# Economic Report of the President 



# Transmitted to the Congress February 1996 

TOGETHER WITH
THE ANNUAL REPORT
OF THE

## COUNCIL OF ECONOMIC ADVISERS

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## ECONOMIC REPORT OF THE PRESIDENT

## ECONOMIC REPORT OF THE PRESIDENT

To the Congress of the United States:
FIFTY YEARS AGO, the CONGRESS passed and President Truman signed the Employment Act of 1946, which committed the U.S. Government to promote policies designed to create employment opportunities for all Americans. I am proud that my Administration has made President Truman's commitment a reality. Over the past 3 years, we have created a sound economic foundation to face the challenges of the 21st century.

## Strong Economic Performance

Overall, the American economy is healthy and strong. In the first 3 years of this Administration nearly 8 million jobs were created, 93 percent of them in the private sector. The so-called "misery index"-the sum of the inflation and unemployment rates-fell last year to its lowest level since 1968. Investment has soared, laying the basis for future higher economic growth. New business incorporations have set a record, and exports of American-made goods have grown rapidly. Ours is the strongest and most competitive economy in the world-and its fundamentals are as sound as they have been in three decades.

This turnaround occurred because of the hard work and ingenuity of the American people. Many of the new jobs are high-wage service sector jobs-reflecting the changing structure of the economy. The telecommunications, biotechnology, and software industries have led the high-tech revolution world-wide. Traditional industries, such as manufacturing and construction, have restructured and now use technology and workplace innovation to thrive and once again create jobs. For example, in 1994 and 1995, America was once again the world's largest automobile maker.

Our 1993 economic plan set the stage for this economic expansion and resurgence, by enacting historic deficit reduction while continuing to invest in technology and education. For over a decade, growing Federal budget deficits kept interest rates high and dampened investment and productivity growth. Now, our deficit is proportionately the lowest of any major economy.

Today, our challenge is to ensure that all Americans can become winners in economic change-that our people have the skills and the security to make the most of their own lives. The very explosion of technology and trade that creates such extraordinary opportunity also places new pressures on working people. Over the past
two decades, middle-class earnings have stagnated, and our poorest families saw their incomes fall. These are long-run trends, and 3 years of sound economic policies cannot correct for a decade of neglect. Even so, we are beginning to make some progress: real median family income increased by 2.3 percent in 1994, and the poverty rate fell in 1994 for the first time in 5 years.

## Addressing Our Economic Challenges

I am firmly committed to addressing our economic challenges and enhancing economic security for all Americans. People who work hard need to know that they can and will have a chance to win in our new and changing economy. Our economic agenda seeks both to promote growth and to bring the fruits of that growth within reach of all Americans. Our overall strategy is straightforward:

- Balancing the budget. In the 12 years before I took office, the budget deficit skyrocketed and the national debt quadrupled. My Administration has already cut the budget deficit nearly in half. I am determined to finish the job of putting our fiscal house in order. I have proposed a plan that balances the budget in 7 years, without violating our fundamental values-without undercutting Medicare, Medicaid, education, or the environment and without raising taxes on working families. The plans put forth by my Administration and by the Republicans in the Congress contain enough spending cuts in common to balance the budget and still provide a modest tax cut. I am committed to giving the American people a balanced budget.
- Preparing workers through education and training. In the new economy, education is the key to opportunity-and the education obtained as a child in school will no longer last a lifetime. My Administration has put in place the elements of a lifetime-learning system to enable Americans to attend schools with high standards; get help going to college, or from school into the workplace; and receive training and education throughout their careers. We expanded Head Start for preschoolers; enacted Goals 2000, establishing high standards for schools; created a new direct student loan program that makes it easier for young people to borrow and repay college loans; gave 50,000 young people the opportunity to earn college tuition through community service; and enacted the School-toWork Opportunities Act. Now we must continue to give our people the skills they need, by enacting my proposals to make the first $\$ 10,000$ of college tuition tax deductible; to give the top 5 percent of students in each high school a $\$ 1,000$ merit scholarship; and to enact the GI Bill for Workers, which would replace the existing worker training system with a flexible voucher that workers could use at community colleges or other training facilities.
- Increasing economic security. We must give Americans the security they need to thrive in the new economy. We can do this through health insurance reforms that will give Americans a chance to buy insurance when they change jobs or when someone in their family is sick. We can do this by encouraging firms to provide more extensive pension coverage, as I have done through my proposals for pension simplification. In addition, we should make work pay by increasing the minimum wage and preserving the full Earned Income Tax Credit (EITC), which cuts taxes for hard-pressed working families to make sure that no parents who work full-time have to raise their children in poverty.
- Creating high-wage jobs through technology and exports. We must continue to encourage the growth of high-wage industries, which will create the high-wage jobs of the future. We have reformed the decades-old telecommunications laws, to help spur the digital revolution that will continue to transform the way we live. We must continue to encourage exports, since jobs supported by goods exports pay on average 13 percent more than other jobs. My Administration has concluded over 200 trade agreements, including the North American Free Trade Agreement and the Uruguay Round of the General Agreement on Tariffs and Trade, seeking an open world marketplace and fair rules for exporters of American goods and services. As a result, merchandise exports have increased by 31 percent.
- A government that is smaller, works better, and costs less. A new economy demands a new kind of government. The era of big, centralized, one-size-fits-all government is over. But the answer is not the wholesale dismantling of government. Rather, we must strive to meet our problems using flexible, nonbureaucratic means-and working with businesses, religious groups, civic organizations, schools, and State and local governments. My Administration has reduced the size of government: as a percentage of civilian nonfarm employment, the Federal workforce is the smallest it has been since 1933, before the New Deal. We have conducted a top-to-bottom overhaul of Federal regulations, and are eliminating 16,000 pages of outdated or burdensome rules altogether. We have reformed environmental, workplace safety, and pharmaceutical regulation to cut red tape without hurting public protection. And we will continue to find new, market-based ways to protect the public.


## The Need to Continue with What Works

As The Annual Report of the Council of Economic Advisers makes clear, this is a moment of great possibility for our country. Ours is the healthiest of any major economy. No nation on earth is bet-
ter positioned to reap the rewards of the new era. Our strategy of deficit reduction and investment in our people has begun to work. It would be a grave error to turn back.

Our Nation must reject the temptation to shrink from its responsibilities or to turn to narrow, shortsighted solutions for long-term problems. If we continue to invest for the long term, we will pass on to the next generation a Nation in which opportunity is even more plentiful than it is today.
Uriuniou Seqiuton

THE WHITE HOUSE
FEBRUARY 14, 1996

# THE ANNUAL REPORT 

 OF THECOUNCIL OF ECONOMIC ADVISERS

## LETTER OF TRANSMITTAL

## Council of Economic Advisers,

 Washington, D.C., February 14, 1996.Mr. President:
The Council of Economic Advisers herewith submits its 1996 Annual Report in accordance with the provisions of the Employment Act of 1946 as amended by the Full Employment and Balanced Growth Act of 1978.

Sincerely,



Martin N. Baily Member


Alicia H. Munnell
Member

## Fifty Years of the Council of Economic Advisers

The Council of Economic Advisers celebrates its 50th anniversary this year. The Council was established by the Congress in the Employment Act of 1946. Over the years, it has provided every President since Harry Truman with rigorous and independent economic analysis and advice.

The Council's 50 -year tradition and reputation as a high quality, professional organization allows it to attract to government service some of the most distinguished economists in the country. For instance, a number of Council Members or staff have earned or went on to earn the Nobel Prize or J ohn Bates Clark award.

Consistent with the mandate of the Employment Act, the Council prepares each year an Economic Report of the President; provides the President with advice and analysis on a full range of domestic and international economic issues; monitors key macroeconomic indicators and advises the President on how to interpret them; and publishes a monthly digest of economic statistics in conjunction with the Joint Economic Committee of the Congress.
The Council's mission within the Executive Office of the President is unique: it serves as a tenacious advocate for policies that facilitate the workings of the market and that emphasize the importance of incentives, efficiency, productivity, and long-term growth. This perspective has been essential to formulating and advocating creative approaches for effectively addressing America's economic challenges. The Council has also been important in helping to weed out proposals that are illadvised or unworkable, proposals that cannot be supported by the existing economic data, and proposals that could have damaging consequences for the economy.

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## CHAPTER 1

## Economic Policy for the 21st Century

The American economy has performed exceptionally well over the past 3 years. The combined rate of unemployment and inflation fell to its lowest level since 1968. Productivity in the manufacturing sector has increased by an average of 4 percent per year. Investment has soared, laying the basis for increased productivity in the future, while exports have boomed: equipment investment and merchandise exports both have climbed more than 25 percent since the beginning of 1993. Yet despite these encouraging developments, many Americans remain concerned about the state of their own economic affairs. Their dissatisfaction reminds us of the many challenges that remain.

In 1992, more than 9 million Americans were unemployed, and the unemployment rate was above 7 percent. In parts of the country, such as California, nearly one-tenth of the labor force was without a job. By late 1995, however, the unemployment rate had dropped to 5.6 percent, and the economy was poised to reach the target the Administration had set for it: 8 million new jobs in 4 years.

Before the Administration could move ahead with its own positive economic agenda (which this Report describes), it had to address some of the economic problems it had inherited. The economy suffered from multiple infirmities-a weakened banking system, increasing poverty, and lackluster overall performance-but the most visible problem was the soaring budget deficit. The first step required to set the economy on the right course was to reduce the Federal budget deficit. By cutting the Federal Government's borrowing needs, deficit reduction has contributed to lower interest rates for businesses and consumers, thereby spurring investment and growth.

The Omnibus Budget Reconciliation Act of 1993 (OBRA93), which embodied the President's deficit reduction plan, put the country solidly on the road to fiscal responsibility. For over three decades the country had been gradually reducing the burden of the debt that had financed victory in World War II: the ratio of debt to gross domestic product (GDP) fell from 82 percent in 1950 to 27 percent in 1980. Within 12 years much of this progress was lost,
and the debt to GDP ratio soared to 50 percent by 1992 (Chart 11). Following passage of OBRA93, the debt to GDP ratio has stabilized.

Chart 1-1 Federal Debt-to-GDP Ratio
After falling throughout the early postwar era, the Federal debt as a percent of GDP rose in the 1980s and has now leveled off.


Since OBRA93, the deficit has been cut nearly in half, from \$290 billion in fiscal 1992 to $\$ 164$ billion in fiscal 1995. The drop is even more dramatic when compared with the deficits that would have occurred without OBRA93 (Chart 1-2). The deficit has been reduced in dollar terms for 3 consecutive years for the first time since the Truman Administration. The dedine in the deficit as a percentage of national output has been particularly striking: at 2.3 percent of GDP, the fiscal 1995 deficit is the lowest since fiscal 1979 and less than half the fiscal 1992 level of 4.9 percent. The Federal Government is now running a primary budget surplus: in other words, were it not for the interest payments on the inherited debt, there would be no deficit. And the general government deficit is now a smaller percentage of GDP than in any of the other major industrial economies (Chart 1-3).

This restoration of fiscal responsibility, achieved without sacrificing crucial investments in our Nation's human, physical, and natural resources, provided the background for the current bipartisan resolve to eliminate the deficit within 7 years. A later section of this chapter discusses the right way and the wrong way to elimi-

Chart 1-2 Federal Budget Deficit
Budget deficits would have remained large relative to the size of the economy without deficit reduction initiatives. Instead, deficits have fallen sharply.


Note: The GDP measure used is pre-January 1996 benchmark revision.
Sources: Office of Management and Budget and Congressional Budget Office.

Chart 1-3 General Government Deficits of the Group of Seven Countries in 1994
The United States has the lowest general government deficit-to-GDP ratio of any major industrialized country.


[^1]nate the deficit, and Chapter 2 of this Report examines budgetary issues in more detail.

## ECONOMIC CHALLENGES

The economy's recent performance notwithstanding, pressing challenges remain. In the short run, as discussed in Chapter 2, the principal economic challenge is to maintain full employment with low inflation. In the long run, the two paramount challenges are to increase productivity growth and to ensure that all Americans share in the benefits of a stronger economy. Since 1973, productivity growth has been relatively sluggish: its pace in the economy as a whole is significantly slower than it was during the two and a half decades immediately following World War II. Output per hour grew by an average of 2.9 percent per year between 1960 and 1973, but has grown by only 1.1 percent per year since then. The cumulative impact of this productivity shortfall, compounded over decades, is dramatic: output per hour would be over 40 percent higher today if the pre-1973 rate of productivity growth had been maintained. Slower productivity growth since 1973 has resulted in stagnating real wages. Because of the difficulties in measurement, the extent of the weakness in wages may be overstated, but concern over slow wage growth is genuine and cannot be ignored.

Some evidence suggests that the tide may now be turning. In 1994 real median family income rose for the first time since 1989. But a 20 -year trend cannot be corrected in one year. Indeed, even with the 1994 improvement, real median family income was just 2.5 percent above its 1973 level. More needs to be done. The Administration's economic policies are intended to boost growth and living standards well into the 21st century.
The negative effects of slower productivity growth have been sharpened for low-income Americans by a marked increase in income inequality. Between 1966 and 1979 Americans all across the income distribution enjoyed the benefits of economy-wide growth in real incomes: families in the poorest fifth of the population saw their real incomes grow by 20 percent, while families in the top fifth experienced real income growth of 28 percent. But since 1979 family incomes have grown apart. Between 1979 and 1993 real family incomes in the bottom fifth fell by 15 percent, while the incomes of the top fifth rose by 18 percent (Chart 1-4).
It is too soon to tell for sure, but we may be beginning to succeed in sharing the benefits of growth and reducing poverty. The poverty rate, for example, fell in 1994 for the first time in 5 years. But we must do more to reduce inequality and poverty: despite an improvement in 1994, over onefifth of American children still live in poverty.

Chart 1-4 Changes in Average Real Family Income by Quintile
Real incomes have fallen or stagnated for most American families since 1979.


Note: Family income is deflated by the CPI-U-X1.
Source: Department of Commerce.

## PRINCIPLES FOR RAISING LIVING STANDARDS

The Administration's economic policies address the twin problems of slow productivity growth and rising income inequality. Three principles guide the Administration's efforts to solve these long-run problems: embracing change, creating opportunity, and promoting personal responsibility. These principles reflect core American values, and as such they provide the basis for a national consensus for addressing our economic challenges.

Putting this consensus into practice requires a variety of partner-ships-between workers and firms, between the public and the private sector, between individuals and their communities, and between the Federal Government and State and local governments. Competition is the driving force of a market economy, but companies compete more effectively when workers and managers cooperate. The public and private sectors can cooperate in solving environmental problems and in meeting skill shortages. And the Federal Government can work with the States to meet the need for infrastructure investment and a social safety net.

Much of the current debate over the economy and the budget stems from different conceptions of the roles that markets, governments, and individuals should play in improving our society. Private enterprise lies at the very heart of our modern economy. Indi-
viduals and corporations provide the initiative and innovation that have enabled the market economy to bring unrivaled prosperity to our Nation, and the underlying dynamism of markets is fundamental to continued improvements in living standards.

Yet unfettered markets occasionally fail to yield desirable outcomes or to meet important national objectives. For example, in a completely unregulated marketplace, firms may produce too much of some "goods," such as pollution, and too little of others, such as basic research and development. This failure to produce the "right" amounts of certain goods and services is due to the presence of externalities. Externalities arise when the actions of one firm or individual produce costs or benefits for others without that firm or individual being charged for the costs or compensated for the benefits. In such cases the government has a special role. The government has an obligation to perform that role as efficiently as possible, minimizing the burden on the economy and the intrusions in the lives of its citizens. Not every market "problem" calls for government action. In order to raise living standards, government actions therefore must meet two criteria: they must address some serious imperfection in the private marketplace, and they must be designed so that their benefits outweigh their costs.
A variety of government programs have proved extremely successful in raising living standards. We take for granted many of the government services-such as retirement and disability benefits (Social Security), health insurance for the aged (Medicare), and unemployment insurance - that the market had failed to provide (Box 1-1). Before Medicare was enacted in the 1960s, for example, many elderly Americans lacked health insurance, whereas today almost all have it.
Medicare is a good example of a government program that filled a gap in the range of services provided by the private sector. But government programs can and do go awry. Indeed, government is sometimes part of the problem, not part of the solution. For example, the construction of high-density public housing projects may have contributed to some of the problems facing America's inner cities. Chapter 4 of this Report describes some of the efforts the Administration has made to make government work better, while Chapter 5 examines the role of policy in making markets work better.

In sum, government has a place, but government must know its place. We now turn to exploring what government's place should be with regard to the three principles enunciated above: embracing change, creating opportunity, and promoting personal responsibility.

## Box 1-1.-Programs That Raise Living Standards

Many public sector programs have been extremely successful in improving living standards:

- Social Security. The Social Security system, created in 1935, provides monthly benefits to retired workers and their dependents and to survivors of insured workers. The program has dramatically reduced old-age poverty: only 12 percent of elderly Americans now live in poverty, down from almost 30 percent in 1966. The Social Security Administration is also remarkably businesslike. A leading financial news publisher recently ranked the quality of the agency's telephone customer service above those of several private companies renowned for their excellent customer service. And administrative costs only amount to about 1 percent of Social Security outlays.
- The G.I. bill. The first G.I. bill of rights, signed by President Franklin D. Roosevelt on J une 22, 1944, transformed American society. It provided education benefits for all honorably discharged World War II veterans who had served at least 90 days during the war. Almost 8 million received education benefits under the first G.I. bill; more than 10 million veterans have received benefits under its extensions. The G.I. bill also provided loan guarantees for veterans to buy a home or a farm.
- Student grants and loans. The government provides various forms of financial assistance to students. Pell grants provide aid to financially needy students for educational costs at participating postsecondary institutions. Under the Perkins loan program, the Federal Government contributes the capital for qualifying institutions to make long-term, low-interest loans to needy students. Under the Stafford loan program, commercial loans to students are backed by the government. And the new direct lending program for college students is designed to provide educational finance in a less costly, less cumbersome fashion. Under the program, the government provides loans to students directly, rather than guaranteeing loans from financial intermediaries, and offers a variety of repayment schemes (including a new option to link repayments to students' incomes). Chapter 7 discusses the role of government in education.


## EMBRACING CHANGE

Our continued prosperity and well-being depend on our embracing, not retreating from, the constant succession of new opportunities and challenges of an ever-changing world. During the past few years American firms have been through a technological revolution. They have taken a hard look at what they do, how they do it, and what they must do differently. The result: in many sectors American firms are the most competitive in the world. U.S. computer firms continue to lead the industry at a breakneck pace of technical innovation, of which the explosive growth of the Internet and the increasing popularity of the World Wide Web are merely the newest manifestations. When firms and workers embrace change as these industries have done, the economy as a whole benefits in the form of higher real incomes, lower prices for goods, a wider variety of products, and enhanced opportunities.

But while embracing change raises growth and average living standards, not everyone is made better off. In a rapidly changing economy some will find themselves without the skills required for the new jobs being created. When workers with outdated skills lose their jobs, they face the threat of prolonged unemployment or reemployment at much lower wages. Estimates suggest that about one-third of full-time workers who lose their jobs and are subsequently rehired at another full-time job take a pay cut of 20 percent or more. By providing retraining, and by establishing onestop career development centers where workers can find out about both training and job opportunities, the government can increase the efficiency of the economy even as it reduces the burden on those who otherwise would be harmed by economic change.
This Administration has actively promoted change, by opening up markets here and abroad, by sponsoring research and development, by devising tax policies to stimulate the growth of new enterprises, and by easing the burden of government regulation. Critics sometimes claim that open trade and investment harm the economy. But as Chapter 8 of this Report argues, outward-looking trade and investment policies remain the best choice for America. They boost living standards by encouraging firms to innovate and become more competitive, by stimulating the flow of ideas across national borders, and by providing a wider variety of goods-at lower prices-to consumers and firms.
This Administration has not only promoted change for othersthe workers and firms affected by its policies-but has embraced it in its own practices. The Administration recognizes that what the Federal Government does, and how it does it, is sometimes the result of a seemingly haphazard accumulation of functions rather than a coherent, concerted response to a present need. Programs inaugurated yesterday with great optimism in response to yester-
day's exigencies too often survive long after their usefulness has passed. In an era of difficult budget choices, those programs that have outlived their purpose, or whose benefits no longer justify their costs, have to be cut back or eliminated to make room for programs that may be needed for success in the 21st century. Efforts to reinvent government over the past 3 years are explored in more detail below.

## CREATING OPPORTUNITY

The Administration is committed to extending opportunity to all Americans. Opportunity means allowing each individual to live up to his or her full potential, and ensuring that those who suffer temporary setbacks have a chance to bounce back. The commitment to opportunity is not only a fundamental American value; it is also necessary for achieving faster growth rates and higher standards of living.
Education and training are essential tools for expanding opportunity. Educational opportunities must be available at all stages of a person's life: from the preschool years through high school or college, and continuing through one's career. But these opportunities are not universally available. Children from low-income families, for example, do not enter formal schooling with the same readiness as their more economically advantaged peers-a disparity that Head Start (a government program that provides a range of preschool services to young children and their families) helps redress. And the difficulties involved in borrowing against future income highlight the importance of government student loan programs. Although college is an investment that usually pays high returns to the student and to society, private lenders view these loans without collateral as simply too risky. Chapter 7 of this Report examines the government's role in the student loan market.
Opportunity entails more than just education and training: having learned the requisite skills, Americans should have the opportunity to obtain jobs. During the Great Depression, when the unemployment rate soared to over 25 percent, our economy failed to offer the opportunity to work to millions of Americans, unemployed through no fault of their own. The Employment Act of 1946 committed the government to combating unemployment. The act declared that "it is the continuing policy and responsibility of the Federal Government to use all practicable means . . . to foster and promote . . . conditions under which there will be afforded useful employment opportunities, including self-employment, for those able, willing, and seeking to work. . . ." The Administration's macroeconomic policies, described in Chapter 2, have provided opportunity to millions of Americans by fostering job growth and reducing unemployment.

Opportunity in the labor market requires much more than active education, training, and macroeconomic policies. It also requires policies that make work pay for low-skilled workers and eliminate labor market discrimination for all. Today a full-time, year-round minimum wage worker with a family does not earn enough to stay out of poverty. To help these low-income working Americans and their families, in 1993 the President and the Congress expanded the Earned Income Tax Credit (EITC), and the President has since proposed an increase in the minimum wage from $\$ 4.25$ to $\$ 5.15$ an hour.
All forms of discrimination contradict a fundamental tenet of American society: that every American should have a fair chance to succeed. Our Nation has made tremendous strides in reducing discrimination, but the job is not finished. "Audit" studies, in which white and minority job seekers are given similar resumes and sent to the same sets of firms for interviews, indicate that discrimination remains a problem in the labor market. Our civil rights statutes and affirmative action programs combat such discrimination and seek to ensure equal opportunity, and the Administration is fully committed to promoting opportunities in employment, education, and government contracting for Americans subject to discrimination or its lingering effects.

Finally, opportunity also means that those who suffer temporary setbacks have the ability to put themselves back on the right track. The EITC can help, and it does more than help those who directly benefit: it also provides an enhanced sense of security to the millions of other Americans who know they might need assistance at some time in their careers.

## PROMOTING PERSONAL RESPONSIBILITY

It is each individual's responsibility to make use of the opportunities that society offers, and not to abuse the protections that society affords. The Administration is firmly committed to designing policies and programs to bolster personal responsibility. But ultimately it is up to each and every American to assume responsibility for his or her own life.

Policies must encourage people to assume responsibility for their own lives, not discourage them from it. And policies intended to address other challenges-for example, ensuring equity-must be carefully designed to minimize any adverse impact on individual incentives. A number of government programs provide, or can be thought of as providing, insurance. Yet a problem common to all types of insurance is moral hazard: having the insurance makes the insured-against event more likely to occur. For example, fire insurance reduces the incentives for homeowners to take precautions against fire, and thus may make fires more likely. In the policies
they write, private insurance companies include mechanisms, such as deductibles and copayment provisions, aimed at minimizing moral hazard. Similarly, government programs that compensate for misfortune-such as employment and disability insurance, and welfare programs-must be designed so as to promote responsibility, minimize adverse incentive effects, and diminish moral hazard, including dependence on government programs.

In summary, an appropriate role for policy-an effective partnership between the public and the private sector-is crucial to raising living standards. Markets are the engine of prosperity, but sometimes government must help markets to work more efficiently.

## THE ADMINISTRATION'S ECONOMIC POLICIES

Embracing change, creating opportunity, and promoting personal responsibility-these principles are a common thread running through the Administration's economic policies. Those policies are intended to bolster, not replace, the underlying strength of markets in building a better society and raising living standards. Raising living standards entails more than just raising incomes; it also includes providing educational opportunities for our children, protecting the environment, and supplying security against devastating adversity. The Administration's economic policies include expanding markets; investing in human, physical, and technological capital; making government more efficient; and reducing the budget deficit.

## EXPANDING MARKETS

## Promoting Competition

Competition is the driving force of efficiency and innovation. But as we all know, life is often more comfortable with less rather than more competition. Over 200 years ago, Adam Smith recognized that, "People of the same trade seldom meet together, even for merriment and diversion, but the conversation ends in a conspiracy against the public, or in some contrivance to raise prices." It is all too easy to advocate competition for others while seeking protection from competition for oneself. Such protection is often rationalized by claims of "unfair" competition. Economists have long criticized such self-serving arguments and have advocated strong antitrust laws to secure the advantages of effective competition: lower prices, greater efficiency, increased output, more rapid growth, and enhanced innovation. Under the leadership of the J ustice Department's Antitrust Division, the Administration has implemented an aggressive policy to prevent unhealthy concentrations of market power and promote competition.

Competition policy issues in telecommunications provide a trenchant example of how ongoing change in the economy necessitates change in economic policies. The telecommunications sector not only has grown by leaps and bounds during the past 3 years, but has also provided a spur to changes in other sectors. Government has played a long and useful role in telecommunications, from its financing of Samuel Morse's first telegraph line between Baltimore and Washington to the development of what has become the Internet. But the 60 -year-old legislation that regulated the industry until this year was out of tune with the times and stifled innovation. Passage of the new telecommunications bill in February 1996 is expected to stimulate competition and ease access to the information superhighway.

Most analysts agree that the telecommunications regulatory structure needed reform. But effective reform proved more complicated than simply repeating a mantra of deregulation: an unregulated private monopoly can be just as stifling, if not more so, than a regulated one. Deregulation done the wrong way could result in the growth of firms with market power that suppress competition and innovation; equally important, deregulation that permitted excessive media concentration could hamper the public's access to the full panoply of viewpoints. To avoid these pitfalls, the new legislation is designed in a way that fosters competition, recognizing that today's bottlenecks to competition might be removed in a few years. Chapter 6 details the constructive approach the Administration has taken to regulatory reform in this and other areas.

## Promoting Exports

Both theory and evidence demonstrate that outward-looking trade and investment policies raise wages and living standards: jobs supported by merchandise exports pay 13 percent more than the national average. Chapter 8 of this Report presents the rationale for the Administration's continued support of "compete, not retreat" trade policies. It also explores what trade policy can achieve (higher living standards) and argues that the trade balance is not the proper measure by which to judge the success of trade policies.

The Administration's trade policy record includes several historic trade agreements that have opened foreign markets. Over the past 3 years the Administration has brought the Uruguay Round to a successful close; created the North American Free Trade Area with our largest and third-largest trading partners; reached agreement with 33 other countries to seek a Free Trade Area of the Americas by 2005; set the vision for achieving free trade and investment in the Asia-Pacific by 2020; concluded 20 bilateral trade agreements with J apan; and promoted macroeconomic and trade policies that have contributed to strong export growth (Chart 1-5). The Admin-
istration's aggressive support of intellectual property rights has benefited not only American firms, which lead the world in research and innovation, but also other innovative firms throughout the world, providing a spur to innovation everywhere. U.S. living standards have benefited and will continue to benefit from the Administration's efforts to promote trade.

Chart 1-5 Merchandise Exports
Goods exports have grown by 26 percent in real terms since the Administration took office.


Note: Data are at annual rates.
Source: Department of Commerce.

## INVESTING IN PHYSICAL, HUMAN, AND TECHNOLOGICAL CAPITAL

Increases in productivity are largely the consequence of investment: in physical capital (plant, equipment, and infrastructure), human capital, and in the development of new technology. Government can promote all three. Through the sound macroeconomic policies of the kind pursued during the past 3 years, the government can create an economic climate conducive to physical capital investment. But the government must play an even more direct role in making investments in people and in technology.
Investing in People
Preserving and extending lifelong investments in people has been central to the Administration's economic strategy. Investments in people are estimated to account for approximately a fifth of the annual increase in productivity achieved over the past three decades, and economic studies have demonstrated the high returns of public
investments in this area. As Benjamin Franklin once put it, "An investment in knowledge pays the best interest." Early childhood programs such as Head Start, seem to produce fewer repeated grades, a lower likelihood of being assigned to special education classes, and a higher likelihood of graduating from high school.

The Administration has expanded investments in education and training not only as a pro-growth policy, but also as an essential ingredient in breaking the vicious cycle of poverty. As Chapter 7 of this Report argues, past cutbacks in public support for education have aggravated trends in inequality. Between 1980 and 1994 the average tuition at public 2 -year colleges increased by 70 percent, and that at public 4 -year colleges by 86 percent, while the value of the maximum Pell Grant-the primary Federal program for lowincome students-fell by more than 25 percent in real terms. The results of these changes are not unexpected. Returns to education have risen sharply in the past 15 years, but the expected re-sponse-increased enrollments-has occurred disproportionately among the children of the better off: over the same time period, the gap in enrollment rates between high-income and low-income children has actually increased.

This Administration is working to revitalize the Federal role in education and training. It has supported rigorous academic standards and comprehensive school reform through the Goals 2000: Educate America Act, which provides funding for the implementation of voluntary content standards and local educational innovation; created a new direct lending program for college tuition, to reduce costs and inefficiencies and make the terms of repayment less onerous; and encouraged a smooth transition from school to the workplace through the School-to-Work Opportunities Act. That piece of legislation is especially important because it funds programs to prepare high school students for today's careers. The Administration has also begun to transform the Nation's unemployment system into a reemployment system, by creating one-stop career centers and proposing a system of skill grants (job training vouchers) for low-income and dislocated workers. The Administration's policies to improve both the quantity and quality of expenditure on education and training are examined in more detail in Chapter 7 of this Report.

## Investing in Research and Development

The Federal role in research and development and technologyboth in conducting research and in disseminating the ideas that research generates-dates back to the 19th century. That investment has produced impressive returns: from a more productive agricultural sector to the underpinnings of what is today one of America's largest export sectors, aeronautics, and to the basic science that has given rise to one of America's most prominent high-technology
sectors, biotechnology. Recent studies suggest that half or more of all increases in productivity are due to improvements in technology, and these studies have verified the high total returns to such investments-returns far in excess of those from investments in plant and equipment. As the 21st century approaches, our technology programs must be both strengthened and reoriented to emerging sectors. The Administration has promoted public sector investments in technology through programs such as the Advanced Technology Program and the Manufacturing Extension Partnerships (at the Department of Commerce's National Institute of Standards and Technology) and the Technology Reinvestment Project (at the Department of Defense's Advanced Research Project Agency).

## MAKING THE GOVERNMENT MORE EFFICIENT

The Administration recognizes the need for change not only in what the government does, but also in how it does it.

## Reinventing Government

The reinventing government initiative was undertaken to improve the efficiency of government, learning from the private sector wherever possible, while acknowledging the differences between public and private sector activities. The National Performance Review, headed by the Vice President, has focused on making government agencies more performance- and customer-oriented, developing performance measures, and ensuring that those measures are used for evaluation. These efforts are already beginning to bear fruit, in the form of better customer service and greater efficiency.

The Administration is committed to continuing the reinvention of the Federal Government, eliminating outmoded programs designed for the 19th and 20th centuries, and promoting new ones designed for the 21st. For example, the Department of Agriculture has reduced the number of its agencies from 43 to 29 and is in the process of closing or consolidating 1,200 field offices. It has also plowed under a bumper crop of paperwork: America's farmers this year will fill out 3 million pages fewer of government forms than in years past. Meanwhile the Administration has cut the overall Federal workforce by 200,000 positions. As a percentage of total employment in the United States, Federal employment is smaller today than at any time since the early 1930s.
In its efforts to reinvent regulation, the Administration has attempted to ensure that each regulation it reviews is consistent with its identified objectives, and that the benefits from the regulation justify its costs. Many of the proposals for reinventing government are intended to reduce those costs by fundamentally changing our regulatory philosophy. In its regulatory role, government should seek to facilitate compliance, not to act as a disciplinarian. And
regulations should be as market-friendly and performance-oriented as possible. They should encourage innovation and cost-effective ways of achieving the objectives of the regulation. They should take advantage of incentives and market mechanisms, rather than try to suppress them.
One set of regulations that the Administration has examined is those affecting some private sector pensions. Two objectives of these regulations are to prevent pension plans from becoming a vehicle for tax evasion, and to keep them from discriminating against low-wage workers. But in the aggregate these provisions have discouraged firms from offering pensions, thus failing to encourage national saving. The Administration therefore proposed simplified pension arrangements. The proposal would provide substantial safe harbors from nondiscrimination rules if employers match employee contributions; this should reduce the costs to small businesses of administering pension plans.
Other strides have been made in reducing the burden of environmental regulations and those affecting the banking and telecommunications sectors. The proposals recognize the fundamental changes in the economy that call for reform of regulatory structures, but also the need for real safeguards to be kept in place to promote competition and innovation, and to protect consumers and the environment. These reforms are described in greater detail in Chapters 5 and 6.

## Protecting the Environment

Americans want to know that the air they breathe, the water they drink, and the rivers and lakes in which they swim and fish are safe. They want to be sure that the places where they live and work do not harbor threats to their health from contamination by dangerous chemicals, and that the Nation's natural resources are properly protected and managed. Protecting the environment is one of the best investments we can make on behalf of our children. Preserving and improving our environmental heritage is an essential part of maintaining and raising overall living standards.
The country has made enormous progress in this area. The air we breathe today is cleaner than before the Clean Air Act was passed. Substances that pose real dangers to human health and the environment, such as lead and DDT, have been eliminated or their use sharply reduced. Rivers and lakes have been restored to health: 25 years ago Lake Erie was all but dead; today life thrives in it again. With U.S. leadership, the international community has made considerable progress in phasing out substances that damage the earth's stratospheric ozone layer, which shields us from dangerous radiation.

But the battle is far from over. Air quality in some locations re mains unacceptably poor. The outbreak of water poisoning in Mil-
waukee in 1993, and other episodes in which drinking water in our major cities has failed to meet quality standards, do more than just raise anxiety. Chemical runoff from cities, subdivisions, and farms into our rivers and lakes is a constant challenge. Pressures from economic development and increased demand still threaten the Na tion's wetlands, fisheries, and other natural resources.
Although we all enjoy the benefits of cleaner air and cleaner water, as individuals-whether managers of steel companies or of oil refineries, or the producers or the drivers of automobiles-we have little incentive to spend our own money to make these things happen. Few are willing to shoulder all the costs of something for which all share the benefits. Acceptable environmental quality cannot be achieved without collective action. With appropriate poli-cies-including cooperation with States and localities, partnerships with the private sector that engender creative solutions as well as set standards, and careful assessment of the advantages and disadvantages of alternative government action-environmental protection can be secured at an affordable cost.

The Administration is improving the way in which we protect the environment, making government a partner rather than an overseer. The Environmental Protection Agency is eliminating 1,400 pages of obsolete regulations and revising 9,400 more. In the process it is cutting paperwork requirements by 25 percent, saving private industry about 20 million hours of labor per year. Chapter 5 of this Report examines environmental policy in more detail.

## Devolution

The Administration has been examining not only what roles government should play, but also at what level-Federal, State, or local-government should play its role. It has reexamined the partnership between the Federal Government and the States and localities, to ensure that public funds are used most efficiently. In some areas, such as national defense, the Federal Government has a clear responsibility that cannot be delegated. Other areas have traditionally been matters of local responsibility. Chapter 4 of this Re port reviews the basis on which different responsibilities should be assigned to different levels of government, and stresses that what is usually required is a careful balancing of roles and responsibilities between the different levels.

## Redesigning Welfare Policies

The government has a crucial role to play in increasing economic independence, rewarding work, and ensuring that children are not trapped in poverty. This is important not only for social cohesion; it is an economic imperative as well. Each year that a child spends in poverty raises the probability of that child later dropping out of school. And dropouts tend to contribute less to national income: in

1994, mean annual earnings for a full-time, year-round worker aged 25 to 34 who had dropped out of high school were $\$ 18,679$. Mean earnings for high school graduates in that age range were \$23,778.
Although individuals must ultimately be responsible for their own actions, opportunities at least partially affect our behavior. The limited economic opportunities available to dropouts make recourse to antisocial behavior all the more likely. On any given day in 1992, 25 percent of men aged 18 to 34 who lacked a high school diploma were in prison, on probation, or on parole, compared to only 4 percent of high school graduates. This is not merely a tragic outcome for those young men: increased crime imposes a wider social cost, in the form both of greater expenditure by the criminal justice system and of reduced personal security for all of us.

The policies adopted in the past to reduce income inequality and poverty are in need of reform. Everyone agrees that the current welfare system is broken. Welfare dependency does enormous harm to individuals and families, by discouraging work and undermining personal responsibility. Welfare recipients are robbed of their dignity, and administrators spend too much time determining eligibility and to little time helping families get back on their feet.

Figuring out how to fix the welfare system, however, is a great challenge. With no easy answers, the Administration has worked to give States the flexibility they need to experiment with new approaches to welfare. As of February 1996, 37 States have received waivers allowing them to pursue a wide range of reforms. For example, Wisconsin has received a waiver to impose stringent work requirements and time-limited benefits.

In order to help move parents from welfare to work, the Administration has proposed to impose a time limit nationwide. Within 2 years, parents would be required to work. Within 5 years, they would lose their benefits. Children would receive vouchers for support if their parents' benefits were terminated. Chapter 4 of this Report discusses many of these issues in more detail.

## REDUCING THE DEFICIT

Before it could pursue the rest of its economic agenda, the Administration had to bring the Federal budget deficit under control. One of the most detrimental legacies left by previous Administrations was the perilous state of public finances. The large budget deficits run up during the 1980s and early 1990s, and the associated increase in public debt, were restricting the private investment that is so crucial to growth and were deepening our indebtedness to foreigners.
Borrowing to finance the deficit absorbs funds that could otherwise be used to finance investment in plant and equipment-in-
vestment that would increase the productivity of the American economy. Combined with a low rate of private saving, government borrowing forces America to borrow more abroad, increasing our indebtedness to foreign countries. As discussed in Chapter 8, one of the fallouts from previous Administrations' economic policies was that the United States went from being the world's largest creditor country to being the world's largest debtor country in the space of a few years.

Deficit reduction can right many of these wrongs and provide the springboard for faster economic growth. But throughout the recent debate over the budget, the Administration has stressed that there is a right way and a wrong way to reduce the deficit. Deficit reduction is not an end in itself, but a means to the end of higher living standards for all Americans. How the deficit is cut may determine whether or not those ends are accomplished.
Deficit reduction done the wrong way will reduce living standards and worsen inequality. Cutting spending to reduce the deficit requires hard choices. In making these hard choices, we must assess what the government does now and what it should do in the 21st century. The Federal budget is not just a bland accounting statement-it is an expression of the Nation's priorities and values and should reflect a vision of where the country is going and the problems it faces. Some proposed budget cuts, such as those that would reduce equality of educational opportunity, represent attacks on fundamental American values. Others, such as in programs that protect the environment and Americans' health and safety, would have adverse effects on living standards in the future, and thus undermine the very purpose of deficit reduction.

## Deficit Reduction and Public Investment

Investment is a key factor in stimulating growth. Reducing the deficit should lower interest rates and stimulate private investment. Cutting the deficit by cutting high-return public investments makes little sense: it merely substitutes one worthwhile investment for another. Indeed, deficit reduction that reduces high-return public investments-like those in research and development, technology, education, and training-may compromise long-term economic growth. Deficit reduction should not be achieved by running down our public infrastructure, by failing to invest in research and development, or by neglecting education and training.
Deficit Reduction and the Social Safety Net
Deficit reduction financed through ill-conceived and excessive cutbacks in social programs is also counterproductive. Reducing inequality not only is essential to keep from shredding the common fabric of our Nation, but may also be important in the more limited objective of promoting economic growth.

Economic growth would suffer if opportunities were reduced for those Americans-and especially the children-at the bottom of the income distribution. We would only worsen the inequality in our society by reducing support for the most vulnerable members of society while handing out large tax benefits to the richest. The better course is to ensure that all Americans who work hard and play by the rules have a chance to escape poverty. To do so would increase national output at the same time that it reduces inequality.

## Deficit Reduction and Health Care

As the President has long emphasized, growth in health care expenditures must be contained. Failing to do so would not only pose the renewed threat of large budget deficits; it could also force unacceptable cuts in other programs that are vital to the country. It would be wrong, however, for the richest country in the world to abandon its commitment to increase access to basic health care.

Ongoing changes in our health care system not only allow us to take advantage of structural reforms (such as more extensive use of managed care), but also offer the hope that market forces will help contain rising health care costs. The restraint exercised by health maintenance organizations, for example, should serve to increase the relative supply of health care services in other segments of the market and, through the usual workings of supply and demand, help bring down costs. But more is needed, and experiments could provide the information required to implement effective reforms in the coming decade-reforms that would protect the elderly even as they reduce the growth rate of public expenditures. Possible demonstration initiatives include reforming the reimbursement system, developing a system of regional hospitals specializing in certain high-cost treatments, and cutting administrative costs at hospitals.

## Deficit Reduction and Taxes

Fifteen years ago, marginal tax rates and the progressivity of the tax system were dramatically reduced. Some suggested that these policies would so spur economic growth that tax revenue would actually increase. The outcome of that experiment is now a matter of record: not only did this response not occur, but the national debt quadrupled in the span of a dozen years. Chapter 3 of this Report reviews the arguments and evidence concerning the efficacy of new tax proposals.

In developing its tax proposals, this Administration has emphasized fairness. The Administration has proposed tax cuts for the middle class and argued forcefully against increasing taxes on lowincome families through a reduction in the EITC. And the Administration objects to proposals that would give a disproportionate share of tax relief to upper income individuals.

At the same time, the Administration has argued that existing expenditure and tax provisions that benefit particular sectors of the economy, and that cannot be justified in terms of some market failure, should be reduced. Although the Administration succeeded in persuading the Congress to eliminate some of the most obvious ex-amples-the subsidies for mohair and honey, for example, and the tax deductions for lobbying expenses-billions of dollars in corporate subsidies and other loopholes remain.

## APPROACHING THE 21ST CENTURY

The U.S. economy has changed profoundly in this century. It will continue to change as we enter the 21st century. Advances in technol ogy will continue at a rapid pace. The globalization of economies will also continue. American firms will face competition from abroad, and all the evidence indicates that they can and will rise to the challenge. Lower priced imports and increased export sales will play a role in increasing living standards, as the United States is able to exploit its comparative advantage on an increasingly global scale.
Some sectors of the economy, such as the services sector, will expand, while others will contract. In 1850, the majority of Americans worked on farms; by 1950 only 12 percent did. In 1900, 20 percent of the workforce was employed in manufacturing; by 1950 this had increased to 24 percent. The manufacturing share has since dedined and now stands at 16 percent. Today, the main growth sectors of the economy include service industries such as telecommunications services. Service industries in the private sector accounted for 46 percent of employment in 1950; today they account for 63 percent.

People naturally tend to recall the past in a softened light that obscures its blemishes, and to see in the future adversities that may never materialize. For some, the prospect of a future in which the service economy dominates even more than it does today is one that raises anxieties. To be sure, some of the service sector jobs that are being created are not good jobs. On the other hand, many new service sector jobs-in computer programming and management consulting, for example-are high-tech, high-wage jobs.

Markets and government will need to respond to ongoing changes in the economy. For government, change will require rebalancing: more emphasis on new problems, less emphasis on those of the past. The best combination of policies to address the problems of 2030 will be markedly different from those that got us through the problems of 1930 or 1830 . Ideological and extremist solutions reflect neither the realities of today nor the tradition of American pragmatism. Rather, the problems of the 21st century need to be
addressed with a balanced perspective. Markets are at the core of our economy, but they do not always operate fully efficiently and do not adequately meet all the needs-even all the economic needs-of Americans. It is then that the government can often help. In the face of increased income inequality, for example, it can make greater efforts to enhance educational opportunity so that the vicious cycle of poverty is not perpetuated.

Government cannot solve all of society's problems, and it certainly cannot solve the more persistent problems overnight. But even if the benefits do not manifest themselves immediately, government must continue to invest in the future. Only by making such investments can the long-term problems of slow productivity growth and increasing inequality be addressed. This Administration firmly believes that government-through selective, focused, and well-designed policies-can help American workers and families achieve higher living standards and develop a more humane, more just society.

## CHAPTER 2

## Macroeconomic Policy and Performance


#### Abstract

ECONOMIC PERFORMANCE DURING the past 3 years has been exceptional. The economy has grown fast enough to create nearly 8 million new jobs and reduce the unemployment rate sharply. Long-term interest rates have declined and remain relatively low. And inflation, at its lowest average level since the Kennedy Administration, is no longer the factor it once was in economic decisions. This strong performance has been helped by macroeconomic policies conducive to sustainable economic expansion.

A major part of this Administration's macroeconomic strategy has been its effort to reduce the Federal budget deficit. Reducing the deficit is important because government borrowing to finance budget deficits raises real interest rates, crowding out business investment that is vital for raising productivity and economic growth. And to the extent that budget deficits spill over into current account deficits, they lead to a transfer of national wealth abroad.

But reducing the deficit is not an end in itself. Rather, it is a way to create economic conditions favorable to this Administration's ultimate goal of raising economic growth and thus the standard of living of all Americans. Once we recognize that deficit reduction is a means to achieving higher living standards, it becomes apparent that how we reduce the deficit is important. This Administration has supported responsible deficit reduction that preserves and enhances investments in people, businesses, and the environment.

Thus far during the Administration's tenure, the reduction in the Federal budget deficit has been impressive. For the first time since the Truman Administration the deficit has declined for 3 years in a row. The deficit for the past 2 calendar years has been less than the interest paid on the national debt, so that, except for interest payments, the budget has been in surplus. And the structural budget deficit-the deficit adjusted for the effects of the business cycle-has declined since 1993. This reflects a sharp break with the failed attempts to reduce the budget deficit during the 1980s. The commitment to balance the budget over the next 7 years represents a continuation of efforts to get the government's fiscal house in order.


This chapter first considers the role the government plays in setting macroeconomic policy. It next reviews macroeconomic developments during 1995 and argues that all signs point to the current expansion continuing into the foreseeable future. The chapter then considers the effects on the economy and the implications for monetary policy of the move to a balanced budget over the next 7 years. The chapter ends with a brief analysis of the outlook for the economy and presents the Administration's forecast for the 1996-2002 period.

## THE TWIN ROLES OF MACROECONOMIC POLICY

Since the end of World War II, the Federal Government has played an important role in stabilizing fluctuations in the economy in the short run and in fostering a climate for maximum economic growth with low unemployment over the long run.

The government supports sound macroeconomic performance in two broad ways. First, its macroeconomic policies cushion the economy from the short-term ups and downs of the business cycle, helping to keep economic expansions from faltering. Both monetary policy and fiscal policy are important elements of these short-run stabilization efforts. Monetary policy stabilizes the economy through the adjustment of credit conditions, as reflected in interest rates and credit availability. Fiscal policy, in principle, can use changes in discretionary spending or the tax code to stabilize the economy, but in practice the time lags involved in legislating and implementing such changes tend to reduce their usefulness. Furthermore, in present circumstances, the commitment to eliminate the budget deficit limits any potential for using discretionary fiscal policy. As a result, the ability of fiscal policy to dampen economic fluctuations depends largely on its role as an "automatic stabilizer" whereby outlays and tax revenues change in a way that reduces the amplitude of the business cycle.

Second, the government's macroeconomic policies help lay the groundwork for the private sector to generate long-term growth with low unemployment. Policies that encourage businesses to invest can raise productivity, increasing the economy's potential output. As discussed below, the Administration's success at bringing down the deficit has helped redress the investment shortfall that developed during the 1980s. As the budget moves toward balance over the next 7 years and the government reduces its drain on national saving, real interest rates should fall and investment and growth should rise. Box 2-1 discusses how microeconomic policies designed to address market failures also can enhance long-run macroeconomic performance.

## Box 2-1.-Microeconomic Policies Can Improve Long-Run Macroeconomic Performance

Microeconomic policies can reinforce macroeconomic policies. Policies that support research and development, along with policies that encourage education and training, complement increased capital investment in raising potential output. Indeed, as noted elsewhere in this Report, public expenditures on research and development are complementary to private expenditures, so that these expenditures can actually induce increased private investments. Targeted tax policies-such as the research and experimentation tax credit and the targeted capital gains tax cut for small and emerging businesses included in the Administration's 1993 budget-can encourage research and development expenditures and increase the flow of capital to new enterprises.
Other microeconomic policies designed to make the labor market work more efficiently-such as training programs, the school-to-work program, and, more broadly, the Administration's reemployment policies-can help reduce frictional unemployment (unemployment caused by workers moving from job to job) and thereby lower the rate of unemployment associated with stable inflation. Accordingly, microeconomic policies have payoffs in terms of macroeconomic performance.

These twin roles are often complementary. For instance, macroeconomic policies that keep the economy on an even keel in the short run can also spur the economy's growth in the long run by creating an environment in which businesses and individuals are more certain about the future. Freed from having to worry about how to insulate themselves from short-term economic fluctuations, businesses and individuals can plan for the long term. They are thus more likely to make the investments that lead to increased productivity and higher output.

## IMPLICATIONS OF THE POLICY MIX

In pursuing these goals of short-run macroeconomic stabilization and long-run maximum growth, fiscal and monetary policy need to act in concert. Monetary policy must reflect changes in aggregate demand relative to the economy's potential output. For example, a shift to a more expansionary fiscal policy when the economy already is operating at full employment and full capacity would require monetary policy to offset the effects of the fiscal expansion. Should it fail to do so, the prospect of an overheated economy and rising inflation is likely to trigger an increase in long-term interest rates, as financial markets react to the change in the economic out-
look. In either case, the shift in fiscal policy will be met with a financial market response that generally cushions its effects on aggregate demand. But without deliberate monetary tightening, changes in interest rates may not be sufficient to stem a rise in inflation.

Although monetary policy can offset the effects on aggregate demand from a shift in fiscal policy, changes in the mix of fiscal and monetary policies will invariably alter the composition of output and its potential level in the long run. During the early 1980s, changes in fiscal policy put the country on a path to large and rising budget deficits (over and above what would have been expected given the cyclical weakness of the economy) and left the Federal Reserve little choice but to restrain the overheating economy by further tightening monetary policy.

The high real interest rates that resulted from the burgeoning deficits and tight money of the early 1980s were in large part responsible for skewing the composition of output away from fixed investment. Private fixed investment as a share of gross domestic product (GDP) fell from over 18 percent in 1979 to under 15 percent by 1989 (to compare 2 years when the economy was operating close to capacity). The relative dedine in private fixed investment net of depreciation was even sharper, from about 8 percent to about 5 percent of GDP. At the same time, personal consumption expenditures increased as a share of GDP from 62 percent in 1979 to 66 percent in 1989. The effects on investment of the increase in the budget deficit likely would have been somewhat less marked if private saving over this period had risen so as to offset the dedine in public saving. But instead both personal and business saving as a share of GDP fell over the 1980s, exacerbating the effects of deficits on interest rates and thus on investment.
High real interest rates during the early 1980s also contributed to a sharp rise in the value of the dollar as foreign investors, attracted by high yields, bought dollar-denominated assets. The appreciation of the dollar in turn caused a rapid swing of the current account balance into substantial deficit. Growing current account deficits quickly transformed the United States from the world's largest creditor country into the world's largest debtor by the late 1980s. Although access to foreign capital moderated the rise in interest rates and the dedine in investment, the resulting buildup in our international indebtedness required that a portion of the economy's output be used to service the foreign debt. In addition, the appreciation of the dollar, combined with the decline in investment's share of output, had strong adverse effects on U.S. international competitiveness.

Today, with this Administration committed to eliminating the budget deficit-and with substantial deficit reduction already
achieved over the past 3 years-the environment is vastly different from that of the 1980s. The imbalances that resulted from the fiscal extremism of that decade can now be corrected. In contrast with earlier policies that raised interest rates, restrained investment, and impeded our international competitiveness, our progress in reducing the budget deficit has lowered interest rates, increased investment, and improved our competitiveness. As discussed later in this chapter, further deficit reduction over the next several years quite possibly will require monetary policy once again to stabilize short-run movements in the economy, this time to prevent a tightening fiscal stance from pushing the economy's growth rate below its potential. Such an accommodative stance of monetary policy should, in concert with deficit reduction, further enhance the dimate for private investment and ensure that the economy remains on a healthier growth path over the long term.

## OVERVIEW OF 1995: RETURNING TO POTENTIAL GROWTH

Economic growth decelerated considerably in the first half of 1995 before regaining momentum in the third quarter. Some moderation in growth was anticipated because the robust expansion of the preceding 2 years had greatly reduced the slack in the economy. Between J anuary 1993 and December 1994, the civilian unemployment rate fell from 7.1 to 5.4 percent, and capacity utilization in the industrial sector rose from 81.3 to 85.1 percent. Even after accounting for the economy's tightening capacity constraints, however, the moderation in growth was greater than expected. Following the rebound in the third quarter, evidence suggested that the economy was once again growing at its potential rate. This moderate pace of growth was fully reflected in the path of the unemployment rate, which, after falling by more than a percentage point over the course of 1994, remained virtually unchanged during 1995.

The moderate growth and reduced pace of job creation during 1995 were evidence that the economy had entered a new phase: it had moved from recovery following the 1990-91 recession to sustained growth. Thus, with the economy operating near full capacity by late 1994, significantly higher growth in the short term probably could not have been accommodated without a rise in inflation. The increase in short-term interest rates over the course of 1994 and early 1995 represented an attempt to restrain demand pressures and hold growth close to its long-run potential.

## EXPLAINING THE MODERATION IN GROWTH DURING THE FIRST HALF OF 1995

The moderation in economic growth during the first half of 1995 was to a large degree the consequence of the rise in interest rates during 1994 and, to a lesser extent, the result of the crisis in Mexico that began in December 1994. Higher interest rates caused a weakening in interest-sensitive spending and an associated buildup in inventory that led producers to restrain output. The economic crisis in Mexico induced a sharp deterioration in the U.S.-Mexico trade balance, further moderating growth.

At the beginning of 1994, and increasingly over the course of the year, many observers believed that the slack in the economy that had emerged during the recession of 1990-91 had disappeared. As already noted, this led to concern that continued growth at anywhere near the heated pace of 1993 would lead to an increase in inflation. These concerns were evident in rising yields on long-maturity bonds beginning late in 1993 and continuing through most of 1994. The Federal Reserve responded by raising the Federal funds rate by 3 percentage points between February 1994 and February 1995.

Despite these rate increases, the economy continued to grow at a rapid pace through the end of 1994 , while the unemployment rate dropped another three-quarters of a percentage point in the last half of the year. Housing starts, one of the more interest-sensitive indicators, did not peak until December 1994. Similarly, motor vehicle sales continued at a rapid pace through year's end, and, anticipating continued strength, automakers boosted production in the first quarter of 1995.

Higher interest rates did not affect economic growth until the beginning of 1995, and then their impact was reinforced by the economic crisis in Mexico. The slackening economy was evident as housing starts dropped in the first 3 months of the year. Although housing activity stabilized and then moved higher over the balance of 1995, the fall in starts translated into declines in residential investment during both the first and the second quarter. Motor vehicle sales also weakened, resulting in a buildup of inventory that reached uncomfortable levels by the end of the first quarter. In response, automakers cut production sharply in the second quarter, restraining GDP growth by almost 1 percentage point at an annual rate.
The magnitude of the moderation during the first half of the year seems clear in retrospect but was harder to read at the time. The advance estimate of first-quarter GDP showed a 2.1 percent (chainweighted) annual rate of growth-a decline from the pace of 1994, but not a dramatic one. First-quarter growth was not revised down to its current estimate of a 0.6 percent annual rate until the bench-
mark revisions of J anuary 1996. (Box 2-2 presents an overview of the recently released benchmark revisions of the national income and product accounts.) Although scattered indications of weakness, such as the declines in motor vehicle sales and housing starts, were beginning to accumulate early in the year, the first solid evidence was the May employment report (published in J une), which showed the first substantial drop in payroll employment in over 3 years.

Partly as a result of the moderation in growth, interest rates fell steadily throughout the year. In response, the housing and automobile sectors retraced much of their decline during the second half of 1995. By the end of the third quarter, reduced automobile production and a pickup in sales had worked off much of the inventory overhang. Home sales and housing starts also had returned to stronger levels.

A review of economic performance sector by sector provides a more detailed picture of the economy as the expansion continued during 1995.

## CONSUMPTION EXPENDITURES

During the first quarter of 1995, consumption expenditures grew by 0.8 percent at an annual rate, after averaging 3.0 percent during 1994. The drop in spending growth was concentrated in durable goods, which fell by nearly 9 percent at an annual rate, with weakening demand for automobiles fueling the decline. Higher interest rates, as discussed above, are likely to have been the primary reason for the retrenchment by consumers. Spending on durables recovered sharply in the second and third quarters, offsetting some weakening in spending on nondurable goods and pushing overall consumption growth back to a solid pace of about 3 percent at an annual rate for the second and third quarters of 1995.

As the year progressed, households continued to take on debt at a rapid rate, raising concerns that they might soon have to reduce their spending in order to meet debt obligations. Rising delinquency rates on consumer loans, especially credit card lending, suggested that an increasing number of households were encountering difficulties managing their debts. Household debt (consumer and mortgage debt) grew faster than disposable personal income, continuing the pattern of the past several years. The burden of this debt, as measured by debt service as a share of disposable personal income, also rose during the year, although it remained below the value reached during the late 1980s. The rise in the debt-service ratio during 1995 occurred despite a general dedine in interest rates over the year, and reflected mainly the sharp rise in the overall debt level. As debt contracts are adjusted or renewed, however, the recent dedine in interest rates should moderate the rise in debt service. Furthermore, consumption expenditures in the long term

## Box 2-2.-The Comprehensive Revision of the National Income and Product Accounts

Early in 1996, the Bureau of Economic Analysis released new estimates of the national income and product accounts. These comprehensive revisions have been done about once every 5 years and incorporate definitional changes, statistical changes, and updated source data in an effort to portray the evolving U.S. economy more accurately. The latest revision incorporates three major improvements:

- Measures of real output and prices are estimated using "chained dollars," which more accurately account for the shifting mix of products purchased and sold in the economy (see Economic Report of the President 1995 for a detailed discussion of chain-weighted GDP).
- Government investment is estimated separately from government consumption expenditures, allowing a more accurate description of government activities and improving the overall measurement of gross investment and national saving.
- Depreciation of fixed capital is estimated using a new methodology that better reflects the service lives of different types of assets.
- The revised estimates of real GDP show average annual growth of 3.2 percent over the period 1959 to 1994, 0.2 percentage point higher than had previously been reported using fixed (1987) weights. Between 1959 and 1987 growth averaged 3.4 percent per year, 0.3 percentage point higher than reported earlier, whereas between 1987 and 1994 it averaged 2.3 percent, 0.1 percentage point lower than reported earlier. Most of the change in growth rates for real GDP, as well as that of its components, is attributable to the shift from fixed weights to chain weights. Boxes 2-3 and 2-6 discuss other aspects of the revised data.
are related to overall net worth as well as to consumer indebtedness. Hence the stock market gain of over 30 percent during 1995 should help sustain consumer spending into 1996.


## BUSINESS FIXED INVESTMENT

Business fixed investment grew solidly during the first three quarters of 1995. The growth rate of business equipment investment fell back only slightly from its torrid pace in 1994 and was sustained by rapid investment in computers, which grew even fast-
er during the first three quarters of 1995 than in 1994. Investment in structures continued its recovery from the recession of 1990-91, and grew almost as fast as equipment investment in 1995 (Chart 2-1). The extremely slow recovery of structures investment following the recession appears to have been due in part to the oversupply of office buildings and retail space that characterized the runup and subsequent collapse of the real estate market during the late 1980s and early 1990s. The vacancy rate for office space has fallen for 3 years and is now at its lowest point in 8 years.

Chart 2-1 Real Business Fixed Investment
Investment in durable equipment and in structures continued to grow robustly in 1995.


Source: Department of Commerce.
It has long been recognized that reported measures of gross investment for the U.S. economy understate actual gross investment because government investment in equipment and structures has always been treated in the same fashion as government consumption, with both reported together as government purchases. The recently revised national income and product accounts now report government investment separately from government consumption and thus provide a more complete view of investment in the economy (Box 2-3).

## INVENTORIES

The buildup of excess inventories during the first quarter of 1995 led some producers to cut back output in the second quarter so as

## Box 2-3.-New Measures of Government Investment

The Bureau of Economic Analysis now measures government expenditures for equipment and structures as investment, similar to the treatment of such expenditures by the private sector. Previously, government expenditures for fixed assets were considered to be "current account" purchases. This treatment understated gross investment and saving for the economy and ignored the service flow (or "output") of these assets over their lifetimes. The new approach is more consistent with international standards and will permit more accurate comparison of U.S. data with those of other countries.
The new treatment of government investment has three important effects. First, it increases the share of GDP accounted for by gross investment expenditures. Second, it reduces the government deficit measured on a current account basis and thus increases measured saving of the public sector. Because of these effects, gross domestic investment and national saving as a share of GDP each are reported about 3 percentage points higher compared with the earlier approach, to 18 percent and 15 percent, respectively, over the period 1970 to 1995. Finally, the new approach partly accounts for services provided by the government capital stock and thus raises the measured output of the government sector and the economy. For recent years, GDP is about 1.8 percent higher, due to the service flow of the government capital stock.

A rough way of measuring the importance of government investment is to compare it to total investment. Between 1959 and 1994, total government investment as a share of private nonresidential fixed investment plus government investment fluctuated between 20 and 40 percent, while government nondefense investment varied between 14 and 23 percent. Thus, even leaving aside investment for defense purposes, the earlier approach to measuring the economy's fixed investment misclassified a significant portion of spending aimed at augmenting and maintaining the Nation's productive capacity.
The new approach does not measure government investment in human capital or the environment. Investments in education or a cleaner environment are hard to measure, but also yield returns over time just as certain as those from investments in highways and office buildings.
to reduce inventories relative to sales. Producers continued to pare inventories, especially in the automotive sector, during the third quarter. By late in the year much of the earlier overhang had been worked off. By year's end, however, automobile industry data showed the inventory-to-sales ratio moving back up, although it remained below the levels reached earlier in the year.

## RESIDENTIAL INVESTMENT

As alluded to above, a decline in residential investment during the first half of the year was a major factor in slowing the rate of economic growth. The rise in mortgage interest rates in 1994 had a lagged effect on the housing market, which began to lose its footing in early 1995 as housing starts and home sales both fell during the first quarter. Residential investment, which had shown hints of weakness toward the end of 1994, dedined abruptly during the first half of 1995. By J une, however, declining mortgage rates had revived the housing sector, as both starts and sales regained some ground. The improvement held firm over the summer and was reflected in a bounceback in residential investment during the third quarter.

## NET EXPORTS

After declining during the last quarter of 1994, the net export deficit (imports minus exports of goods and services) rose sharply during the first half of 1995. The rise was due in part to the severe contraction of the Mexican economy that began at the end of 1994 following the peso crisis, and which resulted in a sharp fall in U.S. exports to Mexico. The U.S. merchandise trade balance with Mexico deteriorated from a surplus of about $\$ 1$ billion in 1994 to a deficit over the first half of the year of about $\$ 8$ billion.

By the latter part of the year, however, other factors, notably strong U.S. competitiveness and the lagged effects of earlier movements in exchange rates reestablished the trend toward a shrinking external deficit (see Chapter 8 for further discussion of exchange rates and the current account balance). By the third quarter, exports of goods and services were once again growing briskly, outpacing a slowing rate of growth for imports of goods and services. As a result, net exports contributed importantly to growth during the third quarter.

## INFLATION

Inflation remained remarkably low and stable during 1995 (Table 2-1). The consumer price index (CPI) increased by 2.5 percent over the 12 months of 1995-down 0.2 percentage point from its year-earlier pace. Inflation as measured by the CPI has now run at less than 3 percent per year for the past 4 years, for the first
time since the 1960s. This impressive record suggests that a regime change has taken place, whereby households and businesses have come to expect low inflation for the foreseeable future.

Table 2-1.-Measures of Inflation

| Measure | 1994 | 1995 |
| :---: | :---: | :---: |
|  | Percent change |  |
|  | 2.3 | ${ }^{1} 2.7$ |
| Non-oil import prices ............................................................................................................ | 3.8 | 2.3 |
| CPI-U: |  |  |
| All items <br> All items less food and energy | 2.7 | 2.5 3.0 |
| PPI: |  |  |
| Finished goods ............................................................................................................. | 1.7 | 2.2 |
| Finished goods less food and energy ......................................................................................... | 1.6 | 2.5 |
| Intermediate materials less food and energy ......... | 5.2 | 3.1 |
| Crude materials ................................................................................................. | -. 5 | 4.1 |
| Employment cost index: ${ }^{2}$ |  |  |
| Total compensation. | 3.3 | 2.6 |
| Wages and salaries .......................................................................................... | 2.9 | 2.8 |
| Benefits ................................................................................................... | 4.0 | 2.1 |

1 Preliminary.
2 For private industry workers.
Note. - Inflation as measured by the GDP price index and the employment cost index is computed from third quarter to third quarter; by non-oil import prices, from November to November; and by the CPI-U and PPI, from December to December. Sources: Department of Commerce and Department of Labor.

The increase in the CPI during 1995 was held down by a decline in energy prices and a slowing in the rise of food prices, which increased almost a percentage point less than a year earlier. Core inflation, as measured by the CPI excluding food and energy, increased at a 3.0 percent annual rate over the 12 months of 1995, up 0.4 percentage point from the year-earlier rate. Inflation seemed to be proceeding at a faster pace during the first 5 months of the year but eased off thereafter. The early runup and the subsequent moderation largely reflected the pattern of used car prices, airfares, and automobile finance charges.
Hourly compensation in the private sector, as measured by the employment cost index, increased 2.6 percent in the year ending in the third quarter, versus a 3.3 percent increase during the yearearlier period. A slowdown in benefit costs-especially for health insurance and retirement programs-accounted for almost all of the deceleration. The increase in wages and salaries, in contrast, was little changed from its year-earlier pace. Overall, the evidence suggested an absence of any wage pressures as the expansion continued. The absence of significant acceleration in inflation, either for prices or for wages, especially as the unemployment rate remained around 5.6 percent for the year, led some observers to suggest that the unemployment rate consistent with stable inflation had fallen (Box 2-4). A possible decline in the sustainable unem-
ployment rate raises important challenges for macroeconomic policymaking (Box 2-5).

## Box 2-4.-Has the Sustainable Rate of Unemployment Fallen?

As the economic expansion continued during 1995, and unemployment remained well below 6 percent without sparking a rise in inflation, some economists suggested that the minimum sustainable unemployment rate or so-called NAIRU (Non-Accelerating-Inflation Rate of Unemployment) has declined.

During the 1980s, the core rate of inflation increased when the unemployment rate was below 6 percent and decreased when it was above 6 percent (Chart 2-2). In contrast, for over a year now the unemployment rate has fluctuated narrowly around 5.6 percent, yet the core rate of inflation has remained roughly stable rather than risen. (Wage inflation, as measured by the employment cost index, also has remained stable.) This recent evidence strongly argues that the sustainable rate of unemployment has fallen below 6 percent, perhaps to the range of 5.5 to 5.7 percent. The Administration's forecast falls on the conservative end of this range by projecting the unemployment rate at 5.7 percent over the near term.

Explanations for why the sustainable rate of unemployment may have fallen generally focus on structural changes in the U.S. economy that may have restrained increases in wages and prices. For example, increased domestic and international competition, a dedine in unionization, and increased concern about job security are possible reasons why, at current levels of unemployment, wage and price pressures have been so subdued. In addition, since the sustainable unemployment rate is related to frictional unemployment, and since such job mobility is high among young workers, the recent fall in the labor-force share of young workers may have contributed to the possible dedine in the sustainable rate, just as the increase in young workers during the 1970s contributed to its rise.

## EMPLOYMENT AND PRODUCTIVITY

During 1995, the economy managed to create enough jobs not only to replace those lost as a result of corporate restructuring and downsizing, but also to provide employment for new entrants. As a result, the unemployment rate remained roughly constant.

A deceleration in the pace of job creation accompanied the economy's move from economic recovery to sustained economic expansion. Growth in payroll employment dropped to 146,000 per month

Chart 2-2 The Sustainable Rate of Unemployment in the 1980s
In the 1980s, inflation picked up when the unemployment rate fell below 6 percent. For over 17 months now, unemployment has remained below 6 percent without sparking a rise in inflation.


Note: Change in inflation is the difference between the eight-quarter percent change in the CPI excluding food and energy and its eight-quarter lagged value. Unemployment rate is lagged four quarters. Sources: Department of Labor and Council of Economic Advisers.
in 1995-down from 294,000 per month a year earlier. Coming on the heels of a strong fourth quarter of 1994, job gains remained solid in the first quarter, slowed in the second, and then averaged 138,000 per month during the third and fourth quarters. The moderate pace of job growth in the second half is about what can be expected as the economy grows at its potential rate.
Official statistics show that 7.7 million jobs have been created since this Administration took office, but the best estimate is considerably stronger. Analysis of forthcoming revisions to estimates of payroll employment indicates that the job gains between March 1994 and March 1995 were stronger than currently estimated. As a result, after the revisions are announced this J une, measured job growth through the end of 1995 should exceed 8 million. Over 50 percent of job growth in the private sector during 1995 occurred in "high wage" industries-those with an average wage above an em-ployment-weighted median for all industries in 1993. For the past 3 years, the share of employment growth concentrated in these industries has continually risen.

The unemployment rate fluctuated in a narrow band around 5.6 percent during 1995, as increases in the number of jobs fully absorbed increases in the labor force. The growth rate of the labor force from 1994 to 1995 differed little from the growth rate of the population-a pattern that has persisted since 1989. Over this pe-

## Box 2-5. Macroeconomic Policy and the Sustainable Unemployment Rate

A controversial issue in macroeconomic policy is whether the benefits from further reducing the unemployment rate when the economy is operating near full capacity outweigh the costs of possibly increasing the inflation rate. This controversy centers on how the sacrifice ratio (the change in unemployment associated with a given change in inflation) varies as inflation is reduced or increased. For example, in terms of output and unemployment, is the loss from reducing inflation by 1 percentage greater than the benefit from increasing inflation by 1 percentage?

The view that the unemployment rate must change by more when inflation is reduced than when it is increased, and the related view that a small increase in inflation may spark runaway inflation, have been used as a basis for cautious policy. For instance, some economists urge waiting until the evidence is overwhelming that the sustainable rate of unemployment has fallen before allowing an additional decline in the actual unemployment rate. The argument is that the cost of returning to the initial low rate of inflation if the sustainable rate has not changed vastly outweighs the benefit of learning whether it has in fact changed.
Much empirical work suggests, however, that for small changes, increases and decreases in inflation exhibit the same sacrifice ratio. And, small increases in inflation historically have not triggered runaway inflation. Thus, if policymakers reduced unemployment in the belief that the sustainable rate had fallen but were wrong and inflation increased, inflation is unlikely to "take off," and the cost of returning inflation to its earlier level would roughly equal the benefit of having temporarily lowered the unemployment rate. The gain, of course, if policymakers were right and the sustainable rate had fallen would be lower unemployment with unchanged inflation.

Furthermore, the sustainable rate itself is determined, in part, by institutional arrangements that result from the overall economic environment. As the economy gradually moves to lower inflation, arrangements that tend to amplify wage and price movements, such as cost-of-living clauses, become less common. In such an environment, gradual reductions in the unemployment rate that cause little change in inflation can actually reinforce market participants' views that the sustainable rate has fallen.
riod the labor force participation rate has remained virtually flat, in sharp contrast to rising participation rates during the 1970s and 1980s (Chart 2-3). Because the participation rate is cyclical, rising toward the end of an expansion, one might have expected the earlier trend to reassert itself as the current expansion matured. Instead, the stagnant participation rate has been one of the more enduring features of this expansion.

Chart 2-3 Labor Force Participation Rates
The overall participation rate has recently fallen below its trend rate of increase. A slower rise in the rate for women accounts for most of this break from trend.


Note: Data refer to persons 16 years and over. Pre-1994 participation rates are corrected for effects of the revised Current Population Survey questionnaire.
Sources: Department of Labor and Council of Economic Advisers.
The stalling of the rise in the overall labor force participation rate is due mainly to a deceleration in the participation rate for women; the participation rate for men has fallen no faster than in earlier years. The flattening out of the female participation rate is probably the result of long-term demographic trends. As Chart 24 shows, the ratio of children per woman aged 20 to 54 fell between the late 1960s and the early 1980s, echoing the earlier pattern in the birth rate. The decline in this ratio allowed an increasing fraction of women to enter the labor force between the mid-1970s and mid-1980s, but its subsequent flattening in the late 1980s has limited further increases in participation.

While the increase in the overall labor force participation rate has slowed since the late 1980s, productivity growth appears to be little changed. Labor productivity has grown at an estimated 1.1 percent annual rate since the last business cycle peak in the second

Chart 2-4 Women's Labor Force Participation Rate, Child Dependency Ratio, and Birth Rate
The upward trend in women's labor force participation has stalled, as both the birth rate and the number of children per woman have leveled off.


Note: Labor force participation rate refers to women age 20 to 54 . Pre-1994 participation rates are corrected for effects of the revised Current Population Survey questionnaire. The child dependency ratio is the ratio of children age 14 and under to the female civilian population age 20 to 54 . The birth rate is the number of live births per thousand population.
Sources: Departments of Health and Human Services and Labor, and Council of Economic Advisers.
quarter of 1990, about the same as the trend rate during the entire post-1973 period (Chart 2-5). The figures discussed here are new estimates of productivity using the recently revised GDP data. See Box 2-6 for details about these estimates and Box 2-7 for a discussion of the relationship between productivity and real wages.
Table 2-2 shows the relative contributions of productivity and labor force growth to output growth, both over the past few decades and as projected for the next several years. In the past, the relative importance of these determinants of long-run growth have varied substantially across time periods. During the 1960-73 period, output growth was fueled by a rapid increase in both the working-age population and productivity. Productivity growth slowed dramatically after 1973, but was partially offset in the mid- and late 1970s by an increasing rate of labor force participation. From 1981 to 1995, the growth rate of the working-age population slowed dramatically, but was countered by stabilization in the length of the workweek and other factors. The Administration forecast of 2.3 percent average GDP growth for the next 7 years reflects projections of 1.2 percent average growth in productivity and 1.1 percent average growth in the labor force. Measured productivity is expected to grow a bit faster than in the recent past as further deficit reduction boosts investment, and planned adjustments to the CPI, which affect productivity measures, are implemented.

Table 2-2.-Accounting for Growth in Real GDP, 1960-2002
[Average annual percent change]

| Item | $\begin{gathered} 1960 \text { II } \\ \text { to } \\ 1973 \mathrm{IV} \end{gathered}$ | $\begin{gathered} 1973 \text { IV } \\ \text { to } \\ 1981 \text { III } \end{gathered}$ | $\begin{aligned} & 1981 \text { III } \\ & \text { to } \\ & 1995 \text { III } \end{aligned}$ | $\begin{gathered} 1995 \text { III } \\ \text { to } \\ 2002 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| 1) Civilian noninstitutional population aged 16 and over $\qquad$ <br> 2) PLUS: Civilian labor force participation rate ${ }^{1}$ | 1.8 .2 | 1.8 .5 | 1.1 .3 | 1.0 .1 |
| 3) EQUALS: Civilian labor force ${ }^{1}$ <br> 4) PLUS: Civilian employment rate ${ }^{1}$ | 2.0 .0 | 2.4 | 1.4 .1 | 1.1 .0 |
| 5) EQUALS: Civilian employment ${ }^{1}$ <br> 6) PLUS: Nonfarm business employment as a share of civilian employment ${ }^{12}$ | 2.0 .1 | 2.0 .1 | 1.5 .1 | 1.1 |
| 7) EQUALS: Nonfarm business employment <br> 8) PLUS: Average weekly hours (nonfarm business sector) | 2.1 | 2.1 | 1.7 .0 | 1.2 .0 |
| 9) EQUALS: Hours of all persons (nonfarm business) <br> 10) PLUS: Output per hour (productivity, nonfarm business) ................ | 1.6 2.9 | 1.3 1.1 | 1.6 1.1 | 1.2 1.2 |
| 11) EQUALS: Nonfarm business output $\qquad$ <br> 12) LESS: Nonfarm business output as a share of real GDP 3 $\qquad$ | 4.5 -.3 | 2.5 .0 | 2.8 -.2 | 2.4 -.1 |
| 13) EQUALS: Real GDP .................................................................. | 4.2 | 2.5 | 2.5 | 2.3 |

${ }^{1}$ Adjusted for 1994 revision of the Current Population Survey.
${ }^{2}$ Line 6 translates the civilian employment growth rate into the nonfarm business employment growth rate.
${ }^{3}$ Line 12 translates nonfarm business output back into output for all sectors (GDP), which includes the output of farms and general government.

Note. - Data may not sum to totals due to rounding.
Except for 1995, time periods are from business-cycle peak to business-cycle peak to avoid cyclical variation.
Sources: Council of Economic Advisers, Department of Commerce, and Department of Labor.

## Chart 2-5 Actual and Trend Labor Productivity

Smoothed for cyclical fluctuations, labor productivity has grown at a steady 1.1 percent average annual rate since 1973.


Note: Data are for the nonfarm business sector.
Source: Provisional estimates calculated by the Council of Economic Advisers from data provided by the Departments of Commerce and Labor.

## Box 2-6. New Productivity Estimates

The estimates of productivity in Chart 2-5 use the new, chain-weighted measure of output and data from the product side rather than the income side of the national income accounts. The new estimates avoid the biases inherent in a fixedweight measure of output. The previous fixed-weight measure biased productivity growth downward before the base year (1987) and upward thereafter, with larger biases in years further from the base year. These biases produce the illusion that productivity growth had improved from the 1970s to the 1980s and improved again to the 1990s. Still, many problems remain. For example, quality improvements often go unrecognized, especially in the service sector, biasing estimates of service-sector output downward. Although it is not clear that mismeasurement in services is more important today than in past decades, the increasing size of the service sector raises the suspicion that these problems are now relatively larger (see Economic Report of the President 1995 for a discussion of the problems associated with measuring productivity).

## INCOMES

Income growth during the first three quarters of 1995 moderated a bit from its pace during 1994, reflecting mainly the deceleration in employment growth. Real disposable income increased at an annual rate of 2.4 percent for the first three quarters, just below the 2.6 percent rate over 1994. The slight decline from the year-earlier pace was due to a pause in income growth during the second quarter, which accompanied the overall moderation in economic growth.

Corporate profits increased in 1995, at about the same pace as 1994. The pattern over the year followed that of overall economic growth, with profits softening during the first half and rebounding strongly during the third quarter. Other components of national income likewise increased at more moderate rates during 1995, with the exception of rental income which dedined through the third quarter.

## MONETARY POLICY AND INTEREST RATES IN 1995

Monetary policy changed little during 1995. After raising the Federal funds rate by half a percentage point (to 6.0 percent) in February, the Federal Reserve held it constant until July, when it lowered the rate by a quarter of a percentage point. In late December, the Federal Reserve cut the rate another quarter percentage point, so that 1995 ended with the Federal funds rate at 5.5 percent, exactly where it had begun the year. In line with the relative

## Box 2-7. Productivity and the Real Wage

Do employees benefit on average, either directly through an increase in compensation or indirectly through lower prices, from increases in their productivity? Conventional economic theory says that they should, at least over long periods. Historically, the evidence has borne this out. During the past few years, however, questions increasingly have been raised about whether the benefits of recent productivity gains have indeed gone to employees.

Some observers point out that hourly compensation (wages plus benefits) adjusted for changes in consumption prices has not kept pace with productivity in recent years. This "real consumption wage," however, is not the appropriate measure for assessing whether firms are remunerating employees for increases in productivity. Because firms hire an additional employee only if the cost of doing so is less than or equal to the value of that employee's output, a more appropriate measure to compare with productivity is compensation adjusted for output prices. This "real product wage" has tracked productivity in recent years (Chart 2-6).

The real consumption wage has risen recently by less than the real product wage because prices for goods and services that employees consume have risen by more than prices for goods and services they produce. A large part of this divergence likely is due to computer prices, which have fallen relative to most other prices. Because spending on computers represents a smaller share of personal consumption expenditures than computer production does of aggregate output, the dedine in their price has restrained output prices by more than it has consumption prices.

Although the divergence between consumption and output prices explains much of the gap between productivity and the real consumption wage, pre-benchmark data also had shown a small gap between productivity and the real product wage. The new GDP data eliminate this gap.

Employees, of course, care more about the purchasing power of their wages (the real consumption wage) than about any "wage-productivity gap." And the stagnation of wages over the past two decades, particularly for the lower part of the income distribution, is cause for concern. Ultimately, however, the only way in the long run to raise real wages is to raise productivity.

Chart 2-6 Measures of Real Compensation and Labor Productivity
The real product wage has kept pace with productivity, whereas the real consumption wage has not.


Note: Wages are compensation per hour in the nonfarm business sector divided by the consumption deflator for the real consumption wage and by the nonfarm business deflator for the real product wage. Sources: Departments of Commerce and Labor, and Council of Economic Advisers.
constancy of the F ederal funds rate, other short-term interest rates declined only modestly during 1995, with the rate on 3-month Treasury bills dropping just half a percentage point compared with the end of 1994.

In contrast, longer term rates declined sharply over the course of the year. At the end of 1995 , yields on 30 -year, 10 -year, and 3 -year Treasury securities had fallen more than 2 percentage points from their peaks in late 1994. As a consequence, the spread between long- and short-term interest rates narrowed sharply, and the yield curve (which plots rates of interest for debt of different maturities) was remarkably flat at the end of 1995 (Chart 2-7).

The flatness of the yield curve is consistent with several explanations. The most probable is that investors expect short-term interest rates, including the Federal funds rate, to decline further. Certainly, evidence from the futures market for Federal funds supports this hypothesis and suggests that, as of February 5, 1996, investors expected a dedine in the Federal funds rate on the order of half a percentage point to occur by J uly 1996 (Chart 2-8).

An expected decline in short-term nominal interest rates could reflect an expected decline in real interest rates or an expected decline in future inflation, or both. Real short-term interest rates might be expected to decline because the tightening stance of fiscal policy (as the deficit is reduced) increases the probability that eco-

Chart 2-7 The Yield Curve
The yield curve flattened in 1995 as long-term interest rates declined by more than short-term interest rates.


## Chart 2-8 Federal Funds Rate

The futures market for Federal funds anticipates a decline in the Federal funds rate over the first half of 1996.


Note: February is average for first week of month.
Sources: Board of Governors of the Federal Reserve System and Chicago Board of Trade.
nomic growth will slow in the short run, and thus makes it more likely that the monetary authorities would have to lower real shortterm interest rates to stabilize output. On the other hand, if output is not fully stabilized and falls below its potential, the rate of inflation should decrease. In this case, much of the expected decline in future nominal interest rates would reflect a drop in the expected premium for inflation.
The superb performance of the stock market-both the Dow industrial average and the broader S\&P 500 index rose by more than 33 percent during 1995-seems to favor the view that real shortterm interest rates are expected to fall. In general, equity prices should move positively with the current level and expected real growth rate of dividends, and inversely with the real rate of interest. Although dividend growth was very strong over the year, these gains probably were not sufficient, even with an associated permanent shift upward in the level of expected future real dividends, to explain the phenomenal gains in stock prices during 1995. More likely, investors anticipated that a decline in real short-term interest rates would be forthcoming.

## FISCAL POLICY IN 1995

The budget deficit for fiscal 1995 was $\$ 164$ billion, substantially below estimates made earlier in the year. The budget deficit has now declined for 3 years in a row, for the first time since the 1940s. Were it not for the interest payments on debt accumulated during past Administrations, the budget last year would have been in surplus (see Chart 2-9). The sharp dedine in the budget deficit has slowed the rise in the national debt sufficiently that the ratio of the national debt to GDP has remained roughly constant for the past 2 fiscal years.

Part of the improvement in the deficit is likely to be associated with the state of the business cycle. Tax revenues relative to expenditures tend to rise during an expansion and fall during a recession. To assess changes in fiscal policy, economists adjust the budget deficit (or surplus) for economic conditions. On this basis, the Administration's progress in reducing the deficit also was evident during 1995, as the cyclically adjusted, or structural, budget deficit continued to decline (Chart 2-10).
The progress in reducing the deficit was made possible by the Omnibus Budget Reconciliation Act of 1993, which cut constantdollar government purchases of goods and services over the past 2 years. Furthermore, as part of the ongoing efforts of this Administration to downsize government, the Federal workforce has been reduced substantially. Between J anuary 1993 and November 1995, Federal civilian employment (excluding the Postal Service) has declined by about 215,000, leaving the Federal workforce smaller

Chart 2-9 Federal Budget Receipts and Non-Interest Outlays
The Federal budget excluding net interest payments was in surplus last fiscal year.
Percent of GDP


Note: The GDP measure used is pre-January 1996 benchmark revision.
Source: Office of Management and Budget.

Chart 2-10 Federal Budget Deficit
As the Federal budget deficit has declined over the past 3 years, the deficit adjusted for the business cycle--the so-called structural deficit--also has fallen.


Note: The GDP measure used is pre-January 1996 benchmark revision.
Sources: Office of Management and Budget and Congressional Budget Office.
than at any time since the mid-1960s. Moreover, as the next few years unfold, the drop in employment should approach the target of 272,911 agreed to as part of the Federal Workforce Restructuring Act of 1994.
Two government shutdowns occurred late in the year and temporarily interrupted the disbursement of some Federal spending. Because most of this spending was restored once the shutdowns ended, the overall stance of fiscal policy was largely unaffected. However, the shutdowns did exact a significant budgetary cost and lowered real GDP growth by roughly 0.25 to 0.5 percentage point at an annual rate during the fourth quarter of 1995.
The Congress also failed to pass legislation acceptable to the Administration for an extended increase in the debt ceiling on Federal borrowing authority, forcing the Secretary of the Treasury to take extraordinary actions to ensure that the United States did not default for the first time in its history. As this Report went to press, the Congressional leadership had made a commitment in a letter to the President to pass a mutually acceptable debt limit increase by February 29. Passage of a straightforward long-term extension of the debt ceiling still is required to avoid a potential future default.

## WHAT CAUSES ECONOMIC EXPANSIONS TO END?

The current economic expansion began in March 1991 and, as of February 1996, had run for 59 months, a little longer than the 50month average for expansions since the end of World War II and the third-longest of the 10 postwar expansions (Chart 2-11). As the expansion continued past the postwar average, some reports pointed to its age and raised the possibility that it might soon falter, with the economy dipping into recession. Expansions, however, do not end simply because they have somehow reached the end of their "normal" life span. Rather, expansions end because of changes in economic conditions or policies.

The length of postwar economic expansions has varied substantially, with the shortest one, in 1980-81, lasting only 12 months and the longest, that of 1961-69, 106 months. Such large differences make the average length of expansions a relatively uninformative guide to the life expectancy of the current expansion (Box 2-8). A far better way to judge whether the expansion is about to end is to assess whether the economic symptoms that often precede a downturn-rising inflation, rising interest rates, financial imbalances, banking sector troubles, or an inventory over-hang-have begun to appear, and if so, whether monetary or fiscal policies could successfully offset these symptoms. In the early 1960s, for example, the Kennedy and J ohnson Administrations ju-

Chart 2-11 Length of Economic Expansions
The current expansion has run for 59 months, slightly longer than the average postwar expansion.


Sources: National Bureau of Economic Research and Council of Economic Advisers.
diciously applied tax policy as a tool of aggregate demand management to abort an impending downturn.

## Box 2-8.-Duration Analysis of Business Cycles

Economists have used statistical methods to determine whether the end of an expansion or a recession becomes more likely the longer it goes on. Most findings show that, for business cycles since World War II, expansions are not significantly more likely to end simply because they get older, whereas recessions are (Chart 2-12). Although this difference between expansions and recessions is consistent with several explanations, the most likely reason is that policymakers since World War II have more actively engaged in countercyclical monetary and fiscal policies. With policymakers attempting to sustain expansions, events that precipitate downturns-such as oil price shocks or policy mistakes-are as likely to occur early as late in an expansion, so the length of an expansion does not affect the chance that it will soon end. On the other hand, if the pressure on policymakers to stimulate the economy grows stronger the longer a recession persists, then a recession that has lasted a while will be more likely to end in the next month than a recession that has just begun.

Chart 2-12 Probability that an Expansion or a Contraction Will End
The longer a contraction lasts, the higher the probability that it will end in the next month.
This is not true for expansions--they do not exhibit "duration dependence."


Note: Each data point represents one or more post-World War II expansions or contractions.
Sources: Diebold, F., G. Rudebusch, and D. Sichel (1993), "Further Evidence on Business-Cycle Duration Dependence," in Stock, J. and M. Watson, eds., NBER Studies in Business Cycles, vol. 28, University of Chicago Press; National Bureau of Economic Research; and Council of Economic Advisers.

## ECONOMIC SYMPTOMS PRECEDING A DOWNTURN

The onset of most recessions since World War II has followed a sustained increase in the core rate of inflation (Chart 2-13). The rise in inflation sometimes has been precipitated by external events-such as foreign crises that have raised oil prices-and sometimes has resulted from overly stimulative fiscal or monetary policies. In the case of a foreign price shock, core inflation may rise if the foreign price increase gets incorporated into the process of setting domestic wages and prices. In the case of overly stimulative policies, core inflation may rise if the economy is pushed to operate at a level above full capacity (the unemployment rate is forced below its sustainable level).

A common pattern is that a sustained increase in the core rate of inflation eventually triggers an increase in short-term interest rates. In general, a greater ongoing acceleration of prices can lead to a sharper subsequent downturn. For example, during the late 1970s, although the Federal Reserve had begun to tighten policy just prior to the pickup in core inflation, the bulk of its tightening came only as inflation was rising rapidly. As a result, the subsequent tightening was much greater than it might have been if tightening had started somewhat earlier. Accordingly, one of the most important factors in assessing the chance that an expansion will end is the recent evidence on the core rate of inflation.

A sustained rise in core inflation has preceded most postwar recessions.


After trending downward from its recent peak in 1990, core inflation has been low and stable over the past 2 years (Chart 2-14). In addition, during 1995 interest rates fell, especially during the last part of the year. As they did so, the interest-sensitive housing and automobile sectors recovered from their slackening earlier in the year. Thus, with inflation stable and interest rates likely to dedine further, the evidence strongly supports continuing economic expansion.

The 1990-91 recession, however, did not follow the typical pattern of rising interest rates preceding a downturn (although it did follow the pattern of a prior increase in core inflation). When that downturn arrived, some short-term interest rates had been falling for a full year. But a distinguishing feature of the period preceding that recession was the weakened condition of financial institutions, especially savings and loan associations and banks. Unlike in the late 1980s and early 1990s, when savings and loan associations and many banks were in financial difficulty due in part to the collapse of an overheated real estate market, banks today are on a more stable footing. The better financial situation of the banks suggests that the system should be able to adapt more easily today to any adverse shift in interest rates or real estate values, thereby limiting the consequences for the overall economy.

Core inflation has remained low and roughly stable for the past 3 years.


Finally, a sharp rise in inventories can often signal that spending has unexpectedly fallen, and can lead firms to cut production, possibly precipitating a recession. After a buildup of inventory during the early part of last year, the subsequent moderation in production helped to reduce the overhang. As a result, inventories presently are at more manageable levels.

## SHORT-RUN MACROECONOMIC EFFECTS OF REDUCING THE BUDGET DEFICIT

As the budget moves toward balance over the next 7 years, two factors will help to ensure that deficit reduction sustains economic growth in the short run. First, a forward-looking response of financial markets to deficit reduction can accelerate the dedine in real long-term interest rates, bringing forward the investment dividend associated with balancing the budget. Second, an accommodative monetary policy can validate the market's response and reinforce its positive effects on short-run growth. But such a response by financial markets that is backed-up by monetary policy ultimately depends on the credibility of the deficit reduction itself.

## The Response of Financial Markets

Cutting the deficit reduces the government's claim on the output of the economy, either directly through lower purchases of goods
and services or indirectly through reduced transfer payments, freeing up resources for use by the private sector. Thus, the critical question for the outlook is whether or not spending by the private sector will rise and take advantage of the newly available resources, thereby sustaining growth in the short term. The answer depends largely on whether financial markets adjust sufficiently in response to deficit reduction so as to support the level of aggregate spending.

Adjustments in financial markets can stimulate spending in the economy in two major ways. First, deficit reduction raises private investment spending, primarily through a decline in real long-term interest rates, that is, long-term interest rates adjusted for expectations of future inflation. Second, deficit reduction spurs international competitiveness, leading to an improvement in the current account balance. Part of this improvement comes through expansion of exports to our trading partners and part comes through shifts by consumers and businesses away from imports and toward more competitive U.S. products. How much of the stimulus comes through investment and how much through net exports depends on the response of interest rates and interactions between interest rates and exchange rates. In the end, however, the stimulus will depend largely on the magnitude and timing of the decline in real long-term interest rates.
Some increase in spending could occur purely as a result of a fall in nominal interest rates that reflects entirely a drop in expectations about future inflation, leaving real rates unchanged. This might happen, for example, if qualifying standards for access to mortgage credit are specified in nominal terms, so that a decline in nominal interest rates allows more individuals or businesses to borrow even though real interest rates have not declined. Overall, though, a rise in aggregate spending due to this effect is likely to be far less important than the rise in spending accompanying a drop in real interest rates.
Deficit reduction can lower real long-term interest rates through three channels. First, a shrinking deficit directly lowers real longterm interest rates through a "portfolio" channel, as reduced government borrowing over time lowers the supply of government bonds relative to other assets. Second, a shrinking deficit lowers real long-term interest rates through an "aggregate demand" channel, as the shift to a contractionary fiscal policy weakens aggregate spending and money demand. Third, a shrinking deficit lowers real long-term interest rates through a "term-structure" channel. More prudent fiscal policy diminishes the likelihood that monetary policy in the future may have to restrain an overheating economy and lowers expected real short-term interest rates. Since long-term interest rates depend on the current and expected future levels of
short-term rates, an expected decline in future short-term rates will be reflected in a decline in long-term rates.

## The Importance of Forward-L ooking Expectations

When market participants are forward-looking and anticipate (correctly) that the monetary authority will accommodate future credible deficit reduction, real long-term interest rates fall by more than when market participants either do not view future deficit reduction as credible or believe that monetary accommodation will not be forthcoming. To understand why credible deficit reduction accompanied by appropriate monetary accommodation leads to greater dedines in long-term interest rates, we have to understand the relationship between short-term and long-term interest rates. Market participants investing their funds for say, 10 years, have a choice of buying a 10 -year bond, or buying a 1 -year bond, and rolling it over next year into another 1 -year bond, and so forth. Adjusting for the differences in risk, the two investment strategies should yield the same return. In the absence of risk, this would mean that the long rate would simply equal the average of expected short rates over the 10 -year period.

Deficit reduction that is viewed as credible and likely to be accompanied by future monetary accommodation leads investors to expect a future decline in short-term rates. Because long-term bonds must yield the same return (up to a risk premium) as a series of successive short-term bonds, long-term rates also will dedine, typically by more than current short-term rates. In addition, credible deficit reduction that is accompanied by a more stable and certain fiscal policy, could further lower real long-term interest rates through a reduction in the "risk premium." With investors more certain about the future, long-term investments become less risky and the premium paid on such investments falls. On the other hand, if market participants believe the deficit reduction is not credible, then they will not expect additional future dedines in real short-term interest rates and the risk premium will not fall, so that the dedine in current real long-term rates will be less. In this case, a larger drop in current short-term interest rates would be necessary to lead to a sufficient dedine in long-term rates so as to sustain aggregate spending and ensure full employment.

The evidence over the past 3 years, which witnessed deficit reduction combined with economic recovery, shows that interest rate declines can more than offset the contractionary effects when market participants are forward looking. In particular, the decrease in long-term interest rates occurred in anticipation of the deficit reduction, and had the desired effects of stimulating investment-not only in offsetting the shift to a contractionary fiscal stance, but in supporting the economic recovery.

The success thus far of financial markets in ensuring that deficit reduction does not compromise near-term growth does not mean that appropriate monetary policy is unimportant. Monetary pol-icy-which operates with long and variable lags-needs to anticipate both the pattern of deficit reduction and other events which affect the level of aggregate economic activity. If monetary policy, for instance, follows a rule and responds to increases in the unemployment rate above its sustainable level only after the increases have occurred, then paths of more rapid deficit reduction would be accompanied by higher average levels of unemployment. But with a pre-announced schedule of credible deficit reduction, the shifting fiscal stance could be incorporated into monetary policymaking, taking account of normal lags. And, with investors expecting future deficit reduction, the market does much of the work of accelerating the dedine in interest rates, so that relatively little change may be required in monetary policy to sustain growth in the short run.

Analysis using macroeconometric model simulations confirm these patterns. In one simulation, with monetary policy following a feedback rule (but not fully offsetting the effects of deficit reduction on the output gap) and with investors perfectly anticipating future changes in interest rates, long-term interest rates fall much more quickly than short-term interest rates-mirroring the pattern observed during 1995. In another simulation, investors are not for-ward-looking and monetary policy fails to accommodate the effects of deficit reduction and instead holds constant the rate of increase in the money supply. Although market forces lead to a decline in short-term and long-term interest rates and an associated increase in investment, in this simulation the dedine in rates is not sufficient to sustain the economy at full employment. The message from this analysis is that the combination of credible deficit reduction and a well-designed monetary policy that anticipates future deficit reduction can avoid potential contractionary effects on the economy.

## FORECAST AND OUTLOOK

The economic expansion is forecast to continue throughout 1996, as the effects of recent declines in long-term rates boost spending. Over the 7-year forecast horizon, output is projected to track potential output and the rate of inflation is expected to remain roughly constant (Table 2-3).

Real GDP is projected to grow at its potential rate of 2.2 percent during 1996 (on a fourth-quarter-over-fourth-quarter basis), as investment in both the housing and the business sectors responds to lower interest rates and as consumption spending is supported by recent gains in stock market prices. Inflation, as measured by the

Table 2-3.-Administration Forecast

| Item | Actual |  | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1994 | 1995 |  |  |  |  |  |  |  |
|  | Percent change, fourth quarter to fourth quarter |  |  |  |  |  |  |  |  |
| Nominal GDP ............. | 5.9 | 14.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| Real GDP (chaintype) $\qquad$ | 3.5 | ${ }^{1} 1.5$ | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| GDP price index (chain-type) | 2.3 | ${ }^{1} 2.5$ | 2.8 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| Consumer price index (CPI-U) ................... | 2.6 | 2.7 | 3.1 | 2.9 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
|  | Calendar year average |  |  |  |  |  |  |  |  |
| Unemployment rate (percent) | 6.1 | 5.6 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| Interest rate, 91-day Treasury bills $\qquad$ (percent) $\qquad$ | 4.3 | 5.5 | 4.9 | 4.5 | 4.3 | 4.2 | 4.0 | 4.0 | 4.0 |
| Interest rate, 10 -year Treasury notes (percent) $\qquad$ | 7.1 | 6.6 | 5.6 | 5.3 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Nonfarm payroll employment (millions) | 114.0 | 116.6 | 118.3 | 119.8 | 121.2 | 122.6 | 124.1 | 126.0 | 127.9 |

1 Estimates.
Note.- The figures for 1994 and 1995 reflect the benchmark revisions to GDP announced in January 1996 and may differ from those used to prepare the Administration's 1997 budget.

Sources: Council of Economic Advisers, Department of Labor, Department of the Treasury, and Office of Management and Budget.
CPI, is expected to increase to 3.1 percent in 1996 from 2.7 percent in 1995, as food and energy prices, which had held down the overall rate of price increase last year, are expected to rise in line with overall inflation this year. The core rate of inflation is expected to remain roughly unchanged during 1996, consistent with our forecast that unemployment is likely to remain relatively unchanged, and that at current unemployment rates, pressures for increasing inflation are weak or nonexistent.

Although true inflation is expected to remain constant from 1996 onward, inflation as measured by the CPI is expected to edge lower as revised procedures gradually remove part of the upward biases in current CPI inflation figures. CPI inflation is likely to slow by 0.2 percentage point in 1997, when the Bureau of Labor Statistics (BLS) will implement procedures to correct for problems associated with bringing new stores into the survey sample. CPI inflation is expected to slow by another 0.1 percentage point in 1998, when the BLS updates the CPI market basket to reflect more recent data on expenditure patterns. As a result of these adjustments, CPI inflation is expected to fall from 3.1 percent in 1996 to 2.8 percent in 1998 and thereafter. Some of these CPI adjustments pass through to the GDP price index and, given the growth rate of nominal GDP,
raise estimates of real GDP growth. Consequently, real GDP growth is projected to rise to 2.3 percent from 1997 onward.

The impetus from the dedine in interest rates in the second half of 1995 is expected to keep aggregate demand growing at the economy's potential rate for 1996. Over the medium term, interest rates are expected to edge lower as projected reductions in the Federal deficit reduce demands on capital markets. The projected decline in interest rates is expected to sustain growth at its potential rate as deficit reduction further restrains Federal spending.
The unemployment rate is projected at 5.7 percent in the near term and is expected to remain at that level throughout the forecast period. Economic growth of 2.3 percent over the forecast horizon is expected to generate enough jobs to employ all the new entrants implied by the expected 1.1 percent annual growth rate of the labor force. This unemployment rate is also expected to be consistent with long-term stability of the inflation rate.
As always, the forecast has risks. A basic assumption is that monetary policy will be calibrated to offset the ongoing effects of fiscal contraction. Obviously, monetary policy may not achieve this goal. Monetary policy has long lags, and so the course of fiscal policy must be properly anticipated. But fiscal policy depends on budgetary and other policy decisions of the Congress, and at present future Congressional action remains uncertain, despite bipartisan consensus toward achieving a balanced budget.

In the short term, the economy may hit a pothole in the first quarter of 1996, resulting at least in part from the effects of the government shutdown and bad weather in the eastern United States during J anuary. But even if this should come to pass, the economy is expected to rebound, and the growth rate over the four quarters of 1996 is likely to be unaffected. The economy also faces the risk that foreign economic growth may stall, reducing foreign demand for U.S. exports. Still, the U.S. economy's export performance in 1995, in the face of economic weakening in three of our major trading partners, was impressive. Increased exports to strengthening economies in Canada, J apan, and Mexico would help offset any losses elsewhere.

## CONCLUSION

As the year 1995 ended, the economy was fundamentally sound. None of the imbalances that typically precede a recession were evident. All signs pointed to continued economic expansion at a sustainable pace. Unemployment was expected to stay Iow, the inflation rate was expected to remain low and stable, and business investment was expected to continue powering the economy as interest rates dedined.

The economy during 1995 made the transition from economic recovery, during which growth was driven by removing slack from labor and capital markets, to a period where growth is and will continue to be determined by expansion of the economy's capacity. Although the transition to sustained growth was not entirely smooth, the economy rebounded smartly during the second half of 1995 from the earlier bump in the road and should continue to expand during 1996.

Perhaps the best news during the year was that inflation remained low and stable despite an unemployment rate that in the past was associated with rising inflation. The stability of inflation even as the unemployment rate was essentially unchanged at about 5.6 percent appears to signal a shift in the economic environment. The improved economic environment also was apparent in bond and stock markets, as long-term interest rates fell and stock prices soared, reflecting in part an outlook for inflation reminiscent of the early 1960s.
The bipartisan commitment to balance the budget over the next 7 years was the major macroeconomic policy event of the year, and represents a continuation of Administration efforts to redress the fiscal imbalance inherited from the past. As the deficit is further reduced, private investment should increase, helping to raise living standards. And, deficit reduction that is credible means that the decline in interest rates needed to sustain growth in the short run is likely to be forthcoming with only modest accommodation from monetary policy. A significant portion of the dedine in long-term interest rates during 1995, particularly over the second half of the year, probably reflected investors' perception that credible further deficit reduction was on the horizon. The Administration's success in reducing the deficit over the last 3 years certainly demonstrates the firmness of its commitment to restoring balance to the Federal budget.

## CHAPTER 3

## Making Fiscal Policy Choices Within and Across Generations

THE ROLE OF GOVERNMENT in a modern market economy was discussed in Chapter 1. That discussion largely centered on what government should do. This chapter shifts the focus to how government should be financed. Although these decisions are interrelated, separating them permits more detailed analysis of each. In particular, this chapter examines the tradeoffs between equity and efficiency that are pervasive in government finance.

The primary means of obtaining resources to fund government activities is the tax system. Even if public goods and services are financed initially by debt, the costs of debt service in later years and the ultimate repayment of the debt are covered through taxes. Decisions regarding the design of tax systems incorporate compromises between the sometimes competing concerns of economic efficiency and equity, as well as reflect competition among entities seeking favorable treatment. The current U.S. tax system reflects these considerations in various ways both large (the proportion of revenue raised by various components of the tax system) and small (provisions affecting single industries).

Recently numerous policymakers and others have called for an overhaul of the tax system because the current system is complex and sometimes has inappropriate economic incentives. In thinking about major or minor reforms to the tax system, it is important to judge them on several criteria: equity, economic efficiency, revenue adequacy, and simplicity. One should also remember that the details of tax proposals can affect greatly the extent to which a reform would satisfy these criteria.

As if the fiscal policy environment facing today's policymakers were not challenging enough, demographic trends are likely to make future fiscal policy choices even more difficult. Today the United States has 3.3 workers for every retiree. Under reasonable projections, by 2030 that number is expected to fall to 2.0. This will have major implications for government transfer programs such as Social Security and Medicare. Private sector institutions may also come under stress from these large and largely predictable demographic changes. How the U.S. economy adjusts to these changes may be the single greatest economic challenge facing today's chil-
dren as they grow older. The second part of this chapter examines the policy implications of these demographic changes.

## THE STRUCTURE OF THE TAX SYSTEM

The Federal Government raises revenues from payroll taxes, individual and corporate income taxes, estate and gift taxes, and excise taxes on a wide range of commodities. Revenues from each component of the tax system are the product of established tax rates (e.g., cents per gallon, percentages of taxable income) applied to defined tax bases (e.g., gallons of gasoline, dollars of taxable income). In some cases, tax bases are easy to define, while in others (such as taxable income) the definitions can be quite lengthy and complex. Statutory rules and administrative interpretations affect the amounts raised, as do the levels of compliance.

For over 200 years, Americans have debated the appropriate base for taxation of individuals. Some have claimed that income is the most appropriate base, because it provides a measure of an individual's (or household's) ability to pay tax. Others have claimed that consumption is a more appropriate tax base, because it measures how much of the resources available to society are claimed (or consumed) by an individual or household. Economics generally cannot settle this debate over what is, at heart, a philosophical concern. However, economists can contribute to the debate by analyzing the consequences of choosing alternative tax bases. For instance, generally the broader the tax base, the lower the rate required to raise a given amount of revenue. Since income in any period equals consumption plus saving, a broad-based consumption tax is assessed on a smaller base than a comprehensive income tax. In effect, a consumption tax exempts saving from taxation, whereas an income tax does not. This means that to raise the same revenue, lower tax rates can be applied to an income base than to a consumption base. But this simple arithmetic ignores possible supply responses to different tax systems (e.g., changes in saving behavior or labor supply). Economic analysis can provide insight into the likely magnitudes of these responses, contributing further to the policy debate.

The Federal tax system (like most State and local systems) has evolved into a hybrid, incorporating elements of both a consumption tax and an income tax. Elements of consumption taxation are the various excise taxes and the favorable tax treatment provided to capital income under both the individual income tax (e.g., individual retirement arrangements, pensions, favorable treatment of capital gains income, favorable treatment of investment in owneroccupied housing) and some provisions of the corporate income tax (e.g., immediate expensing of certain investments and accelerated
depreciation). These provisions either partly or completely exempt the normal returns to capital investments from tax, either directly through a low or zero tax rate on this income (as with capital gains income; Box 3-1), or by allowing a deduction of all or part of an investment from taxable income. Table 3-1 lists a number of consumption tax components of today's income tax (individual and corporate), along with the amount of tax expenditure associated with each. (A tax expenditure is the revenue loss due to preferential provisions of tax law, such as special exclusions, exemptions, deductions, credits, deferrals, or preferential tax rates. These revenue losses are measured against a comprehensive income tax base.) Taken together, these components mean that the existing tax system is part income tax, part consumption tax.

Contrary to what some have claimed, taxes collected at all levels of government-Federal, State, and local-have been a fairly constant proportion (between 26 and 30 percent) of gross domestic product (GDP) for the last 30 years, despite numerous major changes in the Federal and State tax structures. By this same measure, the United States ranks among the lowest taxed of the countries of the Organization for Economic Cooperation and Development (OECD) (Table 3-2).

Federal revenues as a fraction of GDP have not changed dramatically over the past few decades (mostly fluctuating between 17 and 20 percent). However, the same cannot be said for the composition of revenues. Three major changes in revenue composition are illustrated in Table 3-3: an increased reliance on payroll taxes (Social Security, Medicare, and unemployment insurance), a reduced reliance on the corporate income tax, and a reduced reliance on excise taxes. Increased payroll taxes reflect changes in the Social Se curity system as well as the creation of Medicare. The reduction in corporate tax revenues reflects both lower corporate income tax rates and, more important, a reduction in recent years in domestic corporate profits as a share of the economy, as business organizational structures and financing arrangements have evolved. Through this period, the significance of the individual income tax has ebbed and flowed without any discernible pattern. Over time, tax base and rate changes have combined to more or less maintain the relative importance of the individual income tax as a Federal revenue source.
The level of taxation is important, but so is the distribution of the tax burden among individuals of different incomes. The recent debate over the tax system reveals considerable confusion about the share of taxes borne by taxpayers at various income levels. The Office of Tax Analysis of the Treasury Department estimates that, in 1995, effective tax rates for households generally increased with family economic income, which is a broad measure of income (Box

## Box 3-1.-Taxation of Capital Gains Income

A capital gain (or loss) is the difference between what a taxpayer sells an asset for and the purchase price. Under current law, capital gains income is favored compared with other forms of income, and especially other forms of capital income:

- Capital gains income for individuals is never taxed at more than 28 percent, whereas other income is taxed at rates up to 39.6 percent. This preferential rate provides those facing the highest marginal tax rate with a benefit equivalent to excluding 30 percent of the gain.
- Capital gains income is not taxed until the asset generating the gain is sold with the timing of the sale at the option of the owner. Other forms of income (e.g., labor and interest income) are taxed as earned. This feature provides two distinct advantages to capital gains income. First, for assets held many years, deferral of tax liability significantly reduces the tax burden on capital gains assets compared with assets that generate income taxed annually. Second, taxpayers can strategically time sales of assets with accumulated gains and choose to realize gains in a year when they face a temporarily low tax rate.
- Under the "step-up in basis at death" provision, the income tax liability on assets with accumulated gains is forgiven when the asset holder dies. Heirs claim a new tax basis for these assets: the fair market value at the time of the previous owner's death. Each year more than $\$ 25$ billion in capital gains income escapes taxation permanently through this provision.
- Taxpayers may defer gains from the sale of one primary residence by purchasing another of greater value. More over, those age 55 and over may exclude up to $\$ 125,000$ of gain on personal residences from taxation.
- The 1993 budget act contained a provision excluding half of the gains on equity investments in certain "small" businesses held at least 5 years.
The tax advantages enjoyed by capital gains income tend to benefit disproportionately those taxpayers with the highest incomes, who tend to have the largest asset holdings. The 1 percent of the population with the highest adjusted gross incomes report over half the total capital gains realized and Treasury Department estimates that for a recent year, about 12,000 taxpayers realized gains over $\$ 1$ million.

Table 3-1.-Selected Consumption Tax Elements of the IncomeTax
[Billions of dollars]

| Consumption tax elements | Estimated tax expenditure at FY 1996 level |
| :---: | :---: |
| Expensing of: |  |
| Small investments $\qquad$ <br> Research and development costs $\qquad$ <br> Timber-growing costs <br> Multiperiod agricultural production costs $\qquad$ | 1.1 2.6 0.4 0.1 |
| Accelerated depreciation of: |  |
| Nonresidential real property <br> Machinery and equipment | 4.4 20.9 |
| Exclusion of: |  |
| Pension contributions and earnings (employer plans) $\qquad$ <br> Interest on life insurance savings $\qquad$ | 59.0 11.2 |
| Deduction of IRA contributions and deferral of earnings .............................................................................. | 6.4 |

Source: Office of Management and budget.
TAble 3-2.-Tax Share of GDP in Selected OECD Countries, 1994

| Country | Percent of GDP |
| :---: | :---: |
| Group of Seven |  |
| United States | 31.5 |
|  | 32.3 |
| Germany | 46.5 |
|  | 48.9 |
| Italy | 44.9 |
|  | 36.4 |
|  | 42.2 |
| Australia | 32.9 |
|  | 47.5 |
| Belgium ........................................................................................................................ | 51.1 |
| Denmark ...................................................................................................................... | 60.0 |
| Finland | 53.1 |
| Greece | 35.4 |
| Ireland .... | 41.6 |
| Netherlands .................................................................................................................................................... | 51.4 |
| Norway ........... | 55.3 |
|  | 45.7 |
| Spain ....................................... | 39.0 |
|  | 58.4 |

Source: Organization for Economic Cooperation and Development.
3-2). These data (shown in Table 3-4) indicate that the Federal tax system maintains some degree of progressivity. (A progressive tax system is one where the proportion of income paid in taxes rises with a person's income.) This overall progressivity reflects the fact that the more progressive elements in the tax system outweigh the effects of the less progressive elements. When State and local taxes are factored into the analysis, this overall progressivity is reduced but not eliminated.

The Federal tax system has become somewhat less progressive over the past few decades, as payroll taxes came to account for a greater proportion of overall revenues. But the tax changes made

Table 3-3.-Composition of Federal Receipts
[Percent of total receipts]

| Fiscal year | Individual income taxes | Corporation income taxes | Social insurance taxes and contributions | Excise taxes | Other ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1950 ............................................................ | 39.9 | 26.5 | 11.0 | 19.1 | 3.4 |
| 1955 ............................................................ | 43.9 | 27.3 | 12.0 | 14.0 | 2.8 |
| 1960 ............................................................ | 44.0 | 23.2 | 15.9 | 12.6 | 4.2 |
| 1965 ............................................................. | 41.8 | 21.8 | 19.0 | 12.5 | 4.9 |
| 1970 ............................................................. | 46.9 | 17.0 | 23.0 | 8.1 | 4.9 |
| 1975 ............................................................ | 43.9 | 14.6 | 30.3 | 5.9 | 5.4 |
| 1980 ............................................................ | 47.2 | 12.5 | 30.5 | 4.7 | 5.1 |
| 1985 ............................................................. | 45.6 | 8.4 | 36.1 | 4.9 | 5.0 |
| 1990 ............................................................. | 45.3 | 9.1 | 36.9 | 3.4 | 5.4 |
| 19952 ......................................................... | 43.7 | 11.2 | 36.0 | 4.3 | 4.8 |

${ }^{1}$ Includes estate and gift taxes, customs duties and fees, and Federal Reserve earnings transferred to the Treasury. 2 Estimate.
Note.- Detail may not add to 100 percent because of rounding.
Source: Office of Management and Budget.

## Box 3-2.-Family Economic Income

The Treasury Department uses a broad measure of economic well-being, called family economic income, when performing distributional analyses on tax proposals. Family economic income combines the incomes and taxes of related family members who form a single economic unit. This fairly comprehensive measure of income starts with adjusted gross income as reported to the Internal Revenue Service and then adds an estimate of unreported income; deductions claimed for individual retirement account (IRA) and Keogh contributions; employerprovided fringe benefits such as health coverage; earnings on pensions, IRAs, Keoghs, and life insurance policies; tax-exempt interest; nontaxable cash transfer payments; and imputed rent on owner-occupied housing. Capital gains are computed on an accrual basis, with the inflation component removed (if possible). Inflation adjustments are also made to the incomes of borrowers and lenders.
in the 1990 and 1993 budget acts tended to increase progressivity, both in the income tax and overall.

Chart 3-1 shows Gini coefficients for the before-tax distribution of income in the United States and for the distribution after tax and transfer programs are included. (The Gini coefficient is a measure of income inequality, indicating the extent to which the actual income distribution differs from equal incomes for all. A coefficient of 0.0 indicates exactly equal incomes and a coefficient of 1.0 maximum income inequality.) The smaller Gini coefficient for after-tax incomes indicates that the Federal tax and transfer system acts to reduce income inequality. In general, the after-tax data tell a story

Table 3-4.—Projected Effective Federal Tax Rates, 1996

| Family economic income class ${ }^{1}$ | Effective tax rate ${ }^{2}$ |
| :---: | :---: |
| 0-\$10,000 | 8.0 |
| \$10,000-\$20,000 | 8.8 |
| \$20,000-\$30,000 ................... | 13.3 |
| \$30,000-\$50,000 ... | 17.5 |
| \$50,000-\$75,000. | 19.9 |
| \$75,000-\$100,000 ............................ | 21.1 |
| \$100,000-\$200,000 ..................... | 22.0 |
| \$200,000 and over .......... | 23.7 |
| Total ....................................... | 20.1 |

[^2]
## Chart 3-1 Gini Indexes for Before- and After-Tax Income of Households

After-tax income inequality, as measured by the Gini index, is less than before-tax inequality.
Both before- and after-tax incomes became more unequal in the 1980s.


When considering the distributional consequences of government actions, it would be desirable to incorporate all aspects of the tax-and-transfer system. However, distributional analysis for some important government transfer programs (such as Medicare, Medicaid, Food Stamps, and others) and discretionary spending is not as completely developed as the analysis for the tax system. Steps to integrate both tax and transfer programs into the same distribution tables can, in principle, lead to more informed decisionmaking. In contrast, omitting tax components such as the earned income tax credit from a distributional analysis of a tax proposal may be misleading.

## CHARACTERISTICS OF A WELL-DESIGNED TAX SYSTEM

Three main traits define a well-designed tax system: fairness, economic efficiency, and simplicity. As with almost everything else in government finance, design of a tax system requires tradeoffs among these desirable properties. Policymakers need to be aware how the various components of the existing tax system contribute toward meeting these objectives and how any potential reform of the tax system measures up.

## FAIRNESS

Fairness is generally characterized as horizontal and vertical equity. Horizontal equity means similar tax treatment (i.e., tax payments of equal size) for similarly situated taxpayers. Economists generally view taxpayers as similarly situated when they have similar abilities and similar levels of human capital and financial wealth. However, economists may not agree about the type of adjustments necessary to reflect other personal circumstances (e.g., health status). Components of a tax system that do not meet the basic standards of horizontal equity will appear unfair.

Vertical equity is often associated with a progressive tax system. For the overall tax system to be progressive requires that at least some major revenue-raising components be progressive. The individual and corporate income taxes are generally judged to be the most progressive elements in the portfolio of taxes that make up the U.S. tax system. These elements more than offset the effects of the other, less progressive elements.

Horizontal and vertical equity can be thought of as objective, measurable indicators of fairness. But the perceived fairness (a less measurable indicator) of a tax system is also key to its acceptance by the public, which in turn is a very important determinant of the level of compliance.

## EFFICIENCY

To be economically efficient, a tax system should not impede economic growth and should avoid excessive interference with private economic decisionmaking. In general, a tax characterized by a broad base and a low tax rate will cause less distortion of economic decisionmaking than one with a narrower base and higher rates that raises a similar amount of revenue. Minimal distortion means that competitive prices can better serve as reliable market signals, promoting an efficient allocation of resources and, hence, overall economic efficiency. These efficiency effects can be quite large and, if economic decisions affected by the tax are sensitive (elastic) to the tax rate, these distortions can be quite costly to the economy. A key issue in this regard is how sensitive various economic decisions are to contemplated changes in tax rates. For instance, many economists believe that the interest elasticity of saving is relatively low, so that reducing taxes on returns to a broad range of saving may not elicit much additional private saving. In fact, unless revenues are made up elsewhere, aggregate national saving may actually be reduced, as the increased Federal deficit (lower public sector saving) resulting from lower tax revenues more than offsets any increased private saving.

Correcting Market Failure A tax system can also be used to address market failure: the under- or overprovision of goods by the private sector. For instance, a tax subsidy for research activities may offset the tendency for private organizations to undertake too little research because they cannot appropriate for themselves all the benefits of that activity. In the case of negative externalities, or spillover effects (e.g., pollution), a tax on the activities generating the externality may discourage them. It may be possible to design a revenue-neutral "tax swap" where, for example, revenues generated by a pollution tax can be used to reduce the rate of a distortionary tax elsewhere in the tax system. J udicious choice of the elements of such a tax swap can, in principle, enhance economic efficiency.

Direct Spending Versus Tax Expenditures. The government often has a choice of methods to promote activities considered desirable (e.g., because they yield positive externalities): it can do so either through the tax system (tax expenditures) or through direct spending programs. Two key issues in assessing the relative merits of these alternative approaches are targeting and administrative costs. The essential goal in targeting is "bang for the buck": how much extra stimulation of the desired activity can be accomplished per dollar of forgone tax revenue or dollar of direct expenditure. Some beneficiaries of either tax expenditures or direct expenditures would have undertaken the desired activity anyway, but claim the benefit nonetheless. This concern may be addressed in a direct
spending program by screening mechanisms to identify subsidized activities that would not have been undertaken without the subsidy. Of course, such mechanism requires administrative resources (e.g., the cost of obtaining the required information). However, direct spending programs are not always better at targeting. In some situations, the tax system may be more effective than spending programs at targeting subsidies, especially where income is a criterion for targeting.
Sometimes the administrative costs of providing incentives through the tax code can be lower than those for direct spending provisions. Because tax incentives piggyback on the existing structure of the tax system, the added administrative costs of providing an additional subsidy may be minimal. In contrast, spending programs may require a bureaucratic structure to deliver the subsidy, increasing administrative costs. For some cases, then, the savings in administrative costs associated with a tax subsidy can outweigh its somewhat inferior targeting, compared with a well-designed direct spending program. In other cases, however, the overall cost to the Internal Revenue Service of administering tax expenditure programs can be quite substantial. Moreover, the costs of tax administration for particular incentives may be hidden in the overall budget for the Internal Revenue Service. The administrative costs of direct spending programs, however, are explicitly accounted for.

The annual review process to which appropriated expenditures are subjected may be another advantage of direct spending programs over tax expenditures. This regular review is especially important in today's austere fiscal environment to ensure that obsolete programs do not remain on the books. Tax code provisions do not generally undergo annual scrutiny (although a handful routinely expire and must be renewed by the Congress). A determination that tax subsidies are desirable policy should be subject to the same criterion that spending programs are: do the society-wide benefits delivered exceed the social costs of the forgone revenues?

Corporate Subsidies and Loopholes. Subsidies can take the form of tax preferences or direct Federal payments, or more subtle forms such as import quotas that limit competition with domestically produced goods, below-market-rate sales or credits, or implicit government guarantees. Recently many observers have called for a reexamination of these subsidies, with an eye toward trimming those that lack adequate justification.

One strength of a market economy is that the incentives provided by prices and profits-not government subsidy-generally lead to the efficient supply of essential goods and services. The argument for government intervention must be predicated on the undersupply, absent government help, of valuable goods and services. Such is the case for many expenditures on research and tech-
nol ogy development where large spillovers benefit other individuals and firms. Government support for research activity can offset a tendency for the private sector to underinvest in research. But other subsidies do not generate such spillover benefits and are much more difficult to justify on efficiency grounds.
Some might argue that government subsidies are necessary to prevent profits in an industry from falling below the normal rate of return, threatening the industry's existence. However, with or without subsidies, industries whose products are valued by consumers will survive. The only issue is their ultimate scale of operation and absent a significant market failure, such as associated with an externality, market prices provide appropriate signals for expansion or contraction. Market entry and competitive markets tend to ensure that private, risk-adjusted rates of return, taking into account all available government subsidies, are equated across activities through adjustments in prices and aggregate supply. Removing unwarranted subsidies would begin a process of exit from the industry, driving up the returns for those that remain until they reach competitive levels. In the end, ironically, because the value of government subsidies is likely to get capitalized in the value of scarce resources associated with an industry, the benefit of current subsidy payments may accrue not to the current subsidy recipient but to a previous owner of the scarce resource.
The bottom line is that unwarranted business subsidies lower economic efficiency. In contrast, subsidies that compensate for market failures, such as large positive spillovers, increase economic efficiency (as described in detail in Chapter 1).

Many business subsidies are hidden and receive scant attention from policymakers, in part because they do not show up in annual appropriations bills or on lists of tax expenditures, and because they confer relatively subtle benefits. However, hidden subsidies can be brought to light and undone in many ways. User fees can be set to cover the full costs of service provision. Auctions can be used to transfer resources to the private sector (e.g., portions of the electromagnetic spectrum). Other hidden subsidies could include below-market interest rates on government provision of credit to businesses and the implicit Federal guarantee provided to govern-ment-sponsored enterprises. Addressing these subsidies could increase overall economic efficiency (for instance, well-designed auctions would ensure that resources are allocated to those who can best use them), eliminate a source of unfairness, and raise substantial Federal revenues.
Other Efficiency Effects. Two other effects of the tax system contribute to economic efficiency: the provision of macroeconomic automatic stabilizers and the provision of a form of society-wide income insurance. Automatic stabilizers are mainly associated with the in-
come tax components of the tax system (i.e., the individual and corporate income taxes). As the economy expands sharply, progressive tax rates ensure that individual income tax revenues grow even faster than the economy. Similarly, since corporate profits follow the business cycle, an economic expansion leads to increased corporate income tax revenues. These increased revenues exert a contractionary effect by lowering the Federal deficit (or increasing the surplus). The same effect happens in reverse when the economy slumps: tax revenues fall, widening the deficit (or reducing the surplus). The tax system thus helps stabilize the swings of the broader economy. Although any tax that raises additional revenue when incomes increase may function as an automatic stabilizer, progressive taxes are likely to be more effective automatic stabilizers than proportional or regressive taxes.
A progressive component of the tax system, such as the individual income tax, can also provide a form of income insurance in an economy where income fluctuations are unpredictable. This occurs because a progressive income tax can substantially reduce the variability of after-tax incomes without reducing average income very much. If incomes increase, in part because of an earner's good fortune, a progressive income tax system claims more than a proportional share of this increase. These additional revenues can be thought of as providing income insurance to those whose incomes are low, in part because of bad luck, by reducing their tax burden more than proportionally. The progressive rate structure of the income tax (including the earned income tax credit) accomplishes a significant amount of this income insurance.

This income insurance has the direct benefit of reducing the income risk borne by individuals themselves, shifting it to society as a whole, but it also provides an indirect benefit. Because households will be willing to bear more risk if they have access to income insurance, they will undertake investments (in both financial and human capital, including increased labor mobility) with greater risk and greater expected return. Aggregated over all individuals, the effect of undertaking such investments is a higher expected national income. Private markets will not offer such income insurance because the inherent difficulty of separating effort and luck from an individual's ability subjects private purveyors to adverse selection: those who expect poor outcomes would be more likely to purchase the insurance. The income tax system, in contrast, applies to virtually all economically active people, mitigating concerns with adverse selection.

## SIMPLICITY

The third element of a desirable tax system is simplicity, as measured both by the cost of compliance to taxpayers and by the
administrative cost to the government. Recent studies have suggested high costs of compliance (e.g., one study reports total compliance and administrative costs of around $\$ 75$ billion, or around 6 percent of revenues). These estimates may be overstated, however, because it is difficult for taxpayers (especially businesses, for which the costs may be especially high) to separate out tax compliance costs from accounting and business planning costs they would incur anyway. However, even if true compliance costs (those above costs incurred for ordinary business reasons) are only half those reported, the concern is well-founded, because resources used to comply with the tax system do not increase output but are simply the costs associated with transferring resources from one party to another. A well-designed tax system attempts to minimize the sum of administrative and compliance costs, subject, of course, to the system attaining the other objectives.

## ASSESSING THE CURRENT TAX SYSTEM

With respect to horizontal equity, the current U.S. tax system has some shortcomings. Different types of income are taxed differently, the composition of a household or family can affect its tax liability but not its ability to pay tax, and some forms of consumption are favored over others. Many of these departures from horizontal equity result from decisions by the Congress and partly reflect the difficulty in determining whether individuals are truly in "similar" positions in terms of ability to pay taxes.
Evaluating the current system in terms of vertical equity is more difficult, because economic reasoning provides no objective guide to what the degree of progressivity should be. We do know that the current tax system is progressive and that the tax-and-transfer system accomplishes a significant amount of redistribution. But observers disagree about whether the overall system exhibits an appropriate degree of progressivity.

Survey data provide one way to analyze the perceived fairness of the tax system. Public opinion polls often find that a substantial portion of Americans view their tax system as unfair. This may reflect the concern that others are able to exploit loopholes and avoidance mechanisms to reduce their tax payments. Whatever their origin, these feelings that the tax system is unfair have attracted the attention of policymakers and tax administrators. One concern is that, absent corrective action, these perceived inequities could lead to erosion of the present level of compliance.
Concerns with efficiency often focus on the possible adverse incentive effects of high marginal tax rates. Some advocates of the reforms that lowered the highest individual marginal tax rates in 1981 and 1986 argued that they would unleash supply-side re-
sponses that would lift the economy to new heights and, as a result, would raise rather than lower overall tax revenues. The evidence does not support these claims. Far from raising total tax revenues, the tax reductions of 1981 were followed by reduced individual and corporate income tax revenues as a share of GDP. Even though payroll taxes were increased, this led to the first huge peacetime budget deficits in the United States. These deficits crowded out private investment and led to the fiscal morass from which we are now just emerging. Moreover, the statistical evidence shows no significant break in the pace of productivity increases or labor force participation rates with either the 1981 or the 1986 tax changes. Whatever can be said for these tax changes, it cannot be claimed that they had marked effects on economic growth.

The minor effects of these tax rate reductions on labor supply are consistent with other evidence. Conventional estimates suggest that primary earners in a household generally change their behavior very little in response to relatively small changes in tax rates. The response of secondary earners is generally found to be larger. However, since secondary earners work fewer hours than primary earners, the overall labor supply response to a change in marginal tax rates is often quite limited. Similarly, conventional estimates of the response of saving behavior to changes in after-tax rates of return suggest that changes in individual income tax rates should not have a major effect on our low national saving rate.

Since 1986, marginal rates for individuals with the very highest incomes have been raised modestly in order to reduce the Federal deficit. Some have claimed that these rate increases (e.g., in 1993) would do severe harm to the economy by creating a disincentive for individuals to work and save. Again, these forecasts turned out to be false, just as did the earlier, supply-side forecasts of rapid economic growth from tax reductions.

Some critics claim that increases in marginal tax rates fail to raise the predicted revenues. One recent study estimated that the rate increases on high-income individuals in the 1993 budget act raised less than half the revenues predicted by the Treasury. But as Box 3-3 argues, subsequent analysis indicates that the 1993 provisions did raise the revenues predicted.
The current income tax system is often characterized as complex. A large part of the complexity results from eight decades of statutory and administrative modifications to address economic situations unforeseen when the income tax was originally enacted. Another part stems from tax initiatives intended to address important policy concerns. Policymakers should periodically review existing law to determine which provisions have outlived their usefulness and which can be streamlined or otherwise simplified. This Administration, as part of its National Performance Review and other ef-
forts, has proposed several simplifications. One example is the pension simplification initiative announced in J une 1995 and incorporated in the Administration's 1997 budget proposal. Other examples include simplified forms, greater use of electronic filing, and increased access to filing individual tax returns by telephone.
The Administration recognizes that the current tax system has some real and perceived problems. Some progress toward addressing them was made in the 1993 budget act. Further steps proposed in the budget for fiscal 1996 are described in Box 3-4.

## EVALUATING REFORM PROPOSALS: <br> THE FLAT TAX

Several proposals for a so-called flat tax have been offered over the past few years. In its most basic form, a flat tax applies a single tax rate on all business activities and individuals. This discussion focuses on the flat tax in its prototypical form, which may differ in some details from any particular legislative proposal.

The prototype flat tax is effectively a consumption tax-that is, a tax on wage income plus a tax on consumption from existing wealth at the time the tax is imposed. As such, a flat tax shares many of the benefits and shortcomings of other consumption taxes.

On the business side, all new investment could be immediately expensed under a flat tax, effectively exempting the normal returns to investment from tax. All types of business organizations would be subject to the flat tax: sole proprietorships, partnerships, and corporations. No deduction would be allowed for interest or dividends paid. Purchases from other businesses could be deducted, as could wage payments. However, the cost of fringe benefits (except for employer-provided pensions) would not be deductible.

For individuals, a flat tax would provide a standard deduction and some level of personal exemption for dependents. These amounts are intended to be large enough to exempt many households from tax. But few, if any, other deductions would be allowed. Moreover, individuals who run a business likely would have to file both a business and an individual return, with wage compensation from the business appearing as income on the individual return.

The prototypical flat tax would be less progressive than the current income tax. Its single tax rate would be set far below the highest marginal rate in the present individual income tax. Therefore, for the same amount of total revenue, it would raise less revenue from upper income households than the taxes it would replace (generally the individual and corporate income taxes). It follows that lower and middle-income households would see their taxes raised. If the earned income tax credit were repealed as part of the

## Box 3-3.-Revenue Effects of the 1993 Tax Rate Increases

The Omnibus Budget Reconciliation Act of 1993 (OBRA93) raised income tax rates on higher income taxpayers. The marginal tax rate on couples with taxable income over \$140,000 (over $\$ 115,000$ for single taxpayers) was raised from 31 to 36 percent, and a 39.6 percent marginal rate was imposed on taxpayers with taxable incomes above $\$ 250,000$. A taxable income of $\$ 140,000$ roughly corresponds to an adjusted gross income of $\$ 200,000$, so these rate increases apply to the 1.2 percent of the population with the highest incomes.

The Treasury Department predicted that these rate changes would raise $\$ 16$ billion in the initial year. But some claim that revenues from these high-income taxpayers were as much as 50 percent smaller than predicted, as taxpayers reacted to the changes. The data generally do not support these claims and show that the revenues came in as predicted.

Analysts claiming substantial revenue shortfalls point to the difference between income growth among a "control group" not affected by the tax change and that of the affected group. This technique has several shortcomings. First, the Treasury Department estimates that taxpayers shifted at least $\$ 20$ billion in income from early 1993 to late 1992 in anticipation of higher tax rates for 1993. This estimate is corroborated by data from the Bureau of Economic Analysis, which show a $\$ 20$ billion spike in personal income in the fourth quarter of 1992. Such income shifting (which is to be expected when taxpayers can choose the timing of income receipts) is sufficient to explain the revenue shortfall claimed by critics of the OBRA93 tax increases. This is true even after accounting for another income shift: some wage and salary payments moved from 1994 to 1993 in response to a scheduled increase in the Medicare payroll tax.

Second, the incomes of taxpayers affected by the OBRA93 tax rate changes are notoriously hard to predict. Year-to-year income variations for those in the top 1 percent of the income distribution are large, because of the large share (over 50 percent in 1993) of nonwage income (interest, dividends, capital gains, and business income) in these taxpayers' total income. Predictions of income for this group on the basis of changes in a lower income control group's income are very imprecise.

Thus, although the marginal rate increases in OBRA93 may affect economic behavior over the longer term, the evidence to date suggests that they raised the revenues predicted.

## Box 3-4.-Tax Proposals in the Middle Class Bill of Rights

The Administration's Middle Class Bill of Rights contains a three-part tax package: a tax credit of $\$ 500$ per child, a tax deduction for postsecondary training and education, and an expansion of individual retirement accounts to all middle-class families. These proposals would encourage taxpayers to save and invest in themselves and their children.

The proposed child tax credit is meant to partly compensate for the failure of the personal exemption for dependent children to keep pace with inflation and income growth over the last 50 years. The $\$ 500$ credit would apply to taxpayers with children under age 13 and would be nonrefundable (that is, it would not exceed the amount of tax otherwise due). It would be phased out for families with adjusted gross incomes (AGIs) between \$60,000 and \$75,000.

Taxpayers, their spouses, and dependents would be eligible for the proposed deduction for postsecondary training and education. When fully phased in, the measure would allow taxpayers to deduct up to $\$ 10,000$ per year in qualifying educational expenses (generally those paid to institutions and programs eligible for Federal assistance). The deduction would be phased out for married couples with AGIs between \$100,000 and $\$ 120,000$.

The expanded IRA is intended to encourage households to save more. The proposal doubles the existing income limits on deductible IRAs for taxpayers with employer-provided pension coverage. IRA contributions up to $\$ 2,000$ would be completely deductible for joint filers with AGIs below \$80,000, with the amount deductible phased out for those with AGIs up to $\$ 100,000$. In addition, these income limits and the maximum deductible contribution ( $\$ 2,000$ ) would be indexed for future inflation. The proposal would also permit taxpayers to make withdrawals from an IRA before age 591/2 without payment of the 10 percent excise tax for the following purposes: to buy a first home, to pay for postsecondary education, to defray large medical expenses, or to cover expenses during spells of longterm unemployment. Finally, the Administration proposes a new form of IRA to which contributions would not be deductible but whose earnings would never be subject to income tax.
proposal, the tax burden of lower income working families would be raised substantially.

Often the tax rate contained in flat tax proposals is between 15 and 20 percent. Revenue estimates generally conclude that such
proposals would raise significantly less revenue than the taxes they would replace, increasing future Federal budget deficits. One example is the Treasury Department analysis of H.R. 2060 (the ArmeyShelby flat tax proposal). At its proposed 17 percent rate, this tax plan would raise about $\$ 138$ billion less per year (at 1996 income levels) than the taxes it would replace. Proponents of a flat tax respond that lower tax rates will so stimulate economic growth, and therefore raise tax revenues, that the projected shortfalls will vanish. However, these claims are generally not supported by the available evidence, including the historical record of the 1980s. A prudent reading of the economic literature suggests that the effects of a shift to a flat tax on economic growth are likely to be small.
Other shortcomings of a flat tax have received much less attention. For instance, since a flat tax effectively exempts capital income from taxation at the individual level, it would create strong incentives for entities to recharacterize payments to individuals as capital income. Similarly, since businesses would be taxed on gross receipts from the sale of goods and services but not on interest income, they would have an incentive to relabel payments they receive from other entities as interest. This distinction between the taxation of payments labeled "interest" and other payments creates an enormous potential loophole, and the concern is magnified when multinational firms enter the picture (because firms outside the United States would be subject to completely different tax regimes). This is a problem that could be solved, but only at the expense of introducing some complexity in distinguishing between payment types. Such a solution, though, undercuts one of the main arguments for the flat tax, namely simplicity. In addition, it indirectly points out that defining the tax base often is a major source of complexity, rather than the tax rate schedule.
The flat tax would change the relative desirability of many assets. Owner-occupied housing has received particular scrutiny in this regard. Housing would become much less tax-advantaged under a flat tax that eliminates the deduction for mortgage interest. The result could be a sizable drop in housing values. But owner-occupied housing is only one type of asset that could be affected in this manner. For example, existing plant and equipment or tax-exempt bonds could also suffer a marked decline in value. The impact on these assets indicates that tax reform proposals must be attentive to short-run effects; designing adequate transition rules is a crucial task.
A flat tax would apply to more types of organizations than the current tax. In addition to requiring separate business and individual tax returns for sole proprietorships and partnerships, a flat tax could require many currently tax-exempt entities to file.

Finally, since much middle-class saving is in the form of pensions and IRAs and is thus already effectively exempt from income tax, a flat tax would provide little additional benefit to saving for many middle-income families. Instead, it would skew much of the benefit of exempting capital income to the very wealthiest in society.

Although the flat tax discussed here is not the answer, reforms of the current tax system can certainly be found that can meet these three traditional tests. Our challenge is to design policies that recognize the inherent tradeoffs among them and that reflect deeply held American values. Moreover, decisions made today regarding tax reform are not made in a static economy. Any reforms made must not only be appropriate for today's economy but, more important, must also be flexible enough to address the long-term challenges affecting tomorrow's economy.

## LONG-TERM DEMOGRAPHIC CHALLENGES

Both Republicans and Democrats agree that the Federal budget should be balanced over the next 7 years. Balancing the budget will require many tough choices, but putting our fiscal house in order is an important first step toward meeting the many challenges that stem from the aging of the population that is projected to begin in the early part of the next century.

## DEMOGRAPHIC TRENDS

The median age in the United States in 1995 was 33 years. By 2015 it is projected to be 37, and by 2030 it will be 39. The elderly as a share of the population is projected to increase from roughly 13 percent today to over 20 percent by 2035 (Chart 3-2).
This aging of the U.S. population is the result of two demographic forces: a decline in fertility (lifetime births per woman of childbearing age) since the 1950s and 1960s (Box 3-5), and an increase in life expectancy. Whereas the average woman in 1950 had three children over her lifetime, the average woman today has only two. This dedine in fertility means fewer children today and fewer workers tomorrow. With the increase in life expectancy, more people survive to age 65, and those who do live longer beyond 65. The result is an increase in the share of the over-65 population. $\mathrm{Be}-$ tween 1950 and 1995, life expectancy at birth increased roughly 7 years for men and 8 years for women; life expectancy at age 65 increased 2.5 years for men and 4 years for women over this same period. In the future, life expectancy is projected to continue to increase, although at a somewhat slower rate.
The total dependency ratio-the ratio of dependents (children and elderly) to workers-can be used to summarize the effects on the economy of the decline in fertility and the increase in life ex-

Chart 3-2 Past and Projected Population Shares by Age
The U.S. population is aging. By 2030 more than 20 percent of the population will be age 65 and over, and only 25 percent will be under age 20.


Source: Social Security Administration.

## Box 3-5.-Changes in Fertility Over Time

Chart 3-3 reports changes in the total fertility rate, defined as the number of children a woman would bear in her lifetime (assuming she survives her entire childbearing period) if she were to experience the average birth rate by age observed in the selected year. It seems clear that the baby bust associated with the Great Depression and World War II, and the postwar baby boom that followed it, were temporary blips in a long-run trend of dedining fertility. Without the postwar baby boom, elderly dependency ratios would be climbing steadily and by 2070 would reach the levels currently projected. The cycle of baby bust and baby boom actually observed accounts for the path of dependency between now and then: relatively little change over the next 20 years, as the relatively small cohort born in the 1930s and 1940s reaches retirement, followed by the rapid increases associated with the retiring of the babyboom generation.

Chart 3-3 Past and Projected Fertility Rates
The baby boom of the 1940s and 1950s appears to be a temporary aberration in a long-run trend of declining fertility.


Note: Data prior to 1920 are for whites only.
Source: Data prior to 1920: Coale, A. and M. Zelnick (1963), "New Estimates of Fertility and Population in the U.S.," Princeton University Press; all other data: Social Security Administration.
pectancy. The ratio is a rough measure of how many nonworking people must be supported by the output of the economy's workers. Chart 3-4 reports trends in the total dependency ratio and its two major components: the elderly dependency ratio, calculated as the ratio of the population over 65 to the population aged 20 to 64, and the youth dependency ratio, the ratio of those under 20 to those aged 20 to 64 .

The chart reveals that the total dependency ratio is currently quite low by recent historical standards, because the youth dependency ratio is relatively low and the elderly dependency ratio has risen very little recently. In contrast, in the 1960s the ratio of children to workers was very high, and in the future (after 2010) the ratio of elderly to workers is expected to be high. Although the total dependency ratio is expected to climb significantly in the future, it will be climbing from a relatively low level and is not projected to reach the high rates experienced-and supported without great difficulty-in the mid-1960s. From this perspective, the expected aging of the population does not look so threatening.
Yet children demand different resources from society than the elderly, so it is worth separating elderly dependency from total dependency. Looking only at the elderly dependency ratio does show a dramatically different picture. The ratio of elderly to the workingage population rose slowly between 1950 and 1995, is expected to

Chart 3-4 Past and Projected Elderly and Youth Dependency Ratios
The projected increase in total dependency is smaller than the projected increase in elderly dependency.


Note: Elderly dependency is the ratio of the population age 65 and over to those age 20-64; youth dependency is the ratio of the population under 20 to those age 20-64 Source: Social Security Administration.
stay roughly constant between 1995 and 2010, and then is expected to increase sharply, by roughly 75 percent, in the years between 2010 and 2035.

## ECONOMIC EFFECTS OF AN AGING POPULATION

Much public discussion of the impact of demographic changes on the economy has focused on the potential effects of aging on government programs like Social Security and Medicare. This focus, although certainly not misplaced, may give the impression that the aging of the population would have little impact in an economy with no government programs for the aged. This is clearly not the case. Population aging has broad economic implications in any economy, regardless of the breadth of government support for the elderly.

As discussed above, the aging of the U.S. population stems from increased life spans and declining fertility. Increased life expect-ancy-which accounts for only a small fraction of the change in dependency over the next 40 years-has relatively direct effects on individuals. Although living longer is undoubtedly a good thing (and something in which we invest many research dollars), it does require individuals to make certain adjustments. People need to generate enough resources to support themselves over more years of life. They can do this by working more years (if they are able
to, Box 3-6), by increasing their saving rate while working, by reducing their consumption when retired, or by receiving greater transfers from those of working age during their retirement.

## Box 3-6.-Will Increases in Longevity Permit Increased Work Effort?

The impact of an older population will depend, in part, on the ability of the elderly to remain active and economically productive. An important question, therefore, is whether tomorrow's 65 -year-olds will be healthier than today's. If so, delaying retirement may be a viable option for many people. Advances in medical technology not only save lives but also improve lives by reducing the severity of disabling illnesses. For example, cataract surgery preserves vision, and hip replacements preserve the ability to walk, permitting people to remain independent and active. On the other hand, to the extent that medical advances extend life without reducing disabilities, increasing years of work would not be a viable response to the increase in longevity.

Which of these effects dominates the other is still uncertain. Still, so long as the first effect is present, some individuals can extend their working years, and the average work span can thus increase.

The decline in fertility rates from the levels of the 1960s means that the current generation of workers now has fewer children to care for; they can therefore consume more. This corresponds to the finding that the total dependency ratio is quite low now relative to the 1960s. As members of this generation age, however, they will also find that they have fewer children in the workforce. This corresponds to the increase in the elderly and total dependency ratios expected in the early part of the next century. Since workers today generally do not support their parents' retirement directly, this reduction in the ratio of workers to elderly should not have large direct effects. But it may have a number of indirect effects.

People can save for their retirement by purchasing homes and by investing in financial assets, either directly or through a pension fund, if they have one. When they retire, they support themselves with the income they earn on these assets, and with money they receive from selling them, and of course with benefits they receive from programs such as Social Security and Medicare. The value of those assets may be affected, however, by the number of workers in the next generation. For example, if the number of workers in the United States declines, the total value of what can be produced may also dedine (relative to what could have been produced by a
constant number of workers). The result might be to reduce the value of U.S. financial assets. Similarly, an economy with fewer people of working age has less demand for houses, leading some analysts to predict that housing values will not increase by as much as they might otherwise, or might actually dedine. On the other hand, at our current rate of productivity growth, future generations will undoubtedly be better off than current generations. And this Administration has focused on policies devoted to improving productivity-policies like job training, education, and technology investment-which should make future generations even better off. Furthermore, some researchers have found that slow growth in the workforce could actually spur productivity growth, substantially offsetting or even eliminating the effects of aging on output and on the value of assets (Box 3-7).

## Box 3-7.-Linking Productivity Growth to Demographics

Demographic developments and the rate of productivity growth have a number of potential links. Some observers argue that population aging will lead to slower productivity growth because of two factors. First, as the growth rate of the labor force slows, so does growth in demand for new capital goods. Innovation could become less profitable as the fixed costs of innovation are spread over fewer goods. Second, the aging of the population means that the average age of the workforce will rise. If innovators tend to be young, productivity growth could suffer.

On the other hand, many analysts believe that the incentives to innovate are strongest when labor is scarce. This theory, that "necessity is the mother of invention," predicts that as labor force growth slows, labor-saving technology will be developed to keep economic output from falling.

Finally, the actual effects of population aging in the United States will depend on international factors. If the United States were a small economy that traded freely with the rest of the world, the effects of population aging would be small: demographic changes in the United States would have little effect on the value of tradeable assets, which would largely reflect values established in international markets. But the United States is not a small economy-its population and income are too large for its demographic changes not to have significant worldwide effects. Furthermore, the demographic changes observed here are not confined to the United States-if anything, the countries that are our current principal trading partners are aging faster than we are (Box 3-8). If current trading patterns continue, we are likely to see lower returns to saving as labor force growth in the United States and in
the rest of the industrialized world dedines. If, however, conditions for trade between the United States and what are today's developing countries improve substantially over the next few decades, as they have over the past decade, it is possible that high-yielding investment opportunities in these countries will keep the rate of return on savings relatively high.

## Box 3-8.-Demographic Changes Around the World

Chart 3-5 summarizes trends in the dependency ratios of the United States, Japan, and the countries of the European Union, as projected by the United Nations. Although the U.N. projections are somewhat different from those in Chart 3-4, which uses data generated by the Social Security Administration, the same general patterns emerge. In 1995, elderly dependency is quite similar across the three regions. Dependency in Europe and the United States is not projected to climb until around 2010. In contrast, the elderly dependency ratio in $J$ apan is already on the rise. The U.N. projects that dependency in J apan will be 54 percent higher by 2010 and 110 percent higher by 2030.

Chart 3-5 Elderly Dependency Ratios in Europe, Japan, and the United States
Elderly dependency is projected to rise higher and faster in Japan than in the United States or Europe.


[^3]Source: United Nations.

## EFFECTS OF DEMOGRAPHIC CHANGE ON THE FEDERAL BUDGET

Government support programs make up a large fraction of the retirement income of the elderly. These programs have worked successfully to reduce poverty among the aged (Chart 3-6) and enhance the health and economic security of both the aged and their families. Social Security and the insurance value of Medicare alone represent roughly half of all income (including the value of Medicare) received by elderly households. These programs also account for a significant portion of Federal expenditures-over 30 percent in 1995.

Chart 3-6 Poverty Rate of the Elderly
The percent of America's elderly who are poor has fallen by more than half since the 1960 s and is near an all-time low.


Source: Department of Commerce.

## Social Security

The largest program for the elderly is Social Security. This program has traditionally been financed on a pay-as-you-go basis; that is, most of the payroll taxes collected from the current generation of workers (largely the baby-boom generation) are used to pay current benefits. However, Social Security is now developing a trust fund that will permit some advance funding in the future, at least temporarily. Accumulated assets in the trust fund are currently equal to roughly 1.5 years of benefits.

As currently structured, then, Social Security is mainly an intergenerational transfer program. The aging of the population
will make such a transfer between workers and retirees more difficult. The Social Security actuaries consider three different scenarios for the program's future: one in which the Social Security program is in relatively good financial shape, with relatively high birth rates and real growth in income, and relatively slow growth in longevity; one in which the system is in relatively bad financial shape; and an intermediate scenario, which we focus on here.

Small differences in growth rates, compounded over decades, result in large differences in estimates of levels of expenditures and receipts. This means that we need to be cautious in interpreting any particular scenario. On the other hand, we need to be at least aware of some of the potential risks. How policy responds will depend on our degree of risk aversion and the consequences of delay. Under the Social Security actuaries' intermediate assumptions, benefits are expected to increase from the current 11.5 percent of payroll to 17.3 percent by 2030; Social Security income (tax collections plus interest on the trust fund assets) climb more slowly: from 12.6 percent now to 13.1 percent in 2030. Total income is projected to exceed benefits until 2020. After that, redemption of trust fund holdings can help finance benefits for an additional 10 years, until the trust fund finally runs out in 2030.

Clearly, steps need to be taken to ensure the long-term solvency of Social Security, and a bipartisan effort will be required. The Quadrennial Advisory Council on Social Security was charged with developing ways to balance Social Security in the long run, and is expected to release its recommendations in the near future.

Even without any changes to the program, the rate of return that people will receive on their Social Security contributions is dedining. In the early years of the program, the benefits conferred on retirees far exceeded their contributions. Since then rates of return have dedined because of statutory increases in tax rates, increases in the number of years that workers' wages have been subject to tax, and the slowdown in labor productivity growth, although these have been offset somewhat by increases in life expectancy. (Productivity growth affects the rate of return received on Social Security contributions because the calculation of a worker's initial benefit level reflects the productivity gains that occurred over his or her working years.) Even at current levels, Social Security, by providing returns that are fully indexed for inflation, offers a kind of economic security that is simply not available elsewhere in the market. And, increases in productivity growth beyond what is currently projected could lead to higher rates of return on Social Security contributions in the future.

## Medicare

Government expenditures on Medicare, the program that provides health insurance for the elderly, are also projected to grow
over the next 75 years. The projected expenditure growth over the first 25 years of that period is primarily due to projected increases in the cost of providing health care. For the remainder of the projection period, however, most of the growth is attributable to increases in enrollment stemming from the retirement of the babyboom generation.

Medicare is composed of two parts. Part A covers inpatient hospital services, and Part B covers primarily physician and outpatient hospital services. Part A is financed by a 2.9 percent payroll tax, shared equally by employers and employees. Most of the taxes are used to finance current benefits, but like Social Security, at least until recently, some tax revenue was retained in a trust fund to finance future health care benefits. According to the 1995 Annual Report of the Board of Trustees of the Hospital Insurance Trust Fund, the trust fund for Medicare Part A is projected to be exhausted by the year 2002. Medicare reforms proposed by this Administration should extend the life of the Medicare Part A trust fund through at least 2011. Medicare Part B is financed partly from general revenues, but partly from premiums paid by beneficiaries. Expenditures on Part B are also expected to increase with the aging of the population.

Many policymakers have called for a commission, similar to the Quadrennial Advisory Council for Social Security, to develop recommendations to ensure the long-term solvency of the overall Medicare program.

## Medicaid

Medicaid, the program that provides health care to low-income people with little wealth, is not exclusively a program for the elderly. But Medicaid does pay for nursing home care for elderly and other Americans who have depleted their assets. In 1995 roughly one-third of total Medicaid expenditures went to the elderly (with the remaining two-thirds split about equally between people with disabilities and the nonelderly, nondisabled poor).
The aging of the population is bound to lead to a significant increase in the number of people needing long-term care assistance. Not only will the number of old people increase, but so will the average age of those over 65. People over 85 made up about 11 percent of the elderly population in 1995; according to the Social Security Administration's projections, by 2050, they will make up over 16 percent. Older people are much more likely to be in a nursing home: in 1993, 31 percent of those 85 and older spent time in a nursing home, compared to just 7 percent of the general population over 65. If this rate of nursing home utilization is maintained, population aging will bring significant increases in the nursing home population and in expenditures on long-term care.

## Box 3-9.-Gauging the Accuracy of the Consumer Price Index

The consumer price index (CPI) is used to index Social Security benefits as well as elements of the tax code (e.g., personal exemptions, standard deductions, and tax bracket thresholds). It is generally believed that the CPI overstates changes in the cost of living, although opinion varies about the exact magnitude of the overstatement. Correcting any bias in the CPI would ensure that Social Security benefits and tax brackets increase as intended-that is, to keep pace with the cost-of-living.
The bias comes from a variety of sources, including the problem inherent in approximating a cost-of-living index by a fixed weight price index like the CPI, and the difficulty of assessing the value to consumers of quality changes in new and existing products. (See Economic Report of the President, 1995 for details concerning bias in the CPI.) The Bureau of Labor Statistics is engaged in a multiyear revision of the CPI and has, as well, been working to fix a technical limitation in the formula used to compute basic components of the index. By 1998, these efforts should reduce the bias in the CPI. It is more difficult to address the remaining sources of bias because they are harder to gauge and thus there is greater controversy over their magnitude.

## MAINTAINING VALUABLE PROGRAMS

The aging of the population will pose significant challenges for the economy and in particular for the government. Although changes to these programs are inevitable, certain features should be maintained. Medicare and Social Security do provide unique benefits that the private sector cannot provide. In particular, because Medicare and Social Security cover all Americans, they are not subject to the adverse selection problems that can plague the private annuity and health insurance markets. And Social Security and Medicare provide income streams that generate constant real purchasing power (Box 3-9). Administrative costs (which are less than 1 percent of benefits for Social Security) are far lower than for most private insurance plans or pensions. Social Security and Medicare are programs of universal participation that have received a great deal of public support. To maintain this support, it is important that these programs remain universal, but it is also important that they be put on a sound financial footing.

## CHAPTER 4

## Devolution

THE APPROPRIATE ROLE of the Federal Government in the U.S. economy has been a fundamental issue in this past year's debate over the budget. At issue are both the role for government in general and the division of responsibility between Federal and State governments. Chapter 1 of this Report addressed the question of the broader role of government. This chapter addresses how responsibilities might best be apportioned among the levels of government.

This Administration has dedicated itself from the outset to making government work better. Improving the efficiency of government requires a rational division of responsibility among Federal, State, and local entities. Today many support the notion that, in several policy areas, authority ought to be devolved from Federal agencies to States, localities, and individuals, to foster more creative and responsive solutions to the problems of diverse communities.

This Administration has been at the forefront of efforts to empower State and local governments by removing impediments to innovation and experimentation in public health, welfare, public housing, and environmental protection, and by reducing the proliferation of Federal unfunded mandates. But devolution of responsibilities must be done carefully, to ensure that national objectives are still met. In particular, a profound national interest lies in maintaining a social safety net, to guarantee at least a minimum standard of living for today's vulnerable families, and in promoting investment in education, research, and infrastructure, to ensure high living standards for tomorrow's families. The Federal Government also has a clear interest in ensuring that all of its expenditures, including those over which States and localities have some degree of control, are spent in the manner intended. Devolution that merely inserts an extra level of bureaucracy makes little sense: in many cases it is far better to empower individuals directly than to dispense funds to State and local governments on their behalf.

## FACTS ON FEDERALISM

Despite major changes in our economy and in government programs over the past 25 years, the roles of the States and the Federal Government in the economy have remained relatively stable.

## TRENDS OVER TIME

Total government expenditures-F ederal, State, and local-have rose slowly as a share of gross domestic product (GDP) over the past three decades, from roughly 28 percent in the early 1960s to over 34 percent today (Chart 4-1).

Chart 4-1 Expenditures by All Levels of Government
Government expenditures in relation to the broader economy have climbed slowly over the past three decades.


Note: Grants are Federal grants-in-aid to State and local governments.
Source: Department of Commerce.
The Federal Government accounts for the largest share of this spending. In 1993, if expenditures on State and local grants are included, the Federal Government accounted for 69 percent of total government spending. As Chart 4-2 shows, this share has not changed dramatically over the past 25 years: the Federal share of expenditures rose from 67 percent to 72 percent between 1970 and 1984, but has shrunk back to 69 percent since then.

## COMPOSITION OF SPENDING

The Federal Government's major responsibilities include national defense, Social Security, and Medicare. States and localities have

Chart 4-2 Federal Expenditures as a Share of Total Government Expenditures
The Federal Government's share of all government expenditures has been relatively stable.


Source: Department of Commerce.
primary responsibility for public education, police and fire protection, and sewerage and sanitation. Highways are generally maintained by States and localities, but funds for new construction are largely provided by the Federal Government. Medicaid and some welfare programs are jointly financed by the Federal and State governments but administered by the States. Table 4-1 documents the current division of responsibility between the Federal Government and State and local government.
This division of responsibility has evolved gradually. Public roads and support for the needy, for example, are two areas where responsibility has traditionally rested with States and localities, but in both areas the Federal Government has assumed an increasingly important role. The Highway Revenue Act of 1956 created the Highway Trust Fund and dedicated the revenue received from taxes on diesel fuel and gasoline to this fund. These funds were used to build the interstate highway system, which has changed the face of America.

The growth of the Federal role in welfare arose in part out of the widely shared view that all children, no matter where they were born or who their parents were, should be entitled to certain basic standards of nutrition, housing, and health-common decency in a country as rich as the United States demanded no less. Although the acceptance of this national obligation was fundamentally a

Table 4-1.-Composition of Government Spending, 1993

| Spending by function | Percent of non-interest expenditures | Percent of expenditures financed with Federal grants |
| :---: | :---: | :---: |
| Federal Government: |  |  |
| National defense .... | 26.6 | ....... |
| Social security ............ | 23.4 | ................. |
| Medicare .......................... | 13.2 | .................. |
| Veterans benefits and services, welfare and social services, and housing subsidies | 9.0 | ....................... |
| Civilian and military retirement | 4.9 | ..... |
| Other ................................................................................................ | 22.9 | ...................... |
| State and local government: |  |  |
| Education | 37.5 | 4.7 |
| Medicaid .................................................................................................... | 15.9 | 57.9 |
| Welfare and social services. | 8.0 | 58.0 |
| Highways | 7.5 | 26.1 |
| Police and fire protection ........................................................................... | 6.2 | . 8 |
| Corrections ...................................................................................... | 3.7 | . 7 |
| Water, sewerage, and sanitation .................................................... | 1.5 | 15.5 |
| Other ................................................................................................. | 19.6 | 19.7 |

Note.- Data are on a national income and product accounts (NIPA) basis, and are as published in the Survey of Curent Business, September 1994. No later data are available.
In this table, Federal grants-in-aid to State and local governments are not included in Federal Government expenditures.
Source: Department of Commerce.
moral decision, it was supported by self-interest, in the recognition that the cost to society of not providing these minimal standardsin terms of lost wages, higher crime rates, and the like-could be very high.

## THE RATIONALE FOR A FEDERAL ROLE

The reasons for the creation and expansion of these Federal programs provide considerable insight into the forces that drive the expanded Federal presence in American society. Yet a sensible allocation of responsibilities for governments in the future must be based on more than historical precedent.

Some might make the case that the Federal Government should do nothing other than national defense. After all, States and localities are better able to tailor their programs to meet the different needs and preferences of their residents, and competition among the States may enhance efficiency and innovation, just as it does in the private sector. But this view ignores the benefits of Federal action in a number of areas. The enumeration of powers given to the Federal Government under the Constitution suggests that our forefathers, even in the early infancy of the Republic, recognized the advantages of Federal involvement across a broad range of endeavors. The economic strength of the United States rests in part on our vast national market, fostered not only by the free flow of commerce without artificial trade barriers, but also by national standards and a national transportation and communications system.

Economists have sought to identify some general principles that would elucidate a "rational" division of responsibilities between levels of government. At least four categories of arguments justifying Federal action can be identified.

## THE NEED FOR UNIFORMITY

Although diversity among State government programs is often desirable, in some cases the benefits of uniform government action across the States tip the scale toward Federal involvement. Uniformity of standards and regulations may improve efficiency. For example, uniform rules for interstate commerce preserve one of America's strengths: our large national market. Conflicting State regulation could fragment this market and impede producers' ability to take advantage of economies of scale. Likewise, uniformity in minimum safety net benefits would guarantee that all needy Americans, regardless of where they lived, enjoyed at least a certain level of well-being, and would avoid distorting and inefficient movements of households in response to differences in benefits.

## DIRECT SPILLOVERS

Actions taken or not taken by States sometimes affect residents of other States. Residents of a State might be willing to tolerate pollution of their ground water, but the contaminated water could seep across State boundaries and harm residents of other States. States may also engage in activities that unintentionally benefit the residents of other States. For example, one State's successful innovation in its schools can lead the way for other States to re form their education systems, and States' efforts to prevent communicable diseases can benefit the health of nonresidents. SimiIarly, when States invest more in education, and incomes rise as a consequence, they confer a positive benefit on all taxpayers: the Federal Government reaps some of the rewards of the higher incomes in the form of higher Federal tax revenues. When the policies of one State affect the residents of others, for good or for ill, States may lack the right incentives to provide an appropriate level of public services, because the effects of policies on nonresidents may not factor strongly in their decisionmaking.

## THE EFFECTS OF POLICY-INDUCED MOBILITY

The freedom of people and firms to move at will from State to State promotes competition among State governments. Although this competition can enhance the efficiency of government, it can also make it difficult for States to pursue certain worthwhile policies. F or example, the fear of welfare-induced migration may cause States to reduce welfare benefits to a level below what they would
otherwise provide. Similarly, State competition for jobs may limit the generosity of unemployment insurance programs.

## INEQUALITY OF RESOURCES

States that are poorer than the average, or that are experiencing temporary downturns, are able to raise less revenue, yet have to spend more than other States to provide services for the needy. Clearly, only the Federal Government can transfer resources among the States. Not only does such redistribution help poorer States, but financial assistance from the Federal Government that increases during economic downturns can also help to stabilize regional economies. This assistance can be given through a number of channels: direct transfers of cash or in-kind benefits to lower income individuals, grants to lower income States or localities, matching grants to State or local programs for the needy, or direct provision of public services in poor communities. The role of the Federal Government in transferring resources to States and localities is more complicated, both in theory and in practice, than is often recognized, and will be discussed at greater length below.

These rationales for a Federal role are not mutually exclusive, and sometimes it is their interaction that makes a strong case for a Federal role in policy. For example, national safety standards, when desirable, might evolve on their own, were it not for spillovers. States could simply agree to a set of voluntary standards, and each State would weigh the benefits and costs of complying. In doing so, however, it would ignore the costs it might impose on others. A State might adopt more lax safety regulation for its cars, but then when its cars cross over into another State, the other State bears part of the costs. Federal action is therefore needed to ensure uniform national standards that avoid these spillover effects.

## DEVOLUTION OF POLICYMAKING RESPONSIBILITY

Determining which level of government should be responsible for a particular program or activity is a delicate balancing act. It requires weighing the benefits of innovation, greater responsiveness, and competition that State and local control offers against the rationales for Federal involvement just outlined. Sometimes the answer is simple and obvious: either purely Federal control and financing or purely State control and financing. But many cases call for a sharing of responsibilities.

All government activities have three basic elements: policymaking, financing, and administration. These activities can be apportioned between the Federal Government and State and local
governments in various ways. The current debate centers largely on how the policymaking role for programs that receive financing from the Federal government should be shared. At one extreme, the Federal Government could provide funds to States with no strings attached-States would not even be told on which programs to spend the money. Such an arrangement, used in other countries and in the past in the United States (where it was called "general revenue sharing"), is not currently under consideration. Instead the debate has focused on whether to convert existing programs into block grants (grants that can be used to fund programs in broad policy areas) and on how much discretion to allow States in determining how those grants should be used.
This Administration strongly supports enhancing the role of States and localities in policymaking. In many areas-job training, community development, and welfare, for example-enhanced flexibility for States and local communities is likely to yield better results. But it is important that this enhanced flexibility be provided in a way that protects the national interest. For all the reasons cited earlier, some Federal role in policy may need to be maintained. Furthermore, the Federal Government has a significant role in financing programs, it also should have some role in policy in order to ensure accountability.

## ENSURING GOVERNMENT ACCOUNTABILITY

The Administration is committed to ensuring that government funds are spent wisely, whether the Federal Government or States and localities are doing the spending. A problem with revenuesharing arrangements or pure block grants is that the level of government making the policy decisions is no longer the one responsible for financing the program. This separation of functions may increase the likelihood that taxpayer money is not well spent. Indeed, some evidence suggests that States spend money they receive from the Federal Government differently from funds they raise themselves-and restrictions on spending imposed by the Federal Government do not account for all of the difference. Thus, the availability of Federal highway money results in more spending on highways than States would otherwise undertake, even though, at the margin, most States pay 100 percent of each additional dollar of highway spending (Box 4-1). Evidently, State taxpayers are content to give government officials more discretion over funds coming from Washington than over funds contributed by their own State tax dollars.

This is a two-edged sword. On the one hand, it means that the Federal Government can influence the pattern of State spending more easily than it might otherwise: Federal money may not just

## Box 4-1.-Federal Grants and the "Flypaper Effect"

The Federal Government provides substantial grants to States and localities-over $\$ 228$ billion in 1995. Most of this grant money can be used for projects that these governments might otherwise fully fund themselves, and most do not require that the State or locality contribute any matching funds. Because these grants can simply serve to free up State and local government funds for other uses, they can be viewed as equivalent to pure transfers of cash from the Federal Government. From an economic perspective, then, one would expect States and localities to spend these grants in the same manner as they would any other increase in income. For example, States might allocate 5 to 10 cents of each grant dollar to increases in their spending, and the rest would simply be used to reduce State taxes.

Researchers have consistently found, however, that Federal grants have much larger effects on State and local government spending than this logic would suggest. Recent studies find that the actual increase is on the order of 40 to 65 cents on the dollar. This result has been dubbed the "flypaper effect": the money sticks where it hits. Moreover, not only does State and local spending increase when Federal grants increase, but the money tends to remain in the program area for which the grant was intended: grants for education tend to increase education spending, grants for infrastructure tend to increase infrastructure spending, and so on. Some of the grant money is used to finance other areas of government and to finance tax cuts, but such "leakages" are much smaller than economic theory would predict.
substitute for State money, as many critics of block granting have feared. (And, as is discussed later in the chapter, it is precisely the Federal Government's desire to influence patterns of State spending that justifies a Federal role at all.) On the other hand, if the substitution of Federal for local funding leads to less diligent monitoring by taxpayers, the money may not be well spent.

Federal actions can also impose costs on the States. And just as States may spend Federal money more readily than money raised through State taxes, so the Federal Government may spend State money more readily than funds raised through Federal taxes. Federal legislation that raises States' costs-so-called unfunded man-dates-has recently received considerable attention. Legislation passed in 1995 attempted to address some of the most important problems posed by unfunded mandates (Box 4-2).

## Box 4-2.-The Unfunded Mandates Reform Act

The Unfunded Mandates Reform Act, enacted in early 1995, will restrict the ability of the Congress to impose costly mandates on States, localities, and tribal governments. This legislation requires the Congressional Budget Office (CBO) to analyze the costs of any proposed mandates on State and local governments. Mandates certified by the CBO as costing States and localities $\$ 50$ million or more in any of the first 5 years after becoming effective are not permitted. However, majority votes in both the House and the Senate can waive this prohibition. The CBO also is required to estimate the cost of any mandate on private companies which exceeds $\$ 100$ million in any year over this same 5-year period.

The unfunded mandates legislation was enacted to restore equilibrium to the relationships between Federal, State, and local governments. F or too long, Washington has placed overly burdensome mandates on States and localities. The new law rectifies this imbalance but also permits mandates that are in the national interest. F or example, some unfunded mandates may be designed to control cross-jurisdictional externalities. A State that dumps garbage in a river, polluting the shores of a neighboring State, causes an externality every bit as important as that generated by a private firm. The law provides a flexible way of addressing unfunded mandates: it requires the disclosure of relevant information, without being overly prescriptive. With a majority vote, the Federal Government could, for instance, still proscribe States from dumping garbage in ways that adversely affect neighboring States. To do so imposes costs on States, but these are costs that they should rightly bear.

The legislation also requires Federal agencies to assess the qualitative and quantitative costs and benefits of any proposed regulatory actions that would result in annual expenditures of $\$ 100$ million or more by State, local, and tribal governments or the private sector before promulgating such actions. Agencies must ". . . [1] identify and consider a reasonable number of regulatory alternatives and [2] from those alternatives select the least costly, most cost-effective or least burdensome alternative that achieves the objectives of the proposed rule," or explain their decisions if a different action is adopted. Finally, the legislation requires the Advisory Commission on Intergovernmental Relations, an independent agency, to make recommendations on paring existing mandates.

## DEVOLUTION AND THE PROVISION OF PUBLIC SERVICES

In many cases, government action can correct inefficiencies in the private market-so-called market failures-and so improve the overall allocation of resources. As discussed in Chapter 1, to correct market failures, government may need to provide certain goods directly (so-called public goods), adopt or enforce standards that apply to other goods (such as safety standards), or encourage, through subsidies or regulation, private firms to provide goods that would otherwise be underprovided (i.e., those with positive externalities). All of these activities can be viewed as providing public services.
State and local governments have many advantages in providing these public services. They can more easily address the differing needs and preferences of particular communities. For example, building codes should reflect local weather and geological conditions, and communities should be able to choose their own level of community services. Having a number of communities with different mixes of services (and of taxes to pay for them) improves overall efficiency, if people can choose to live in the jurisdiction that best meets their needs and desires.

Competition among localities can enhance this efficiency by making it easier for people to hold their local government accountable for the decisions it makes. For example, if a city, by operating efficiently, is able to maintain a high level of public services with relatively low taxes, residents of nearby cities may demand equally efficient government from their policymakers-and use the threat of relocation to the efficient city to make their demands resonate.

But the problems described above require some Federal role in the provision of many public services. Uniformity of regulations or of standards, such as safety standards, can improve the effectiveness and efficiency of certain policies. A uniform set of minimum water and air quality regulations ensures that all Americans, regardless of where they live, have clean air to breathe and water to drink. Cross-jurisdictional spillovers also can be important. Some types of public services, like national defense and subsidies to scientific research, need to be provided by the Federal Government because the spillovers from government action are so large. Public services and goods, like national defense, that can only be provided effectively at the national level are called national public goods. Those whose benefits accrue exclusively to residents of a particular locale are called local public goods.
Between purely local and purely national public goods are many intermediate cases: many public services create some spillovers, but still much of the benefit accrues within the community. High-
ways are a prominent example. Many highways are used primarily by residents of the State where the highway is located. But these highways also provide significant benefits to out-of-State residents who travel on them and who purchase goods that have been transported on them. If State residents had to pay for all the costs of building highways in their State, their choices regarding highway construction might take into account only the benefits they expect for themselves. Thus they would construct fewer roads with smaller capacity than would be socially desirable.

## MATCHING GRANTS

One method used to solve this problem is the categorical matching grant, in which the Federal Government pays a fraction of the overall costs of the program. F or example, the Federal Government could match additional State spending on a 1-to-1 basis, or on a 2-to-1 or 4-to-1 basis. Ideally, the match rate would be set so that the fraction of the total costs paid by the States equals the fraction of the total benefits that accrue to their residents. Under such a financial arrangement, the decision on the level of expenditures can be delegated to the States. Because the spillover effects are taken into account in the "price" States have to pay, they will set the level of expenditures at an efficient level.
In practice, however, a large share of Federal grants for public infrastructure, education, and social services is not in the form of matching grants, but rather in the form of categorical unmatched grants (grants that provide funds for particular purposes, such as education of the disabled or tuberculosis control, but do not require States or localities to put up any of their own money). Furthermore, while there are grant programs that do require States to spend their own funds in order to receive Federal money, many are in the form of capped matching grants, which place a ceiling on the total amount that the Federal Government will pay. From an economist's perspective, capped matching grants are much like categorical grants. Once the cap on Federal grants is reached, State and local governments bear the full cost of additional projects. And since, for many capped matching grant programs, States likely do spend more than the amount required to receive the maximum allowable Federal grant, the grants probably do little to change the incremental costs of projects, but simply allow States and localities to shift resources to other projects. Capped matching grants may thus insufficiently address the problem of underspending arising from cross-jurisdictional spillovers. Surprisingly, however, evidence indicates that categorical grants and capped matching grants do stimulate a significant amount of additional investment in the targeted activities (Box 4-1), although they also serve to free up State funds for other purposes. Open-ended matching grants, which
would change the marginal cost to States, could have significantly greater effects on State spending decisions, because they would affect the prices faced by the States at the margin.

## PUBLIC SERVICES AND DIFFERENCES IN LOCAL RESOURCES

One of the rationales cited above for a Federal role in provision of public goods is that some jurisdictions lack the resources to finance public services at a level deemed adequate by the N ation as a whole. But a lack of sufficient State resources to provide services does not necessarily imply that the Federal Government should provide those services instead. In principle, the Federal Government could, instead of providing grants for public services to poor States, provide income transfers to poor individuals. J ust as individuals, not the government, should decide how their income is spent, so too individuals should decide for themselves about the level of consumption of local public goods.
If taxpayers closely monitored their policymakers, the level of public services would not depend on whether resources were transferred to State and local governments or directly to taxpayers, and the transfer of resources to the States would simply substitute for State governments levying taxes. But the evidence cited earlier suggests that the way money is distributed does matter. Direct transfers to individuals force State and local policymakers to justify their choices of public services.

This general principle has two exceptions. First, Americans believe that society has a special responsibility to children, regardless of the economic condition of their parents. Providing services that go directly to children, rather than providing cash to their parents, may be a more effective way of making sure that it is children who ultimately benefit. More generally, society may not care so much about inequality of income as about inequality in the consumption of certain goods, and so may prefer to provide these goods instead of cash. To the extent that these goods are public services-like health care, clean water, decent schools, good job opportunities, and safe places for children to play-Federal funding of such services for poor neighborhoods is warranted.

A second reason why it may be better for the Federal Government to provide direct financing for public services is to save on administrative costs. Indirect financing, through Federal transfers to citizens residing within the jurisdiction, involves two steps: disbursing funds to individuals and collecting the money once again at the State or community level. Because each step has its costs, direct transfers to State and local governments may save on overall transaction costs.

## BETTER GOVERNMENT THROUGH COMMUNITY AND INDIVIDUAL EMPOWERMENT

Over time, a large number of Federal programs have evolved primarily to meet certain perceived needs that were not being adequately addressed at the State and local level. Although these programs direct attention and resources to real problems, in some cases they leave too little discretion to States and localities in allocating the funds, and Federal paperwork requirements lead States and localities to devote too large a share of their resources toward administrative costs. Furthermore, in some cases these funds could be more effective if they were used to empower individuals, by providing them the wherewithal and the information to make appropriate choices, rather than having government-Federal, State, or local-in the driver's seat.

This Administration has put forward a new approach to Federal grants:

- The Federal Government would provide States and local governments with greatly enhanced flexibility: funds from numerous programs would be consolidated, and regulations would be pared back.
- Accountability would be ensured not by restrictions on the use of funds but by performance measures. Programs that live up to their stated goals could receive more funding.
- Individuals benefiting from government programs would also be given as much discretion as possible to choose how those funds should be spent, reducing the possibility that they would be spent unwisely.
One example of this new approach is the Administration's proposed G.I. Bill for America's Workers (Box 4-3). Under the current J ob Training Partnership Act, States are provided the funds to obtain training for dislocated workers. Under the Administration's proposal, funds would instead be dispensed directly to individuals, in the form of "skill grants" which they could use for tuition at private or public institutions. States and localities would create onestop career development centers, which would provide individuals with the information necessary to make good choices about how to use their skill grants, would track participant earnings and job retention, and would work with businesses to help match newly trained workers with jobs. Allowing individuals to make informed choices about what skills to obtain and where to obtain them will ensure that only those institutions that provide high-quality, relevant training will survive.

The Administration has also encouraged legislative efforts, such as the proposed Local Empowerment and Flexibility Act, that would waive programmatic regulations for local communities that have a federally approved "Local Flexibility Plan" from certain Fed-
eral laws and regulations that impede their efforts to meet their plan. Similarly, as part of its overhaul of environmental regulation, the Administration has initiated Project XL, which gives responsible companies and other regulated parties the flexibility to replace the requirements of the current regulatory system with their own alternative strategies to achieve better bottom-line environmental results.
These efforts are similar to the project currently under way to revitalize distressed communities: The Empowerment Zone and Enterprise Community (EZ/EC) initiative provides block grants, tax subsidies, and regulatory flexibility to a number of designated communities that have formulated innovative strategic development plans. A major element of these plans, and of the EZ/EC initiative, is the inclusion of performance benchmarks, so that policymakers can learn what works and what does not.

In cases where local control has not done the job, a reconsideration of the intergovernmental partnership is in order. Public housing is one example of a program that needs major change (Box 44). In its plan to reorganize the Department of Housing and Urban Development (HUD), the Administration proposed providing greatly increased flexibility to well-performing housing agencies and overhauling those public housing agencies that are chronically troubled. In some cases, residents of severely distressed units will be provided with rental vouchers, which could be used to obtain private housing. After all, individuals have the best incentive to ensure that the dollars they receive for housing are well spent.

## DEVOLUTION AND THE SAFETY NET

This country has reached a general consensus that providing a minimum level of subsistence for our most vulnerable citizens, regardless of where they live, is an essential government role. But because differences exist across States-in job opportunities, in family characteristics, and even in views on the appropriate level of support for the poor-States also have a role in providing and administering the safety net.
At the same time, safety net programs-programs that provide assistance to those meeting certain income or asset tests, such as Aid to Families with Dependent Children (AFDC) or Medicaidpresent several problems that require some Federal role. One problem stems from the mobility of the population. For example, whenever one State chooses to expand its welfare program-by raising benefits or relaxing eligibility criteria-it may encourage poor people from other States to move in. As they do, the welfare program becomes more expensive, forcing the State either to reduce benefits or eligibility, raise taxes, or both. If the State raises taxes to pay

## Box 4-3.-Rethinking Devolution: The J ob Training Partnership Act

The history of the Job Training Partnership Act (JTPA) shows that simply shifting accountability and policy discretion to the States does not always improve performance. When enacted in 1982, JTPA was designed as a block grant to the States. JTPA reduced the role of the Federal Government, enhanced the role of the States, and retained a strong role for policymaking and initiative at the local level. However, the program became the subject of a growing number of reports. The General Accounting Office concluded that Federal dollars were being misused, while the Department of Labor's Office of the Inspector General found a serious lack of uniform control and guidance. JTPA's problems led the previous Administration and a coalition in Congress to reassert Federal accountability through a set of new rules and regulations enacted in 1992.

The 1992 legislation was an understandable response, but it made JTPA less flexible. The dilemma facing JTPA is one of the reasons why the present Administration has proposed a G.I. Bill for America's Workers. The new bill is based on a different model, one that replaces bureaucratic accountability with market-driven accountability based on individual empowerment, informed customer choice, and competition among providers. It establishes appropriate and complementary roles for all three levels of government-Federal, State, and local-in the design, implementation, and oversight of effective workforce development systems. It also provides for the close participation of businesses, labor organizations, and local elected officials to facilitate effective training and placement.
for the more expensive welfare program, residents with higher incomes may migrate to other States with lower taxes, again making it harder for the State to finance its established level of benefits. Accordingly, States and localities are discouraged from providing safety net benefits. This phenomenon-sometimes labeled the "race to the bottom"-limits the ability of States to offer their residents welfare benefits that are as generous as they would like in the absence of migration.
The severity of this problem depends on how prone people are to move in response to differences in the generosity of welfare benefits across States. The evidence is inconclusive. Some researchers have found that low-income households are indeed more likely to move from low-benefit to high-benefit States, whereas others have found no evidence of welfare-induced migration. Even when welfare bene-

## Box 4-4. Rethinking Devolution: The Case of Public Housing

Since 1937 the Federal Government has invested some \$90 billion in Federal housing. The legacy of that investment is mixed. Public housing does provide affordable shelter for approximately 1.3 million households. But many public housing projects are in abject disrepair.
One problem with the current system is the lack of accountability. The discipline of the real estate market seldom extends to public housing. Instead, local public housing agencies administer the public housing stock, subject to the rules and regulations of a distant Federal bureaucracy. Under the reorganization plan for the Department of Housing and Urban Development, well-performing public housing agencies will be given greater flexibility to improve their housing stock, through modernization or demolition, and to attract and retain a broader range of families by setting their own rules for admission to public housing.
But public housing agencies that exhibit persistent management deficiencies will be overhauled. And some projects, such as Chicago's infamous Cabrini-Green, will be demolished. In many cases, residents of demolished units will be given rental vouchers to live in better housing in the private market. Vouchers permit tenants to demand quality housing, and also make it easier for them to seek out gainful employment and jobs that maximize their income, regardless of where they are located. In other communities, a new form of public housing is being tested. Instead of mammoth apartment buildings, smallscale, townhouse-style housing is being constructed that would provide housing to residents with a wide range of incomes. Instead of purely public ownership and management, this housing will be owned and managed by partnerships between public entities and for-profit and non-profit developers.
fits are found to affect migration, the effects are generally small and slow to happen. But even if the effects are small on average, they could be substantial for neighboring States with population centers in close proximity. Furthermore, the studies examining the effects of differences in AFDC benefit levels on migration were all done within the context of the current AFDC program, which does impose some limits on the differences across States. For instance, although average benefit levels and eligibility requirements vary widely, States are required to provide coverage for all families meeting the State income and asset requirements. Interstate competition might be more of a problem if some States imposed rigid
time limits on welfare recipiency or denied benefits to certain families while others did not.

Some State legislatures have taken the position that welfare-induced migration occurs and should be discouraged. As a result, under waivers granted by the previous Administration, California and Wisconsin were permitted to create "two-tier" welfare systems, in which new residents on AFDC could receive a different level of benefits than longer term residents of those States. However, some have questioned the legality of the two-tier system: California's waiver was voided by the Court of Appeals, and Wisconsin's is the subject of pending litigation.

Disparities in State resources-particularly in relation to the demands put upon them-provide another rationale for a Federal role. Poorer States feel that they cannot afford the same level of safety net protection that wealthier States can. As in the case of public services, this rationale does not necessarily imply that the Federal Government should finance the safety net programs. J ust as the government can help provide public services in two ways, it also has two ways of helping individuals: directly, and indirectly by first giving it to States and communities. The direct method can save on transaction costs, and the resulting empowerment of individuals may enhance the efficiency of the funds. On the other hand, in cases where benefit recipients also require other government help-for example, in finding child care or getting job train-ing-transfers to States or communities to fund such services may prove more effective.

Some States have historically been poorer than others, and these differences are not likely to change any time soon. But in addition to these persistent disparities, shorter term disparities arise from fluctuations in the business cycle. In the past, Federal funding has acted in part as a form of insurance against these shocks, with those States experiencing increases in their poverty population receiving greater Federal funding. To some extent States can insure themselves against temporary economic shocks if they maintain "rainy day" funds or if they permit themselves to borrow during hard times. However, political constraints that States face, such as balanced budget requirements, may reduce their ability to insure their safety net programs against adverse economic shocks.

## THE FEDERAL ROLE IN THE SAFETY NET

All these considerations argue for a strong Federal role in safety net programs. And in fact, most safety net programs are either federally run or run jointly by the Federal and State governments. The Federal Government finances and makes policy decisions for Food Stamps and Supplemental Security Income (SSI, the cash assistance program for the low-income aged, blind, or disabled);

States do have an administrative role in both, however, and many States supplement SSI benefits with their own funds. Medicaid and AFDC-which along with Food Stamps are the largest programs for the nonelderly poor-are administered by the States, but States and the Federal Government share responsibility for funding and for policymaking. Other safety net programs, like housing subsidies and energy assistance, are provided by both the Federal Government and the States.
The Federal share of spending on safety net and social service programs increased with the introduction of Medicaid, SSI, and Food Stamps: from roughly 44 percent of the nationwide total in 1960 to over 70 percent in 1976, and has remained relatively stable since then.

Under current law the Federal Government provides open-ended matching grants to States for Medicaid and AFDC, with the Federal share of expenditures in 1995 varying, from 50 percent to 79 percent, according to State income. This open-ended matching reduces the States' marginal price of providing benefits, giving States an incentive to provide higher levels of benefits than they otherwise would. Federal matching also helps offset the problems of States offering lower benefits for fear of becoming welfare magnets or because of insufficient resources. Yet despite their significantly higher Federal matching rates, poorer States still tend to pay lower AFDC benefits (Table 4-2).

Although the theoretical arguments supporting a Federal role in welfare are strong, almost all observers, including welfare program participants themselves, agree that the welfare system is not working well. For too long, it has undermined the values of work and personal responsibility, not strengthened them.

Welfare policy presents a dilemma with which the Nation has been struggling for 60 years: providing adequate support to low-income families who fall upon hard times, and especially to their children, without generating dependency. Despite a broad consensus that the goal of welfare reform should be to move people from welfare to work, how best to accomplish this goal is still unclear.

In such uncertain circumstances, the potential value of innovation and experimentation is high, and States have shown increasing interest in trying new approaches. This Administration has used waivers effectively to allow States to engage in valuable experimentation. The Administration has made clear that it is open to States' proposals for alternative approaches to providing welfare support. Since J anuary 1993 the Administration has approved welfare demonstration projects in 37 states. In an average month these demonstrations will cover more than 10 million people, or approximately 73 percent of all AFDC recipients.

Table 4-2.-Typical Maximum AFDC Payments for a Family of Three
[Dollars per month]

| State | Three-person <br> family <br> typical maximum |  | State | Three-person <br> family |
| :--- | :---: | :--- | :--- | :--- | :--- |
| typical maximum |  |  |  |  |

Note.- "Typical maximum" is amount paid for basic needs to a family (including one adult) with no income or special needs in State's highest caseload area.

Source: Department of Health and Human Services.
In their reform efforts, many States have sought to reduce welfare dependency by beginning to experiment with time limits on families' welfare benefits. Others have sought to facilitate the movement from welfare to work by setting strict job search or work requirements, or by providing subsidies to private employers who hire welfare recipients. Many States require recipients to sign "personal employability plans" or "self-sufficiency agreements," with specific goals and deadlines. Failure to meet the deadlines can result in reduction or denial of benefits.

The Administration has reinforced these state welfare reform efforts with other policies that reward work over welfare. In 1993 the President's economic plan cut the taxes of 15 million working families through the earned income tax credit. The Administration has also proposed raising the minimum wage to ensure that, in combination with the Earned Income Tax Credit, a single parent with two children working full-time would escape poverty. The Administration has also strengthened collection of child support, enabling more single parents to support themselves through a combination of child support and work, instead of welfare.

## MOVING FORWARD: WELFARE REFORM

The Administration has called for comprehensive, bipartisan welfare reform legislation to impose time limits, work requirements,
and tough child support enforcement nationwide. Many in the Congress, believing that the waiver process is still too burdensome and uncertain, have proposed converting AFDC into a block grant program, providing States the flexibility to design their own approaches to welfare reform without the need for waivers from Washington, and putting an end to the open-ended entitlement funding structure.

Converting AFDC to a pure block grant could have a number of effects. First, under pure block grants, States would no longer receive additional funding for increases in benefits arising from economic downturns or population growth, making it more difficult to provide needed benefits. Second, under a block grant program, States would receive a fixed amount of money from the Federal Government, independent of the level of State expenditures. The elimination of the Federal matching program would mean that States would no longer receive extra Federal money when they raised benefits, nor lose Federal support when they cut benefits. This change in incentives (which would be greater for low-income States since they now have the most generous Federal match rates) might induce some States to cut their welfare spending.

On the other hand, converting AFDC to a block grant program would also mean that States that managed to get people off welfare and into jobs would realize all the resulting welfare savings. Under the current program most State job training expenditures are not matched, even though the Federal Government receives a Iarge fraction of the resulting welfare savings.

In any reform of the welfare system, the Administration has consistently argued for crucial safeguards to promote work and responsibility and to protect children. It has insisted on a strong mainte-nance-of-effort requirement so that States keep their welfare spending at adequate levels, and sufficient resources to pay for child care so that recipients can leave welfare and go to work. Finally, the Administration has required that additional resources be made available to States during economic downturns. Under the current system, this occurs automatically through the Federal match, but an adequately financed contingency fund with an effective trigger mechanism could also accomplish this goal.
Because the current system frustrates taxpayers and recipients alike, the Administration plans to work with the Congress to enact a bipartisan welfare reform bill. As part of its 7 -year balanced budget proposal, the Administration has proposed repealing the AFDC program and replacing it with a new Federal program with strict time limits on welfare benefits. The new program would re quire parents to go to work after 2 years or lose their benefits; after 5 years benefits would end unconditionally. States would enjoy new flexibility to tailor their welfare systems to local condi-
tions. At the same time, the plan would provide vouchers to protect children whose parents reach the time limit. Because the Federal government would continue to match State welfare spending, States would be protected in the event of economic downturns or caseload growth.

## MOVING FORWARD: MEDICAID

This Administration has insisted upon maintaining the Federal entitlement to Medicaid, for two main reasons. First, this Administration believes that all Americans should be guaranteed access to quality medical care, regardless of income or State of residence. Second, the Medicaid program is not performing badly: it needs reform, not repeal. Although overall Medicaid expenditures have been increasing at a rapid rate, part of this increase is attributable to legislated increases in the eligible population.

This Administration's insistence upon maintaining the guarantee of health care coverage for poor families in no way contradicts its commitment to flexibility, innovation, and experimentation. The President's plan expands State flexibility in administering Medicaid programs, but maintains protection for beneficiaries and for States facing population growth or economic downturns. To this end, the Administration is committed to working in partnership with the States to test new approaches to Medicaid through the waiver process. The Administration shares States' interest in developing innovative delivery systems, improving quality of care, and expanding coverage to uninsured Americans. To date, the Administration has approved 12 comprehensive health care reform demonstrations. These waivers have allowed States to greatly increase their use of managed care, to subsidize health insurance for employed but uninsured workers, and to expand Medicaid eligibility by eliminating asset tests and increasing income limits. Furthermore, the Administration has granted 14 States Medicaid waivers as part of larger welfare reform projects. These waivers enable States to continue providing essential health care services while encouraging independence from welfare. The Administration's 7year budget plan would give States further flexibility to modify their programs. In particular, it would no longer require States to obtain a waiver in order to expand coverage to any person whose income is at or below 150 percent of the poverty line, to use managed care plans to provide health insurance to their Medicaid population, or to move people from nursing homes to home- and commu-nity-based settings. The plan also repeals the Boren Amendment, thus allowing States greater flexibility in establishing their provider payment rates.

## THE CHALLENGES OF DEVOLUTION

This Administration is committed to making government more efficient and effective. Designing government programs so that activities are performed at the appropriate government level-Federal, State, or local-is one of the most difficult challenges associated with this task. Although in many areas the answers are clear-national defense is a Federal responsibility, whereas sewage treatment and water supply are local responsibilities-in many other areas the advantages of Federal responsibility must be balanced against the advantages of State and local responsibility. Federal grants to fund certain public services can reduce the problems of spillovers, but if the sense of accountability for Federal funds is different from that for funds raised through State or local taxes, Federal grants may be spent unwisely. Restrictions on the use of Federal funds may reduce this problem, but they may also impose significant administrative burdens and severely limit State innovation.

One approach to solving this problem is to ensure accountability through results-oriented measures, rather than through conventional rules and regulations. A results-oriented approach allows States much more flexibility without severely hampering efficiency. The Administration has proposed using this approach in housing, job training, the environment, welfare, and numerous other policy areas. Subjecting government expenditures to this discipline is likely to be the best way to improve government efficiency. Furthermore, when possible, government should use the private market directly. For example, individuals can be provided housing vouchers that permit them to live wherever they choose, and those in need of job training can receive funds to pay for training at the institution of their choice. In this way, individuals are provided the wherewithal to choose what is best for them, and only those providers that bring desirable services to market at the lowest costwhether it be rental housing or job training-will survive.

States must also be provided with greater flexibility where no consensus has emerged on how to accomplish the goal. In these cases, experimentation and innovation by the States could prove invaluable. But this enhanced flexibility must be provided in a way that protects the national interest and advances the objectives of the programs. What is appropriate in one program may not be appropriate in another. In some cases the solution may entail Federal regulation as a "default option," with wide latitude for waivers to allow for State and local adaptation. In other cases, block grants with little Federal policy involvement may be called for.

Devising policies that ensure accountability and that protect the national interest, while also allowing for flexibility, adaptability,
and innovation at the State, local, and individual levels is a great challenge. What worked in the past may no longer work today. Carefully balancing the advantages and disadvantages to find the right mix of policies is vital if government is to work at its best.

## CHAPTER 5

## Economic Efficiency and Regulatory Reform

OUR LIVING STANDARDS depend on more than just our monetary income. We benefit from open spaces and clean rivers and lakes. We gain a sense of security from safer airplanes, cars, food, and toys for our children. We benefit from safer workplaces and from safer financial institutions.

Over the years the U.S. Government has enacted a number of laws and issued a number of regulations designed to protect consumers, workers, and investors. These efforts are important for improving our environment, public health, and safety. Reducing the corrosion of factory equipment by polluted water, or the loss of agricultural productivity due to air pollution, also lowers business costs. In some cases, efforts to correct environmental or safety problems may stimulate other productivity improvements.
But regulation also inevitably imposes costs, and these can be substantial. They include not only direct expenditures to enforce and comply with regulation, but also indirect costs, such as loss of flexibility and choice for consumers and businesses, diversion of investment from other productive activities, and delays in redeveloping inner cities where hazardous waste sites are located.
To best serve the public interest, regulation should impose the least burden necessary to achieve its objective, and its benefits should justify its costs. A major theme of this Administration has been reinventing regulation: taking a new look at regulation and the regulatory process to ensure that regulations meet legitimate social needs, and where necessary changing both content and process to improve efficiency and effectiveness.

This chapter begins by surveying the broad and continuing debate over the scope and design of regulation. It identifies the rationales for regulation and the basic principles of effective and efficient regulation of threats to human health, safety, and the environment. The balance of the chapter then illustrates the application of these principles in the context of ongoing efforts to restructure regulations affecting the environment and natural resources.

## RATIONALES FOR GOVERNMENT REGULATION

The fundamental strength of a market economy is that the pursuit of private gain serves the public interest by stimulating efficiency and innovation. But private gain and public interest are not always so firmly tethered: they can and do diverge. In the absence of regulation, polluters do not have an incentive to pay adequate attention to the environmental damage they cause. Workplaces may be unsafe. Consumers may be unwittingly exposed to defective or unsafe products and services.

Economists refer to such divergences between public and private interest as externalities, because in each case the amount paid for a good or service fails to reflect its full cost to society-some costs remain "external" to the transaction. Externalities are a form of market failure. Government action is needed to correct this market failure, by confronting economic actors with the full costs of their behavior. Correcting externalities improves economic efficiency and the quality of life. The United States has long used regulations as a way of better aligning public and private interests within the market. For example, legislation in the area of food and drug safety was enacted in the 1930s. Internalization of externalities is an important role of government in modern society, to be set alongside the provision of public goods like national defense and the maintenance of a social safety net.

Although this chapter focuses on regulation, governments have a variety of other tools to address market failure. These include direct changes in incentives through subsidies or fees; changes in legal liability standards; provision of information about products, markets, and technologies; support for the development of new technologies; and voluntary, cooperative ventures with the private sector.

Changes in our economy and our society call for changes in regulatory policies. When pressures mount for both land development and the preservation of undeveloped natural areas, new tensions in land use and resource protection policies will have to be addressed. As States demand a greater say over their own affairs, FederalState partnerships grow, leading to tensions between the objectives of consistency and flexibility. Regulation also must adjust to reflect changes in technology. For example, it is important to focus on the risks posed by contaminants, not just the ability to measure their concentrations in human tissues and the environment.

The Administration's strategy of reinventing regulation addresses these varied and sometimes conflicting concerns. It encompasses not just deregulation and reform of the content of regulation, but also a rethinking of how government regulates. The goal is to de-
vise a regulatory system that both works better and is more responsive to public concerns.

Efforts to reinvent regulation are taking a variety of forms. One important step is better targeting of regulatory efforts to where the need is greatest. Another is a shift in emphasis from prescribing methods of compliance to specifying desired outcomes. Still another is harnessing economic incentives through market-based regulatory mechanisms. The process of regulating can be improved through reduced paperwork burdens and streamlined reporting requirements, better dissemination of information to the public, and increased opportunities for public participation in the regulatory process.

## EVALUATING REGULATORY PERFORMANCE: PRINCIPLES AND PRACTICE

Evaluating regulatory reforms requires consideration of the benefits and costs of alternatives. This can raise a number of questions. What range of consequences from regulation should be considered? How does one address benefits or costs that are uncertain or inherently difficult to quantify? How should concerns about fairness be dealt with? How should regulators balance the need for consistency in rulemaking with the advantages of flexibility? How can the assessment process itself obtain high-quality analysis without creating an excessive administrative burden, and without imposing excessive societal costs from the delay of necessary actions?

## SETTING REGULATORY PRIORITIES

Executive Order 12866, which the President signed on September 30, 1993, reflects the Administration's basic philosophy and principles for regulatory planning and review. The order stipulates a number of criteria that should apply both to assessments of "significant" new regulations (including but not limited to regulations with an expected annual economic effect of $\$ 100$ million or more) and to reevaluations of existing regulations. The order requires that Federal regulations address real needs while avoiding undue economic burdens. In assessing the need for regulation, agencies should consider a variety of alternatives, including alternatives to new regulation. The assessment should use the best reasonably available information, including information about risks and costs and the uncertainties surrounding them, and it should encompass both quantitative and qualitative benefits and costs. To the extent compatible with existing statutes, agencies should show that the chosen regulatory approach maximizes net benefits (including economic, environmental, public health and safety, and other advantages, as well as distributional impacts and equity), and that those benefits justify the costs. The means of regulating should be cost-
effective, imposing the least possible cost on society to achieve the objective (after taking into account the potential for technical innovation, requirements for verifying compliance, and equity concerns). Federal agencies should also reduce regulatory inconsistency and overlap; they should coordinate their activities with State, local, and tribal governments; and they should provide significant opportunities for contribution by the public to regulatory review.
The criteria for regulatory planning and review established in the order recognize that some benefits and costs are difficult to quantify but nevertheless important. The order acknowledges the importance and limitations of benefit-cost evaluations for obtaining good regulatory outcomes. The Administration opposes legislative changes that would burden the regulatory system with rigidly prescribed assessment methods, unnecessary costs and delay, and excessive opportunities for litigation.

## DESIGNING EFFECTIVE REGULATORY POLICIES

To make regulation less burdensome, the order states that, wherever possible, agencies specify regulatory goals in terms of performance standards, which specify desired outcomes, rather than design standards, which prescribe methods of compliance. Performancebased regulation lowers the cost of compliance by allowing a variety of compliance options and encouraging technical innovation. In contrast, the input-oriented, design standards approach tends to raise the cost of achieving regulatory objectives by limiting flexibility. For example, standards for atmospheric pollutants could specify a desired reduction in emissions or in the damages caused by emissions, and a means for determining whether that reduction has been achieved. This obviates the need to mandate investment in specific pollution abatement technology such as scrubbers for power plants.
Performance standards may require greater effort on the part of regulators to ascertain the level of compliance. They also require public confidence in the approach. The applicability of performance standards in practice is limited by constraints on the ability to monitor compliance and public acceptance. Improved measurement capacities and increased confidence in the approach can be expected to increase its applicability, yielding significant improvements in the cost-effectiveness of regulation.

Even with performance standards in place, the total cost to the economy of complying with regulation may be higher than necessary. The total cost can be reduced if those who face lower compliance costs undertake more of the total effort required. Regulations can employ economic incentives toward this end, rather than rigid requirements. Society further benefits from incentive-based policies because they can provide a strong inducement to the devel-
opment of new technologies that reduce the cost of compliance for all.

Tradeable emissions allowances for pollution control illustrate these points. A tradeable emissions regime sets a limit on total emissions from all sources and a nominal emissions limit for each source. Sources can then vary their actual emissions above or below that limit through voluntary exchange of emissions allowances with other emitters. Those that can comply at lower cost can cheaply cut emissions below their nominal limit, then sell their unused allowances to emitters with higher costs, who can then exceed their nominal emissions levels. A further advantage of allowances is that they essentially put a price on allowed emissions, providing an incentive for the development of lower cost options for pollution control and prevention.

Although regulation is necessary to curb negative externalities such as pollution, in some cases government policy itself contributes to externalities. Then the challenge to designing effective policies includes reducing these government-induced distortions. For example, ill-designed subsidies can contribute to environmental harm. These include agricultural commodity programs that encourage overuse of soil, water, and chemical fertilizers, and access to forests on government land at less than their opportunity cost. Reducing or eliminating distorting subsidies offers an opportunity to improve the environment and market performance simultaneously.

## REGULATION AND DEVOLUTION

The question of who should regulate can be as important as how to regulate. This question has no easy answer. Many of the arguments parallel those raised in Chapter 4 on the devolution of expenditure programs. If regulatory authority goes to that level of government whose jurisdiction best corresponds to the scope of the externality, this can help ensure a solution that is tailored to the problem. For example, plans to clean up and rehabilitate contaminated industrial sites might be better made at the State or the local level. State and local decisionmakers may be better able to assess the benefits and costs of additional cleanup-greater public safety, cleaner sites, but increased expense and delay-and to ensure that resources are used most efficiently.

Devolution of regulatory responsibility may not be appropriate, however, for several reasons. Broader, cross-jurisdictional environmental interests may be at stake. For example, protecting wetlands and endangered species habitats is a national as well as a local issue. The impacts of pollution may transcend local boundaries. Federal regulation of air and surface water pollution is intended in part to address the fact that some of these problems spill over city limits and State lines. State or local authorities might have a weak
interest in preventing or containing damages outside their jurisdictions. Devolution of regulatory authority might also compromise protection because of limits on local regulatory capacity (such as inadequate resources for monitoring or lack of enforcement experience), or because States or localities are in competition with each other for economic development opportunities. In addition, disparate State or local regulatory standards can increase costs of compliance by, for example, requiring excessive product differentiation.

Problems can arise when the impacts of externalities are felt by one group of people, but political decisions are made by others. By the same token, however, problems can arise when the beneficiaries of policies to address externalities do not have a stake in balancing the costs and benefits of policy intervention. This can happen when decisions are made by States or localities but costs are borne at the Federal level. Conversely, the imposition of requirements on State and local governments without the funding to meet those requirements-so-called unfunded mandates-has become a point of contention. Some mandates could be seen as undue restrictions on local discretion, but others may appropriately compensate for market or policy failures at the State or local level. For example, if a mandate restricts the ability of States or localities to impose externalities on others, it can be justified on the same economic grounds that apply to the regulation of private entities that generate externalities. It can be difficult in practice to ascertain into which category a particular mandate falls. In any case, the Federal Government should be aware of the costs it imposes on other levels of government. As noted in Chapter 4, legislation passed in 1995 ensures that this information will be available during congressional debates.

## REGULATORY ASSESSMENT IN PRACTICE

The capacity to estimate the consequences of regulation has grown enormously since the early days of benefit-cost analysis. And even imprecise analyses can at least be useful in placing bounds around potential benefits and costs. Nevertheless, a number of methodological questions persist and are addressed in newly updated guidelines issued by the Office of Management and Budget. The following examples illustrate these issues and the means available to address them.

The primary purpose of much regulation is to reduce an identified threat to human health, safety, or the environment. However, there are gaps in current knowledge about the nature and magnitude of the hazards that different substances and practices pose to different parts of the population, and about the costs of reducing those hazards. With limited information, analysts will be able to describe only a few possible scenarios; in other cases a more com-
plete characterization of outcomes and probabilities may be possible. Such information may include measures of central tendency (e.g., the median risk), upper and lower bounds, measures of the uncertainty of possible outcomes, and effects on different populations. Where the level of risk depends on more than one factor (e.g., both exposure and toxicity), statistical techniques can combine these factors in a way that accurately describes the overall risk without putting excessive emphasis on those outcomes that are very unlikely.

The valuation of risk reduction is an important element of many regulatory assessments. It is complicated, however, by the fact that typically there are no markets that directly value the reductions in risk achieved through regulation. Instead, indirect methods must be employed. For example, the assessment of many health and safety regulations centers on the question, By how much will this regulation reduce the risk of illness or premature death? It is possible in principle to assign an economic value to the reduced risk of premature mortality by posing the question, How much would members of the affected public willingly pay for this reduction in the probability of earlier death? This makes the issue analogous to the willingness to pay for insurance-and quite different from placing a monetary value on a specific person's life. (Even the notion of putting a monetary value on risk reductions of this kind remains controversial for many.) The question can be approached by examining, for example, how much more people pay for safer but costlier products, or by estimating the wage premiums offered for riskier occupations. However, debate continues about the reliability and applicability of this information to the assessment of other kinds of risks. Among the questions at issue are the degree to which the risks in question are assumed voluntarily or involuntarily, and the extent to which valuations should reflect the age of those affected and the latency of the risk (that is, the lag with which any ill effects are likely to occur).

Discounting future benefits and costs is another complicated methodological issue. Benefits received now or soon are generally worth more to people-have higher present value-than the same benefits received later. An important question here is the extent to which the costs of regulation displace private consumption or investment. Displacement of investment implies a loss of future consumption possibilities. Higher market returns on investment imply a larger consumption displacement. The weighing of long-term benefits and costs should also attempt to account for changes in the relative scarcity of resources and the potential for irreversible losses that result in a sacrifice of future as well as current benefits.
Analysis of issues with very long-term consequences, such as climate change and depletion of the stratospheric ozone layer, in-
volves yet another complicated issue: tradeoffs among the interests of different generations that may give rise to ethical considerations. One way to introduce ethical elements into the analysis is through intergenerational discount rates that explicitly reflect assumptions about society's attitudes toward such tradeoffs. Discount rates derived from ethical considerations about fairness to future generations were calculated in one study to range between 0.5 and 3.0 percent (in real terms) for an advanced industrial economy. This range is generally below rates of return to private capital, but not necessarily below real short-term yields on government bonds.

## SETTING REGULATORY PRIORITIES FOR THE ENVIRONMENT AND NATURAL RESOURCES

Over the past 25 years environmental regulation has succeeded in reducing a number of threats to human health and the environment. For example, emissions of lead into the air, which pose serious threats to human health, have fallen sharply (Table 5-1), and lead paint has been banned. As a consequence, blood lead levels have dropped sharply. Air quality in many cities has improved considerably (Chart 5-1). The past quarter century has also seen efforts to protect valuable natural resources such as wetlands, and the ban on the pesticide DDT has reduced serious threats to species like the bald eagle. The agreement to phase out the production of substances that deplete stratospheric ozone is an important first step toward greater international cooperation in protecting the global environment. Nevertheless, concerns about local environmental quality remain. For example, the frequency with which concentrations of fecal coliform bacteria in rivers and streams are found to exceed standards shows little decline. And other regional and global problems have come to the fore, such as the global loss of biodiversity, marine pollution, stress on fisheries, and the threat of global warming.

It is important to consider the costs of environmental policies as well as their benefits. Direct public and private expenditures associated with the regulations of the Environmental Protection Agency (EPA) have been estimated to be between 1.6 and 1.8 percent of GDP since the mid-1970s, a small but significant share of total economic activity. In absolute terms, current-dollar expenditures in 1992 and 1993 were slightly over $\$ 100$ billion, or almost as much as total personal expenditures for religious and philanthropic activities. These estimates exclude indirect costs associated with environmental regulations, and the costs of other regulations to restrict land and natural resource use. They also do not indicate the marginal cost of stricter regulation.

Table 5-1.-Atmospheric Emissions of Lead, by Source, 1970-94
[Thousand short tons]

| Year | Total | Non-transportation fuel combustion | Transportation | Industrial processes |
| :---: | :---: | :---: | :---: | :---: |
| 1970 ............................................................................................. | 219.5 | 10.6 | 180.3 | 28.6 |
| 1975 .............................................................................................. | 158.5 | 10.3 | 135.2 | 13.0 |
| 1980 .............................................................................................. | 75.0 | 4.3 | 65.5 | 5.1 |
| 1985 .............................................................................................. | 20.1 | . 5 | 16.2 | 3.4 |
| 1990 .............................................................................................. | 5.7 | . 5 | 1.9 | 3.3 |
| 1994 .............................................................................................. | 5.0 | . 5 | 1.6 | 2.9 |

Note. - Detail may not add to totals because of rounding.
Source: Environmental Protection Agency.

Chart 5-1 Air Quality in Urban Areas
Air quality has improved markedly in just the last decade.


Note: Data are averages for 23 urban areas
Source: Environmental Protection Agency.
Satisfying public concern for protection of the environment and natural resources without imposing an undue burden on the economy is a challenge. Part of the Administration's response is through programs like EPA's Common Sense Initiative. This program is a pilot collaborative effort among government, business, and the public to identify areas for improvement in how regulations are structured and implemented, and how technologies can be improved to help protect the environment. Another new initiative is EPA's Project XL, which invites companies to propose their own
environmental performance standards, to increase flexibility and improve environmental performance. The Army Corps of Engineers has streamlined permitting procedures related to protection of wetlands to reduce regulatory burdens on activities involving small tracts of land.

Beyond these efforts, resources devoted to regulation can be used more efficiently through careful evaluation of benefits and costs, keeping in mind the uncertainties inherent in such evaluations and the need to consider qualitative or subjective factors such as distributional equity and environmental justice, as noted above. Three recent regulatory reform initiatives-the reauthorization of the Safe Drinking Water Act, the reform of waste management programs, and shifts in the focus of agricultural land retirement pro-grams-illustrate efforts to target regulation better.

## THE SAFE DRINKING WATER ACT

The unanimous reauthorization by the Senate of the Safe Drinking Water Act in the fall of 1995 is a good example of bipartisan legislative reform to increase the role of benefit-cost assessments in setting more rational priorities. The previous version of the act put EPA on a regulatory treadmill, requiring new standards for 25 substances every 3 years, regardless of the threat they posed. A study by the Congressional Budget Office estimated the cost of reducing cancer risk under standards that various administrations have been required to promulgate for different contaminants under the act. The estimates ranged from less than $\$ 1$ million to over $\$ 4$ billion per expected cancer death avoided. Although other important health benefits besides reduced risk of cancer are also tied to drinking water standards, a range this wide suggests that much could be gained from better targeting of regulatory efforts on those substances that pose the greatest risk.
The Senate revisions to the act would explicitly allow EPA to consider the balance between potential public health benefits and the costs when establishing drinking water standards. EPA would be able to target those threats to public health that scientific assessments indicate are more important. EPA could also modify standards whose benefits do not justify the costs, so long as the alternative standard chosen maintains or increases health benefits. This general approach-protecting public health and environmental values, but also providing greater latitude for balancing benefits and costs-is an instructive example of how such balancing provisions could be incorporated in other environmental laws and regulations.

## HAZARDOUS WASTE

There are several important Federal programs for disposal of hazardous wastes and cleanups of waste contamination. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, otherwise known as the Superfund program) established a program to clean up major disused contaminated sites. CERCLA also requires those responsible to restore, replace, or provide compensation for the loss, injury, or destruction of natural resources (Box 5-1). The Resource Conservation and Recovery Act (RCRA) established a program that regulates ongoing management of hazardous and solid wastes, as well as cleanups of facilities covered by the permitting requirements of the act. The Federal Government also is subject to these laws and cleans up sites managed by Federal agencies or contractors.

CERCLA and RCRA require that cleanups and waste management protect human health and the environment. To achieve this goal, CERCLA currently contains a strong preference for remedies that are permanent and involve treatment of contaminants, as opposed to lower cost alternatives that contain the contamination and limit human exposure or environmental damage, without a full long-term cleanup. CERCLA currently puts only limited weight on cleanup costs as one of a number of factors to be balanced in selecting remedies. In addition, remedies must satisfy a variety of other Federal and State statutory requirements directly or indirectly re lated to site cleanups; these can impose stricter standards than CERCLA itself would require. Some standards for hazardous waste disposal under RCRA require threats to human health and the environment to be "minimized," regardless of the level of risk posed by the waste or the cost of compliance. This requirement could imply the need for waste management efforts to intensify as technical capacity improves, regardless of background environmental quality or the hazard posed by the material.
The advantages of reform in waste cleanup could be substantial. The Administration estimated that its 1994 CERCLA reform proposals (discussed below) could reduce cleanup costs by 19 to 25 percent (including savings at Federal facilities). A review of CERCLA cleanup decisions by researchers at the University of Tennessee found that increasing the flexibility of remedy selection could reduce the cost of actual site cleanup by anywhere from 20 percent to more than 50 percent without compromising the basic statutory goal of protecting human health and the environment. Since governments and private parties spend several billion dollars each year on CERCLA site remediation, the total savings could be substantial. Significant cost savings could also be realized from reforms of RCRA. For example, EPA has estimated that billions of dollars in cumulative cost savings could be obtained by increasing
the flexibility with which one category of materials-contaminated materials excavated during site cleanups-is handled, without an unacceptable increase in risk.

Improving the balance between the benefits of risk reduction, on the one hand, and the costs of cleaning up old waste and managing new waste, on the other, calls for both legislative and administrative changes. These should build upon the basic principles laid out earlier in this chapter. Cleanup remedies and regulations for managing new wastes should protect human health and the environment. Policies should reflect sound assessments of the risks involved. Decisionmakers should have greater flexibility in designing remedies and waste management policies, and greater weight should be given to costs than in the past. Decisions should take into account the concerns of affected communities and the potential for redevelopment of contaminated sites. And regulatory actions should be able to proceed without bogging down in red tape. The policy debate seems to center not so much on these basic principles as on how reforms should be implemented and how tradeoffs should be structured to achieve the stipulated goals.

During the 1994 debate on CERCLA reform, the Administration proposed legislation that would have given more weight to cleanup costs in choosing remedies, limited requirements for more stringent cleanups due to other statutes, and required greater consideration of the likely future uses of the site (e.g., residential versus industrial) in assessing risks and selecting remedies. The reforms would have limited the preference for permanent treatment to so-called "hot spots," such as portions of sites with high concentrations of contaminants. Under this approach, greater use could be made of remedies that prevent the spread of contaminants or avoid human exposure without requiring the more expensive removal or destruction of contaminants. Although this legislation was supported by industry and environmental interests, the 103d Congress failed to vote on it before adjourning.
Legislation introduced in the 104th Congress proposes more sweeping changes to the remediation process. The Administration opposes changes to the remediation process that provide inadequate protection, fail to give due weight to State and community interests, or pose an excessive administrative burden. Meanwhile the Administration is pursuing a number of administrative reforms to strengthen the reliability of risk assessments, put greater emphasis on sites of greater risk, and compare the potential risk reductions and costs of alternative remedies. For example, high-cost remedies will be subject to additional review to determine whether a lower cost remedy would meet the cleanup goals. A finding of high cost and limited risk reduction would provide a rationale for waiving more restrictive remedy requirements.

The Administration organized public discussions on reinventing RCRA. These generated a variety of suggestions for the management of newly created wastes: disposal restrictions could be made more risk-based, barriers to economically and environmentally sound recycling could be lowered, and there could be more flexibility in determining what substances will be regulated as hazardous wastes. The Administration currently supports carefully targeted legislative efforts to relax restrictions on certain low-risk types of waste disposal. Through rulemaking, EPA is attempting to exclude certain low-risk materials from RCRA hazardous waste requirements.
As indicated previously, cost savings also can be obtained from increased regulatory flexibility in handling materials produced in the course of cleanups. Even if these materials have low levels of contamination, under current law they must be treated the same as the most hazardous industrial process wastes. When large volumes of these materials become subject to strict cleanup standards, they can pose a significant cost burden. Reform can be achieved without jeopardizing human health and the environment by combining some relaxation of waste disposal requirements with a requirement that a cleanup plan be approved by Federal or State regulators.

## AGRICULTURAL LAND RETIREMENT PROGRAMS

Over the last decade, agricultural policies have reflected a broadening of priorities to include concerns for environmental quality and market efficiency as well as farm income. This can be seen in changes in commodity programs that give farmers greater planting flexibility and provide greater incentives to respond to market prices rather than government support prices. Removal of market price distortions and planting restrictions can stem the overuse of chemicals and fertilizers on program crops and can encourage the adoption of environmentally beneficial crop rotations.

Concern for environmental quality is also reflected in government programs to idle cropland. These programs have been used since the 1930s both to control agricultural output and to achieve environmental goals. Program eligibility guidelines requiring the removal of Iand from production impose costs on society by reducing output, raising consumer prices, and distorting agricultural input markets. But idling certain tracts of land can also provide environmental benefits, for example by maintaining soil productivity through erosion control, reducing water pollution from sediment and chemical runoff, and increasing area for wildlife habitat. The net benefits of land retirement programs depend on whether they are designed primarily to control agricultural production or to protect the environment.

## Box 5-1.-Natural Resource Damages

In addition to authorizing the cleanup of contaminated sites, CERCLA provides authority for certain "trustees" (Federal agencies, State governments, and Indian tribes) to seek compensation on behalf of the public for damages to public natural resources and ecosystems caused by contamination with hazardous substances. The 1990 Oil Pollution Act provides similar authority to address damages from oil spills. The laws require trustees to restore, replace, or acquire the equivalent of the damaged or destroyed resources. Trustees must also obtain compensation for interim losses incurred by the public while recovery, restoration, or replacement is taking place.

Natural resources and ecosystems support recreation and commercial ventures (such as fisheries) and provide a variety of important ecological functions such as waste absorption and species habitat. Beyond these more or less tangible benefits, the very existence of natural areas can be a source of value for people. However, quantifying the economic value of natural re source damages can be challenging. Even where the physical effects on ecosystems (such as fish kills or beach contamination) can be measured with some precision, the corresponding loss of benefits to people may be much more uncertain. The EPA and the National Science Foundation are supporting a research program to improve our understanding of the value of ecological resources, as part of the Administration's larger effort to expand and strengthen environmental research. The Administration has also issued revised rules for assessing damages under the Oil Pollution Act. Under these rules, economic assessment would determine the scale of investment when direct comparisons are not possible between the damaged resources and the resources being provided to compensate for the damages.

The Department of Agriculture's annual acreage reduction programs (ARPs) have historically required farmers to set aside a portion of their assigned crop base acreage in order to receive direct government payments and other benefits. Current law, however, gives the Secretary of Agriculture limited discretion over how and when planting restrictions are imposed. In many years, over 10 percent of U.S. cropland has been idled under the ARPs. By limiting supply and raising market prices, ARPs reduce deficiency payments and shift the cost of farm income support from taxpayers to consumers. The use of acreage restrictions to limit supply can also cause overuse of other inputs. By raising prices, ARPs create incentives to farm the land remaining in production more intensively.

This can have unfortunate environmental consequences if more fertilizer and pesticide are applied to the remaining acreage.

The Conservation Reserve Program (CRP), established in 1985, allows farmers to enter into long-term land retirement contracts with the Agriculture Department. Farmers receive "rental payments" from the government for taking environmentally sensitive land out of production. The primary goal of the legislation was to reduce soil erosion and its adverse environmental consequences, although control of agricultural output was also a key objective at the time (about one-quarter of the land enrolled in CRP may not be highly erodible, although much of this land provides wildlife habitat and other environmental benefits). Landowners bid competitively for CRP contracts. Bid selection is based on the cost of the rental payments and on an environmental benefit index. Tracts of land receive an index score that indicates the potential environmental benefits of idling those acres.
Agricultural land idled under all Federal programs has declined considerably since the late 1980s, and the CRP has supplanted annual ARPs as the main land retirement program. The 1990 Farm Bill extended the CRP, placing greater emphasis on curbing water pollution and other environmental problems. It also established the Wetlands Reserve Program (WRP) to protect and restore wetlands through long-term and permanent easements. These targeted programs complement the conservation efforts of private land trusts (Box 5-2).
Recent Administration initiatives have continued to emphasize the goal of environmental protection over that of controlling agricultural supply. For the current Farm Bill the Administration recommended that ARPs be made a discretionary tool to be used only when supply and demand are critically out of balance. Eliminating annual ARPs could also reduce the costs of operating the CRP and the WRP if the annual set-aside programs bid up the price of agricultural land, making environmental easement contracts more costly to acquire. In 1995 the Department of Agriculture allowed the early release of over 683,000 acres from CRP contracts, using a new bid selection system to replace those acres with more environmentally sensitive cropland.

How costs and environmental benefits are weighed in ranking CRP bids also affects the geographic distribution of land enrolled in the program. Most CRP acreage is currently in the Great Plains, the Mountain States, and the Corn Belt. But as more recent signups have placed more weight on water quality and habitat protection, enrollment has shifted toward the Great Lakes States, with the Corn Belt also still accounting for a large share. If funding for the CRP is reduced, decisionmakers may face more difficult tradeoffs between targeting the program for greater environmental bene-
fit and maintaining income support for current beneficiaries. Research to estimate the economic value of environmental improvements from land retirement can provide better information on the nature of these tradeoffs.

## CREATING COST-EFFECTIVE POLICIES: ECONOMIC INCENTIVES FOR ENVIRONMENTAL PROTECTION

Policymakers can create and enhance economic incentives for protecting the environment in a number of ways. Laws that specify liability for environmental damages, such as those in the Superfund program, can create incentives for increased care before the fact. Economic theory also has long advocated the use of charges or fees that induce more sparing use of nonmarket environmental resources.

The use of tradeable allowances or harvest quota shares is another approach for limiting the use of environmental resources (in this case limiting pollution discharges) or the use of natural resources such as ocean fisheries that are subject to excessive exploitation. As described earlier, this approach sets a limit on total use of the resource (a limit on the total fish harvest or waste discharge) and nominal limits on individual users. Users can, however, exceed their nominal limit by purchasing allotments from others, who then use less than their allotments. The market price that emerges for the use of the resource creates incentives to limit that use, just as a user fee does. Unlike a fee, however, trading can be used without a revenue transfer from the private sector to the government. The ability to trade allotments helps to ensure a cost-effective outcome, since those who can comply with the constraint on total resource use most economically-that is, those with the most efficient harvesting operations or lowest pollution control costs-assume the greatest share of responsibility for meeting the limit. The approach also creates incentives to devise new technologies that lower compliance costs, since all participants would like to reduce their allowance purchases or increase their allowance sales. Finally, regulators can use their flexibility in the initial allotment of allowances or quota shares to treat distributional or equity concerns that may arise from the limit on resource use.
This section discusses several examples of the use of pollution trading or tradeable harvest quotas in practice. The discussion focuses on the use of emissions trading for air pollution control and tradeable fishing quotas for regulation of overfishing. However, the approach has a number of other potential applications. For example, the Administration's 1994 assessment of the Clean Water Act reauthorization estimated compliance cost savings of several hun-

## Box 5-2.-Land Trusts and the Tax System

Land trusts are private, voluntary, nonprofit conservation organizations that complement Federal and State programs by preserving 14 million acres of scenic areas, farmland, and wildlife habitat-more land than is held in State parks and recreation areas in the entire United States. Land trusts are established by national organizations such as the Nature Conservancy, the Conservation Fund, and the National Audubon Society as well as by groups at the local, State, and regional levels. Land is preserved through outright purchase, purchase of development easements, leases, and land management agreements.

Land acquired by land trusts is often purchased later by Federal resource management agencies. This acquisition sequence has several advantages. Local organizations may have better information about the environmental characteristics of particular tracts of land and more flexibility in conducting timely transactions with private landowners. Resale of land to the Federal Government, in turn, provides trusts with revenue to continue their preservation activities. Federal tax policy also affects land preservation activities. Land trusts try to acquire land through donations or below-market-value purchases, relying on incentives provided by the income, property, and estate tax codes to obtain properties or land use rights.

Federal interaction with land trusts raises two policy questions. First, do Federal agencies pay fair market value for land purchased from trusts? A recent report by the General Accounting Office suggests that they do. Second, should incentives for land preservation be altered directly through targeted programs such as the WRP, or more indirectly through changes in tax codes? Direct land retirement programs have some advantages over increases in broad-based tax incentives in their ability to target properties and set priorities for land preservation. For example, the WRP ranks easement bids according to cost, significance of ecological functions, and geographic location, among other criteria. In contrast, income or property tax credits or estate tax deferrals are available to all owners of eligible lands. Eligibility can be conditioned on providing environmental benefits, but the lands eligible for the tax incentive may not be the most ecologically desirable or cost-effective locations for such efforts. On the other hand, the greater budgetary visibility of direct programs may make them more difficult to sustain.
dred million to several billion dollars per year from expanded water pollution trading. EPA is developing a framework for expanded use of effluent trading. Expanded use of trading programs to protect wetlands and species habitats, provided they are ecologically sound, can also achieve regulatory goals while providing cost-reducing flexibility in the timing and location of protection efforts.

## AIR POLLUTION TRADING

Precursors of today's air pollution emissions trading programs were established in the 1970s. An example is the "offset" program, which allows new pollution sources in areas with poor air quality, provided they reduce other emissions sources in the area by more than their own emissions. Another example is the "bubble" program. This program subjects a group of individual sources in close proximity to a single common limit on total emissions, and allows the sources to trade emissions rather than comply with individual limits. Even though subject to numerous restrictions, these programs have delivered emission reductions at lower cost.
A more comprehensive approach to emissions trading was implemented in the national program that allows power plants to trade sulfur dioxide emissions (a precursor to acid rain) under the 1990 amendments to the Clean Air Act. This program, whose initial phase began in 1995, allows firms to save money by complying with performance standards rather than strict emissions controls requiring the use of specific technologies. The shift to performance standards makes possible a broader range of cost-effective compliance strategies, such as blending coals with different sulfur contents. This flexibility has also created competition among compliance options, lowering the costs of both fuel switching and removal of sulfur from stack exhausts. These benefits have been achieved even though the initial phase of the program has so far resulted in limited trading of allowances among firms. This phase requires only a limited number of plants to participate and sets sulfur dioxide standards that are less restrictive than standards in the second phase will be. Under these circumstances, electricity producers have been able to achieve the benefits of more flexible regulation without extensive reliance on allowance trading with other producers. In the second phase of the program, beginning in 2000, performance standards will be tighter and more plants will be involved. Consequently, emissions trading among firms seems likely to become more important.

Local and regional efforts along these lines are emerging as well. In 1994 Southern California implemented a regional emissions trading market for nitrogen oxides, which also cause acid rain and contribute to haze and ground-level ozone pollution. Known as the Regional Clean Air Incentives Market, or RECLAIM, the Southern

California program is broadly similar to the national market for sulfur dioxide emissions discussed above, but with some distinctive features. For example, the program sets limitations on the location of emissions that are traded, to help prevent "hot spots." The RECLAIM program for nitrogen oxides is part of a larger compliance strategy that seeks to lower total emissions in the region toward levels needed to achieve mandated air quality standards. Under such an approach, regulators can simultaneously improve the environment, enhance cost-effectiveness, and provide flexibility for economic growth in the region. Other areas (notably the Northeast) are in the process of developing their own nitrogen oxide trading programs.

Programs like the national sulfur dioxide allowance market and RECLAIM, which establish an aggregate emissions limit for a whole class of emitters, entail setup costs to establish allowable aggregate emissions limits, initial allocations of allowances, and trading rules. EPA has proposed an "open markets" system for trading of allowances for both nitrogen oxides and volatile hydrocarbon emissions in the absence of these elements. Under this approach, various types of emitters can participate in a variety of cost-reducing trades. For example, a paint shop switching to a lower volatility paint for 6 months could sell the short-term emissions reductions to a refinery with a temporary need to cover surplus emissions. A similar approach to bilateral trading could be an important complement to international efforts aimed at protecting the stratospheric ozone layer (Box 5-3).

Regulators face an important challenge in using the open market approach: how will Federal and State air quality regulators obtain adequate assurance that proposed emissions reductions are credible? EPA's proposal reflects several approaches. The agency's preferred approach is a "buyer beware" plan whereby the user of an open markets emission reduction credit ultimately is responsible for the quality and integrity of the credit. This approach provides maximum environmental security by giving buyers strong incentives to check the legitimacy of credits, but it could also deter buyers from participating in the market, since they would incur a liability if sellers fail to live up to their obligations. EPA has identified alternative liability arrangements, such as placing more liability on sellers (with a system of spot checks to detect inadequate performance) and using third-party verification through brokers, who would be able to absorb legal liability for the quality of credits and provide warranties to buyers.

## TRADEABLE FISHING QUOTAS

Overfishing-the consequence of unrestricted access to ocean fish stocks-has put heavy pressure on many of the world's fisheries.

## Box 5-3.-Protecting the Stratospheric Ozone Layer: An Incentives-Based Approach

Methyl bromide is a pesticide that is damaging to the stratospheric ozone layer which shields the earth from harmful ultraviolet radiation. Recent adjustments to the Montreal Protocol, the international treaty governing ozone layer protection, place the first global limits on methyl bromide. Industrial countries must phase out methyl bromide production and use by 2010, except for certain essential uses such as treatment of imports and exports (currently less than 10 percent of global use). Use by developing countries (currently about 20 percent of the world total) will be frozen in 2002, with additional controls to be negotiated in the next 2 years.
Interim reductions by industrial countries en route to a phaseout will also be required. By limiting the total quantity of methyl bromide available, rising methyl bromide prices will automatically and cost-effectively allocate the remaining supply to more highly valued uses. The signatories to the Montreal Protocol will review the expanded use of market-based measures for controlling methyl bromide. One option, an international trading system, could allow some countries to reduce their methyl bromide use more slowly, by purchasing allowances from countries that have reduced use ahead of schedule.

Current U.S. Iaw requires more stringent control on methyl bromide use than do the adjustments to the Montreal Protocol. The Clean Air Act bans, without exemption, all U.S. methyl bromide production and use by 2001. U.S. agricultural producers have expressed concern that they will be placed at a competitive disadvantage if other countries are allowed to continue methyl bromide use. The Administration supports legislative changes necessary to allow for continued methyl bromide use beyond 2001, in cases where alternatives do not exist, to safeguard U.S. agricultural competitiveness.

Without limits on access, anyone with the necessary skills and financing can enter the industry. The exercise of individual self-interest in this case leads to serious economic waste from excess entry and damage to the resource, since individual boat operators do not take into account the long-term consequences of depletion in their own harvesting decisions. Any unilateral exercise of forbearance simply expands the catch available to others.

Traditionally, fisheries management has attempted to cope with this problem through such measures as limited fishing seasons and restrictions on allowable gear. These efforts slow depletion of stocks in a costly manner by requiring the use of less efficient technology
and creating market gluts during the abbreviated fishing seasons. And in any event these efforts often are overwhelmed by technical advances in harvesting methods.
A promising alternative is the use of individually transferable quotas (ITQs). In a manner analogous to air pollution trading programs, ITQs operate by setting a limit on the total allowable harvest and creating tradeable rights to a share of the harvest. With trade in ITQs, the harvest is undertaken by the most efficient operators, and since the quota rights can be used at any time during the year, the harvest rate does not glut the market. The sale of ITQs also provides a temporary financial buffer for less efficient operators, who are induced to leave the industry as overcapitalization declines.

Several challenges must be addressed in establishing an ITQ program. These include determining the initial size of the quota, allocating the quotas, and addressing the effects of an ITQ for one fish species on others; setting up a monitoring program; and dealing with the plight of fishing communities whose residents might not remain competitive in the ITQ market.
ITQs are currently being used by two East Coast regional fishery management councils, on a larger scale in an Alaskan fishery, and in other countries. The effects of harvest limits and pressures to increase harvest efficiency are shown in the dedine of excess capital applied in the East Coast fisheries: the number of vessels has decreased by more than 50 percent. Similarly, in one application in British Columbia the decreased economic waste is indicated by an increase in the net overall economic return to the fishery of 65 percent.

## TECHNOLOGY DIFFUSION FOR POLLUTION CONTROL IN AGRICULTURE

Government can play a role in improving environmental quality not only by internalizing externalities, but also by correcting market failures in the provision of information. Improved production techniques and management practices can improve efficiency and cut waste and pollution, in effect substituting one clean input-in-formation-for other, polluting inputs. However, information has certain aspects of a public good-it is difficult for individual suppliers to restrict its use to those who have paid for it. As a result, private markets may undersupply information about environmentally beneficial technologies. Information problems can also constrain the adoption of new technologies by farmers. In such cases, the government may be able to improve efficiency by collecting and providing information about resource-conserving practices.
U.S. agricultural policy has a long tradition of emphasizing education, technical assistance, and subsidies to achieve economic and environmental goals. Technology transfer programs dating back to the 1930s have encouraged farmers to adopt soil conservation practices to maintain soil productivity through erosion control. The traditional extension and technology transfer system has increasingly emphasized technologies aimed at off-site environmental damages. Integrated pest management and conservation tillage are examples of the environmentally beneficial practices that have been promoted.
More recent programs have aimed at curbing water pollution from agriculture through provision of public information and financial incentives for farmers. Demonstration programs have been set up to encourage the adoption of best management practices (BMPs). An assumption underlying such voluntary environmental programs is that technological options can reduce both production costs and pollution. In theory, if these practices do reduce costs through more efficient use of water, fertilizer, and pesticides, demonstration programs will encourage their long-term adoption. Programs frequently include short-term subsidies to encourage initial adoption.

The adoption of BMPs has yielded some impressive results. For example, one study found that depending on field conditions, corn farmers in Nebraska who adopted soil nitrogen testing could reduce their use of fertilizer up to 25 percent with no loss in yields. In this case, the soil testing procedure substitutes information for chemical fertilizer applications. Moreover, farmers who participated in the Department of Agriculture's educational programs appeared to have made more effective use of nitrogen testing results than did nonparticipants.
Although the history of government programs to promote BMPs is still somewhat limited, useful lessons have already emerged. First, familiarity with new management practices has been found to encourage adoption, especially for BMPs that represent minor changes in current operations. Second, although profitability is a prime consideration in BMP adoption, it is not the only one. The belief that a BMP improves water quality has been found to be an important incentive for adoption, particularly in areas where agriculture has impaired ground water used for drinking. Third, significant regional differences exist in the perceived profitability and adoption rates of BMPs. Thus, no single set of practices may be widely adopted, and a decentralized approach may be needed to promote environmental technologies in agriculture. There may also be a role at the State level for research that tailors BMPs to local environmental conditions.

## CONCLUSION

Without regulation to protect health, safety, and the environment, the quality of life Americans enjoy would be significantly lower than it is today. At the same time, regulation and the regulatory process must keep pace with changes in knowledge, technology, the economy, and social priorities. Reinventing regulation to work more cost-effectively and to address the greatest needs is a crucial step down this path. The efforts made thus far to enhance the performance of environmental regulation illustrate how broad are the opportunities for improvement.

## CHAPTER 6

## Promoting Competition in Traditionally Regulated Industries

AT THE CENTER OF THE SUCCESS OF our economy is the market, and at the core of the success of the market is competition: it is competition that drives down costs and prices, induces firms to produce the goods consumers want, and spurs innovation and the expansion of new markets abroad.

In stark contrast to the gains from competition are the inefficiencies that result from monopoly. Monopolists typically set an artificially high price and restrict output, and often have weaker incentives to innovate than do competitive firms. The disadvantages of monopoly are sufficient to warrant government action to ensure competition or regulate the conduct of monopolies. Part of this Administration's commitment to strengthen the private sector involves ensuring that robust competition prevails where competition is possible, and guarding against the abuse of market power in those limited instances where it is not.

Powerful market forces, coupled with increased recognition of the costs of regulation, are strengthening the consensus to reform reguIation in order to promote competition in two of our country's major regulated industries: electric power and telecommunications. Regulatory policy needs to respond to the forces of change in these industries, and important reform initiatives are under way.
At the Federal level the Congress, with the Administration's support, has recently passed sweeping legislation to rewrite the Communications Act of 1934 and other rules governing competition in telecommunications services. The Federal Communications Commission, which helped foster competition in telephone equipment and long-distance service, is developing policies for the interconnection of telephone networks that will promote competition in local telephone service as well. And the Federal Energy Regulatory Commission is trying to ensure access to electric utilities' transmission lines for all power generators. Various States also are moving to promote competition in intrastate phone service and in electricity. The stakes are high. Electricity and telecommunications are critical elements of an economy's infrastructure, and in the United States each sector accounts for over $\$ 200$ billion in annual sales or, collectively, over $\$ 800$ per U.S. resident.

Regulatory reform enjoys broad support, but disagreement exists over how best to make the transition from regulated monopoly to competition, and over the role of government once that transition is complete. Although the debate is often couched in terms of "regulation" versus "deregulation," implying that deregulation by itself will encourage competition and thus efficiency and innovation, what is at issue is something far more subtle, namely, the form and nature of regulation, with profound effects on both efficiency and equity. It cannot be overemphasized that immediate blanket deregulation is not a panacea. Well-designed regulations and antitrust safeguards are likely to result, ultimately, in more competitive markets with more innovation than immediate deregulation could provide. Moreover, until competition develops, it is important to maintain safeguards to protect consumers and to prevent incumbent monopolists from stifling the growth of competition.

This chapter discusses the challenges facing regulatory and antitrust policies in the telecommunications (Box 6-1) and electric power (Box 6-2) industries. It begins by discussing the growing consensus for increased reliance on competition in traditionally regulated industries, then provides an overview of the main challenges to successful regulatory reform. The two subsequent sections elaborate on these challenges in the telephone industry, which accounts for most telecommunications revenues, and in the electric power industry.

## FROM REGULATED MONOPOLY TO COMPETITION

Public policy has historically taken two approaches to the problem of monopoly power: antitrust and regulation. The Congress passed the first antitrust law, the Sherman Act, in 1890. Antitrust policy seeks to encourage free market competition wherever possible by prohibiting parties from stifling competition through certain mergers, collusive practices, or unreasonable exclusion of competitors. Antitrust policy does not outlaw monopoly or monopoly prices, but instead seeks to prevent monopoly by promoting competition.

But the main policy approach in public utility industries like electricity, gas pipelines, and telephones has been regulation of private monopolies. (Some countries have tried government ownership as an alternative, but with few exceptions these have proven less effective than private ownership and regulation.) The first Federal law permitting regulation of monopoly, the Interstate Commerce Act, dates back to 1887.

Usually the stated reason for resorting to regulation of a monopoly rather than promoting competition through antitrust is that the industry in question is believed to be a natural monopoly-an in-

## Box 6-1.-The Telecommunications Industry

The boundaries of the telecommunications industry are not clearly defined. In the broadest sense, the industry spans the entire backbone of our information economy. Some divide the industry into three segments: "conduit" (including local and long-distance telephone service; cable television; wireless services; emerging services that combine data, voice, and image transmissions; and communications equipment); "content" (such as broadcast television and radio and cable programming); and "computers" (computer hardware and software, and computing and processing services). In this chapter, "telecommunications" generally refers to conduits, especially telephones, cable television, and wireless services.
Telephone service generated about $\$ 150$ billion in revenues in 1994, television and radio broadcasting almost $\$ 42$ billion, and cable television about $\$ 28$ billion. Cable television, although small compared with the telephone industry, is an important component of the telecommunications industry. Almost two-thirds of American households with televisions-more than 60 million households-subscribe to at least basic cable service, and the industry employs about 112,000 people.
The telecommunications equipment market includes a vast array of hardwares, from sophisticated equipment to facsimile machines to public pay phones. This market is growing rapidly: its sales of more than $\$ 63$ billion in 1994 are projected to rise to almost $\$ 100$ billion by 1997.
dustry in which product demand can be supplied most efficiently by a single firm. Natural monopolies arise mainly from large fixed costs relative to the size of the market: for example, the cost of running telephone or video cables to a home, or the cost of electric transmission lines. Such conditions create large economies of scale; that is, unit costs drop significantly with the volume of firm's output. In such cases the judgment may be made that competition is not workable and that the market is best served by a single monopoly firm that can fully exploit economies of scale but is prevented by price regulation from exercising monopoly power over customers.

The last 25 years have witnessed a sea change in attitudes toward regulating industries on grounds of natural monopoly. Economic studies have increasingly questioned the extent of economies of scale, challenging the view that many such industries are ubiquitous natural monopolies. More important, there has been a growing awareness of the major inefficiencies spawned by the regime of regulated monopoly.

## Box 6-2.-The Electric Power Industry

Four main types of electric utilities operate in the United States: investor-owned utilities, which are typically privately owned, regulated monopolies; non-Federal publicly owned utilities, which are nonprofit State and local government agencies established to serve their communities and nearby customers at cost; cooperative utilities, which are owned by and provide electricity to their members; and Federal power agencies, which are primarily electricity producers, wholesalers, and transmitters. Although only about 250 out of the 3,204 electric utilities nationwide in 1994 were investor-owned, they are by far the most economically significant group, earning almost 80 percent of all electricity revenues. Over 99 percent of investorowned utilities' revenues accrued to the 179 largest utilities.

Total electricity revenues in 1994 were $\$ 203$ billion, or about 3.2 percent of gross domestic product (GDP). Of that sum, residential users accounted for almost $\$ 85$ billion, commercial users for about $\$ 63$ billion, and industrial users for $\$ 48$ billion. The electric utility industry is one of the most capital-intensive in the United States; the 179 largest investor-owned utilities alone had almost $\$ 575$ billion in assets in 1994, amounting to almost 5 percent of the gross capital stock of all industries.

Competition typically offers important advantages over monopoly: it encourages innovation, which lowers costs and increases the variety of products available to consumers. And regulated monopolists generally have weaker incentives than unregulated monopolists to cut costs, to launch new products, and to respond to changing customer demands. In addition, there are administrative costs of regulation and, more important, the potential for losses due to protracted disputes between the regulated firm, customers, and regulators, which can cause long delays in adjusting prices or in authorizing new investments.

The bottom line is that competition need not be perfect for it to be preferable to regulated monopoly. The advantages of competition can easily outweigh the disadvantage of not fully exploiting economies of scale.

## ADAPTING REGULATION TO INCREASE COMPETITION

Although regulation has been the primary tool for addressing monopoly in infrastructure industries, these industries have also been subject to antitrust rules in some aspects of their operation, such as interconnection in the case of the telephone industry. Regulation and antitrust have had an uneasy coexistence, given their somewhat inconsistent thrusts: antitrust encourages competition
but for the most part does not attempt to control a firm's prices, investments, and technology choices, whereas regulation does attempt to control such decisions and often restricts entry into the industry as well, thereby reducing competition. The difficulties in reconciling these approaches, and the distortions that stem from regulating monopolies, have created growing support for moving toward a more integrated competition-cum-antitrust regime.

Regulatory reforms in the 1970s and 1980s demonstrated that largely unregulated competition yields more efficient performance in such traditionally regulated industries as air transport and trucking, natural gas production, and long-distance telephone service. More recently, technological advances have further increased the scope for competition in local telephone and cable service and in the electric power industry. Regulatory regimes should adapt to changing conditions, to help shrink the boundaries of the regulated sector and rely more on competition.

## Removing Legal Entry Barriers

The need for regulatory reform is nowhere more glaring than in telecommunications, with its blistering pace of technological change. Several technologies may in the future offer economical alternatives to today's local telephone network. Cable companies are experimenting with upgrading their existing lines to deliver telephone service. Wireless technologies now used mainly for mobile communications might also be used for ordinary telephone service if costs fall sufficiently. Fiberoptic lines, now used principally by companies that specialize in providing access to long-distance carriers, could be extended to homes and businesses. Mobile telephone service from low-orbiting satellites could eventually provide basic local service. Similarly, Iarge-scale competition to cable companies in delivering video services may come from various sources including satellites, wireless land-based technologies, or telephone companies upgrading their networks. Meanwhile the rapid technological change that is blurring industry boundaries in telecommunications is also leading to the emergence of hybrid services such as multimedia, which defy easy classification into traditional industry definitions.
With so much uncertainty about the shape of the communications networks of the future, and with significant potential for competition, the best course is to leave their evolution to be determined by the private sector. Policymakers should not attempt to prejudge the outcome by assuming that local telephone and cable service are natural monopolies best provided by regulated franchise monopolists. Attempts to preserve artificial industry lines for the sake of maintaining regulation under traditional monopoly franchises become arbitrary, futile, and counterproductive.

For many years, local telephone and cable monopolies were sheltered from competition by legal restrictions: States granted monopoly franchises to local phone companies, municipalities could grant monopoly cable franchises, and, with some exceptions, Federal law restricted phone companies' ability to offer cable service. During the past few years a broad consensus has arisen, both in the Congress and in the executive branch, that it is desirable to try to eliminate existing regulatory and artificial technical barriers to competition in these industries. A number of States have started to open up their local telephone markets to competition. The re cently passed telecommunications legislation requires immediate removal of all State and local laws and regulations that unduly prevent entry into telecommunications and cable services.

In electric power generation, the advent of smaller, more efficient gas-fueled generators, coupled with falling prices for natural gas, led to greatly reduced economies of scale. In addition, since the 1980s it has been demonstrated that independent generators can be successfully integrated into utility-owned transmission grids. These and other developments have prompted growing interest in further promoting competition in electricity generation. Although States now retain monopoly franchises for electric utilities virtually everywhere moves to relax legal barriers to competition are gathering steam. Many States are considering initiatives to permit some competition, and some, like California, have developed concrete proposals.

## Assigning Spectrum Licenses Through Auctions

A major step taken by this Administration to promote competition and market forces in telecommunications is the recent, highly successful use of auctions to assign certain licenses for use of the so-called "spectrum"-the range of electromagnetic wave frequencies used in wireless communications services, including radio and television broadcasting, paging, and mobile telephones. The huge sums of revenues raised in recent auctions have focused attention on budget and equity issues. Auctions for other parts of the spectrum, if appropriately designed, could raise billions of additional dollars. When the government does not auction off but simply assigns spectrum licenses for free, it is giving away public resources worth billions of dollars. But more than revenue is at stake. Auctions can help promote economic efficiency, by ensuring that spectrum is deployed in the highest-return uses, including emerging growth industries that entail innovative technologies and services.
Assigning spectrum efficiently has taken on increased urgency as the value of spectrum has risen with the growth of wireless technologies. Wireless technologies are among the most promising avenues for delivering new services and for eventually providing com-
petition to wireline local telephone and cable monopolies. The exciting potential of wireless technologies is evidenced by the rapid growth of cellular telephone systems (Chart 6-1) and of direct broadcast satellite television service, which since its inception in J une 1994 has already attracted almost 2.5 million subscribers.

Chart 6-1 Growth in the Cellular Communications Industry
The cellular telecommunications industry has grown dramatically, illustrating the market potential for wireless technologies in general.


Note: Data are for end of year, except 1995 are as of June 1995.
Source: Cellular Telecommunications Industry Association.

The Federal Communications Commission (FCC), charged with managing spectrum use by the private sector, traditionally assigned licenses without charge, using hearings to judge which applicants would best serve the public interest. These trial-like hearings resulted in large wasteful expenditures by applicants and long delays in assigning licenses. In 1981 the Congress authorized the FCC to use lotteries in certain cases. Lotteries reduced the delay in assigning licenses, and the ability of lottery winners to resell Iicenses allowed users that valued spectrum highly to try to obtain licenses in a secondary market. However, using the secondary market can entail inefficiently large transaction costs, especially in assembling suitable blocks of licenses. The lotteries also created windfall profits for lottery winners-windfalls that became transparent when certain lottery winners resold their licenses at huge profits.

To avoid such inefficiencies and windfall gains to a lucky few, economists have long urged the use of auctions to allocate scarce
public resources such as the spectrum. Spectrum auctions have also been advocated by the National Telecommunications and Information Administration (NTIA) of the Department of Commerce, the Council of Economic Advisers, and the FCC. In 1993 the Congress gave the FCC limited authority to use auctions in assigning spectrum licenses to provide services for which subscribers pay fees (in contrast to advertising-financed broadcasting), such as personal communication services (PCS; these are advanced mobile two-way voice and data communications services).
Designing good rules for PCS and other spectrum auctions presents novel and difficult problems. Bidders are often interested not in a single license but in suitable blocks of licenses, which makes the values of different licenses interdependent. Interdependence arises, for example, because aggregating licenses over adjoining regions allows a PCS device to use the same spectrum frequency over a wider area and makes boundary coordination easier. Interdependence can also arise because a bidder may be able to reconfigure its planned network to use a different set of frequencies as prices for some frequencies increase. Designing auction rules to help bidders cope with such interdependence in license values can both promote economic efficiency and bring in greater auction revenue.
To date, the FCC-in consultation with economists-has developed innovative auction rules and has conducted very successful auctions. F or example, in the largest auction to date, winners were able to assemble suitable aggregations of PCS licenses over frequency bands and regions, as needed to form efficient communications networks. The auctions have attracted participation by numerous entrepreneurial companies and promise to speed up the availability of innovative services to consumers. In the short time since their inauguration in July 1994, spectrum auctions have raised over $\$ 15$ billion for U.S. taxpayers.

## DEREGULATION IS NOT ENOUGH: CHALLENGES TO REGULATORY REFORM

Removing legal barriers to entry into traditional monopoly industries, although critical, is unlikely by itself to ensure the rapid development of competition or an efficient and equitable transition. To promote these and other goals, regulatory reform must address several difficult and important challenges, which are outlined below and discussed further in the later sections on the telephone and electric power industries.

## Promoting and Preserving Competition

Preventing regulated monopolists from distorting competition in related markets. A common and difficult problem arises in bringing competition to traditionally regulated industries when, whether for
jurisdictional or technological reasons, a vital "bottleneck" segment will continue for some time under the control of a regulated monopoly. For example, competition is envisaged in electric power generation, but for the time being transmission and distribution will remain regulated monopolies. Similarly, competition is expected to develop more slowly in certain elements of local telephone networks, notably the final set of wires to a customer's premises (the "local loop"), which will therefore remain regulated longer.

The difficulty posed by such a mixture of regulation and dereguIation is that a price-regulated bottleneck monopolist has strong incentives to provide its own affiliates in unregulated segments better access to the bottleneck than it offers to rivals. (This and related issues are explored further in the section on the telephone industry below.) Such discrimination can inefficiently exclude rivals from the potentially competitive segments, harming both the would-be rivals and consumers. Preventing such access discrimination (and cross-subsidization, which, as discussed later, also distorts competition) could be approached in alternative ways, all of which have certain limitations.
Relying solely on regulation to prevent the regulated monopolist from favoring its unregulated operations over rivals raises problems. Firms can devise many clever technological games to circumvent regulation, such as varying the quality of connections provided to competitors. An alternative approach is to separate the regulated and unregulated parts of a monopolist's business into different companies. This was done in the Department of Justice's landmark case that resulted in the 1982 consent decree and the 1984 breakup of the American Telephone and Telegraph Company (AT\&T, then the dominant U.S. telephone services provider). The seven regional Bell operating companies (RBOCs) created under the 1982 consent decree were allowed to offer regulated regional telephone service but were barred from the largely unregulated long-distance market.
Such forced structural separation helps promote level-playingfield competition in the unregulated markets, but it may sacrifice economies of scope-efficiencies in joint ownership and operation of related segments of an industry. How to prevent discrimination without unduly sacrificing economies of scope is a central challenge in assessing whether and under what safeguards the RBOCs should be permitted to offer long-distance service while they still dominate local telephone networks; and whether electric utilities should be allowed to sell unregulated power in competition with rivals while they still control the vital transmission grids.

Preventing monopolists from unreasonably denying interconnections. One way in which network monopolists can stifle competition is by denying potential competitors interconnection with their net-
works. The telephone industry exhibits strong positive network externalities-a user's benefit from the network increases greatly as additional users are connected. This feature marks an important distinction between telephones and, say, textiles. A new textile producer does not need much cooperation from other textile producers, but an entrant to local telephone service needs the incumbent's cooperation to let its customers communicate with the incumbent's customers. With its much larger customer base, the incumbent could hamper entry even by efficient entrants, by denying interconnection or by providing connections of poor quality or at an exorbitant price. Ensuring suitable and fairly priced interconnection may require government intervention.
Restricting mergers between likely potential competitors. Regulation must be forward looking: it must consider the market not only as it is today but also as it is likely to evolve. In most traditionally unregulated industries, it is actual competitors-the firms already present in a market-that largely determine the prospects for present and future competition. But in traditionally regulated monopolies, future competition must largely come from the outside. Mergers between regulated monopolists that are likely potential competitors therefore can significantly reduce the likelihood of future competition.

For this reason, the Administration opposes excessive loosening of restrictions on mergers and cross-ownership between cable and telephone companies in the same local area. Although there are technological challenges in using telephone wires to deliver video, and cable wires to deliver telephone service, cable and telephone companies nevertheless are likely potential competitors because both have wires to the home. Thus, consolidations among them could delay competition.
Antitrust enforcers could attempt to block such anticompetitive consolidations, but reviewing and challenging a potentially large number of transactions in different regions on a case-by-case basis would be quite costly. Maintaining clear prohibitions may be the better course as long as such mergers promise no significant economies, and as long as local cable and telephone companies remain among each other's most likely potential competitors.

## Improving the Regulation of Remaining Monopoly Segments

As noted earlier, although promoting competition is generally the preferred approach, some segments of telephone and electric utilities' operations will continue to be regulated for some time. In those segments it is important to devise better ways to regulate prices. Traditionally, utilities have been subject to cost-of-service regulation, under which prices are set to cover the regulated firm's costs plus a "fair rate of return" on capital. Such regulation, however, reduces incentives to innovate or to contain costs, because the
firm realizes essentially the same profits regardless of its efforts: success at cutting costs is penalized by reducing the allowed prices.

Performance-based regulation (PBR) loosens the link between the firm's controllable costs and its allowable price. For example, pure price-cap regulation places a ceiling on the firm's price at some initial level based on estimated cost, then lets the cap change only with conditions outside the firm's control, such as the rate of inflation. The firm then has an incentive to cut costs, because to do so increases its profit. On the other hand, the firm also has an incentive to cut costs by shading quality, and regulators must guard against such attempts. Recognizing that suitably designed PBR can often create better incentives than pure cost-based regulation, ultimately benefiting both the firm and consumers, many States are moving toward PBR in telephone service and in the transmission and distribution of electricity.

## Protecting Consumers and Investors During the Transition

Protecting consumers. When should an incumbent monopolist's prices be deregulated? Setting a fixed date reduces investors' uncertainty, but at the risk that competition may not have developed enough by that time to substitute for regulation in disciplining prices. For example, critics of rapid deregulation of cable television rates point out that substantial actual competition (not merely potential competition) is needed to discipline prices, and argue that the requisite competition will develop more slowly than proponents of quick deregulation assume. In electricity, many economists favor some temporary regulation of the prices that utilities can charge, even if reforms are instituted to make generation competitive, because it will take time to build new plants and reduce existing utilities' dominant share of generation assets.

A complicating factor in deregulating prices is that competition often develops faster for some customers than others, typically faster for large business customers than for residential users. It therefore may be appropriate to deregulate prices on a phased basis, starting with those customers for whom competition develops earliest. But if the utility has large (current or past) fixed costs that are common to all of its operations, which regulators allow to be recovered through regulated rates, it becomes important to ensure that deregulating one group's prices will not shift onto others an increased share of these common costs. One way to prevent this is to deregulate some prices, but on condition that the utility agrees not to raise prices to its remaining captive customers. Competition should increase overall benefits, not be used as a cover for cost shifting among customers.

Protecting investors. Nor should competition be a cover for unreasonably shifting costs from customers to utility investors. To meet their obligation to serve all customers in their monopoly franchise
areas, electric utilities have made costly investments in long-lived generating plant and other assets-with the regulators' implicit promise of a guaranteed return. Opening up utilities' traditional monopoly franchises to competition at a time when they have significant excess capacity would greatly reduce the value of such investments, and subject utilities to so called "stranded costs." As discussed further in the section on the electricity industry below, it is important to ensure that, in the transition to competition, utilities are not saddled with these stranded costs.

## Promoting Universal Service and Other Social Goals

Promoting universal service-reasonably priced access to essential services for all customers-has been a longstanding goal of regulators in both the telephone and the electric power industries. Traditionally this and other social goals (such as assisting certain disadvantaged customers and reducing environmental pollution) have been pursued by imposing obligations on and regulating the price structure of utilities.
These regulations, however, have spawned inefficiencies. Moving to competition and letting prices respond to market forces, so that they more accurately reflect true costs, are likely to reduce these inefficiencies and cut the cost to society of providing universal service by lowering overall costs and prices. But doing so may require devising alternative ways of funding service to those consumers who would not be able or willing to pay the prices that might emerge under competition.

## Reassessing J urisdictional Boundaries

In both the telephone and the electric power industries, State and Federal regulators share jurisdiction. This can lead to differing regulatory objectives and inconsistent policies. As is discussed in Chapter 4, a main advantage of decentralizing regulatory jurisdiction is to allow States the flexibility to pursue social and economic policies tailored to different local preferences and conditions. As markets become more competitive, the scope for pursuing such goals through regulation may decline, although the States will play a major role in ushering in an efficient and equitable transition to competition.

On the other hand, decentralizing regulation also has its drawbacks. Efficient networks in telecommunications and electricity often involve facilities used to serve several States, which can lead to inconsistent policies when such networks are regulated at the State level. Multiple State regulatory regimes also can increase firms' uncertainty and costs of compliance. For these and other reasons, jurisdictions such as the European Union have been moving to harmonize the regulation of network industries. As the United States attempts to increase competition in such industries, it too
will have to reassess what jurisdictional boundaries are most efficient. In any event, regulators must work across jurisdictional boundaries to foster cooperative and consistent public policy goals.

## PROMOTING COMPETITION IN TELEPHONE SERVICE

The 1984 breakup of AT\&T was a landmark event in fostering competition in parts of the U.S. telephone industry. As explained earlier, a regulated monopolist operating in related, unregulated markets has incentives to stifle competition in such markets. To prevent such behavior, the breakup aimed to separate local telephone service, which many viewed as a natural monopoly that would remain regulated, from manufacturing of telephone equipment and from long-distance service, which were viewed as potentially competitive and could eventually be deregulated. AT\&T retained its equipment manufacturing and long-distance service divisions. Seven new regional Bell operating companies inherited AT\&T's regulated local-service monopolies, each within its region, and were prohibited from entering the less regulated markets for equipment and long-distance service.

Today the long-distance market is relatively competitive, whereas local service remains largely a regulated monopoly, in most cases provided by the RBOCs (Box 6-3). The new telecommunications legislation aims to increase competition further in equipment manufacturing and long-distance service and allows the RBOCs back into these markets under certain conditions. The legislation also aims to introduce competition in local telephone service, by removing State barriers to entry and by requiring local telephone companies to grant entrants reasonable access to their networks. These legislative and related regulatory initiatives, together with technological advances discussed previously, promise to foster increased competition throughout the telephone industry.
The terms for allowing the RBOCs to enter long-distance service have been one of the most contentious issues in the debate over telecommunications reform and may have the greatest economic consequences. Telephone service is by far the largest telecommunications industry (see Box 6-1), and establishing appropriate conditions for allowing entry by the RBOCs into the other markets is critical to achieving the legislation's goals.

Allowing immediate, unrestricted entry by the RBOCs while they still control vital local telephone networks would have been unlikely to promote efficiency and consumer welfare in the way that unrestricted entry normally does. To clarify this point, the next part of this section explains the incentive-and the ability-of a priceregulated monopolist in local telephone service to distort com-

## Box 6-3.-The Structure of the U.S. Telephone Industry

The 1982 AT\&T consent decree distinguished "local" from "long-distance" service by dividing those parts of the country served by the Bell System into local access and transport areas (LATAs). Each RBOC's territory encompasses multiple LATAs, but an RBOC may provide service only within LATAs. For interLATA service it must use the facilities of long-distance carriers, also known as interexchange carriers. Local exchange carriers (LECs) are the companies that provide the wire to the home. There are many independent LECs, especially in rural areas, but LECs owned by the RBOCs account for about 75 percent of total LEC revenues.

Although competition has been growing in parts of the local network, notably in the provision of private lines connecting business customers directly to long-distance companies, the LECs still have virtual monopolies over local networks. They receive over 96 percent of all fees paid to access local networks. Their prices for local calls and for access to interexchange carriers are regulated by the States and the FCC.

In contrast, the long-distance market is largely unregulated and relatively competitive; several carriers provide national service (the three largest through their own facilities), and many more carriers provide regional service. Reflecting this competition, the FCC ruled in October 1995 that AT\&T should be reclassified as "non-dominant." Chart 6-2 provides a breakdown of revenues from local and long-distance service.
petition in related, unregulated markets such as long-distance service that are dependent on access to the monopolist's bottleneck facilities. We then analyze further the issues of RBOC entry into long-distance and of local competition. The final part of this section discusses the relation between increased competition and universal service.

## UNBUNDLING POTENTIALLY COMPETITIVE SERVICES FROM REGULATED MONOPOLY SERVICES

As noted above, traditional cost-of-service regulation sets prices so as to allow the regulated monopolist a "fair rate of return" on its investment. Under such regulation, a monopolist can gain from engaging in related businesses that are potentially competitive. As long as regulation is not too stringent, the more businesses the monopolist is engaged in, the more likely it is to successfully conceal profits from the regulators, because overstating costs slightly in many businesses is more likely to escape detection than overstating costs dramatically in a single monopoly business. Moreover, by ex-

Chart 6-2 Telephone Industry Revenues in 1994
Local exchange carriers (LECs) account for two-thirds of all telephone industry revenues when one includes the access fees paid by interexchange carriers (IXCs).


Note: Access fees are not double-counted as net IXC revenues. Some cellular revenue accrues to LECs.
Source: Federal Communications Commission.
cluding all rivals from potentially competitive businesses, the monopolist can prevent regulation of these segments from becoming more stringent: the exclusion of competitors denies regulators a signal of the true costs in those businesses.
To promote competition, regulators can mandate unbundlingthat is, they can require the firm to offer the monopoly service separately from other services, at a regulated price. But problems arise if, as is often the case, regulators allow the monopolist to offer the potentially competitive services at unregulated (or less tightly regulated) prices, on the theory that competition will keep these unregulated prices low. For example, a local telephone company's access charges to long-distance carriers might be regulated, but not its long-distance prices to consumers. Such partial regulation induces the monopolist to favor its unregulated affiliates over rivals in ways that are difficult for regulators to prevent. The motive of this favoritism may be largely to shift profits to unregulated affiliates, but the effect can be to stifle competition.
Cross-Subsidization and Discrimination in Bottleneck Access
One way that such profit shifting occurs is through misattribution of costs incurred by a firm's unregulated businesses to the regulated business. This is sometimes referred to as crosssubsidization. Under cost-based regulation, shifting costs to the regulated business allows the firm to argue for higher regulated
rates. In principle, cross-subsidization may be a problem whenever a regulated firm also operates in unregulated markets; but it is more likely to escape regulatory detection when the markets are related, since there is more scope for interaffiliate transactions and for mischaracterizing costs as common to both businesses.

Discrimination poses an even greater threat to competition. The monopolist controlling the price-regulated bottleneck facility may try to evade regulation through what is known as "tying." Suppose that customers seek to purchase an unregulated service, the provision of which hinges on access to the bottleneck service. The monopolist can then require, as a condition of access to the bottleneck, that customers also purchase from it the unregulated service at a high price. To implement such tying, the monopolist reduces competition in the unregulated market by discriminating against competitors in the technological and other nonprice terms it grants them for access to the bottleneck.

AT\&T's behavior before its breakup is consistent with these incentives. The monopoly local telephone service was a major customer of equipment and a vital input into long-distance service. AT\&T's prices for long-distance service and equipment were regulated more lightly than those for local service, creating incentives for AT\&T to favor its less regulated affiliates. Indeed, AT\&T's local affiliates were alleged to have paid its equipment affiliate Western Electric inflated prices for possibly inferior equipment. AT\&T is also alleged to have discriminated against long-distance rivals in various ways, including offering poorer connections to local networks and imposing unnecessary delays in honoring requests.

## Resulting Inefficiencies and Harm to Consumers

When it occurs, cross-subsidization inflates the reported cost of regulated services, leading to higher prices. For this reason regulators consistently try to keep the cost accounting of unregulated and regulated businesses as separate as possible. Prices of unregulated services-whose costs are underreported-could fall, but need not (for example, if underreporting involves fixed rather than variable costs). Even if prices do fall, they will be artificially below cost, and consumption of unregulated services will be inefficiently high. Also, sales may be diverted away from more efficient competitors in the unregulated markets, because the regulated firm attains an artificial advantage through the cross-subsidies.
Discrimination in access terms raises the prices of unregulated services, because the excluded competitors might have been more efficient, and because even equally efficient competitors could curb the monopolist's prices more effectively than can regulation alone. Consumers also are denied the variety and innovation that competitors might have offered. Finally, such potentially more efficient or innovative competitors are denied profit opportunities. These
losses resulting from discrimination can far exceed the gain to the regulated monopolist: the monopolist is willing to exclude a rival that would generate large benefits to consumers (say, by offering a superior alternative), as long as exclusion yields even a modest increase in its own profit.

## ENTRY BY THE REGIONAL OPERATING COMPANIES INTO LONG-DISTANCE

The Department of J ustice sought AT\&T's breakup, which separated the ownership of the regulated-monopoly local telephone service from other services, because it believed that regulation alone could not, without imposing undue burdens, prevent the many ways in which AT\&T could use its control of local telephone service to inefficiently favor its affiliates. (The J ustice Department and AT\&T at one point tried to negotiate a settlement without divestiture; the result was a draft consent decree which for its length and complexity became known as Quagmire II, or the Telephone Book decree.)

Maintaining the consent decree's prohibition of RBOC entry into other markets may forgo some economies of scope that could be realized therefrom, but it is likely to be more effective than regulation alone in curbing access discrimination by the RBOCs against competitors in these other markets. The new legislation attempts to achieve the best of both worlds, by linking the RBOCs' entry authority to the emergence of competition in their local marketscompetition that should reduce their control of local networks and ability to discriminate against competitors.

## Arguments in Favor of Entry: The Drawbacks of Separation

Consumers could well benefit from one-stop shopping for all their telephone needs; for example, an integrated provider could offer simplified calling plans. The RBOCs could provide such one-stop shopping if allowed into long-distance, although in principle this could be provided even without RBOC entry. For example, the new legislation requires all incumbent local telephone companies to sell local service to other companies at discounted wholesale prices. When authorized, long-distance or other companies could resell such local service together with long-distance and other services.
Some economists contend that RBOC entry into long-distance service is particularly important for lowering prices because the long-distance industry is far from perfectly competitive. Although there is some debate about how competitive the long-distance industry already is, the real issue is why entry would be more profitable for the RBOCs than for other firms. This could be the case either because the RBOCs could use such entry to circumvent local rate regulation (a "bad" reason), or because they have special cost advantages in offering long-distance service (a "good" reason).

A clear such cost advantage arises because any RBOC could link its existing networks to provide long-distance service at lower cost than could other entrants deploying entirely new facilities. Indeed, the separation between local area service and long-distance service (see Box 6-3) can be arbitrary and artificial: the boundaries of "local areas" at times do not track economic or technological realities. This highlights a general problem with using structural separation to prevent a regulated bottleneck monopolist from stifling competition in potentially competitive markets. Where to draw the boundaries depends on where the monopoly bottleneck lies, but the bottleneck can shift location as technology changes. For local telephone networks, most agree that the bottleneck includes the local loop, but experts disagree over whether it includes additional upstream elements such as switches. The issue of where the bottleneck lies is relevant also for policy toward promoting local competition.

## Arguments Against Entry: Preventing Access Discrimination

Combining local and long-distance service within a single firm is likely to offer some economies of scope, but such economies also existed at the time of AT\&T's breakup. The policy judgment then was that breakup was needed to protect competition in the potentially competitive segments, given the incentive and ability of local network monopolists to stifle it, and that the gains from competition would outweigh the loss of economies of scope. On many counts the breakup has succeeded: today the equipment and the long-distance markets are reasonably competitive. Opponents fear that if the RBOCs are allowed to reenter these markets before they face competition in their core local phone markets, regulation alone could not prevent them from inefficiently excluding competitors.
Long-distance service still hinges on access to local networks, which for now are still largely monopolies controlled by the RBOCs. Although cross-subsidization by the RBOCs from their regulated local phone service to their unregulated businesses may be less of a threat today, access discrimination against other providers of long-distance service and perhaps of central-office switching equipment remains a real concern.

Cross-subsidization may now be less of a threat because, in order to improve regulated firms' incentives, States are replacing pure cost-of-service regulation of local phone rates with performancebased regulation. Such regulation also reduces the regulated firm's incentives to cross-subsidize, because higher costs of the regulated business are not passed through as fully or as rapidly in higher regulated rates as under pure cost-of-service regulation. As added protection, the new legislation requires the RBOCs to manufacture equipment and provide long-distance service through separate sub-
sidiaries for some time, to help regulators detect cross-subsidization.

However, preventing RBOC discrimination against long-distance companies in access to local networks remains a thorny challenge. Performance-based regulation of local rates leaves intact incentives to discriminate against long-distance rivals, in order to raise prices in the unregulated long-distance market. Requiring long-distance service to be offered through a separate subsidiary does not eliminate discrimination incentives, because the subsidiary's profits accrue to common shareholders. Finally, regulators today may be more attuned to the dangers of discrimination, but preventing through regulation all avenues of technological discrimination in network access is still likely to be difficult.
Allowing the regulated RBOCs to provide unregulated long-distance service gives them incentives to discriminate against longdistance rivals. Allowing them to manufacture switches and other network equipment could enhance their ability to discriminate, by making it easier for them to retain proprietary control of important technical information needed to interface with long-distance and other unregulated services that rely on the network. If, as is likely, regulation alone cannot adequately curb such discrimination, then allowing the RBOCs to enter these other markets while they retain monopolies over local networks could reduce prices temporarily in those markets; but it could threaten rivals' long-run viability, raising the specter of ultimately reducing competition and causing higher prices and less innovation.

## Competitive Safeguards

Local competition can greatly help prevent access discrimination. It provides alternative ways of reaching some customers. It also offers regulators a useful yardstick for policing discrimination: claims that certain network services cannot be provided to competitors will ring hollow if a local network competitor finds no difficulty providing such services. Although competition is coming to local networks, the RBOCs' dominance is unlikely to disappear overnight even if regulatory entry barriers are relaxed. Potential entrants have encountered technological problems, for example, in delivering telephone service over cable lines. Wireless connections may eventually offer alternatives to the local loop for reaching a customer's premises, but those currently available are higher in cost, less secure, and of lower quality than wireline connections.
Since local competition is both critical to safeguarding competition in long-distance and related markets but is in a nascent stage, the new legislation not only imposes regulatory safeguards against discrimination and other abuses but, importantly, links the RBOCs' authority to enter these other markets to the emergence of local competition. In broad brush terms, the new legislation provides the
following process for authorizing RBOC entry into long-distance (i.e. interLATA) service. Such service, as well as the manufacturing of equipment, must be offered through a separate subsidiary. An RBOC may offer long-distance service immediately on enactment of the legislation in any State where it currently provides no local service. But an RBOC must receive FCC approval to offer service originating in any State where it does provide local service (and likely controls many local networks). FCC approval is granted only after the following requirements are met.

Within 6 months of the new law's enactment the FCC will formulate rules for interconnection and network unbundling, discussed further below, that all incumbent local exchange companies must follow in dealing with new local competitors. At a minimum, an RBOC must offer terms, including prices, which the State public utility commission certifies are consistent with the FCC rules. Moreover, if a new local competitor has requested interconnection from an RBOC, then before being eligible to offer long-distance service the RBOC must have fully implemented a binding interconnection agreement with the competitor. That agreement must satisfy the FCC rules; the competitor must use predominantly or exclusively its own facilities; and it must provide local exchange service to both business and residential customers in the State (pure access providers, for example, do not suffice). In short, the local competitor is intended to have a significant presence.
Because these requirements help promote local competition but do not guarantee its imminence or durability, the new legislation provides further safeguards. Before authorizing RBOC entry, the FCC must consult with the Department of J ustice regarding the likely competitive implications and give the Department's evaluation "substantial weight." This procedure offers an important safeguard, given the leading role that the Department's Antitrust Division has played in bringing competition to long-distance telephone service through the AT\&T breakup, and given its analytical expertise in competition matters. Finally, the FCC must determine that RBOC entry would be in the public interest. Preservation of competition requires that antitrust enforcers and regulators have the latitude to make judgments of this kind, because no mere checklist could hope to capture all the relevant contingencies.

## IMPLEMENTING LOCAL COMPETITION

As mentioned earlier, in order to foster local competition the new legislation would require existing local exchange companies to cooperate with entrants. Even a full facilities-based entrant (one that serves its customers entirely through its own physical facilities) would still require interconnection to the incumbent's network-to enable its customers to communicate with the incumbent's cus-
tomers, to let customers keep their telephone numbers if they switch to the entrant, and to access common signaling facilities and data bases. The new legislation requires incumbent carriers to provide such cooperation on reasonable terms.
Other entrants might lease some or all facilities from the incumbent. A reseller of local services would lease all network facilities in bulk but undertake all customer-related functions such as marketing and billing ("retailer" might therefore be a better term). It could offer to customers a package of local and other services such as interexchange service or cellular service. A partial facilitiesbased entrant would lease some elements and supply the rest itself; it might, for example, install its own switches but use the incumbent's local loops. Both types of entrants require unbundling of the local exchange carrier's integrated functions. A reseller would require unbundling of network functions from marketing and other customer-related functions. A partial facilities-based entrant would additionally require unbundling of some network functions. To accommodate such entrants, the new legislation requires incumbents to unbundle their networks and provide nondiscriminatory access to all the unbundled components.

Inevitably the new legislation provides only a framework and leaves such "details" as the pricing of interconnection and unbundled services to be determined later by the FCC and State regulatory commissions. But these details will be crucial. To stay in business, a reseller must be able to buy the local network services at a sufficient discount below retail rates, reflecting the fact that it undertakes costly retailing functions otherwise performed by the incumbent. (The new legislation requires incumbents to offer their services to resellers at wholesale rates, defined as retail rates less the costs avoided by incumbents.) If the discount is too small, even an efficient reseller will be unprofitable. A partial facilitiesbased entrant likewise needs reasonably priced access to the facilities it wishes to lease.

Determining the proper discount to resellers has already raised controversy, embroiling regulators in defining and measuring the costs a local phone company could avoid by delegating some retailing functions. In long-distance there is already an active market in capacity resale, as multiple owners of facilities compete to provide capacity. But until competition arrives in local networks, implementing resale of local service through mandated discounts will be difficult. Mandated unbundling of physical network elements, as opposed to just retailing functions as with resale, is likely to be even harder. There are many joint and common costs, network congestion is important in determining efficient prices, and unbundling certain elements may pose technical problems.

In short, introducing competition into local networks will be a complex process, requiring continued active involvement by State regulators, the FCC, the Justice Department, and possibly the courts. Nevertheless, by defining the broad rules and providing for active government involvement in implementing agreements and refereeing disputes, the new legislation holds the promise of stimulating ubiquitous, vigorous competition with potentially enormous benefits to businesses and

## REPLACING CROSS-SUBSIDIES AND PROMOTING UNIVERSAL SERVICE

A longstanding policy goal in the United States has been universal service: widespread access to telephone service at reasonable prices. Such a goal can be defended on narrow economic grounds because the benefits of having a telephone on one's premises accrue not only to the subscriber but also to others who might be interested in calling that subscriber. Encouraging telephone subscription by people who would not otherwise have a phone on their premises can therefore also benefit others. Support for universal service, however, is based also on broader social considerationsthat all members of a society should be entitled to a certain level of key services.

Where attaining universal service is thought to require government intervention, because without it prices would be deemed too high in certain regions or to certain customer groups, economists generally advocate the use of targeted, explicit subsidies, financed through broadly based taxes. Traditional regulatory policy has not taken this route. Instead, regulators have used the rate structure of regulated telephone monopolists to promote universal service and other goals. Many economists believe that this rate structure is inefficient and incompatible with a move toward increased competition in telephone service.

The new legislation requires the formation of a Federal-State J oint Board, representing regulators and consumers, to thoroughly review the existing system of Federal support for universal service and recommend reforms within 9 months of the law's enactment. Within 15 months of enactment, the FCC is to establish a specific timetable for implementation of reforms. This envisaged reform for the most part promises to better harmonize the goals of promoting competition and universal service.

## Cross-Subsidies and the Tension with Competition

Cross-subsidization arises when the price in one market does not cover the incremental cost of serving that market, and the deficit is financed by charging a price significantly above incremental cost in another market. The different markets can be for different products (e.g., long-distance versus local calls) or different identifiable
customer groups (e.g., residential versus business customers of local calls). As discussed earlier, cross-subsidies can arise from attempts by a regulated monopolist to evade cost-based regulation by misattributing costs of its unregulated business to the regulated business. But cross-subsidies also can be mandated by regulators.

For many years regulators, with the support of the Congress, used cross-subsidies between regulated monopolists to pursue universal service goals. Through a complicated nationwide pooling of telephone costs and revenues, local telephone companies, especially in high-cost rural areas, received substantial subsidies to keep their rates low. The subsidies were financed by setting prices of long-distance calls and of telephone equipment artificially high. In addition, long-distance rates were set by geographic averaging: rates for routes of the same distance were set equal despite different traffic densities and therefore different costs. There may also have been subsidies from business to residential customers generally.
This system was administered by AT\&T, whose affiliate companies provided most local telephone service nationwide and virtually all long-distance service. The system came under strain once AT\&T's virtual monopoly began to erode. The growth of competition in supplying customer premises equipment (such as telephone sets) in the 1970s and later in long-distance service reduced the funds available for cross-subsidies. In response, after the breakup of AT\&T the FCC introduced fixed monthly fees for all telephone subscribers, reducing the need for subsidies; the FCC and State regulators also instituted explicit access fees for all long-distance carriers originating and terminating calls on local carriers' networks. These access fees are still used to finance subsidies to rural carriers.

The inflated access fees, however, prompted large long-distance customers to bypass the local exchange and instead use private lines to connect their premises directly to an interexchange carrier. Such bypass again threatens the revenue used to cross-subsidize other services. Some local telephone companies have also alleged that revenue from high-volume local business customers cross-subsidizes basic local service to residential customers, so that permitting entry into local service also will threaten cross-subsidies: entrants will siphon off lucrative business customers and reduce the revenue available for subsidizing rates to other customers.

Universal service and other social goals that may be threatened by competition can be pursued through diametrically different approaches, as discussed below. One is to try to maintain a broad monopoly charged with meeting these social objectives, by legally prohibiting entry or by requiring all entrants to make substantial contributions to cover the incumbent's cost of providing below-cost
services. The other is to permit widespread competition and develop alternative, market-based ways of funding legitimate social goals.
J oint Costs, Natural Monopoly, and Cream Skimming
Defenders of retaining monopoly might paint the following picture of local telephone service. Serving the different markets-be they different customers or different services-is largely a natural monopoly, because it entails large fixed and common costs. The markets are therefore most efficiently served by a single firm, but to cover the fixed costs, prices in some or all markets will have to exceed the incremental costs of serving those markets. Entry could then be profitable but economically inefficient, because an entrant could engage in cream skimming-targeting only the monopolist's more lucrative markets where the gap between prices and incremental costs is greatest, thus saddling other groups with a higher proportion of the common costs.

Charging different price-cost margins, which are vulnerable to cream skimming, can be efficient if demands in different markets exhibit different degrees of price sensitivity. The fixed costs are then best covered by charging higher margins where demands are less price-sensitive, as this pricing pattern minimizes the inefficiency from reduced consumption due to prices that exceed marginal costs (economists call this "Ramsey pricing"). For example, if demand for local service were less price-sensitive than demand for long-distance service, it might make sense to charge higher margins for local calls to finance the common costs, such as for wires to the home, entailed in providing local and long-distance service.

## Distortions in the Current System

If the view of the industry just outlined-as a ubiquitous, multimarket natural monopoly that is pricing efficiently to recover common costs but is vulnerable to cream-skimming entry-were accurate, policymakers would face a tradeoff: restricting entry would better allow exploitation of scale and scope economies, but would deny the benefits of competition and impose regulatory costs. Many economists, however, challenge this portrait of the local telephone service industry. They are skeptical about characterizing too many costs as "fixed and common" and the industry as a ubiquitous natural monopoly. Moreover, to the extent there do exist fixed and common costs, current regulated prices do not recover such costs efficiently. Rather, the current price structure sends wrong signals about the true costs, thereby distorting the decisions of entrants and consumers.

Distorted entry decisions. Access fees charged by local network operators to long-distance companies far exceed marginal costs. These high fees cross-subsidize service in rural areas and perhaps
basic local service nationwide, which may be priced below its marginal cost. Such pricing can distort entry decisions in two ways: artificially high prices can encourage inefficient entry, and artificially low prices can discourage efficient entry.

Regarding possibly inefficient entry, inflated access fees may have provided an artificial stimulus to the growth of so-called competitive access providers: companies that bypass local networks and link businesses directly to long-distance companies. Regarding the discouragement of efficient entry, there may be greater potential for competition in local services than is currently evident. Artificially low prices for the subsidized incumbent's services (such as to rural areas) can make it unprofitable for entrants to compete for providing such services, even if the entrants are more efficient. This comes about because under the current system only incumbents are eligible for certain subsidies.

Distorted consumer decisions. The current rate structure also distorts consumer decisions. High long-distance rates subsidize telephone subscription but discourage calling; raising the fixed charge for telephone subscription and reducing the prices for calls would stimulate calling. The benefits from lower toll rates and expanded calling would make many consumers better off even after paying higher fixed charges. Cross-subsidies from long-distance to local service are sometimes defended on the grounds that low-income individuals use local service relatively intensively, but the correlation between income and long-distance versus local calling may not be strong, and some studies have indicated that high toll bills often lead to low-income subscribers being disconnected for nonpayment. Better ways can be found to assist those with low incomes.
Lack of transparency. A vital ingredient of any sound economic policy is to make costs and objectives explicit and transparent. The goals and methods of telephone cross-subsidies are now opaque; as a result, the true extent of cross-subsidies needed to ensure universal service or other legitimate social goals remains unclear. In some cases, cross-subsidies may instead reflect regulatory capture-some groups may simply be more adept than others at manipulating the regulatory process so as to procure subsidies for themselves. Competition is likely to reduce the cost to society of providing universal service by lowering costs and most prices and by introducing new technologies. It may well reveal that most people would have affordable access to basic telecommunications services even without subsidies.

## Challenges for Reform

The rapid changes in technology and the accompanying changes in regulation described earlier imply that protecting universal service by maintaining regulated monopolies is likely to become both increasingly inefficient and untenable. Many economists favor giv-
ing competition freer rein and letting prices adjust to better reflect true costs. Any legitimate social goals served by the current regulated price structure should be addressed through other means that are more transparent, more targeted to explicit goals, and do not distort competition. A strong collaborative effort between Federal and State regulators should be established in pursuit of these goals.

What should be included in universal service? For many years there was only one basic service to be universalized or not: a telephone was a telephone. Today, however, telephone and other telecommunications networks are evolving to permit a much broader range of enhanced services. As conditions change, it will be important to review, perhaps on an evolving basis, the range of services targeted for universal service and to be clear about what is meant by "sufficiently affordable" prices.

Increasingly, we have realized the potential of modern communications to affect other aspects of life, from health (via telemedicine) to education. Access to computers and the Internet can put at the instantaneous disposal of every child in America resources superior to those available in even the best schools only a couple of decades ago. This Administration, through the National Telecommunications and Information Administration, has been striving to ensure that all Americans have access to advanced information services, for example, through public institutions such as schools and libraries. The new legislation includes the provision of such access as a core principle to guide universal-service reform.

Who should be eligible for support? For example, should all rural residents be eligible or only low-income consumers wherever they reside? And how much should prices be allowed to vary so as to reflect differences in the cost of providing service? Another reform principle adopted by the new legislation is that all consumers should have access to telecommunications and information services that are "reasonably comparable" in quality, variety, and rates to those available in urban areas. It goes further, however, with regard to interexchange and interstate telecommunications services (which include, at a minimum, telephone service), by requiring the rates charged to residential subscribers in rural areas to be "no higher" than those charged in urban areas. Many economists would hesitate to recommend such a stringent requirement.

How should universal service be funded? Once the goals have been clearly identified, funding mechanisms should be devised that do not distort competition. At present, subsidies to serve ostensibly unprofitable markets are not offered to all comers on an equal footing but are largely reserved for incumbent monopolists and financed through surcharges on long-distance and other services. AIternative financing methods would be less distorting and more
compatible with competition. An example might be a universal service fund, financed by charges levied on all telecommunications carriers, or even more broadly. All eligible consumers could draw on the fund, to help them pay for the provider of their choice. Alternatively, the right to provide subsidized service to a designated group could be allocated through competitive bidding among all qualified potential providers.
In the absence of explicit mechanisms to fund universal service or other social goals, regulators might feel compelled to meet such goals by imposing obligations on entrants. Such obligations could easily stifle competition. For example, regulators might be led to require entrants to offer a configuration of services, regional coverage, and rate structure very similar to that of the incumbent local monopolist. But entry is more likely to occur and to be more valuable if entrants have flexibility in choosing their technologies and mix of services to best exploit their comparative advantage. Revamping the funding of universal service therefore is an integral part of a successful move toward increased competition in telephone service. Consistent with this goal, the principles in the new legislation call for making support mechanisms explicit and predictable; requiring all providers of telecommunications services to make nondiscriminatory support contributions; and making all interested carriers eligible for support to provide service in designated areas, with the exception of any area served by a rural telephone company.

## PROMOTING COMPETITION IN ELECTRICITY

The Nation's major electric utilities have historically been vertically integrated, engaged in both the generation and the delivery of electricity. Delivery is over high-voltage transmission lines from generators to substations, and from there over local distribution lines to users. The Federal Energy Regulatory Commission (FERC) regulates interstate transmission services and interstate wholesale power transactions (sales to utilities for resale), whereas the States regulate their investor-owned utilities' retail sales. In the past the supply of electricity within a given geographic area was seen as a natural monopoly, and State public utility commissions awarded utilities exclusive franchise areas. They required utilities to serve all consumers in their franchise areas at regulated, bundled rates, covering generation and delivery, based on cost of service.

A major crack in the vertically integrated structure of the industry came with the Public Utilities Regulatory Policy Act (PURPA) of 1978, which required utilities to buy power from nonutility generating companies that employed renewable energy sources or cogeneration (co-generation uses steam both to generate power and
to heat adjoining buildings). Although its primary goals were to reduce dependence on imported oil and encourage renewable energy sources, PURPA played a major role in promoting competition in power generation. By giving rise to a class of nonutility generating firms, PURPA created momentum for efforts to unbundle generation from delivery. Moreover, experience with PURPA demonstrated that independents could build generators on time and on budget and could be reliably integrated into the transmission grid, subject to utilities' control. Nonutility generating firms have grown rapidly since PURPA's enactment. Their share of nationwide generating capacity has doubled from 3.6 percent in 1987 to 7.2 percent in 1995; since 1990 they have contributed over half of all new investment in generating plant.
An obvious reason for some independents' growth is obligations imposed on utilities to purchase power from PURPA-qualifying facilities. Although PURPA required purchases at prices that were supposed to reflect utilities' expected costs were they to supply power from their own sources, regulators in a few States calculated these prices in ways that led to artificially high purchase prices. But technological change also played a major role in the growth of independents. The advent of small, efficient, natural gas-fueled generators, coupled with falling gas prices, drastically reduced the capital cost and minimum efficient scale of generating plants, making it easier for independents to finance plants (because of shorter construction lags and lower financing needs) and to build plants under contract to serve a particular utility. Market innovations in the financing of power plant construction by independents also were important.

Asymmetrical regulatory treatment also contributed to the independents' growth. Independents had stronger incentives than utilities to cut costs, because only they were exempt from cost-based regulation. The Energy Policy Act of 1992 expanded this exemption to a broader class of independents than PURPA had covered, allowing such independents to enter the wholesale power market, where they could sell power to utilities at unregulated market rates (unlike PURPA, however, the 1992 Act did not oblige utilities to purchase from the independents). In addition, some utilities may have refrained from building their own plants, fearing that regulators would later reject some of the costs when it came to resetting their rates. And regulators in some States required utilities to look first elsewhere, to nonutility generating firms or to other utilities with excess capacity, to supply their incremental generating capacity needs before building more plants themselves. In this the regulators' intent was to foster competition, as part of an effort to curb the rise in electricity prices following the oil shocks of the 1970s.

These changes expanded wholesale competition among generating firms to sell power to utilities. Pressure is growing to allow retail competition as well: for generating companies or utilities to sell directly to final customers in the franchise area of a different utility, paying regulated rates to use the utilities' existing transmission and distribution lines. This pressure comes mainly from large customers, who, among other things, can credibly threaten to bypass their local utility by generating their own electricity using small natural gas plants, or through municipalization (discussed later in this section). Promoting increased wholesale competition and introducing retail competition present three major challenges, which are discussed below.

## UNBUNDLING GENERATION FROM TRANSMISSION AND DISTRIBUTION

To deliver power to final consumers, generating firms require access to the transmission and distribution facilities that utilities own and operate. These facilities appear to be natural monopolies, likely to remain subject to price regulation. This gives rise to a bynow familiar problem: if utilities are also permitted to generate their own power and sell it at unregulated rates, they will have an incentive to evade regulation by favoring their own generators and realizing profits through unregulated power sales. Such favoritism could involve cross-subsidizing the unregulated power generation business from the regulated transmission and distribution business or, more important, discriminating against outside generators in providing access to transmission and distribution networks.

If there were no significant economies of scope between generation and other functions, an obvious way to prevent discrimination would be to require separate ownership of regulated transmission and distribution assets and of unregulated generation assets. However, as discussed below, transmission and generation may be subject to important economies of scope. The challenge to policymakers and market participants is to devise solutions that balance potentially conflicting goals: preventing access discrimination, but without comprising the reliability of electricity supply, sacrificing economies of scope, or imposing excessive regulation.

The technological relationship between the generation and transmission of electricity is more complex than that between production and transportation in most other industries. Modern alternatingcurrent transmission networks require tight and rapid balancing between power generated into and power withdrawn from the transmission grid. Storing electricity in significant volumes is generally impractical, and failure to balance power inflows and outflows can result within seconds in serious deterioration of system operation and widespread damage to equipment. The system is
much less tolerant than, say, gas pipelines, which can accommodate imbalances for longer periods through external storage and by changing the degree of gas compression within the pipelines. Moreover, electricity flows cannot be easily routed within an integrated transmission network; rather, power flows automatically and instantaneously along the path of least impedance. Imbalances at one point on the grid therefore can have widespread and unpredictable consequences throughout the network.
Although network operations are largely computerized, unforeseen contingencies can require central intervention by the grid operator: transmission constraints may result from unforeseen demand surges or equipment failures, requiring some generating sets to be unexpectedly dispatched and others turned off. In addition, there are common costs in operating a transmission network, such as maintenance of reserves, and charging individual generators for such costs requires a central authority. Operating such a complex system therefore requires the grid operator to have substantial control over at least some generating assets, and over some network functions that entail common costs.
Until now such complications have been addressed within the context of a vertically integrated industry, and through regional power pools and other voluntary associations. However, moving to a more competitive regime may require devising alternative institutions. Vertical integration opens the possibility that utilities would use their control of transmission to discriminate in favor of their own generating plant. And, as explained below, reliance on voluntary cooperation to resolve regional transmission issues may be more difficult in a competitive environment.
The FERC has addressed the issue of expanding transmission access by requiring utilities situated between one utility seeking to purchase power and another utility or independent power producer seeking to sell power to allow use of their transmission lines to complete the sale. At first efforts to expand access were episodic; for instance, approvals of utilities' merger requests were made contingent on their granting transmission access. The 1992 Energy Policy Act explicitly authorized the FERC to require wholesale transmission access upon request. The FERC is in the midst of an important rulemaking to establish a comprehensive framework for implementing open, nondiscriminatory wholesale transmission access: a utility would have to grant access to outsiders seeking to consummate wholesale transactions on the same terms as to its own generating facilities.

Important as these initiatives are, some observers believe that more will have to be done. Defining and policing against discriminatory access may be difficult when an integrated utility runs the grid. In addition, increased competition will strain the current sys-
tem of informal coordination between utilities, each operating transmission facilities that are connected into regional grids. Connecting such systems offers important advantages: it provides alternative transmission paths and economizes on redundant facilities, and it facilitates power sales to resolve temporary local imbalances between supply and demand or to benefit from differences in the cost of power over a wider region. Such informal coordination worked reasonably well in an era when utilities had exclusive franchises, but may become increasingly frayed in a competitive environment.
To address these concerns, some observers have proposed, and California regulators have recently endorsed, the formation of an "independent system operator." Investor-owned utilities and independent nonpublic generating companies would bid competitively to sell power into a regional grid. Utilities would retain ownership of transmission facilities but would turn over their operation under contract to an independent entity, which would manage the system on a regional basis. The operator would have authority over decisions such as how to respond to unforeseen contingencies and, under FERC oversight, how to price certain network services and allocate certain common costs. Although promising, this model also raises some questions. Can an operator be truly independent of utilities while they retain ownership of transmission and distribution? And will such a system cope well with coordinating investments in transmission and generation, given that different generating firms that rely on the grid can often have diverging interests?

In short, moving toward a more competitive market in electric power generation will require innovations in both regulation and market institutions. Maximizing the benefits from competition will also require implementing pricing policies that more accurately reflect transmission congestion and the costs of generation at different times (peak and off-peak). Finally, the gains from increased competition beyond those already being realized from today's wholesale competition may be modest in the short run, because much of utilities' expenses are associated with past investments, and with fuel expenses, which cannot be greatly reduced.

Nevertheless, some efficiency gains could materialize even in the short run: from increased utilization of excess capacity, from superior operation and maintenance of existing plants, and from boosting labor productivity. In the longer run the gains may be greater, since generation accounts for about half of the cost of electricity to the end user, and increased reliance on competition rather than regulation could allow both better operating decisions and better investment decisions regarding the amount, mix, and speed of construction of new plant.

## STRANDED COSTS

Allowing competition would put pressure on utilities' prices and customer base, threatening to create stranded costs. Stranded costs are those unamortized costs of prior investments that are scheduled for recovery through regulated monopoly rates but would not be recovered under competition. Stranded costs for the industry as a whole have been estimated at $\$ 135$ billion-well over half the total equity value of all investor-owned utilities. Many of the vulnerable utilities are concentrated in California, New York, New England, Pennsylvania, and Texas (Chart 6-3 provides a breakdown by region). Many of these utilities would be threatened with bankruptcy if unfettered wholesale and, especially, retail competition were allowed without providing utilities assistance in covering stranded costs.

Chart 6-3 Potentially Stranded Costs of Investor-Owned Electric Utilities by Region Northeastern electric utilities have the highest potentially stranded costs, both in dollars and as a percent of equity.


Note: Data are estimated present values of total costs minus revenues from 1996 through 2005, assuming a move to competition. Some utilities located in Texas are included in the "Southwest," and not in the "Texas" category. Source: Moody's Investors Service.

One source of stranded costs is past investments that turned out differently than expected. In some cases nuclear power proved more expensive than projected, and gas prices much lower; therefore some investments in nuclear generators led to higher generating costs than those of modern gas-based plants at today's gas prices. Second, in many regions utilities overestimated power demand, leading them to build excess generating capacity. If this capacity were fully used under the pressure of competition, it would
drive the price of power down to the short-run marginal cost, and thus well below average cost (which includes sunk capital costs). Although such pricing promotes short-run efficiency, it would impose large losses on some utilities. Finally, stranded costs also arise from regulatory obligations imposed on some utilities but not on other suppliers, including requirements to buy power from PURPA-qualifying facilities at prices above today's market prices, to invest in pollution control equipment, and to fund demand conservation programs.
In unregulated markets the possibility of stranded costs typically does not raise an issue for public policy-it is simply one of the risks of doing business. However, there is an important difference between regulated and unregulated markets. Unregulated firms bear the risk of stranded costs but are entitled to high profits if things go unexpectedly well. In contrast, utilities have been limited to regulated rates, intended to yield no more an a fair return on their investments. If competition were unexpectedly allowed, utilities would be exposed to low returns without having had the chance to reap the full expected returns in good times, thus denying them the return promised to induce the initial investment. A strong case therefore can be made for allowing utilities to recover stranded costs where these costs arise from after-thefact mistakes or changes in regulatory philosophy toward competition, as long as the investments were initially authorized by regulators.

The case for allowing recovery is even stronger where stranded costs arise from regulatory obligations imposed on utilities. Several States, notably California, required utilities to purchase power from qualifying facilities under PURPA at long-term contract prices based on high estimates of future oil and gas prices, even after utilities resisted purchasing all the capacity offered at the high prices. Utilities also were required to fit coal-fired generators with costly pollution control equipment, again with the expectation that costs would be recovered through regulated rates. Utilities should be allowed to recover such costs mandated by regulation.
To be sure, utilities should be granted recovery only of costs prudently incurred pursuant to legal and regulatory obligations to serve the public. Investments made after utilities are notified that competition is coming and are relieved of their obligation to serve should not qualify; and utilities must try to mitigate their losses. But recovery should be allowed for legitimate stranded costs. The equity reason for doing so is clear, but there is also a strong efficiency reason for honoring regulators' promises. Credible government is key to a successful market economy, because it is so important for encouraging long-term investments. Although policy reforms inevitably impose losses on some holders of existing assets, good policy tries to mitigate such losses for investments made
based on earlier rules, for instance, by grandfathering certain investments when laws and regulations change.
Because stranded costs are sunk, economic reasoning suggests that they should be recovered through mechanisms that do not artificially reduce power consumption. One possibility is a charge levied on transmission, but as a fixed fee rather than a marginal charge: customers would be required to pay specified amounts, based perhaps on their past consumption, regardless of their future use of electricity.
Since stranded costs reflect policy decisions, recovery should be borne broadly by all parties on whose behalf the stranded costs were incurred, including customers that switch to other suppliers. Consistent with this principle, the FERC proposed that wholesale customers departing a utility be assessed a contribution toward stranded costs. Although the FERC proposal would directly apply to stranded costs resulting only from increased wholesale competition, it could also serve as a model for States contemplating retail competition, and serve as the FERC approach to recovering stranded costs resulting from retail competition in the unlikely event that the State lacked authority to address the issue.

Most State discussions of initiatives to foster retail competition in fact have included, as an integral part, mechanisms to recover stranded costs. But some retail customers threaten to bypass this process, for example, by resorting to "municipalization." A municipal utility within the franchise area of an investor-owned utility may generate none or only some of its required power, and as a power reseller it qualifies for FERC-mandated wholesaler access to outside suppliers. Although municipal utilities typically serve legitimate functions, they might at times provide a loophole for avoiding fair sharing of stranded costs. A municipality might extend its boundaries to encompass the premises of a large industrial customer served by the investor-owned utility; that customer becomes eligible to buy power from outside suppliers, using the municipal utility as conduit. Such actions raise important issues of equity and cost-shifting, both for the local utility and for other customers in its franchise area that may be stuck with a larger share of stranded costs. The FERC has stated that municipalization should not be a vehicle to escape responsibility for stranded costs.

## COMPETITIVE PARITY, UNIVERSAL SERVICE, AND ENVIRONMENTAL PROTECTION

For competition to work well, it must take place on a level playing field: competition will be distorted if producers are given selective privileges, or subjected to selective obligations imposed to further even legitimate social goals. This principle raises several issues as we move toward increased competition.

As competition grows, increasing distortions may result from some entities having access to special privileges such as federally tax-exempt bonds or other preferential treatment. Accordingly, reexamining special privileges of various entities may become more important.

On the other hand, producers should not be subjected to selective obligations. New ways must be found, as in the telephone industry, to address universal service, assist low-income consumers, and meet other social goals currently addressed through obligations on regulated monopoly utilities. Continuing to impose such requirements only on some producers would place them at a competitive disadvantage and imperil their ability to meet these obligations. Accordingly, these obligations would be better financed through more broadly based mechanisms.

Increased competition in electricity can also affect the environment. To reap the advantages of more efficient electricity markets and a cleaner environment, environmental policy will need to re spond to any risks that restructuring may pose for environmental quality. But policy toward restructuring should also recognize those risks and, where possible, facilitate appropriate responses. For example, the burden of funding renewable energy sources or energy conservation programs to reduce pollution should be shared broadly , not placed solely on vertically-integrated utilities. Symmetrical treatment of all players will address environmental concerns more effectively and provide competitive parity.

## CONCLUSION

Our telecommunications and electricity sectors are undergoing sweeping transformations, which hold the promise of increased reliance on market forces and competition, with potentially large dividends for consumers and business. To facilitate such transformations, regulatory and competition policy must adapt. Unnecessary legal restrictions on entry must be removed, and regulation must be reformed to better address those industry segments where monopoly power will persist. But blanket deregulation will not ensure an equitable, efficient, and durable transition to competition. To ensure a successful transition and protect important social goals, government will have to play an evolving but ongoing role.

## CHAPTER 7

## Investing in Education and Training

THE FEDERAL GOVERNMENT HAS BEEN a vital partner in education for more than 200 years. Even before the Constitution was adopted, the Ordinance of 1785 set aside a section in every township in the new territories west of Pennsylvania to support a school. In 1862 the first Morrill Act authorized Federal Iand grants to States for the establishment of colleges. As World War II came to an end, a grateful Nation offered the G.I. bill, which eventually served nearly 8 million returning veterans-and fundamentally changed the educational Iandscape of the country. Today, Federal educational loans and grants open the doors to college for millions of students who could not otherwise attend, and Federal grants to low-income schools help more than 6 million children learn to read and to do math.

Learning is a lifelong process, not limited to those between the ages of 5 and 25 . From early childhood education to college to training for the unemployed, this Administration has sought to complement the efforts of State and local governments in responding to the new demands of the labor market. The Nation is in the midst of an educational renewal, and families, teachers, local school districts, colleges, States, employers, and the Federal Government all have a role to play in the transformation.
The renewed Federal interest in education and training is in part a response to the two challenges outlined in Chapter 1: the slowdown in the growth of productivity and the increase in earnings inequality. Education and training policy is one of the few policy le vers available to address both problems simultaneously.

One of the most dramatic changes in our economy during the past 15 years has been the increased economic payoff to skills, as reflected in the increased inequality in earnings between high school and college graduates. In 1979 full-time male workers aged 25 and over with at least a bachelor's degree earned on average 49 percent more per year than did comparable workers with only a high school degree. By 1993 the difference in wages had nearly doubled, to 89 percent. To the extent that this rise in the payoff to education reflects an increase in the value of skill, improving our schools and expanding access to postsecondary training stimulate economic growth. Based on estimates from the Bureau of Labor Statistics, the rise in the average educational attainment of the
workforce accounted for one-fifth of the annual growth in productivity between 1963 and 1992. International evidence reveals that, all else equal, those nations with the highest school enrollment rates in the early 1960s tended to enjoy the most robust growth in subsequent decades.

Education and training policies can also help address the problem of growing inequality. A primary goal of Federal policy must be to ensure that educational opportunities are not restricted to those whose parents can finance an education out of their own pockets. Federal programs such as Head Start, which helps low-income children prepare for school; Title I of the Elementary and Secondary Education Act, which provides supplemental Federal assistance to low-income schools and school districts; and Federal financial aid for college students are all designed to support those who would otherwise not have an equal opportunity to invest in learning.
The sharp rise in family income inequality should not be allowed to cause greater inequity in access to educational opportunities. The widening disparity in earnings prospects between the more and the less educated makes such efforts to equalize educational opportunities even more imperative. Since the 1980s the Nation's track record in equalizing educational opportunity has been mixed. In elementary and secondary schools, racial gaps in test scores in mathematics, reading, and science have closed somewhat, even as mean scores have risen for whites as well as blacks and Hispanics. The black-white gap in high school graduation rates has also narrowed since the mid-1970s, as high school graduation rates rose for blacks.

However, gaps in college enrollment rates between low- and high-income youth and between minority and white, non-Hispanic youth have widened since the late 1970s (Chart 7-1). Although all groups have responded to changes in the labor market by attending college at higher rates, the increases have been larger for middleand higher income youth than for low-income youth. Because blacks and Hispanics are overrepresented at the bottom of the income distribution, the racial and ethnic enrollment gaps have widened as well.

The widening gaps in college enrollment are troubling for at least two reasons. First, they may imply an increasing perpetuation of inequity from one generation to the next-with access to higher education increasingly allocated on the basis of ability to pay, not ability to learn. In this country, which values the principle that children's success in life should not be held hostage to their parents' lack of resources, this is unacceptable. A second reason is that low enrollments deprive the economy of the skills of those unable to finance those investments. The labor market is demanding high-

Chart 7-1 College Enrollment Rates of Young High School Graduates Enrollment rates have increased for white, black, and Hispanic high school graduates, but the increase in white enrollment has been larger.


Note: Data are for high school graduates age 18 to 24 . Source: Department of Education.
er levels of skill, and the economy will grow more quickly if we succeed in producing more skilled workers.

Education and training policy can contribute to reversing the growth of inequality in the country in two ways. First, by targeting educational resources more effectively, education and training policy may enable more of our citizens to benefit from the rising payoff to skill. Second, a robust supply response that creates an abundance of skilled labor and causes less-skilled labor to become relatively more scarce may slow the rise in the price of skill in the labor market, reducing the growth of wage inequality and possibly even reversing it somewhat.

In short, the Administration's education and training policies are predicated on the three principles outlined in Chapter 1. They encourage students and schools to embrace change by developing the skills demanded by the new labor market. They create opportunity by targeting resources to the disadvantaged, providing greater opportunity to participate fruitfully in that market. And they promote personal responsibility, by stressing to young people and workers that they are responsible for making their own educational choices, and by requiring them to share some portion of the cost: through their efforts in school, through the earnings they forgo to remain in school, through their participation in the Federal Work Study program, and through their obligation to repay educational loans.

This chapter first reviews the good news on the extent to which the Nation has responded to the rise in the value of education since the early 1980s, as well as the sobering news on how far we still have to go. The chapter then examines the evidence from the economics literature on the payoff to investments in schooling and training. Finally, we describe the Federal role in education and training policy in complementing State and local efforts.

## AMERICANS ARE RESPONDING TO THE DEMAND FOR SKILLS

Americans have always placed a high value on education, seeing it as a ladder of opportunity. Therefore, the country was ready to respond when A Nation at Risk, the 1983 report of a commission appointed by the Secretary of Education, sounded the alarm over declining nationwide test scores. Since then a number of States and local school districts have launched ambitious reform projects. After a decade of effort, progress clearly has been made:

- Students are spending more time on homework than they did at the end of the 1970s. The proportion of 13 -year-olds reporting that they had no homework or that they had not done their homework dedined from 38 percent in 1980 to 25 percent in 1992.
- The proportion of 11th- and 12th-grade students taking advanced placement courses grew by 138 percent between 1984 and 1992.
- In 1992 the average public high school graduate had completed 49 percent more courses in algebra or higher mathematics, 33 percent more coursework in science, and 8 percent more coursework in English than his or her counterpart in 1982.
- Between 1980 and 1993, the proportion of students in grades 10 through 12 remaining in school rose for whites, blacks, and Hispanics. The dedine in the dropout rate was particularly steep for blacks.
The hard work of students, parents, teachers, and school administrators has borne fruit in the form of higher test scores and higher college enrollment rates. Some year-to-year fluctuations notwithstanding, most of the trends suggest that progress is being made:
- As measured by scores on the National Assessment of Educational Progress, average mathematics proficiency rose for nearly every age, gender, and racial or ethnic group between 1978 and 1992.
- Average mathematics scores on the Scholastic Aptitude Test (SAT) rose by 13 points overall and by 28 points for blacks between 1980 and 1994. These gains are particularly impressive given the large increase in the proportion of high school stu-
dents taking the SAT, which would have tended to reduce average scores.
- The proportion of college-age youth (those 18 to 24 years old) enrolled in college grew by more than one-third between 1980 and 1994, from 26 percent to 35 percent.
- The numbers of associate, bachelor's, and doctoral degrees awarded grew by 28 percent, 25 percent, and 29 percent, respectively, between 1980 and 1993, even though the population of college-age youth declined by 15 percent.
However, much remains to be done. Although average scores have been rising in mathematics and science, much of the gain has occurred in lower level computational skills rather than in higher level problem solving. Reading and writing test scores dedined slightly for the weakest students during the late 1980s. Perhaps most disturbing, students in the United States continue to lag behind their counterparts in many Asian and European countries in math and science (Chart 7-2).

Chart 7-2 Mathematics Proficiency of U.S. and Foreign Students
The median performance of U.S. 13-year olds in 1991 was below that of students in several other countries.


Note: Test instrument is International Assessment of Educational Progress. Source: Department of Education.

Although it is tempting to extrapolate from current trends and to assume that the rise in skill-related earnings inequality will continue unabated, economic historians tell us that the payoff to education has fluctuated over the past 50 years, rising and falling with changes in supply and demand. For example, the ratio of the aver-
age earnings of a college graduate to the average for high school graduates is today roughly what it was in 1940. Economic theory predicts that positive shifts in demand will be met by increases in the quantity supplied. Although Americans have responded by enrolling in college in record proportions, so far the demand for skill has outpaced the Nation's ability to produce more skilled workers. But the demographic tide is gradually turning, as the number of 18 - to 24 -year-olds is expected to rise by 20 percent over the next 15 years. Eventually the rise in the labor market value of skill, and the wage inequality it has brought about, may be dampened if these new workers are better equipped to meet the demands of the labor market. The remainder of this chapter discusses the role of government policy in aiding that response.

## DO EDUCATION AND TRAINING LEAD TO HIGHER EARNINGS?

Throughout the 1980s the gap in real annual earnings widened between American workers with different levels of education (Chart 7-3). Labor economists have argued for decades over whether education actually causes differences in earnings, or whether those with better earnings prospects-because of more favorable family backgrounds or greater native ability-simply consume more education. After literally hundreds of studies of the economic importance of education, most economists now agree that education does, indeed, lead to higher earnings (although they may disagree about the size of the effect). Each additional year of formal schooling is associated with a 5 to 15 percent increase in annual earnings later in life. Even without counting the other benefits offered by edu-cation-a more active citizenry, breakthroughs in science and the arts, less reliance on social welfare programs-such benefits are often large enough to justify the public and private investments involved (Box 7-1).

Questions of causation are difficult to resolve, however, because unlike natural scientists working in the controlled setting of the laboratory, researchers cannot simply assign people randomly to different educational careers. Even if one tried to perform such an experiment, those assigned to lower levels of educational attainment or training could always decide to pursue their options elsewhere. This implies that random assignment experiments can only evaluate the incremental impact of specific programs over that of opportunities available elsewhere-not the full value of the training. The more options available for education and training, the smaller will be the incremental impact of any specific programeven if the training itself is quite worthwhile. Therefore, in addition to using experimental evidence, economists have exploited sev-

Chart 7-3 Percent Difference in Annual Earnings for College and High School Graduates Differences in mean earnings by educational attainment have widened.


Note: Data are for year-round, full-time workers, age 25 and over. Source: Department of Labor.
eral other sources of variation in educational attainment in studying the effect of additional education and training on earnings.

## COMPARING THE EARNINGS OF SIMILAR WORKERS WITH VARYING EDUCATIONAL ATTAINMENT

For decades survey researchers have collected information not just on education and earnings but on other characteristics, such as standardized test scores, parental education, and family income, which might be related to both educational attainment and future earnings. In analyzing these data, economists have attempted to control for prior differences in earnings prospects between the more and less educated, by studying the relationship between education and earnings only among those who might be expected to have similar earnings given their other characteristics.

In such studies, more than 75 percent of the estimated impact of education typically remains even after controlling for test scores prior to entering college. One recent study compared the earnings 14 years after high school of a sample of graduates of the high school class of 1972 who had attended different types of postsecondary institutions. Although those who had attended 4-year institutions had higher earnings than either community college students or those with no postsecondary training, they also had higher grades, higher standardized test scores, and more favorable family

## Box 7-1.-Is a College Education a Worthwhile Investment?

Calculating the return on any investment involves assessing both costs and benefits. Here we do some back-of-the-envelope calculations of the economic return to a college education.
Although a college education certainly yields other benefits, earnings differentials after college-the additional wages that a college graduate earns compared with a high school grad-uate-are perhaps the easiest to measure. It remains to be seen how today's college graduates will fare over the next 45 years of their careers; absent that information, the most straightforward approach is to assume that the difference in earnings observed among people of various ages and educational attainments today will persist into the future.
A college education clearly has high costs as well. In addition to the $\$ 10,000$ in average educational costs per year of college, students forgo potential earnings while in school. Since a fulltime college student would typically miss 9 months of work experience in a year, three-quarters of the average annual earnings of an 18- to 24 -year-old male high school graduate, or $\$ 12,200$, is a reasonable estimate of earnings forgone for each year of full-time college study. Therefore the total cost of a year in college is the combination of educational costs and forgone earnings, approximately $\$ 22,200$.

If these measures of costs and benefits are accurate, the internal rate of return on 4 years of college for a male, 13 percent, is higher than that for most financial instruments. Even if one attributes only 75 percent of the earnings difference between high school and college graduates to schooling, the internal rate of return is still 11 percent. Despite the high costs, then, a college education continues to be a worthwhile investment.
backgrounds upon graduating from high school-all characteristics that would have predicted higher earnings for them even if they had not attended college. Comparing those who had similar family backgrounds and academic characteristics in high school, the researchers found that a year of community college was associated with an increase in earnings of 4 to 7 percent, roughly the same as that associated with a year in a 4-year college.

## STUDIES USING TWINS

Admittedly, however, many of the characteristics that affect earnings are difficult to measure. Such easily quantifiable variables as family income or years of education received by one's parents may not fully capture the myriad differences in family background.

Rather than attempt to collect information on a seemingly infinite list of characteristics, some survey researchers have gone to great lengths to follow the experience of pairs of identical twins. Because identical twins growing up in the same household share a variety of environmental and genetic factors, analyzing differences in their earnings and educational attainment eliminates the need to measure the subtle ways in which backgrounds may differ between families.

The conclusion of this research is that, even among identical twins, those with more education tend to earn more. In some studies, the difference in earnings associated with a year of education has been as great as the 5 to 15 percent earnings difference per year of education observed in the broader population. For example, a recent study of this type found that each year of education was related to a difference in earnings of between 12 and 16 percent.

## NATURAL EXPERIMENTS

Just as individuals from different families may differ in ways that are not easily measured, identical twins may have different experiences growing up that would lead one twin to attend school longer and to earn more in the labor market than his or her sibling. A third approach, therefore, is to identify laws or institutional differences that may have an effect on educational attainment but are expected to have no independent effect on earnings.

Compulsory schooling laws provide one such opportunity. Many States once had regulations that allowed only those turning 6 during the current calendar year to enter first grade in the fall. In other words, 5 -year-olds with their 6th birthdays falling on or before December 31 could begin classes in the fall, while those born on J anuary 1 or later had to wait an additional year. Because compulsory schooling laws specify a minimum age of mandatory attendance (usually age 16 or 17 ) and not a minimum grade level, those born during the first calendar quarter reached the age at which they could drop out after having completed a year less of school than those born in the last calendar quarter. As long as the earnings of those born at different times of the year do not vary systematically for reasons unrelated to educational attainment, the interaction between compulsory schooling laws and calendar quarter of birth provides a "natural experiment" for measuring the impact of education on earnings. Researchers have found that those with birthdays in the first calendar quarter were indeed slightly more likely to drop out at lower grade levels than those born later in the year. Moreover, each year of additional education was associated with a 5 to 10 percent increase in hourly wages later in life.
The study of compulsory schooling laws is particularly important because it identifies the payoff to a year of schooling only for those
who are constrained by such laws to remain in school, rather than describing the average return to education for all who remain. Therefore, the results suggest that even those who would have dropped out earlier than compulsory schooling laws allowed seemed to benefit from additional schooling. This is a strong argument for measures to deter high school students from dropping out (Box 72).

## RANDOM ASSIGNMENT EXPERIMENTS

Even though, as noted above, random assignment experiments can identify only the incremental impact of specific programs and not the value of training itself, some programs do indeed seem to raise the earnings of those who are assigned to them. The primary advantage of being able to randomly assign some subjects to training and others to a comparison group is that one can expect that any resulting difference in average earnings for the two groups is due to the incremental training provided and not to some other difference between the two groups. Although the studies are usually conducted on a small scale, random assignment evaluations have often found that education and training raise the earnings of participants. For instance, in recent years the Center for Employment Training (CET) in San J ose, California, has achieved impressive results in two different random assignment evaluations. Out-of-school youth receiving an average of 4.1 months of training at CET earned 40 percent more per year (approximately $\$ 3,000$ per year in 1993 dollars) than the control group during the third and fourth year after being assigned. The total cost of the program per enrollee was $\$ 4,200$. In a separate random assignment evaluation of a program for minority single female parents, participants earned $\$ 1,500$ (again in 1993 dollars) more than the control group in the second year after training. Earnings increases remained large in the fifth year of the study, by which time those who had received training and job placement services were still earning 16 percent more than the control group.
Education and training for experienced workers yield economic benefits as well. A recent random assignment evaluation of the J ob Training Partnership Act (JTPA), a Federal program providing training for economically disadvantaged clients, found that participation increased the earnings of adult male participants by 7 percent and those of adult female participants by 10 percent. These earnings gains were one and one-half times greater than the costs of producing them.

## LEARNING OR SORTING?

Although labor economists would generally agree that education and training do lead to higher earnings, it is more difficult to deter-

## Box 7-2.-New Opportunities for Potential Dropouts

One of the eight goals set out in the Goals 2000 Act is to raise high school graduation rates to 90 percent by the year 2000. Indeed, dropping out of high school is not a good financial decision. A male youth who finishes the last 2 years of high school will reap a net lifetime earnings increase of $\$ 99,000$ (stated in present value terms at a 3 percent discount rate). Even when one considers the cost to taxpayers of 2 additional years of public secondary education ( $\$ 5,600$ per year), the internal rate of return for a male completing high school is 9.5 percent. Persuading young people to remain in high school seems a particularly worthwhile investment.

Between 1987 and 1989 the Department of Labor conducted a random assignment evaluation of JTPA programs for out-ofschool youth. The average youth assigned to JTPA did not receive higher earnings during the 30-month evaluation than did those assigned to the control group, many of whom participated in other non-J TPA education and training programs. In other words, the availability of JTPA programs did not seem to add much to the existing array of services for out-of-school youth.

In response, the Department of Labor is exploring alternative strategies. For instance, rather than providing training to students once they drop out of school, the department is funding a replication of a promising high school dropout prevention program. The Quantum Opportunities Program (described in more detail in the 1995 Economic Report of the President) will be replicated with over 1,000 participants at seven sites around the country.

The Labor Department is also conducting a major evaluation of the Job Corps program, a comprehensive, residential job training program for high school dropouts. Treatment and control subjects will be followed for 5 to 6 years to determine the impact of the program on employment and other social outcomes.
The Labor Department has also experimented with "geographic targeting," saturating high poverty communities in inner cities and rural areas with job training, work opportunities, school-to-work programs, and sports and recreation activities. The aim is to reach enough young people in a neighborhood to reverse the effect of peer pressure. Although the saturation approach made random assignment difficult, a nonexperimental evaluation is yielding promising results.
mine why they matter. Do employers pay their highly educated workers more because of the skills they have learned, or do the more educated earn more because educational attainment provides other signals to an employer about them, such as their perseverance or level of motivation? The question is very difficult to resolve empirically, since it is difficult to measure acquired skill as distinct from educational attainment. For instance, we infer the extent of a physician's training not by directly measuring his or her medical knowledge but by observing his or her educational credentials.

It is likely that some portion of the observed payoff to schooling is due to both the "skills" and the "sorting" explanations. However, it appears that technological change has increased the value of some skills more than others. Even if sorting accounts for some portion of the value of education, higher level problem-solving skills have almost certainly increased in value with the availability of computers. Furthermore, it would be difficult to attribute the large increase in the payoff to schooling, even among those who have been in the labor market for decades, to an increase in the value of education as a signal. Greater success in producing these skills not only would raise the earnings of those benefiting, but also would contribute to economic growth. Moreover, when it comes to improving the earnings prospects of the disadvantaged, whether it is the skill learned or the credential acquired that opens the door, such investments improve the prospects of those who may lack the resources to invest in themselves and reduce the perpetuation of poverty.

## THE PAYOFF TO PUBLIC INVESTMENT IN EDUCATION

Since the publication of Equality of Educational Opportunity (commonly known as the Coleman Report) in 1966, researchers have struggled with the question of whether increased expenditure on schools improves student performance. The debate is often quite contentious because of the large differences in expenditure per pupil between rich and poor school districts. For example, during the 1992-93 school year, New J ersey spent more than \$9,400 per pupil in public elementary and secondary schools, while Alabama and Mississippi spent less than $\$ 3,900$. Regional differences in the cost of living can explain only a small part of such variation. Furthermore, given the importance of local financing of public education, expenditure per pupil can differ by a factor of two or three even between districts in the same State.

Typically, analysts compare average test scores in high-spending and low-spending districts to learn about the effect of additional resources on scores. Not surprisingly, the high-spending districts
have higher average scores. However, since high-spending districts also tend to have higher average family income and parental education, the differences in student performance may be caused not by differences in the level of spending but by differences in family resources. When analysts compare test scores in high- and lowspending districts with similar family incomes and parental education, the results are often considered provocative: districts that spend more are often found not to have higher test scores.

However, additional resources could have other beneficial impacts. The standardized tests used in much of the research may not reliably measure the kinds of improvements that parents or policymakers would expect schools to produce with additional resources. The benefits of new courses in American history, geometry, or calculus or improved learning opportunities for the disabled-valuable as they may be-would not be captured by such measures.
Consistent with this hypothesis, studies of the long-term impacts of school expenditure on earnings and educational attainment-in contrast to those that focus on test scores-yield more optimistic evidence that public investment in elementary and secondary schooling does generate benefits later in students' lives. For instance, better paid and better educated teachers and smaller classroom size have been associated with greater educational attainment and higher payoffs to education later in life, even if they have not had large effects on the particular test scores used. One recent study concluded that the payoff was not only positive but financially lucrative: a 10 percent increase in expenditures from kindergarten through 12th grade would produce additional lifetime earnings valued at 1.2 times the additional cost (in present value terms). Admittedly, studies of this kind remain few, and some authors have reported less positive results, but some evidence suggests that past increases in spending on education did bear fruit, even if the results did not register on the particular tests used.
But the debate over such findings often misses a more relevant question: rather than continue to debate how much of a difference additional resources have made in the past, we should be asking how programs and incentives could be structured today to ensure even greater benefits from resources invested now and in the future. It is difficult to believe that a knowledgeable school principal could not find a way to use additional resources to improve student learning, as long as the incentives in the environment rewarded such gains. The task of policymakers should be to create an environment in which incentives dictate that resources be invested profitably.
On this question, Federal, State, and local governments are already a step ahead of the academic debate. Many of the educational reforms being pursued today seek to produce more decen-
tralization and greater accountability, both of which are designed to create an environment in which resources are used more efficiently. The charter school movement is a good example. Minnesota was the first State to pass a law allowing for charter schools in 1991. Since then 19 other States have enacted laws permitting the development of charter schools. A charter school is usually the brainchild of a committed group of teachers or set of parents who want the flexibility to try a different approach. Typically, they apply to the local school board or the State department of education for a charter allowing them to open a new school with public funding. Since charter schools are public schools, they do not charge tuition. Such charters typically waive many of the regulatory requirements imposed on other public schools for 3 to 5 years, at which time they are subject to review.

Charter schools enhance accountability in two ways. First, charter contracts often specify benchmarks for performance, such as scores on specific State assessments. In exchange for the freedom to innovate, charter school organizers are expected to produce results. Some contracts are more specific in spelling out such performance expectations than others. As States develop better assessment tools under the Goals 2000: Educate America Act (described below), these performance expectations can be more explicitly stated. Second, the presence of charter schools is intended to encourage innovation by nearby public and private schools, through the demonstration of successful educational strategies and through the threat of lost enrollment.

The Department of Education has helped to nurture the charter school movement by providing seed money for the establishment of charter schools. In the 1995 fiscal year, the Federal Government provided nearly $\$ 6$ million in grants to help cover startup costs for charter schools. The Administration hopes to increase this commitment significantly over the next few years.

But the establishment of charter schools represents only one way in which States and local school districts are seeking to provide better incentives for schools and teachers. School report cards, performance bonuses for schools, magnet schools, and other forms of public school choice are also being tested.

Publicly funded vouchers for use at private schools are another, more radical approach. But vouchers have several problems. Their advocates fail to recognize the many ways in which education for children differs from conventional goods. The primary risk of vouchers is that they may produce a dramatic increase in social stratification. The cost in terms of the resulting damage to social mobility and social cohesion could exceed any benefit in terms of better school performance. Because they are public schools dependent upon public support, charter schools can be more carefully
planned to serve all children's interests by locating them in urban areas, by insisting on open admissions policies, by holding them directly accountable for results, and-when oversubscribed-by requiring them to establish lotteries for admission. Charter schools provide a framework for an improved educational system, with parents and teachers working together to develop new and creative solutions to the challenges they face, and demanding accountability of all participants in the educational process.

Some approaches to accountability are better suited to some environments than others. For instance, school report cards are better indicators of school performance when mobility between schools is low and when one can control for differences in student characteristics. Charter schools and magnet schools provide better incentives when the quality of local transportation is good and parents are engaged and well informed. Still another approach, which several European countries employ, raises the stakes for students, through more widespread use of achievement tests as a criterion for high school graduation and college admission, or even by employers in their hiring decisions (Box 7-3). Given the diversity of circumstances around the country, it is appropriate that each State and school district pursue its own strategy for encouraging more decentralization and accountability. The next section discusses the various ways in which the Federal Government has chosen to complement these efforts.

## THE FEDERAL ROLE IN EDUCATION AND TRAINING

The environment facing providers of education and training is changing. Today parents and taxpayers increasingly expect results from their investments. In partnership with State and local policymakers, Federal policy is helping to create this new environment in several ways: by providing seed money to States developing content standards in core subject areas, by supporting States in the development of assessment tools for measuring progress, by helping States to invest in their teachers, and by supporting the establishment of charter schools. But in addition to these efforts the Federal Government serves many other roles in our education and training system, such as guaranteeing student loans, channeling resources to low-income schools and school districts, helping disadvantaged children prepare to enter kindergarten, and helping States develop new pathways from school to the world of work. As mentioned at the outset of this chapter, the Federal Government has played a vital role in education since before the Constitution was signed. There are at least five reasons why.

## Box 7-3.-Raising the Stakes for Students

Despite recent gains, American youth continue to perform poorly in science and mathematics relative to their counterparts in many other industrialized countries. American students also seem to spend less time on their studies than students in other countries. The Organization for Economic Cooperation and Development has suggested that one of the causes of the poorer U.S. performance is the lack of connection between high school achievement and employment or schooling opportunities.

Unless they are planning to attend a selective college, high school students in America often have little incentive to do well academically. Surveys suggest that employers have difficulty collecting and interpreting transcripts from many different schools. And except for the most competitive colleges, a student's performance in high school has little impact on his or her chances of admission to college. The skills developed in school may well matter later in students' careers, but many students may fail to see a connection between performance in school and immediate prospects for a job or college admission.

In contrast, many European countries require students graduating from high school to take tests in various subject areas. Universities use these scores in making admission decisions, as do employers in their hiring decisions. Some precedent for such high-stakes testing exists in the United States-the Regents Examination in New York is an example. By raising the stakes for high school performance-or, possibly more important, making the actual consequences more visible-these tests may induce students to work harder.

An achievement test may also strengthen the incentives of students and teachers to work together. Absent an external standard, schools judge individual students relative to their classmates. But the relative scale gives students an incentive to discourage their peers from "wrecking the curve." In contrast, an external standard unites teachers, students, and their classmates in a common objective: to perform well.

To focus attention on the value of high school achievement, the Administration has proposed providing $\$ 1,000$ scholarships to the top 5 percent of every high school class, public and private, for use at college. Although the reward is still based on a relative standard, the goal of the awards will be to make the new realities of the labor market more salient, giving students in school a more immediate reason to strive harder.

First, Americans are a mobile people. Between 1993 and 1994 alone, 6.7 million Americans moved from one State to another. The consequences of a good-or a bad-educational system therefore extend well beyond the borders of a single State. For this reason, education is a national concern as well as a local one.

One consequence of that mobility is that the Federal Government has a distinct advantage in administering educational loan programs. The average cost of a year at a public 4 -year college is approximately $\$ 10,000$, not counting room and board, earnings forgone while attending school, college expenditures on sponsored research, or scholarships and fellowships. Even though States often pay a large share of these costs through subsidies to public institutions, relatively few families have the resources to finance such large investments out of pocket. Moreover, because an education cannot be repossessed like a car or a house, private lenders have not been willing, absent government guarantees, to lend at reasonable rates, even to the most promising student. Given the mobility of the population, the Federal Government is in the best position to guarantee these loans and to pool the risk associated with them.

Second, the Federal Government must share the responsibility of guaranteeing equality of opportunity for all children. The commitment to equal opportunity is founded upon both moral imperatives and economic interests. The commitment to opportunity for all children has long been a fundamental American value. The economic interest is also clear. Without intervention by higher levels of government, many communities would not be able to invest to the full extent worthwhile in their children's educations. Although many State governments do target resources on the most disadvantaged schools and school districts, as argued in Chapter 4, Federal involvement may be necessary to avert a "race to the bottom" in the provision of State services to the disadvantaged. And even if there were no race to the bottom, differences in resources would mean children in disadvantaged communities or poor States might re ceive an inadequate education. The Federal Government can help to equalize access to educational opportunities across States and school systems.

Indeed, some progress has been made over the past decades. As already mentioned, black youth have closed part of the gap in test scores with their white classmates in elementary and secondary school. Nevertheless, students continue to come out of our school system with enormous disparities in basic skills. One recent study has suggested that differences in basic skills among youth emerging from our school system may account for a significant share of the difference in average earnings between black and white males in their late 20s.

Third, the Federal Government must play a role in research and evaluation and in informing local decisionmakers about the payoffs to alternative strategies. This is true of research and innovation in education no less than in other areas. How much does classroom size matter? Which teaching techniques produce better student performance? Which training programs best meet workers' and employers' needs? To deploy a school's resources wisely, teachers and administrators must know which strategies work best for which youth. The answers to these questions are public goods, of value to educators everywhere. Although some school districts have conducted evaluations of their own, no individual school or school district has a sufficient incentive to invest, to the full extent worthwhile, in the kind of careful, expensive random assignment evaluation necessary to resolve critical issues. The Federal Governmentthrough the Departments of Education and Labor, in particularhas an important role in promoting, analyzing, and disseminating this knowledge.

Fourth, the Federal Government has a critical role to play in encouraging States to set content standards in education and to develop testing methods that are consistent with those standards. J ust as industries have found it essential to set national standards to support a national market for their goods, so it is with education: the national labor market is more effective and efficient when employers in California know that a job applicant graduating from school in New York was held to a reasonably stringent set of standards. The recently enacted Goals 2000: Educate America Act provides seed money to States to develop standards and assessments.

Fifth, the Federal Government has a particularly important role to play as a catalyst in developing a national response whenever change occurs as suddenly as it has in the labor market over the last 15 years. It performed this role admirably in the post-Sputnik era, leading reforms in the math and science curricula of our Na tion's schools. It is playing that role today in a number of areas. For instance, the School-to-Work Opportunities Act allows the Departments of Education and Labor to jointly offer relatively small, short-term grants to States to begin developing pathways to careers for high school students. Although the Federal funding is short-term, scheduled to be phased out by 2001, the presumption is that thereafter States and local governments will continue to finance the experiments that worked and drop those that did not. Similarly, in response to an evolving labor market in which some workers find themselves in need of retooling, the Administration has been working to transform the unemployment system into a reemployment system. A third example is the Federal Government's encouragement of charter schools. In these and other areas the

Federal Government acts as a catalyst, providing startup funds to encourage States to think in new ways about the problems presented by a changing world.

Federal efforts-in particular, research and evaluation and the encouragement of standards and assessments-complement States' systemic reform efforts. With the knowledge gained from rigorous experimental evaluations of alternative educational interventions, school principals will make better decisions. With well-defined standards and assessments, parents and local school administrators will have better information to back their demands for accountability from the schools. Teachers, too, will have a clearer idea about where to invest in their own training and classroom preparation, so that they can effectively teach the material defined in content standards at the State and local level.

## ONGOING EFFORTS IN EDUCATION AND

## TRAINING

State and local governments have traditionally borne most of the burden of financing elementary and secondary education. As recently as 1920, the Federal Government provided only 0.3 percent of nationwide funding for public education from kindergarten through 12th grade. (Currently, 9 out of 10 youth attend public elementary and secondary schools.) With the advent of the Great Society programs of the 1960s and the growth in Federal aid to lowincome school districts, the Federal share rose, reaching a peak of 10 percent in 1980. That share has generally dedined over the past decade and a half, however. In 1992-93 the Federal Government provided only 7 percent of total funding for public elementary and secondary education, with State and local governments roughly splitting the remaining 93 percent.

The Federal Government has traditionally played a larger role in higher education than in elementary and secondary education. In 1993 Federal spending accounted for approximately 25 percent of the revenues of all American institutions of higher education. (Of that 25 percent, 9 percent went to provide student grants and loans, 12 percent was for sponsored research, and the remaining 4 percent for direct appropriations and unrestricted grants.) In part, the greater Federal role in higher education may reflect the fact that highly educated people are more likely to move across State lines. In 1990, 49 percent of 25 - to 34 -year-olds with a bachelor's degree, but only 33 percent of those with less education, lived outside their State of birth.

## EARLY CHILDHOOD EDUCATION

The Head Start program, begun in 1965, provides educational, nutritional, and health services to children up to the age of 5; 90 percent of program beneficiaries must be from families with incomes below the poverty level. The program has enjoyed bipartisan support, as reflected in the fact that funding for Head Start more than doubled between 1989 and 1995. In the 1995 fiscal year, the Head Start program cost $\$ 3.5$ billion and provided funds to approximately 2,000 programs and 750,000 children. In addition to increased funding, the Administration has sought to improve program quality by increasing the number of expanded day slots for children from families with working parents and by seeking to improve the quality of program staff.
Evaluations of Head Start have reported short-term gains in IQ among children enrolled in the program; enrollees are also less likely in their later school careers to repeat grades or be assigned to special education classes. The long-term impacts of Head Start are more difficult to assess, given the long lag between investments and results. One recent evaluation reported sustained improvements in cognitive test scores for white participants, whereas initial favorable impacts seemed to diminish for black youth. Early benefits may wither if they are not nurtured in elementary school. Evaluations of Head Start have also pointed to its significant improvement in the delivery of preventive health services to children from low-income families, as reflected in measures such as immunization rates.

Despite recent additional investments in Head Start, children from high-income families remain much more likely to start school having had the benefit of early childhood education. In 1993 only 33 percent of children from the poorest 20 percent of families were enrolled in preschool or kindergarten, compared with 59 percent of children with family incomes in the top quintile. Because Head Start still serves fewer than 40 percent of eligible families, the Administration has proposed its continued expansion. If we are to reach the goal of equal access to high-quality early childhood education, the Head Start program deserves continued and expanded bipartisan support.

## ELEMENTARY AND SECONDARY EDUCATION

To sustain the gains achieved in early childhood programs, elementary and secondary schools must provide challenging and engaging curricula that set high expectations for all their students. Three major initiatives over the past 2 years-the Goals 2000: Educate America Act, the reauthorization of the Elementary and Secondary Education Act, and the School-to-Work Opportunities Act-
were designed to complement and support the reform efforts of State and local school officials.

## The Goals 2000: Educate America Act

The Goals 2000: Educate America Act, passed by the Congress in 1994, is the centerpiece of the Administration's effort to support State and local school reform to raise standards of achievement. Its purpose is twofold: to provide grants to States to set rigorous standards for academic achievement, and to support local grassroots efforts to ensure that all students meet those standards. In the first round of grants every State but two applied for funding to support statewide systemic reform efforts as well as promising local initiatives. In the first year of the program, total funding for State grants was $\$ 90$ million. States were required to distribute 60 percent of these grants directly to school districts, to support innovative programs to improve student achievement in core subjects. The remaining 40 percent could be used for statewide planning, such as the development of academic standards and better statewide assessment tools. In the second year of the program, 33 States have so far received grants totaling $\$ 274$ million, of which States are obligated to pass 90 percent along to school districts.
As argued above, educational investments are most likely to pay off when the objectives are clear and when some measure exists for tracking the progress of students and schools. Accordingly, States applying for funding under the second year of the program must develop or adopt challenging content and performance standards and a means of assessing whether the standards were met. States must also outline their plans for helping teachers develop their abilities to teach to the challenging standards. States, school districts, and schools are given a great deal of flexibility in their planning to achieve these goals. Indeed, the act expressly proscribes Federal mandates, direction or control of a school's curriculum or program of instruction or the allocation of State or local resources.

According to a survey by the Council of Chief State School Officers in May 1995, 47 States were working on more rigorous content standards and means of assessment. In Vermont, for example, the assessments encompass a broader range of student achievement than do standardized tests. The mathematics standards are typically the furthest along, drawing on the efforts of the National Council of Teachers of Mathematics during the mid-1980s. Perhaps it is no coincidence that mathematics test scores have shown the greatest gains since 1980.

In addition to providing grants for systemic reform, the Goals 2000: Educate America Act codified into law eight national goals, for improving high school graduation rates, student achievement and citizenship, math and science performance, adult literacy, teacher education, school safety, school readiness, and parental
participation. The act also provided funding for the National Education Goals Panel, to monitor the Nation's progress toward meeting those goals. The panel, an autonomous body established in 1990, is charged with publishing regular progress reports and with making suggestions to Federal, State, and local governments that will further the achievement of those goals.

## The Improving America's Schools Act

Whereas the Goals 2000: Educate America Act intends to provide momentum and direction to State education reform efforts, the Improving America's Schools Act (IASA) seeks to better coordinate Federal aid with those State reform efforts. The most important part of this act was its reauthorization of the Elementary and Secondary Education Act (ESEA) of 1965. The most significant budgetary change was the overhaul of Title I (formerly Chapter 1) of the ESEA, which provides grants to States and local school districts for the education of disadvantaged students. The program, for which $\$ 6.7$ billion was appropriated in 1995, was improved in five important ways.

First, the act allows more schools with high proportions of students from poor families to use their Title I grants for schoolwide reform programs. Until the IASA was enacted, only schools in which more than 75 percent of children came from poor families had been allowed to use the money for schoolwide programs. The IASA lowered the threshold further: eventually it will allow schools with more than 50 percent poor children to use Title I grants for school wide reforms. This corrects a longstanding problem that prevented some students and teachers even in high-poverty schools from using equipment purchased with Chapter 1 funds.

Second, States and local educational authorities are required to monitor the progress of students in Title I programs using the same standards and assessments used for other students. State and local educational authorities are given greater authority to intervene in schools that fail to show progress. Both measures should allow local administrators to better coordinate Title I programs with State and local reform efforts.

Third, the IASA eliminated the perverse penalty imposed on lowincome schools that succeeded in raising test scores. Prior to the IASA, while poverty rates determined school eligibility, resources were distributed among individual schools according to the performance of their students. Low-income schools that raised their performance could actually lose funds. Thirteen percent of principals in a survey of elementary schools reported that their Chapter 1 (now Title I) program had lost some funding as a result of improved performance. Under the reauthorization, disbursement within local educational authorities depends only upon the number
and percentage of poor children, not on their academic performance.

Fourth, school districts are required to involve parents and communities in the education of their children, and to use 1 percent of their Title I money for such programs. Research consistently finds that close parent and teacher collaboration is needed to help students learn.

Fifth, Title I establishes two new, better targeted formulas for disbursing money to poor districts and schools. As part of its 1996 budget, the Administration proposed distributing an additional \$1 billion through the more targeted of the two new formulas, combining $\$ 700$ million that was to have been distributed under the old formula with $\$ 300$ million in new money.

The IASA includes other legislation intended to improve teaching and learning. For instance, the Eisenhower grants (Title II of the ESEA) are designed to support the efforts of schools and communities to develop high-quality teacher training in all core subject areas, with particular emphasis on math and science. The Safe and Drug-Free Schools Act (Title IV of the ESEA) provides funds to States and communities to support prevention of drug abuse and violence in their schools. In combination with the Goals 2000: Educate America Act, the IASA for the first time also grants the Secretary of Education waiver authority to give States and local schools more flexibility in implementing their reforms.

## Promoting Uses of Technology in Education

The Administration has supported the creative use of technology in schools. The Technology Learning Challenge, funded under Title III of the ESEA, provides challenge grants to partnerships of schools, colleges, and the private sector for the development and demonstration of educational technology. In 1995 the initial challenge grant competition for elementary and secondary education attracted over 500 proposals and resulted in 19 grants totaling $\$ 10$ million. The challenge grants have been matched by $\$ 70$ million in private sector contributions in the first year. For example, the Capital School District in Dover, Delaware, received a challenge grant to bring educational curricula and communication links into students' and teachers' homes. Using a device connected to their telephone or cable lines, students use their family television sets to communicate with their teachers and classmates, and so replace passive television watching with learning time. The project, intended eventually to reach all 16 of Delaware's school districts, also receives considerable support from the State government and private sources.

During 1995 the President and the Vice President appealed to a group of firms to bring Internet access to schools in California. The goal of the privately funded effort is to establish Internet access to
all elementary and secondary schools and set up local area networks within 20 percent of them by the end of this school year. Be fore this effort, California ranked near the bottom in the ratio of students to computers available in schools, even though it is home to much of the computer industry.
The Star Schools program provided $\$ 25$ million in matching grants in fiscal 1995 for projects using telecommunications technology in distance learning. For instance, a Star Schools grant supported the development of software to allow teachers from around the country to contribute and draw from a data bank of lesson plans in various topic areas such as math and science.

The IASA also provided $\$ 10$ million in funding in fiscal 1995 for six regional technology consortia. For instance, the South Central consortium is made up of the Kansas State Board of Education and colleges of education at Texas A\&M University, University of Oklahoma, University of Missouri-Columbia, and University of Ne braska-Lincoln. The consortia are intended to provide consulting services to States and school districts interested in finding new uses for technology in their schools.
To give teachers, school administrators, and researchers around the country better access to the inventory of educational research maintained by the Educational Resources Information Center (ERIC), the Administration created the AskERIC service. Educators and researchers are able to send questions to the service by electronic mail and receive a response within 48 hours.

Although the Federal investment in each of these programs is relatively small, the lessons learned from experimenting with the uses of technology in education may eventually have much broader applications in elementary and secondary schools around the country.

## The School-to-Work Initiative

Young people leaving high school often lack the skills and the social networks to make the transition to work. A successful transition means that a young person soon finds a job that puts him or her on a career ladder at the hiring firm or imparts skills that make him or her more widely employable. The experience of other countries and some of the experiments in the United States have shown that programs that help young people learn skills in the context of an actual workplace make successful transitions from school to work more likely. F or instance, Germany's apprenticeship system is often given credit for the low unemployment rates for youth in that country.
The School-to-Work Opportunities Act, passed in 1994, provides States and communities with funds to assist young people in making the transition to work after secondary schooling. Through the combined efforts of the Departments of Education and Labor, the

Federal Government is to act as a catalyst, providing venture capital to States for the development and implementation of school-towork systems. In 1994 the Federal Government gave 52 development awards-one to each State, the District of Columbia, and Puerto Rico-to assist in the initiation of these systems. Also included were eight implementation awards: funds competitively awarded to States with operating school-to-work systems. The States receiving the implementation awards in 1994 were Kentucky, Maine, Massachusetts, Michigan, New Jersey, New York, Oregon, and Wisconsin. By the end of 1995, 27 States had received school-to-work implementation grants, as had almost 90 urban and rural communities. Since the inception of the program, the Departments of Labor and Education have provided $\$ 345$ million to advance the school-to-work initiative.

For example, the Socorro High School for the Health Professions in El Paso, Texas, combines a traditional college preparatory course of study with applied health occupations classes. In the first 2 years of the 4 -year program, students take an introductory course in the health professions, a health occupations laboratory, enhanced mathematics, and a foreign language, in addition to standard subject matter. In the 11th grade, students spend half of each school day in clinical rotations; they undertake 12 unpaid 3 -week rotations, formally observing health care providers and administrators at work. Students also visit local colleges to learn about postsecondary education in health fields. In the last year of the program students work between 15 and 20 hours per week in competitively allocated, year-long internships. Students receive performance evaluations from supervisors in these internships; those receiving positive evaluations are typically hired as part-time regular employees. The program receives guidance from the El Paso Hospital Council, a coalition of senior executives from all the major health care facilities in the city. More than threequarters of the students in the Socorro program are from low-income bilingual families; the school receives funds from Title I of ESEA and the J ob Training Partnership Act.
An apprenticeship program in rural Pickens County, South Carolina, accepts exemplary students for youth apprenticeships. The program offers high school courses at the district career center, where students learn skills from agricultural mechanics to graphic communications to welding. Even in traditional subject areas, students apply their knowledge in situations that simulate the workplace. During their senior year advanced vocational students work as apprentices for 20 hours a week, earning an average of $\$ 6$ per hour at local businesses while taking classes both at their high school and at the district career center. After graduating from high school, the apprentices continue to work part-time while studying
for an associate degree at a technical college in the area. Local businesses and large corporations with local establishments have taken apprentices in the program. The Partnership for Academic and Career Education (PACE), a consortium of businesses and educators, assists with curriculum development, provides staff development opportunities, and contributes materials to area high schools. The Department of Education recognized PACE with the first Award for Technical Preparation Program Excellence in 1991.

Both these programs have some degree of employer involvement, a critical component of success. Employers can be counted upon to maintain their investments in apprenticeships and worker training only to the extent that they learn that it is in their economic interest to do so. If employers are expected to share the costs, they must be rewarded with some of the benefits. Some evidence suggests that there are indeed benefits to be shared. A recent study of small manufacturing firms in Michigan that received training grants from the State government significantly raised productivity by re ducing wastage. Another survey of manufacturing firms that introduced formal training programs in 1983 suggested that these firms enjoyed faster productivity growth than other firms. How these benefits are shared will depend upon turnover rates among trained workers. The experience of those firms that have been willing to participate in the school-to-work initiative, or have invested in incumbent workers, will have an important impact on future investment in education and training by the private sector.

## POSTSECONDARY EDUCATION AND TRAINING

As described above, many young people seem to have responded to the rising payoff to college. The proportion of 18 - to 24 -year-olds enrolled in college increased by onethird between 1980 and 1994. Moreover, college students are increasingly likely to earn degrees in the fields where earnings are rising the most, such as in engineering, the sciences, and the health occupations. But not all young people have reacted similarly. Although college enrollment rates have increased for most groups, differences in college enrollment rates by race and by family income have widened since 1980.

One possible cause of the widening gaps in college enrollment rates is the dramatic increase in the cost of a college education, at public as well as at private institutions. Between 1980 and 1994 the real average tuition at public 2 -year and 4 -year colleges rose by 70 percent and 86 percent, respectively. Over the same period, however, the value of the maximum Pell grant, the primary Federal grant program for low-income students, fell by more than 25 percent in real value. Not counting parental borrowing, the maximum amount a dependent undergraduate student could borrow over 4 years of college also declined by 5 percent in real value
(Chart 7-4). Even if one takes State and institutional need-based aid into account, the net cost at a public 4 -year college for the average youth with family income in the bottom quartile rose between 1987 and 1993.

Chart 7-4 Real Change in Maximum Pell Grant, Loan Limit, and Tuition, 1980-94
Inflation-adjusted college tuition and fees have increased, while the maximum Pell grant and Federal student loan limit have decreased.


Note: Tuition includes tuition and required fees. The CPI-U-X1 is used to adjust all values. Sources: Department of Education and The College Board.

The college entry decisions of young adults, particularly those from low-income families, seem to be quite sensitive to increases in tuition. A number of studies have attempted to measure this price sensitivity by comparing enrollment rates in high- and low-tuition States. These studies suggest that a $\$ 100-\mathrm{per}$-year difference in college tuition levels is associated with a 1.2 to 1.6 percent difference in college enrollment rates among 18 - to 24 -year-olds. Some recent evidence also suggests that those States that have raised tuition see slower rates of growth in enrollment, and that the gaps in enrollment rates between high- and low-income youth have grown most in those States that have raised tuition.
Rising costs were not the primary cause of rising tuition at public institutions. Educational expenses per full-time student (including costs of instruction, administration, student services, libraries, and operation and maintenance of physical plant, but excluding sponsored research and scholarships and fellowships) rose by only 15 percent in real terms between 1980 and 1992 at public 4 -year colleges and by only 12 percent at public 2 -year colleges. Rather,
public tuition rose primarily because State and local taxpayers were paying a smaller percentage of the cost than they had in the past. As enrollments have risen and as other demands on State budgets have grown, States have responded by raising tuition rather than increasing their appropriations proportionately.

## Reforming Student Aid Policy

Given the forces at work, the Nation faces a number of difficult choices in the financing of higher education. In addition to a continuing increase in the demand for a college education, demographic trends indicate a 20 percent increase over the next 15 years in the population of traditional college-age youth. In some States, such as California, the demographic shift will be even more pronounced. Unless State budgets for higher education grow, public tuitions are likely to continue rising, not because costs are rising, but because State appropriations will be spread over Iarger enrollments. This will make a college education even less accessible for many Americans. Therefore Federal student loan and grant programs are likely to be more critically important than ever before.

To meet these new challenges, the Administration's direct lending program has sought to provide educational financing in a less costly, less cumbersome manner, with more flexible terms of repayment. The Federal Government issues loans to students through the financial aid offices of colleges, bypassing the more than 7,500 private lenders, 41 guaranty agencies, and 90 secondary market participants that make up the Federal Family Education Loan (FFEL) program.
Under the FFEL program, the Federal Government guarantees a return to banks that provide financing for student loans. Under the direct lending program, on the other hand, the Federal Government provides the capital. Whether or not direct lending saves taxpayers money depends on whether the Department of Education can service the loans for less than the subsidies it pays the private banks to carry the loans. Based on the prices it has already negotiated with private contractors to service the loans, the Administration believes that the program can deliver substantial budgetary savings. At the time the Student Loan Reform Act was passed in 1993, gradual conversion to direct lending was projected to save more than $\$ 4$ billion over 5 years.
However, the debate over the cost savings generated by direct lending has overshadowed discussion of the quality of service received by students and colleges participating in the program. On this question there seems to be little disagreement, at least among the colleges and students themselves. Direct lending clearly provides more timely, more accessible service to students and universities. After the first year of direct lending, in which 104 schools participated, a survey funded by the Department of Education re-
vealed that 61 percent of participating schools reported themselves very satisfied and an additional 28 percent were satisfied. The General Accounting Office (GAO) also evaluated the program. Officials interviewed at 11 of the 17 schools examined by the GAO described themselves as greatly satisfied with direct lending, and the remaining 6 reported being generally satisfied. None of the schools reported serious misgivings. The GAO report also cited a number of ways in which direct lending helped students and universities: parents and students do not have to file separate loan applications to banks; students receive their loans more quickly; students know whom to contact for deferments or other questions, because their loans are not resold; and each college works with a single lender, the Federal Government, rather than hundreds of financial intermediaries.

## More Flexible Options for Repayment

The average student borrower completing 4 years of undergraduate education today leaves school approximately $\$ 11,000$ in debt. As loan burdens grow with ever-rising tuitions, flexibility in the terms of repayment can lighten the burden significantly. The direct lending program offers four different repayment options to provide such flexibility: the standard plan, the extended plan, the graduated plan, and income-contingent repayment. Private banks also can offer some choice in the form of repayment.

Under the standard repayment plan, borrowers pay fixed nominal monthly payments over a 10-year term. At an annual interest rate of 8.25 percent, a borrower with the average debt for someone finishing a bachelor's degree pays $\$ 135$ per month. Under the extended repayment option the same borrower would pay $\$ 107$ per month, with payments spread over 15 years.

Under both the standard and the extended plan, the nominal payment is fixed over the term of the loan, so that the real value of the payment actually declines over time. However, a dedining real payment schedule may impose unnecessary hardship since young college graduates often earn significantly more after a few years on the job than they did immediately out of college. The graduated plan therefore attempts to ease their debt burden by matching payments more closely to this expected rise in earnings. For instance, a borrower with $\$ 11,000$ in debt would make payments of $\$ 77$ per month during the first 2 years and end with a $\$ 175$ monthly payment during the 15th year.

The income-contingent option is even more flexible: monthly payments are calculated on the basis of the borrower's adjusted gross income, as reported by the borrower and verified by the Internal Revenue Service. The above graduate starting his or her career making $\$ 18,000$ and enjoying annual earnings increases of 5 percent would begin by paying $\$ 90$ per month and end, after 15 years,
paying $\$ 121$ per month. Borrowers whose earnings are so low that they still have loan balances after 25 years of repayment will have those balances forgiven. Income-contingent student loans may thus be viewed as an innovative form of "forward-looking" means testing (Box 7-4). Although it is too early to tell, more flexible terms of repayment may also lower default rates by helping to deter borrowers from getting behind in their payments early in their careers.

## Box 7-4.-Income-Contingent Student Loans as ForwardLooking Means Testing

Means testing in student aid programs "taxes" the income and assets of parents and students at a high rate by providing less aid for those with higher incomes or more assets. Because the implicit taxes apply for every year that one has a child in college, the marginal tax rates on savings can approach 50 percent for families with two children attending college for 8 years. In other words, for every dollar in savings above a threshold, parents may lose 50 cents in financial aid, lowering parents' incentive to save. In the past these very high tax rates did not apply to very many families, because many families' incomes were too high to qualify for any aid. However, as tuition levels rise, the marginal tax rates apply to an increasing number.

High marginal tax rates are an inevitable result of "back-ward-looking" means testing, in which financial aid is distributed according to the recent past income and assets of applicants and their parents (usually a single year of income and assets). In contrast, the income-contingent loan program may be thought of as a form of "forward-looking" means testing. It has three advantages: it targets resources on those with low earnings after they leave college (rather than just low family incomes in the year before they enter college); it provides some "insurance" to students from middle- and higher income families who may be anxious about their future labor market prospects given a large debt; and it broadens the base of income used for means testing from a single year to the student's whole career. Because parents' savings are not taxed when means testing is forward-looking, parents may even save more to contribute to their children's education. Moreover, this for-ward-looking means testing is more suited to the needs of older workers seeking to return to school, since the traditional back-ward-looking financial aid formulas were often designed with traditional college-age dependent students in mind.

In a time of rising tuition and strained public budgets, publidy guaranteed loans make the most of public resources while ensuring that young people use the Nation's educational resources prudently. The availability of the income-contingent repayment scheme protects those with very low or highly variable earnings later in their careers. If tuition levels continue to increase, limits on student borrowing under both the direct lending and the FFEL programs may need to be raised in coming years. At present, dependent undergraduate students (those who are unmarried, not veterans, with no dependents, and less than 24 years of age) can borrow only $\$ 2,625$ during their first year in college, $\$ 3,500$ during the second year, and $\$ 5,500$ per year during the junior and senior years. Parents are allowed to borrow more under the Parental Loans for Undergraduate Students (PLUS) program. However, since payments on PLUS loans begin immediately, many parents may be reluctant or unable to take on the additional burden. Tuition expenses alone exceed the $\$ 2,625$ limit at a group of public 4 -year institutions that together enroll 42 percent of all undergraduate students. As a result, unless borrowing limits are raised, an increasing number of dependent students will not even be able to borrow enough under the Federal programs to pay their college tuition and living expenses.

## Default Rates

Ever since the inception of the Federal student loan programs, defaults have been a significant concern. This concern was heightened, however, when default claims paid to lenders exceeded $\$ 2$ billion for the first time in 1989. Under this Administration, the Department of Education has made lowering student loan default rates a high priority. Default rates differ markedly according to the institution the borrower attended. Therefore the Department of Education has imposed standards to preclude schools whose attendees have high default rates from receiving federally guaranteed loans: postsecondary institutions can lose eligibility to participate if they have a default rate in excess of 25 percent for 3 consecutive years. (The default rate is calculated as the percentage of loans going into repayment in a given year that default by the end of the following year. This threshold has been lowered from 35 percent in 1991 and 1992.) Approximately 250 schools have been declared ineligible to participate in the loan programs based upon their 1992 default rates. An additional 190 schools have appealed the calculation of their default rates, and it is anticipated, based on past appeals, that many of these institutions will also lose eligibility. Although it is difficult to distinguish the impact of regulatory efforts from the effects of an improving economy, the default rate has been cut nearly in half over the past few years: from 22
to 12 percent for debts going into repayment in the years 1990 and 1993, respectively.

## Future Challenges

A college education is becoming both more expensive and more important for a successful career. The combination of these two trends is making parents and students increasingly anxious. The Federal Government provides a number of separate grant, loan, and work-study programs for college students, but this variety of programs may itself add to the lack of transparency in the financial aid process, increasing families' anxiety. Students and their parents could make better decisions regarding college if they knew more about how much they could borrow or receive in grants and how much they were likely to have to finance out of their own income and savings. Complicated means tests necessarily make it difficult for students to anticipate the exact mixture of grants and loans they will receive. Even so, there could be much better information about the size of the total package available. M oreover, parents and students who are worried about rising debt burdens may find that the more flexible options for repayment now available help relieve their concern.

## BETTER OPTIONS FOR THOSE ALREADY IN THE LABOR FORCE

As different skills appreciate or depreciate in value, workers must have the opportunity to react to these changes in the labor market. As proposed in the G.I. Bill for America's Workers, the Administration has also been working to reinvent how the Nation delivers education and training services to those already in the workforce. Both the Congress and the Administration have proposed consolidating many of the separate education and training programs now administered by the Departments of Labor and Education and providing block grants to the States. These reforms are intended to convert our unemployment system into a re-employment system. Although the proposals differ in some details-particularly in the level of funding-they are similar in at least two important dimensions.

First, States would coordinate the delivery of employment and training services through one-stop career development centers. The goal of the onestop centers would be to allow workers to find out about employment opportunities, apply for jobless benefits, learn about available training programs, and receive assistance in financing that training all in one place. Sixteen States have already received multiyear implementation grants from the Department of Labor to begin integrating an array of education, training, and employment programs into the one-stop centers. The remaining

States, which are at an earlier stage in the process, have all received grants to plan the transition to the one-stop concept.

Second, the Congress and the Administration have both proposed consolidating more than 70 existing training programs and giving training recipients the ability to choose the program that best meets their needs. Under the Administration's proposal, dislocated and low-income workers would be eligible for so-called skill grants of up to $\$ 2,620$ per year to complete an associate degree, enough to cover tuition, supplies, and fees at a typical community college. Other proposals would provide the funding to States in the form of block grants but would also encourage States to allow recipients more discretion in choosing the training program that is right for them. Unlike the current system, in which government agencies often choose what training workers will receive and who will provide it, grants could be used by workers themselves to find the best match among eligible training providers. But any worker, regardless of his or her income or employment status, could use the centers to learn about training and education options and would receive guidance in applying for educational loans.
Both reforms are intended to enhance accountability among providers: training providers that do not attract workers' interest would be allowed to founder and the more successful programs to flourish. Accountability will be enhanced if the quality of information available to workers for assessing different programs, such as graduation rates or placement rates (using, for instance, unemployment insurance wage records to track the employment histories of graduates of each program), can be improved. By voting with their feet, workers themselves will be empowered to shut down ineffective training programs and expand those that meet the changing needs of the labor market-decisions that may be more difficult for program administrators to make.
The $\$ 10,000$ tax deduction for tuition expenses in the Middle Class Bill of Rights (described in Chapter 3, Box 3-4) will also lower the cost of further training for those workers going back to school, as well as for families with dependent children struggling with large tuition increases.

## CONCLUSION

Ever since the Nation's founding, the Federal Government has been a partner in education and training. It has served as a clearinghouse for research and evaluation results, contributed to equality of educational opportunity by targeting resources to low-income schools and college students, and guaranteed educational loans for college students. No other layer of government could assume these responsibilities as effectively and efficiently.

In addition to these traditional responsibilities, the Federal Government must also help coordinate a national response to the dramatic changes in the labor market. The Federal Government has responded by providing funds to States interested in developing new pathways from school to work. To add focus and momentum to school reform efforts, the Department of Education has offered seed money to States for the development of voluntary content standards in core subject areas and has encouraged States to develop testing tools for measuring their progress. Federal grants have supported the startup of charter schools and investments in educational technology. In these new endeavors, the Federal role is properly understood as that of a catalyst-vital but temporary.

Progress has been made. Despite some year-to-year fluctuations, test scores in math and science have risen for all age groups since 1980. High school graduation and college enrollment rates have also risen. But this is no time to drastically scale back those efforts. The shift in demand has continued to outpace the increased output of more skilled workers: earnings differences between the more and the less educated continue to widen. Someday the increase in supply may begin to overtake the increasing demand of the labor market and dampen future increases in wage inequality, but at least until that day arrives, the Federal Government must continue to support State and local efforts to transform their educational systems.

In the midst of efforts to balance the Federal budget, it is important to keep in mind that the objective of deficit reduction is to spur long-term economic growth by freeing up more of the Nation's savings for productive investment. To cut investment in education and training simply for the sake of balancing the Federal budget in the short term runs counter to that goal. Education and training have always been a major source of U.S. growth; as the economic returns have increased, these undertakings should represent a larger share of the Nation's investment portfolio, not a smaller one. As families and communities respond to the rise in the payoff to skill by investing in themselves, the Federal Government should not shrink from the task of encouraging and complementing their efforts.

## CHAPTER 8

## The United States in the World Economy

AMERICA HAS LONG LED THE WORLD in championing open trade and competition. The result has been an unprecedented period of worldwide growth in incomes and trade. The expansion of international trade that supported postwar growth in incomes has been accompanied by dramatic transformations in the economies of the United States and other countries. In 1960, trade-exports plus imports-was equivalent to just 9 percent of U.S. gross domestic product (GDP); that figure is now 23 percent. Twelve million American workers now owe their jobs to exports, and the opportunities for global sales represent a critical part of firms' investment, research and development, and hiring decisions. The importance of exports to the U.S. economy has been strikingly apparent in the last 3 years; U.S. exports of goods and services have grown by 20 percent, accounting for about one-third of real GDP growth.

Not only the size but also the geography of the international market has changed since the 1950s. Developing countries that adopted market-oriented policies grew significantly faster than those that clung to closed markets and statist policies. Now many of these successful emerging economies have become major markets. Whereas in 1970, 29 percent of U.S. exports went to developing countries, in 1995 these same countries absorbed 41 percent of U.S. exports. These will be the major growth markets into the next century and will generate huge demands for capital goods, infrastructure, and an increasing variety of consumer goods.

But a high-income, highly competitive economy poses challenges as well as opportunities. Technological change, business reorganization, and international competition have at times required painful adjustments of workers and firms. Critics of international trade often point to the trade deficit, "lost" domestic production due to imports, or expanding income differentials as evidence that foreign trade and investment are harmful to the United States.
Americans have legitimate concerns about job security and standards of living, and the Administration is strongly committed to fostering better jobs and greater economic security. But neither job security nor future income growth will be enhanced by closing the American economy to foreign competition. As the 21st century
approaches, the Administration firmly believes that economic isolation would lead only to economic dedine, and that the most promising way forward is to rise to the challenges of the international market. We can and must compete, not retreat, in the face of global competition.
The Administration has pursued an aggressive trade policy to open markets abroad. Despite historic reductions in trade barriers and the striking growth in U.S. exports, many countries still maintain formal trade barriers, or more subtle administrative or collusive barriers, that prevent other nations' firms from competing on an equal basis. This Administration has insisted that other countries live up to their obligations under international and bilateral agreements and has attacked remaining barriers that discriminate against U.S. exports.
This chapter explains why outward-looking, competitive policies remain the best choice for America and examines the Administration's record in promoting open competition across the globe. Special attention is given to the role of trade policy and to the proper measure of its success. This chapter also discusses the causes and consequences of the trade deficit and effective policy for reducing it.

## THE BENEFITS OF OUTWARD-LOOKING, MARKETOPENING POLICIES

Open, competitive trade promotes the economic welfare of all countries that engage in it, and does so in four ways. It secures the benefits of national comparative advantage, allowing each trading economy to devote more of its resources to producing those goods and services that it can produce most efficiently. It sharpens domestic competitive pressures, spurring productivity gains. It quickens the flow of technology and ideas, allowing countries to learn from each other. And it broadens the variety of inputs available to producers and final goods available to consumers, boosting efficiency and standards of living.

Nations that engage in trade benefit from the logic of comparative advantage, as each imports those goods that are produced more cheaply abroad, and exports those goods that are produced more cheaply at home. Box 8-1 offers a simple example that illustrates this traditional argument favoring free trade. Critics argue, however, that many industries of increasing importance in the world economy (including many high-technology industries) are characterized by economies of scale in production, and that these scale economies undermine the simple comparative advantage argument. But although economies of scale do complicate the story, they do not invalidate the principle of comparative advantage or
lessen its importance, as Box 8-2 explains. Now more than ever, unimpeded access to a world market is crucial.

## Box 8-1.-Comparative Advantage and Living Standards

The classic argument for free trade is based on the principle of comparative advantage. Suppose U.S. workers are much better at producing computer software and somewhat better at producing shoes than workers in Thailand. Comparative advantage states that trade between the two countries-with the United States exporting software and Thailand exporting shoes-can still boost living standards in both.

A simple analogy may help illustrate this abstract and seemingly implausible intuition. Imagine a lawyer who happens to be a very good typist-so good that she is somewhat faster than her secretary. Even though the lawyer is better than her secretary at both practicing law and typing, it makes sense for her to spend all her time on the law and leave the typing to her secretary. A greater combined total of lawyering and typing will get done in the same amount of time than if each did some or all of the other's work, and the incomes of both workers will be greater than they would otherwise.

Similarly, by allowing countries to focus their resources on what they do relatively well, international trade boosts living standards. Especially when an economy is near full employment, the primary impact of trade is on the allocation of jobs among industries rather than the overall number of jobs. Trade allows employment to be shifted into relatively more productive, better jobs. This effect is manifest in U.S. wage data: jobs in the United States supported by goods exports pay 13 percent more than the national average. This is not surprising, given that U.S. comparative advantage lies in highly specialized manufacturing and service activities, not in low-skill, low-wage sectors. Comparative advantage in high-skill industries, however, appears to provide only a partial explanation for the higher wages paid in export jobs. Even after plant size, location, industry, and skill category are controlled for, exporting plants seem to pay higher wages than nonexporting plants.

The second argument in favor of open competition is that exposure to the challenges of the international marketplace strengthens competitive pressures in the domestic economy, stimulating efficiency and growth. An open trade regime effectively increases the number of both actual and potential competitors in the domestic market by including those located beyond the Nation's borders. This encourages domestic producers to innovate and become more

## Box 8-2.-The New Trade Theory

Over the past 15 years, economists have formalized new models of international trade that offer theoretical justifications for protectionism. These models, often referred to collectively as the "new trade theory," have prompted a reexamination of the costs and benefits of open trade.

The new trade theory assumes that certain industries enjoy increasing returns to scale or generate positive spillover benefits to society as a whole, for which the industry is not compensated. Increasing returns actually raise the gains from trade: they make it even more efficient to sell to a global market. But in some cases, unilateral protection can raise social welfare. Under the right conditions, for example, temporary protection can secure a permanent cost advantage for a domestic firm by discouraging foreign producers from entering the market. If the monopoly rents that then accrue to the domestic firm are large enough to offset the costs of capturing them, the nation as a whole benefits.
These sophisticated arguments for protectionism do not necessarily invalidate the case for free trade. Even with scale economies, if all countries adopt protectionist policies in the hope of making their national champion the global monopolist, the costs will be even higher than in the absence of increasing returns. With access to foreign markets blocked, all hope of any firm exploiting the increasing scale returns is lost; the traditional losses from protectionism (arising from ignoring comparative advantage) are then compounded by the failure to produce at efficient scale. In a sense, therefore, protectionism is even more costly with increasing returns than without them.

But perhaps the greatest challenge in the new trade theory sweepstakes is targeting only those industries and firms that best meet the theory's narrow conditions. In practice, selection would be complicated by political pressures from special interests, who are likely to exaggerate the positive spillovers their industries contribute. And the costs of an erroneous choice may prove counterproductive: granting protection in inappropriate cases may outweigh the benefits of granting it in appropriate ones. In sum, the new trade theories provide a possible theoretical justification for protectionist policies in some limited cases. But practical considerations suggest that the potential gains, if any, are likely to be small.
competitive. Consumers, both at home and abroad, reap the benefits.

A third, related argument is that access to international markets stimulates the flow of information across borders. Domestic firms engaged in international competition assimilate new ideas about production methods, product design, organizational structure, and marketing strategy, allowing them to employ their resources more efficiently. Open competition thus boosts productivity.

Finally, trade expands the menu of goods and services available to both producers and consumers. Firms gain access to a wider variety of inputs, and consumers get to choose from a broader assortment of final goods and services. By expanding the choices available to all, trade boosts efficiency and improves living standards.

One can also gauge the benefits of open markets by assessing the cost of the alternative, namely, protectionism. It is impossible to protect all industries; protecting some inevitably distorts market signals and imposes higher costs on other industries and on domestic consumers. F or example, extending protection to the steel industry imposes a cost on automobile manufacturers, who pay more for steel, and on consumers, who pay more for a new car than they would if steel were available at the lower world price. Because the impact of such restrictions is both indirect and spread over a large number of consumers, the total cost may be difficult to discern. But it is nevertheless quite real, and it is likely to grow over time. By raising the relative price of the protected sectors' output, and thus drawing capital and labor into those sectors and away from others, protectionist policies prevent the most efficient long-run use of an economy's resources. These distortions may be particularly harmful when restrictions are imposed on inputs used by industries that are characterized by economies of scale in production (that is, by lower average costs per unit at higher levels of output; Box 8-2).

Finally, every protectionist action invites retaliatory reaction. The costs of a tit-for-tat escalation are so high that in the long run all countries are likely to lose from the adoption of restrictive policies. The experience of the 1930s provides a grim demonstration: the major industrial countries responded to the onset of the Great Depression by raising trade barriers against each other, which provoked retaliation in kind and succeeded only in weakening their economies still further. A better strategy is for all to strive for a regime of open and fair competition, rather than to focus on any possible (and in any case usually illusory) short-term gains from protection.
Many of the same advantages that accrue from an open trade regime also accrue from international investment flows. Inward flows of foreign direct investment can boost efficiency and cross-border learning. Direct investment in the opposite direction-that by do-
mestic firms in countries overseas-also promotes such learning and is closely linked to export expansion: approximately threefifths of U.S. exports are sold by U.S. firms with operations abroad, and several recent studies have confirmed that foreign direct investment is more likely to increase trade than reduce it.

## THE EVIDENCE ON OPEN ECONOMIES

Trade affects growth through various channels, but the cause-and-effect relationship is difficult to establish in practice: even if expanded trade is statistically associated with growth in income, does the expansion in trade cause the expansion in income, or vice versa? There can be no definitive answer, but careful studies generally conclude that trade liberalization establishes powerful direct linkages between the domestic and the world economy, unencumbering the flow of ideas and technology across borders, bolstering competitive pressures.

A recent economic analysis, which controlled for other national characteristics such as education, starting income, and political instability, found that the open economies in a sample of 79 countries grew by an average of 2.5 percentage points more per year (over a 20 -year period) than did the closed economies. A comprehensive study of productivity across manufacturing industries in Germany, J apan, and the United States recently concluded that trade restrictions generally hurt productivity by reducing competitive pressures; productivity growth is the single most important factor underlying sustained increases in income. Other studies have found that protection of industries that produce intermediate inputs reduces growth. For example, one recent study found that, across a sample of over 70 countries, a 10-percentage-point increase in the tariffs on capital goods and intermediate products was associated with a decline in real growth of GDP per capita of 0.2 percentage point per year. For the United States, such a reduction in growth over the 10-year period through 1994 would have lowered GDP per capita by $\$ 500$ from its actual 1994 level of $\$ 26,558$.
Even when trade restrictions are used to curtail unfair foreign competition, they can still impose costs on consumers. The U.S. antidumping and countervailing duty laws, for example, are intended to offset the effects of unfair foreign competition: antidumping laws seek to counter unfair pricing by foreign firms, while countervailing duties seek to compensate for the anticompetitive effects of foreign government subsidies. The concern is a legitimate one: U.S. living standards could be diminished by certain types of predatory foreign behavior. But many analysts believe that many of the cases filed under these statutes have little to do with preventing unfair competition, and the duties make consumers and do-
mestic businesses pay higher prices for imported goods and inputs. In any case, a recent study found that the net cost of the 163 antidumping duty orders and 76 countervailing duty orders in place in the United States in 1991 was $\$ 1.6$ billion.

## TRADE AND WAGE INEQUALITY

Over the past 15 years the real earnings of low-skilled U.S. workers have fallen sharply while those of highly skilled workers have risen: between 1980 and 1994, real average annual earnings for high school dropouts aged 25 to 34 fell by 18 percent, while those for college graduates rose by over 3 percent. Over the same period, imports have risen as a percentage of GDP. Are these two trends related? Is increased trade hurting low-skilled workers, and if so, is this an argument for protectionism?

In theory, increased trade could worsen inequalities in wages even while raising aggregate income. The U.S. economy has a relative abundance of skilled labor, and so U.S. comparative advantage is in producing skill-intensive goods. Traditional models of trade therefore suggest that the United States would tend to export goods requiring relatively large amounts of skilled labor and import goods requiring relatively large amounts of unskilled labor. International trade would in effect increase the supply of unskilled labor to the U.S. economy, lowering the wages of unskilled American workers relative to those of skilled workers, thus aggravating wage inequality.

Economic theory does not, however (except under extremely restrictive assumptions), tell us how great the resulting gap in wages will be. Moreover, careful examination of the channels through which trade should affect wages suggests that other factors bear a larger responsibility for the widening of wage differentials. Foreign workers do not compete with American workers directly, but rather through the products that they produce and sell. The argument that imports drive down wages for unskilled labor is predicated on a relationship between the relative prices of goods and the prices of inputs used to produce them. If competition from developing countries lowers the prices of goods requiring unskilled labor as their major input, the wages of unskilled workers will be driven down, widening income disparities. The problem with this argument is that there has been no such change in relative goods prices: over the 1980s the average relative price of goods that require substantial inputs of unskilled labor actually increased.

If trade, or factors such as immigration that affect the relative supply of workers, were the predominant cause of wage disparities, one would expect to see domestic producers taking advantage of the lower cost of unskilled workers by using more of them. Yet just the
opposite has occurred. In almost all industries, employment of skilled workers has increased relative to that of unskilled workers, despite the higher cost of skilled workers. This suggests that factors affecting the demand for different kinds of workers, such as technological changes that have increased the demand for skilled workers, have been the more powerful force in influencing relative wages.

Yet even if the effect is small, trade may indeed have some adverse impact on wage inequality. In many ways the effects of trade are similar to those of technological advance: both raise national income but can worsen inequality. Yet just as a neo-Luddite crusade against technology is not the solution to increased inequality due to technological progress, neither is protectionism the answer to wage inequality resulting from expanded trade. Several recent studies show that protection can impose costs on the economy that far outweigh the targeted benefits. Moreover, import protection cannot promise continuing reductions in inequality over time. At best, a strategy of import protection would narrow the wage gap temporarily at the risk of slowing the rate of productivity and income growth generally.

Ultimately, the only lasting solution to the increase in wage inequality that results from increased trade is the same as that for wage inequality arising from any other source: better education and increased training, to allow low-income workers to take advantage of the technological changes that raise productivity. In addition, programs such as the earned income tax credit and the minimum wage can be effective in raising the after-tax wages of lowincome workers.

## U.S. TRADE POLICY IN THE 1990s

Governments play a decisive role in determining the rules of competition in international markets. J ust as governments must be responsible for regulating domestic markets, they must also be responsible for the rules that govern international trade and investment. This is a responsibility that cannot be shirked-even the absence of a formal trade policy is itself a policy. The objective is therefore to structure government involvement so as to help, not hurt economic performance.

The United States has led international efforts to liberalize world trade and investment, and this Administration has actively sought to eliminate foreign market barriers to U.S. exports. Regardless of their effects on the overall trade balance, these market-opening policies raise U.S. incomes by securing the gains from international trade. As already noted, the expansion of market opportunities is especially important in industries characterized by economies of
scale (e.g., those with high fixed costs). The opportunity to sell in a larger market allows these fixed costs to be spread over a larger number of units, reducing average cost.
Opening up markets to U.S. exports also increases world demand for our products by removing artificial barriers to their consumption by foreigners. Stronger demand raises the prices that our products command on world markets, and so improves our terms of trade with the rest of the world. The terms of trade (defined as the ratio of the average price of our exports to that of our imports) affects U.S. real incomes. An increase in the terms of trade means that, for any given volume of exports, Americans can purchase more foreign goods. Even a small change in the terms of trade can have a huge effect: a 1 percent rise in the terms of trade corresponds to a real increase in income of more than $\$ 7$ billion.

Open markets benefit all participants in international trade, even those whose own national markets are closed to foreign competition. Open markets are a public good, the benefits of which are available to all. As with any public good, countries have some incentive to "free ride"-to seize a share of the benefits without assuming any of the costs (the case of trade may be special, however, in that every country may have an incentive to adopt open trade policies regardless of what other countries do). The negotiators in the Uruguay Round of the General Agreement on Tariffs and Trade (GATT) recognized the importance of ensuring every nation's participation in lowering trade barriers: in almost all respects, membership in the new World Trade Organization (WTO), created under the 1994 Uruguay Round agreement, requires adherence to all of its rules. Indeed this is one of the reasons why the Administration strongly supported the Uruguay Round agreement.

Even those nations that have adopted the general rules of the trading system often come under pressure to intervene in particuIar instances-to protect industries going through difficult adjustments to foreign competition, to skew the rules in favor of domestic companies, or to try to influence foreigners to purchase from domestic firms. An aggressive policy to protect American interests from such practices abroad helps ensure that U.S. firms do not lose out, and that foreign governments are less inclined to try to bend the rules. The strengthened dispute settlement process within the WTO, together with the United States' own Section 301 legislation, which addresses unfair or unjustified foreign practices, are the most important tools that the United States uses to enforce our rights in the trade and investment arenas.

## THE ADMINISTRATION'S TRADE STRATEGY

This Administration has embraced an outward-oriented, protrade, progrowth economic strategy. In its first 3 years in office,
this Administration has concluded over 200 trade agreements and done more to promote trade and open markets abroad than any previous Administration (Box 8-3). We are using all the tools available to us-multilateral, regional, and bilateral-to advance our protrade agenda. This multilevel approach to trade policy has become particularly important as the nontraditional aspects of trade policy have assumed increasing importance (Box 8-4), and as global trade patterns have shifted toward emerging markets. Recognizing that success is measured not by the number of agreements signed, but by concrete results, the Administration has taken great pains not only to reach mutually beneficial agreements with our trading partners, but also to follow through in implementing, monitoring, and enforcing those agreements.

In assessing the results of the Administration's trade policies to date, it is important to recognize what trade policy can and cannot do. Trade policy can raise U.S. income and productivity, but it cannot significantly affect the overall trade balance. That is determined by domestic saving and investment and by government fiscal policy. Although the overall trade balance may not change, trade policy can alter the composition (both the sectoral breakdown of products traded and the shares of individual trading partners) and the overall leved of trade. But U.S. trade policy should not be judged by whether our trade is in balance in any particular product or with any particular country. Even if our overall trade were balanced, there is simply no reason to expect (or desire) that our imports of cabbages or computers will match our exports of cabbages or computers, or that our sales to J apan or Zambia will cancel out our purchases from those countries, in any given year or even over an extended period. As we have already seen, it is precisely the ability to specialize, to concentrate on what we produce most efficiently, and to sell it in those markets that offer the highest returns, that is the fundamental source of the gains from international trade.

## Multilateral Initiatives

The Uruguay Round trade agreement was signed in April 1994. The agreement went into force on J anuary 1, 1995, with some provisions phased in over a 10-year period. The 1995 Economic Report of the President describes the agreement in detail.

Over nearly five decades, a series of GATT negotiating rounds has developed basic principles for the international trading system, which have guided trade negotiations in other spheres and have informed (and been informed by) U.S. trade policy. These principles include nondiscrimination, transparency, and reciprocity. Nondiscrimination is defined by two precepts: the most-favored-nation (MFN) precept requires that the most favorable concessions that a country gives to any trade partner be applied to all its trade part-

## Box 8-3.-The Administration's Trade Achievements

Over the last 3 years the Administration has:

- Brought the Uruguay Round of multilateral trade negotiations to a successful close after 7 years. The Uruguay Round agreement cuts global tariffs by an average of 40 percent and extends international trade rules to agriculture, services, and intellectual property rights. The United States will eventually gain an estimated additional $\$ 100$ billion to $\$ 200$ billion in income per year from the agreement.
- Through the North American Free Trade Agreement (NAFTA), created a free-trade area encompassing our largest and third-largest trading partners. NAFTA has helped maintain and indeed increase U.S. exports to Mexico despite a financial crisis and recession there.
- Reached agreement with 33 other countries-including some of the world's biggest emerging markets-to seek a Free Trade Area of the Americas by 2005. Trade with countries in the hemisphere already accounts for roughly 40 percent of U.S. exports.
- Articulated a vision for achieving free trade and investment by 2020 in the fastest-growing region of the world: the Asia-Pacific. At the 1995 Asia-Pacific Economic Cooperation summit in Osaka, J apan, the leaders of the 18 member countries detailed the steps they will take to make this vision a reality.
- Negotiated 20 bilateral trade agreements with J apan. In those goods sectors covered by these agreements for which precise data are available, U.S. exports to J apan have grown nearly 80 percent since this Administration took office.
- Established a National Export Strategy under the leadership of the Trade Promotion Coordinating Committee, which for the first time coordinates the Federal Government's efforts to assist U.S. exporters through advocacy, export financing, and business counseling.
- Promoted macroeconomic and trade policies that have contributed to strong export growth. Exports of goods and services have grown 20 percent in real terms since the Administration took office.


## Box 8-4.-Trade and Intellectual Property Rights

A major nontariff barrier to U.S. exports is the lack of adequate protection for intellectual property rights (IPR) in certain countries. The nature of intellectual property has always made it vulnerable to piracy: theft of intellectual property costs U.S. exporters billions of dollars in lost sales and royalties annually. Many of the top U.S. export earners-including copyrighted products such as films, sound recordings, and computer software, and patented products such as new pharma-ceuticals-are among the most vulnerable. Piracy not only reduces U.S. export earnings but also discourages the development of new products by lowering the returns to innovation. Efforts to establish strong IPR protection abroad have therefore been an essential element of this Administration's trade policy, advanced through multilateral, regional, and bilateral mechanisms.

The Uruguay Round Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPs) makes significant progress in securing stronger protection for IPR worldwide. It is the first international agreement to protect a full range of intellectual property and to provide for the establishment of the legal and judicial structures needed to enforce IPR protection. The TRIPs agreement requires all WTO members to set improved rules for the protection of copyrights, integrated circuits, patents, trademarks, trade secrets, and designs. The new rules will then be subject to the WTO's improved dispute settlement system.
ners; national treatment requires that a country's laws and regulations treat foreign products no differently from domestic products. Transparency ensures that the rules governing trade are explicit and that due process is followed in applying them, and reciprocity refers to the balancing of concessions from different countries. In addition, the GATT process has endorsed the use of safeguardsescape clauses and other forms of temporary relief from import surges-to protect against job dislocation during transitions.

The Uruguay Round agreement called for negotiations in three service sectors to be extended beyond the Round's conclusion: financial services, telecommunications, and maritime transport. The WTO's major negotiating effort in 1995 focused on the first of these. As the extended negotiating period for financial services drew to a close, the United States concluded that many offers-especially those from several emerging economies-provided inadequate new market access or did not formally protect even existing market access. The United States therefore announced that it
would take an MFN exemption (that is, that it would not apply MFN treatment to all WTO members), allowing the United States to grant differential market access for new entrants and the new activities of foreign financial services suppliers. The United States also indicated that, while reserving its legal right to do so, it had no intention of imposing new restrictions on foreign firms. The participants in the negotiations nonetheless reached an interim agreement on J uly 28, to be reconsidered by the end of 1997. The United States is a party to the agreement and is entitled to all the commitments made by all participants.

WTO negotiations on telecommunications liberalization were initiated at the meeting of trade ministers of the WTO member countries in Marrakesh in April 1994. The talks are scheduled to conclude by April 30, 1996. As of J anuary 1996 there were 48 WTO members participating, 33 of which had submitted offers detailing the liberalization they are prepared to undertake. The telecommunications negotiations are taking place at a critical point in the evolution of the global telecommunications industry. As Chapter 6 has described, the telecommunications sector was long considered a natural monopoly and has been heavily regulated or state owned in most countries. In recent years, however, technological change has greatly increased the scope for entry and competition. At the same time, systems of regulation and public ownership that were designed to protect consumers have in many cases become obstacles to competition and further progress, from both domestic and foreign firms. Thus deregulation and trade liberalization are closely intertwined, and the outcome of the trade negotiations depends on legislative reform in the major participating countries.
The goals of the United States in these negotiations are to ensure market access and national treatment for U.S. telecommunications firms abroad and to secure agreement on procompetitive regulatory principles in the participating countries. Competition in this sector requires that all entrants be able to connect to existing networks on equal terms. It also requires safeguards to ensure competition and the independence of regulators from the operating companies they oversee. The United States has indicated that if there is a critical mass of high-quality offers from industrial and developing countries, it will be willing to lift restrictions on foreign ownership in the U.S. telecommunications industry and to guarantee national treatment for foreign firms operating in the United States. However, if offers of sufficient quality are not forthcoming, the United States has reserved the right to amend or withdraw its existing offer or to take an exemption to the MFN requirement, as it did in financial services.

## Regional Initiatives

The Administration has promoted the creation of regional trade agreements as stepping stones toward global free trade. The Administration has set ambitious goals for free trade in the two most dynamic markets of the world: the Asia-Pacific and Latin America. The combination of rapid growth and unprecedented liberalization is likely to make export and investment opportunities in these markets a key engine of growth for the U.S. economy over the next decade, and developing countries already account for over 40 percent of U.S. exports.

Regional initiatives founded on the principles of openness and inclusivity serve to strengthen the multilateral trading system. The principle of inclusivity encourages members of a regional agreement to pursue additional liberalization with nonmembers, including possible accession to the agreement. Regional free-trade agreements that do not raise external barriers and that welcome new members can set off a virtuous cyde of liberalization. As the market encompassed by a free-trade area expands and becomes increasingly dynamic, other countries become more interested in joining.
The GATT has always recognized the "desirability of increasing freedom of trade by the development, through voluntary agreements, of closer integration between the economies of the countries parties [sic] to such agreements" (Article XXIV), as long as such agreements do not result in an increase in the parties' external barriers. This restriction helps to ensure that preferential regional agreements create more trade among the participants (and others) than they divert from nonparticipants. In general, cheaper imports improve the well-being of the member countries and create trade. But regional liberalization may reduce trade with nonmember countries, since imports from such countries do not benefit from the reduction of trade barriers. Trade diversion arises when countries within a regional agreement switch from importing goods from the lowest-cost nonmember to importing from other members. Minimizing such distortionary trade diversion is a key objective in well-designed regional agreements.

Regional agreements often achieve deeper and broader economic integration than multilateral agreements because, as neighbors, members have substantial interests in common. Such agreements therefore often become models for future multilateral liberalization in new areas such as services, investment, and environmental and labor standards. The expansion of regional free-trade areas has also encouraged nations to find more common ground in multilateral negotiations. The U.S. regional initiatives in North America and the Asia-Pacific, for example, were an impetus for the successful conclusion of the Uruguay Round.

The North American Fre Trade Agrement. NAFTA liberalizes trade with our two closest neighbors-who are also our largest and third-largest trade partners-over a period of 10 to 15 years. The impact of NAFTA on bilateral trade flows is difficult to isolate because Mexico experienced a severe financial crisis during 1995 (Box 8-5). In NAFTA's first year U.S. merchandise exports to Mexico and Canada grew by 16 percent-over twice as fast as U.S. exports to the rest of the world. Although U.S. exports to Mexico fell as Mexico entered recession, they remained higher during 1995 than they had been in 1993, before NAFTA. And despite the recession Mexico continued to honor its commitments to the United States, cutting tariffs on U.S. products in accordance with NAFTA's provi-sions-even as it increased tariffs on many goods from non-NAFTA partners by 15 percentage points. In part because of this, the U.S. share of Mexico's imports has grown from 69 percent in the first 9 months of 1994 to 74 percent over the same period in 1995. The performance of U.S. exports to Mexico in 1995 stands in sharp contrast to what happened after the previous Mexican financial crisis, in 1982, when the Mexican Government imposed 100 percent duties and import permit requirements on products from the United States and other countries. U.S. exports to Mexico were cut in half during that episode, and it took 6 years for U.S. exporters to recover their pre-1982 position. In contrast, U.S. exports to Mexico during the current episode fell by less than 10 percent and remain higher than before NAFTA.

In some instances, expanded trade with Mexico and Canada has displaced workers in the United States. Consequently, the President made it a priority to include a strong transitional program of trade adjustment assistance as part of the legislation implementing NAFTA. This program provides support to displaced workers in industries experiencing large increases in imports from, or whose plants have relocated to, Mexico or Canada, regardless of whether the job losses are directly related to NAFTA. In addition, the Department of Commerce's Economic Development Administration, through its Trade Adjustment Assistance program (which predates NAFTA), has provided assistance to a significant number of firms adversely affected by increased imports from Mexico and Canada.
NAFTA will serve both as a model for future multilateral liberalization in areas such as investment and as a vehicle for further regional liberalization. The Administration is committed to conducting negotiations with Chile on accession to NAFTA. Since Chile's population is only about one-seventh the size of Mexico's, the economic impact on the United States from Chile's accession is likely to be comparatively small. But Chile's accession will provide opportunities for American businesses to expand operations in this fastgrowing market (which has grown by 7 percent per year on average

## Box 8-5.-Mexico's Financial Stabilization

In December 1994 Mexico faced a balance of payments crisis. Investors lost confidence in Mexico's ability to maintain the exchange rate of the peso within its trading band, in part be cause of Mexico's large current account deficit, which had reached almost 8 percent of GDP in 1994. Intense pressure on the peso in foreign exchange markets threatened to exhaust Mexico's international reserves, compelling the Mexican Government to float the peso.

The President responded swiftly to Mexico's crisis, leading a $\$ 50$ billion multilateral effort to assist in Mexico's stabilization and making available $\$ 20$ billion in U.S. credit. This effort helped attenuate the impact of the crisis on other emerging markets. At the same time, the newly inaugurated Mexican President took the difficult steps essential to restoring stability and growth in Mexico. Government spending was cut, resulting in a budget surplus of 1.5 percent of GDP in the first three quarters of 1995. The Mexican Government also implemented a tight monetary policy, and because a lack of timely information was seen as having contributed to the crisis, Mexico took steps to make key financial and economic data more transparent and more widely available to investors.
Together these measures have begun to work, setting the stage for a return to growth. Nearly all of the $\$ 29$ billion stock of tesobonos-short-term, dollar-denominated government debt-has been retired. Mexico's international reserves have risen from $\$ 6$ billion at the beginning of 1995 to $\$ 16$ billion at year's end. Monthly inflation has fallen to 2 to 3 percent from a high of 8 percent. As of mid-J anuary 1996 the peso had stabilized, after an additional sharp decline in November, and the stock market had staged a partial recovery. Interest rates have dedined from over 80 percent at the height of the crisis to below 40 percent. In addition, Mexico appears to have largely regained access to the international capital markets after only 7 months-far less than the 7 years it took Mexico to regain the trust of foreign investors after the debt crisis of 1982.

The financial crisis engendered a severe recession in Mexico, leading to a contraction of 7 percent in the first three quarters of 1995. But U.S. support, Mexico's tough stabilization policies, and the strong economic foundation that had been laid by the preceding 7 years of structural reform in Mexico should accelerate a return to sustainable growth.
since 1988), help encourage sound economic policies in the region, and serve as an important step on the road to creating a Free Trade Area of the Americas.

The Free Trade Area of the Americas (FTAA). In December 1994 in Miami, leaders from 33 Western Hemisphere countries joined with the President in embracing the goal of achieving free trade in the Western Hemisphere by 2005. Even though the FTAA will take years to achieve, by securing a commitment to work toward a hemispheric freetrade area now, hemispheric leaders set a high standard for the region, ensuring that subregional trade agreements will evolve in a manner consistent with the FTAA and the multilateral system.
The United States should reap significant benefits from establishment of the FTAA. It will create a market of over 850 million consumers with a combined income of roughly $\$ 13$ trillion. Latin America is one of the fastest-growing regions in the world. Total exports of countries in the hemisphere grew nearly 17 percent on a year-over-year basis in the first half of 1995. Import growth was also strong at over 18 percent. Total trade flows in the hemisphere are estimated to have reached over $\$ 2$ trillion in 1995. The FTAA will also level the playing field for U.S. exporters, reducing Latin American trade barriers that are currently three times higher on average than U.S. barriers. The increase in growth and improved access to new ideas that freer trade will bring should also promote U.S. goals of development and democracy in the region.

Trade ministers from throughout the hemisphere met in Denver in J une 1995 to lay out a road map for achieving the leaders' vision of regional free trade. They agreed that trade liberalization should be consistent with WTO principles and comprehensive in scope. The Denver Ministerial established working groups in seven important areas: tariffs and nontariff barriers, customs procedures and rules of origin, investment, standards and technical barriers, sanitary and phytosanitary measures, antidumping and countervailing duties, and smaller economies. Each working group is responsible for compiling an inventory of regulations and regimes in its assigned area and undertaking a variety of other projects to prepare the foundations for the negotiated dismantling of trade and investment barriers. In March, trade ministers will meet again in Cartagena, Colombia. At the Cartagena Ministerial four additional working groups will be established, covering government procurement, IPR, services, and competition policy.
Asia-Pacific Economic Cooperation (APEC). The 18 members of APEC include some of the largest and most dynamic economies in the world today. Indeed, APEC is a unique combination of some of the world's most important established markets and some of its most important emerging markets. With a combined population of
2.1 billion and $\$ 13$ trillion in combined annual income (over half of world income), the members make up the largest consumer market in the world. More than 30 percent of global trade takes place between APEC countries. The Asia-Pacific region continues to grow at a faster pace than any other region in the world: in 1994 China grew by 12 percent in real terms, Singapore by 10 percent, and South Korea, Malaysia, and Thailand by more than 8 percent. Over the next decade the developing East Asian economies are projected to invest between $\$ 1.2$ trillion and $\$ 1.5$ trillion in infrastructure, generating enormous opportunities for sales of American goods and services. Already APEC accounts for over 60 percent of U.S. merchandise exports, and these exports have grown 35 percent since the beginning of the Administration. U.S. exports to the Asian countries of APEC have grown 55 percent since the beginning of this Administration.
APEC was formed in 1989 as an informal group of 12 nations focused on increasing economic cooperation in the region. Initially only the members' designated APEC ministers attended the group's meetings. In November 1993, however, the President hosted the first summit of the leaders of the APEC countries. At that meeting, held at Blake Island in Washington State, the Asia-Pacific leaders embraced the President's vision of a Pacific community based on shared strength, peace, and prosperity, as well as his determination to make APEC relevant to the everyday problems of businesses throughout the region. Having set their course in 1993, APEC leaders again met in Bogor, Indonesia, in 1994, where they made a momentous commitment. The Bogor Dedaration set a goal of achieving free trade and investment between the member economies over the next 25 years. For the industrialized countries in APEC the benefits come even sooner: full implementation is scheduled to occur within 15 years.

This year at Osaka, J apan, the APEC leaders put in place a work program and a liberalization process to make the vision of freer and fairer trade a reality, and meanwhile to deliver some concrete measures of immediate value to business. The leaders adopted an Action Agenda for implementing free trade and investment in the region by 2020 (Box 8-6). The Action Agenda covers 15 broad areas for liberalization and sets out 135 specific actions that members should take to open their markets and reduce the costs of doing business. The agenda's broad scope covers market access issues such as tariffs, quotas, and services. It also includes new areas that are the source of some of the most pernicious market barriers in Asia, such as IPR protection and investment, and other issues of growing importance to the region such as competition policy and deregulation. In each of these areas the Action Agenda sets out key objectives, benchmarks, time frames, and specific actions. The prin-
ciples embodied in the Action Agenda ensure that liberalization in each country will be comprehensive, covering all products, services, and investment, and require each country to achieve results that are balanced and comparable to those of other APEC members. In the coming months, each member will detail the specific steps it will take to begin implementing the Action Agenda, to be presented at the next meeting of the APEC leaders in Manila in 1996. Implementation could begin as early as J anuary 1997-only 2 years after APEC leaders made the commitment to achieve free trade.

The Transatlantic Trade and Investment Initiative The U.S.-European relationship is one of the oldest and most durable in international affairs. To further strengthen this partnership, the United States and the European Union initiated a Joint Action Plan at their Madrid summit in December 1995. The summit dedaration included the commitment to foster a Transatlantic Marketplace. As part of this effort, the United States and the European Union have pledged to seek agreements on mutual recognition of testing data and standards certification, to cooperate and assist each other on customs procedures, to begin work on a comprehensive agreement on cooperation in science and technology, and to initiate a joint study on market barriers confronting transatlantic trade. The two sides will draw heavily on the advice of the private sector. Their cooperation will also extend to environmental and labor issues.

The OECD Multilateral Agrement on Investment. After 4 years of intensive work, the ministers of the member countries of the Organization for Economic Cooperation and Development (OECD) agreed in May 1995 to launch negotiations toward a multilateral agreement on investment. The aim is to conclude negotiations by 1997. At the negotiators' first meeting in September 1995, broad consensus was reached on ensuring a high standard of principles (including full national and MFN treatment of investment). Exceptions to such treatment will be limited in number and narrowly drawn. In future negotiations the United States hopes to establish international legal standards governing expropriation, freedom from performance requirements (such as the requirement that a foreign subsidiary's products contain at least a specified minimum local content, or that a specified minimum quantity be exported), guaranteed access to binding international arbitration of disputes between private investors and national governments, and the right to unrestricted investment-related transfers across borders. If these principles are adopted, the multilateral agreement on investment would establish a high standard for future work on investment issues in Asia.

## Bilateral Initiatives

Disputes and negotiations between one country and another are inevitable in international trade relations. The United States ac-

## Box 8-6.-The APEC Action Agenda

The Action Agenda details steps that APEC members will take to dismantle key trade barriers that currently impede foreign businesses. Examples include:

- Tariffs: According to one estimate, automobile sales to Indonesia, Malaysia, and Thailand combined could equal U.S. auto sales to Canada and Mexico combined by 2000. Under NAFTA, U.S. car exports to Canada face no tariffs; those to Mexico face a 10 percent tariff, which will be eliminated by 2003. But tariffs on U.S. car exports to Indonesia, Malaysia, and Thailand range between 30 and 60 percent. The Action Agenda stipulates that members will progressively lower these tariffs. Some members will start reducing tariffs as early as J anuary 1997.
- Air transport: Demand for air transport services in Asia is projected to grow by 8.5 percent annually through the end of the decade. This is a key opportunity for U.S. carriers, whose costs per passenger-mile are half those of their J apanese competitors. Y et barriers are high. APEC has commissioned a group of experts to develop options to lower barriers to competition in this fast-growing market.
The Action Agenda also contains a variety of measures that will reduce the cost of doing business in the region:
- Infrastructure database APEC is assembling an infrastructure opportunity database, which will provide information on the Internet-in English-on all government procurement open to foreign bidding. APEC has already launched a pilot home page on the World Wide Web that includes projects from Hong Kong, the United States, J apan, and Australia.
- Customs harmonization: APEC is working to promote uniform customs classifications and procedures and to establish common forms for manifests, travel documents, and the electronic transmission of business documents. Businesses can look forward to the day when a single customs form is accepted in all APEC countries.
- Standards harmonization: APEC is developing so-called mutual recognition agreements in toys and some food products, which will enable companies to sell their products throughout the APEC countries after a single laboratory test.
tively engages in bilateral consultations, negotiations, and dispute settlement procedures to defend U.S. commercial interests and to ensure that trade agreements are implemented, market access is expanded, and offending foreign practices are addressed. The focus of U.S. bilateral agreements is to open foreign markets to producers from all countries, not just those from the United States. These agreements are designed to support a more open, less distorted world trade regime. This Administration has also insisted on agreements that lead to tangible market opening, not simply agreements in form. The Administration's trade agreements specify qualitative and quantitative indicators of progress, agreed to by both countries, and the Administration has actively reviewed and monitored the agreements it has reached, comparing actual progress made against these indicators.
J apan. Japan remains among the most important of our economic partners. The Administration's goals in our relationship with J apan are to increase both access for and sales by non-J apanese firms in the J apanese market, to stimulate demand-led growth in the J apanese economy, and to raise standards of living in both J apan and the United States. To these ends, in 1993 the Administration signed the Framework for a New Economic Partnership with Japan. The Framework laid out macroeconomic goals and identified areas for sector-specific and structural negotiations. In the past year alone the Administration has signed new agreements under the Framework in automobiles and auto parts (discussed below), financial services, and investment. These agreements bring to 20 the number of trade agreements that the Administration has concluded with J apan.

The sectoral agreements with J apan are beginning to produce results. The Framework set up mechanisms, including qualitative and quantitative criteria, for both countries to use in reviewing the progress made on these agreements. Although it is still too early to judge the effects of the 1995 agreements, the results from the agreements concluded in 1993 and 1994 have generally been positive. By any measure, growth of U.S. exports to J apan has been striking, especially given that country's continuing economic stagnation. Overall U.S. exports to J apan were 20 percent higher in the period from J anuary through November 1995 than in the previous year, and 47 percent higher than when the Administration took office. Growth of U.S. exports to J apan has been even stronger in those goods sectors covered by the Administration's trade agreements with J apan (Chart 8-1).
After 2 years of negotiations to open J apan's markets in automobiles and auto parts to U.S. and other foreign suppliers, an agreement was reached in the summer of 1995 to increase J apanese purchases of foreign automobiles and parts. Under the agree-

Chart 8-1 Merchandise Exports to Japan
Exports in goods sectors covered by Administration trade agreements with Japan have increased at a faster rate than other U.S. exports to Japan since 1993.


Note: Data are 6-month moving averages.
Sources: Department of Commerce and Council of Economic Advisers.
ment, Japan promised to improve foreign automakers' access to $J$ apanese dealerships. U.S. industry expectations are for access to 1,000 new outlets and the annual export of 300,000 U.S.-made vehicles to J apan by 2000. Also in connection with the agreement, the J apanese Big Five automakers announced plans for their U.S. assembly plants that are expected to increase those plants' purchases of North American auto parts by $\$ 6.75$ billion by 1998. J apan also agreed to deregulate the repair and replacement market for auto parts in J apan, which will make it much easier for foreign firms to sell auto parts in the J apanese aftermarket. Finally, the J apanese Government will increase the budget of the J apan Fair Trade Commission and consider U.S. suggestions for improved antitrust enforcement.

The two countries also signed an investment agreement in J uly 1995. Despite the abolition of most formal barriers to foreign direct investment in Japan, J apan has absorbed only 1 percent of world foreign direct investment-remarkably little for an economy that accounts for about 16 percent of world output. A tangible market presence is increasingly important for overseas sales in many industries, and for many service industries it is indispensable for conducting business. Efforts to facilitate foreign direct investment in J apan were therefore an important part of the Framework negotiations. Under the United States-J apan Investment Arrangement,

J apan will review the few remaining restrictions on foreign investment, make foreign investors eligible for low-interest loans from the J apan Development Bank, and ensure that foreign-owned firms are eligible for government-funded employment programs. J apan has also pledged to make land available to foreign investors in designated foreign access zones, and the Keidanren (J apan's major business organization) has pledged to facilitate foreign contacts with its members.

China. China is an increasingly important player in the world economy. China's share of world trade has tripled since market reforms were launched in the late 1970s, making it the world's 10thlargest exporter. The Chinese economy has recently recorded some of the fastest growth rates in the world ( 12 percent in 1994 and roughly 10 percent in 1995). Already the world's most populous country, China may have the world's largest economy by early in the next century. U.S. exports to China continue to grow quickly, as incomes, and hence demand for high-quality U.S. goods, increase. This Administration is committed to encouraging further economic liberalization and to integrating China more fully into the world economy. Success at these efforts will support U.S. foreign policy objectives of democratization, economic reform, and development in China. Although great progress has been made on these fronts, there is still a long way to go.

China's accession to the WTO is an important goal for both the United States and China, with negotiations under way since 1988. The United States and other WTO members have stipulated that China must join the organization on commercial terms. Every country that has joined the GATT in the past has agreed to adhere to the basic principles of the multilateral trading regime, such as transparency of the trade regime and uniform application of trade rules. The United States is working with China to reach these world trade standards in a variety of forums, including bilateral trade initiatives on market access, protection of intellectual property, and services.

In February 1995 the United States reached a bilateral agree ment with China on IPR protection. The new agreement lays out specific enforcement measures for China to undertake, and consultations between China and the United States have been occurring frequently to ensure that these measures are being carried out. In addition to creating a new enforcement structure, the agreement increases market access for U.S. audiovisual products, software, books, and periodicals by placing a ban on quotas and by allowing U.S. companies to set up joint ventures in several urban areas around the country.

Chinese pirating of U.S. software and audiovisual materials and infringements of U.S. trademarks and patents had become a con-
cern to the United States as exports of pirated goods began turning up in Southeast Asia, Latin America, and even Canada and the United States. China has more than 29 factories with the capacity to produce 75 million compact discs annually-in a domestic market that, according to estimates, can absorb only 5 million. Under the new agreement, task forces have been set up to raid illegal retail and manufacturing establishments as well as to provide border control. As of the end of 1995, implementation of the agreement has been mixed. Although China has attacked piracy at the retail level, massive production, distribution, and export of pirated materials continue. In particular, China has yet to halt production of pirated CDs.

Korea. Although Korea is the fifth-largest manufacturer and a rapidly growing exporter of automobiles, a variety of barriers have effectively closed the Korean automobile market to imports. These barriers include onerous standards and certification procedures, limits on consumer financing and advertising by foreign firms, and excise and registration taxes that fall disproportionately on the me-dium-sized and larger models that U.S. automakers produce. Until recently, Koreans were required to report the automobiles that they owned on their income tax returns, and owners of foreign cars feared tax audits. These barriers, which help explain why the foreign share of Korea's automobile market is only 0.3 percent, were serious enough to warrant active consideration as a "priority foreign country practice" in the U.S. Super 301 process this past year.

Negotiations led to the signing of a memorandum of understanding with Korea on September 27, 1995. The Korean Government agreed to reduce significantly the tax burden on Iarger automobiles and to affirm that foreign car ownership would not subject Koreans to tax audit or other harassment. In addition, Korea will substantially reduce the documentation required to secure safety approval and will allow testing for a new noise standard to be done outside Korea. Foreign firms will be able to establish or acquire automobile finance companies and will be given equal access to television advertising time.
Monitoring foreign practices. One of the principal objectives of U.S. trade policy has been the identification and elimination of unfair foreign trade barriers. The Administration has placed a high priority on enforcing U.S. trade agreements and on ensuring that other countries do not engage in practices that violate trade agreements they have signed with the United States. The U.S. Trade Representative, in close consultation with U.S. firms, its private sector advisory committees, and other interested parties, monitors the trade practices of other countries and their compliance with U.S. trade agreements and is responsible for addressing those practices identified as unfair.

## MEASURING THE SUCCESS OF TRADE POLICY

The Administration's protrade policies have been associated with rapid export growth. Real exports of goods and services have grown by 20 percent since the first quarter of 1993 (Chart 8-2). Real export growth has risen: from 3.3 percent in 1993 to 8.3 percent in 1994 and 9.0 percent through the third quarter of 1995 (on a year-over-year basis). The United States is once again the largest merchandise exporter in the world, accounting for roughly 12 percent of global exports. Moreover, the U.S. share of industrial-country merchandise exports has grown to 18 percent, from 15 percent in 1986, and now exceeds the shares of Germany and J apan (at 15 and 14 percent, respectively).

Chart 8-2 Export and Import Volumes
Exports have grown vigorously in recent years, but, with imports also rising, the trade balance remains in deficit.


Note: Data are for goods and services; data for 1995 are estimates. Sources: Department of Commerce and Council of Economic Advisers.

Although U.S. exporters are once again extremely competitive on world markets, the U.S. trade balance remains in deficit. The next section explains why the trade deficit is a misleading measure of the success of U.S. trade policies and the strength of the U.S. economy. Fundamentally, the trade deficit is caused by macroeconomic factors, not trade policy, which is capable of making only marginal changes in the overall deficit. Eliminating or substantially reducing the trade deficit will require macroeconomic policy measures, such as the elimination of the Federal budget deficit.

## CAUSES AND CONSEQUENCES OF THE TRADE DEFICIT

International trade and competition make a vital contribution to the growth and well-being of the United States, and U.S. firms and workers have proved themselves successful in that competition. Yet despite the rapid growth of U.S. exports and export-related jobs, public commentary often focuses on the overall trade balance, which shows a large and seemingly intractable deficit. Many critics point to the trade deficit as evidence that the United States is not competing successfully and that international trade is detrimental to the health of the economy. Therefore, they argue, the United States should modify its longstanding policy of encouraging open markets and liberal trade.

This focus is unfortunate, because the trade balance is a deceptive indicator of the Nation's economic performance and of the benefit that the United States derives from trade. Trade policy is neither responsible for, nor capable of significantly changing, the overall trade balance. As noted above, trade policy can have a substantial impact on the sectoral and geographic composition of trade, but the aggregate trade balance is determined by larger macroeconomic factors. Persistent external deficits do entail costs, but effective policies to reduce these costs by narrowing the external deficit are beyond the realm of trade policy.

## SOURCES OF THE U.S. TRADE DEFICIT

The trade balance is simply the difference between the value of goods and services sold by U.S. residents to foreigners and the value of goods and services that U.S. residents buy from foreigners. Most of what the United States produces (89 percent in 1995) is sold to residents of the United States; the rest is exported. And most of what the United States buys (88 percent in 1995) is produced here; the rest is imported. When we compare total production and total expenditure, those goods and services that we purchase from ourselves net out, and the difference is exports minus imports, or the trade balance. A trade deficit thus results when the Nation's expenditure exceeds its production.

Trade is by far the largest source of foreign income and foreign payments, but there are other external income flows: the main ones are interest and other investment earnings, aid grants, and transfers. Adding these other current flows to the trade balance produces the current account balance, which is the net income that the United States receives from the rest of the world. The current account balance thus represents the bottom line on the income statement of the United States. If it is positive, the United States is spending less than its total income and accumulating asset claims
on the rest of the world. If it is negative, as it has been in most recent years, our expenditure exceeds our income, and we are borrowing from the rest of the world.

The net borrowing of the Nation can be expressed as the sum of the net borrowing by each of the principal sectors of the economy: government (Federal, State, and local), firms, and households. In other words, the current account deficit (CAD) is equal to the government's budget deficit ( $\mathrm{G}-\mathrm{T}$, or net borrowing by the public sector) plus the difference between private sector investment and private sector saving (l-S, or net borrowing by the private sector):

$\underset{$|  Government  |
| :---: |
|  deficit  |$}{(\mathrm{G}-\mathrm{T})} \quad+\underset{$|  Private  |
| :---: |
|  investment  |$}{(\mathrm{I}} \quad-\underset{$|  Private  |
| :---: |
|  saving  |$}{\mathrm{S})} \quad=\quad \underset{\text { Current account }}{\text { deficit }}$

The crucial insight of this identity is that the current account deficit is a macroeconomic phenomenon: it reflects an imbalance between national saving and national investment. The fact that the relationship is an identity and always holds true also means that any effective policy to reduce the current account deficit must, in the end, narrow the gap between U.S. saving and U.S. investment.

## Economic Performance and the Current Account

If the current account deficit has little to do with trade policy, neither does it necessarily indicate poor economic performance. In fact, in the short run it may indicate precisely the opposite. Consider two situations: one in which the economy is operating with fully employed resources, and one in which the economy is operating with excess capacity.

When resources are fully employed, a current account deficit does not constrain the level of economic activity and thus cannot represent "lost" production. The U.S. economy in the past 2 years provides a good example, since it has been very close to full employment and production capacity. During 1994 and the first three quarters of 1995, total U.S. production of goods and services (GDP) averaged $\$ 7.1$ trillion per year. Total U.S. expenditure was $\$ 7.2$ trillion. The difference, just over $\$ 100$ billion worth of goods and services per year, came from overseas, as reflected in the trade deficit.

It would have been very difficult to have produced those extra goods and services ourselves and thus eliminated the trade deficit. The monthly unemployment rate in 1994 and 1995 averaged 5.8 percent and twice fell to 5.4 percent, very near the point at which economists believe inflation begins to accelerate. Both labor force participation and overtime in manufacturing were at postwar highs. In such a tight labor market, any attempt to close the trade deficit in 1994 or 1995 by producing more domestically would un-
doubtedly have been frustrated by rising prices, or by an increase in interest rates that would have reduced output in other sectors. In sum, when the economy is near full employment, the trade deficit does not affect the level of economic activity and therefore provides no insight into how well or poorly the economy is performing.

The second case to consider is an economy operating at less than full employment. Here trade outcomes can affect the level of economic activity. Rates of foreign economic growth and the exchange rate of the dollar have a strong influence on U.S. export sales, and therefore on the level of U.S. production. And unlike in the case of full employment, the expansionary impact from export sales in this situation is not necessarily fully offset. At the same time, the cydical state of the U.S. economy exerts a strong influence on the demand for imports. In practice, this channel is so strong that the trade and current account deficits have tended to increase when the U.S. economy is growing rapidly, as it has in the last 3 years, and to diminish when the U.S. economy is weak. An increasing trade deficit is therefore usually the result of a strong economy, not the cause of a weak one. Over the past 15 years, U.S. employment growth has tended to be highest when the trade deficit was large, not when it was small (Chart 8-3).

Chart 8-3 Employment Growth and the Trade Deficit
The trade deficit tends to rise when employment growth is strong because of increased demand for imported goods and services.


Note: Data for 1995 are estimates.
Sources: Departments of Commerce and Labor, and Council of Economic Advisers

The same conclusion holds if we look across the other major industrial countries. In the 1990s trade balances have improved in those of the seven leading industrial market economies (the Group of Seven, or G-7) where economic growth and employment creation was weak (Chart 8-4).

Chart 8-4 Economic Growth and Changes in Trade Balances in the G-7 Countries, 1990-94
Across the major industrial countries, recent improvements in the trade balance have been associated with weak economic performance.


Note: Germany refers to unified Germany, 1991-94.
Sources: Department of Commerce, Organization for Economic Cooperation and Development, and Council of Economic Advisers.

## Growth of the Current Account Deficit

From 1946 until 1982 the U.S. current account balance fluctuated around zero but was generally in surplus. Government deficits during recessions were balanced by weak domestic investment and an excess of private saving (Chart 8-5). The adoption, early in the 1980s, of tight monetary policy to combat inflation led to a sharp increase in U.S. interest rates, an inflow of foreign capital, and an appreciation of the dollar. At the same time, fiscal (tax and expenditure) policy led to large budget deficits that did not disappear when the economy was growing strongly and private investment was high. The so-called structural budget deficit, which is the actual deficit corrected for short-term fluctuations in GDP, increased by a full 2 percentage points of GDP between 1982 and 1984. Econometric simulations indicate that the shift in fiscal policies, coupled with a move toward more restrictive budget policies abroad, explains about two-thirds of the deterioration in the current account in the first half of the 1980s.

Chart 8-5 Private Saving and Investment, the Fiscal Balance, and the Current Account The emergence of large fiscal deficits in the 1980s and a rebound in investment in the 1990s led to increasing current account deficits.


Note: The private saving and investment measures are gross private saving and gross private investment. The fiscal balance is gross government saving less gross government investment. The current account equals net foreign investment plus capital grants received. Data for 1995 are estimates. Sources: Department of Commerce and Council of Economic Advisers.
Fiscal policy changes in the middle of the 1980s partly reversed the widening of the Federal budget deficit. But the slight reduction in the budget deficit was more than offset by a fall in private saving: the U.S. gross private saving rate (the sum of the saving rates of businesses and households), which averaged 18.3 percent of GDP in the first half of the decade, fell to 16.0 percent in the second half. In broad terms, then, the increase in the budget deficit and the fall in the domestic saving rate were responsible for the chronically large U.S. current account deficit. Although the budget deficit (both actual and structural) has fallen significantly during this Administration, a sharp increase in domestic investment during the cyclical recovery has driven the current account further into deficit over the past 3 years.

## Current Account Developments in 1995

The current account deficit continued to increase in 1995, driven largely by high U.S. economic growth relative to our major trading partners. Although U.S. growth has been below the OECD average for much of the postwar period, in the period since 1992, the U.S. economy has grown faster than the economies of most other OECD countries, including major trading partners such as Germany and J apan (Chart 8-6). Although U.S. economic growth moderated in 1995, consistent with a desired "soft landing" of the economic expansion, it remained above the OECD average.

Chart 8-6 Growth of Real GDP in the United States and Abroad
Faster growth relative to other industrial countries since 1992 has contributed to the rise in the current account deficit.


Note: Data for 1995 are estimates.
Sources: Department of Commerce, Organization for Economic Cooperation and Development, and Council of Economic Advisers.

Along with relative economic growth rates, changes in relative prices (most often due to exchange-rate changes) have important short-run influences on both bilateral trade balances and the overall current account balance. Beginning in February 1995 the U.S. dollar depreciated against the currencies of our major trading partners, and most sharply against the J apanese yen (Chart 8-7). The depreciation of the dollar went beyond what many viewed as justified by economic fundamentals, and a statement by the G-7 finance ministers and central bank governors at the end of April called for an orderly reversal of the preceding exchangerate movements. Interest rate reductions in J apan and Germany and concerted currency market intervention in July and August were followed by a recovery of the dollar. Between the end of April and the end of August, the dollar appreciated by 16 percent against the yen and by 6 percent against the deutsche mark. Although these bilateral moves are noteworthy and will have a significant effect on bilateral trade, the movement of the dollar against a weighted average of the currencies of U.S. trading partners was more modest, particularly when an index covering a broad range of trading partners is examined.

Relative price and income movements influence bilateral trade balances in the short run, and there were important developments along these lines with several U.S. trading partners in 1995. The

Chart 8-7 U.S. Dollar Exchange Rates
The dollar has fluctuated sharply against the currencies of Japan and other major trading partners, but less sharply against broader indexes of foreign currencies.


Note: The broad real trade-weighted index is relative to 101 trading partners, adjusted for domestic inflation. A rise in an index indicates an appreciation of the dollar.
Sources: Board of Governors of the Federal Reserve System, Federal Reserve Bank of Dallas, and Council of Economic Advisers.
most dramatic change was in the balance with Mexico, following a severe financial and exchange-rate crisis in that country beginning in December 1994 (Box 8-5). The dramatic nominal depreciation of the peso outstripped the sharp increase in Mexico's price level, and so the real (inflation-adjusted) value of the peso fell, encouraging exports and discouraging imports. In addition, the downturn in economic activity within Mexico greatly affected that country's demand for imports. Consequently, the U.S. bilateral balance with Mexico fell from a $\$ 1.4$ billion surplus in the first 11 months of 1994 to a deficit of $\$ 14.4$ billion for the first 11 months of 1995.

Even so, as was emphasized above, U.S. exports to Mexico have held up far better than those of Mexico's other trading partners, and the provisions of NAFTA spared U.S. exporters from the emergency measures that Mexico imposed on its trade with other countries. Despite the severity of the crisis, Mexico appears to be adjusting successfully, and its longer term prospects are encouraging. As Mexican economic growth resumes, imports from the United States should rebound strongly.
Trends in the U.S. trade balance with J apan over the past year are the result of income and relative price forces pulling in opposite directions. The J apanese economy has seen almost no growth in output since 1991, and the recovery that was expected to occur in 1995 failed to materialize; current estimates of J apanese economic
growth for 1995 are about half a percent. Despite this stagnation in demand, imports by J apan have surged because of the appreciation of the yen over the past 3 years, coupled with some marketopening measures, and Japan's current account surplus has narrowed. U.S. exports to J apan have grown rapidly in the last 3 years, particularly in those sectors covered by Framework and other trade agreements. The U.S. bilateral deficit with J apan has declined since mid-1995 and for the first 11 months of the year it was down 7 percent relative to 1994. Should the long-awaited re covery in J apan begin this year, the deficit with J apan should decline further.

As the events of the past year illustrate, individual exchangerate movements and shifts in economic growth rates have large influences on bilateral balances. Movements in the overall current account balance are generally less extreme, because of the averaging that takes place across various country markets. But the rate of U.S. growth relative to that of its trading partners, together with overall movements in the dollar's exchange rate, has a considerable influence on the U.S. external balance, particularly on a year-toyear basis. Over longer periods cyclical movements tend to average out, and real exchange rates are influenced more by the requirements of long-run current account positions and current account servicing requirements. Over this longer time frame it makes sense to think in terms of propensities rather than levels (in other words, the shares of national income devoted to private saving, to domestic investment, and to financing the government budget deficit). The emergence of the U.S. current account deficit over the past 15 years has been the result of a decline in national saving as a share of GDP (resulting from lower private saving and an increase in the Federal budget deficit, both as shares of GDP), which has more than offset a decline in the investment-GDP ratio since the early 1980s.

## CONSEQUENCES OF THE CURRENT ACCOUNT DEFICIT

The current account deficits that arose in the 1980s are an indicator neither of the ability of the United States to compete in the world market, nor of the efficacy of U.S. trade policy. U.S. export growth, and more broadly the growth of the U.S. economy, are much more informative measures of our relative economic standing. The current account deficit has not prevented a rapid increase in employment, and the recent increase in the external deficit is primarily the result of rapid economic growth. Furthermore, given the fiscal policy adopted in the early 1980s and the subsequent decline in the U.S. saving rate, the ability to borrow overseas and run a current account deficit has been critical in maintaining domestic
investment and growth over the last 15 years. Had the United States been forced to run a balanced current account, interest rates would have been higher, and investment and economic growth lower, than what we experienced.

If this is so, why should one care about the trade and current account deficits? As explained above, the current account deficit is the difference between our expenditure and our income, and represents our net borrowing from the rest of the world. By running a large and persistent current account deficit we have been borrowing against future income, building up liabilities to the rest of the world that will have to be serviced in the future. Estimates show the United States moving from a net creditor position of over \$250 billion in the early 1980s to a net debtor position of over half a trillion dollars by 1994. The positive net international asset position that the United States had built up over 100 years was eliminated in the space of about 6 years during the 1980s.

The debt-servicing requirements of this buildup of external debt are already making their presence felt. Net income on U.S. external assets was over $\$ 30$ billion per year in the early 1980s. This inflow dedined over the 1980s and eventually turned negative: in 1995 our net overseas payments are likely to be over $\$ 11$ billion. Although these numbers are still quite manageable in an economy that produces $\$ 7,000$ billion in income each year, the current trend is for an increasing share of U.S. income to be paid out to foreigners, and thus to be unavailable to support U.S. consumption and investment. In a period in which the size of the retirement-aged population will increase sharply, servicing our net foreign debt will be a further drain on the future working population.

The extent to which we rely on foreign borrowing also influences the terms on which we can borrow. Modern portfolio theory emphasizes the importance of relative rates of return in determining asset holdings. To induce foreigners to hold a larger share of their assets as claims on the United States, we may have to offer a higher interest rate. Very rough estimates place the share of U.S. assets in foreign portfolios at about 9 percent, about 2 percentage points higher than in 1982. This does not appear to be unduly large given the low transactions costs, high liquidity, and strong investor protection that characterize U.S. financial markets. In addition, the ratio of U.S. external debt to GDP is still moderate, and well below the ratios of some other industrial countries. But as the stock of foreign claims on the United States increases, U.S. financial markets will inevitably be more sensitive to foreign perceptions and external considerations.

## POLICY OPTIONS TO REDUCE THE CURRENT ACCOUNT DEFICIT

Given that a sustained current account deficit is costly to the Na tion, what policy options are available to reduce it? As we have seen, trade policy has little impact on the overall current account balance. To shrink or eliminate the current account deficit, either the government budget deficit must be narrowed, or private saving must rise relative to investment, or both. Maintaining and if possible increasing the rate of investment in the United States is critical for the growth of American incomes and is a firmly held goal of the Administration. So the only desirable options are to raise the rate of saving and to reduce the government budget deficit. Unfortunately, the policy tools to raise private saving are inherently limited: anything that might strengthen incentives to save by raising the return to saving would also reduce the amount of saving required to meet a future wealth or consumption target. And if private saving incentives take the form of tax expenditures ("tax breaks"), the induced increase in private saving must be greater than the loss of tax revenue in order for national (public plus private) saving to increase. The budget deficit is under far more direct policy control. The Administration's budget, which would eliminate the Federal deficit by 2002, provides the most promising way of reducing the U.S. current account and trade deficits.

Reducing the U.S. current account deficit is primarily, but not entirely, in our own hands. Since global saving equals global investment, the sum of all countries' current account balances (when accurately measured) must equal zero. Thus a reduction in the U.S. current account deficit must go hand in hand with a decline in the current account surplus of the rest of the world. Complementary policy in foreign countries, particularly those with large current account surpluses, would assist in the transition. That is why an important component of the Framework negotiations with J apan focused on the promotion of macroeconomic policies in that country that would encourage strong domestic demand-led growth. But one should not exaggerate the foreign responsibility for reducing the U.S. deficit. A reduction in one country's surplus will not ensure a corresponding fall in the U.S. deficit. And even without any policy actions by foreign countries, changes in exchange rates and in world interest rates would accommodate the elimination of the U.S. current account deficit. Fundamentally, the U.S. current account balance will be determined by our own saving, investment, and budget policy, and continued reduction of the Federal budget deficit is the most effective tool for reducing our external deficit.

## CONCLUSION

A system of liberal international trade and investment boosts overall living standards by allowing all participants to concentrate on what they do best, to learn from others, and to ensure competition. Consumers in open economies enjoy access to a wider variety of goods at lower prices than those living in economies that insulate domestic producers from foreign competition. Trade shifts jobs into sectors in which an economy is relatively efficient, and therefore boosts productivity and wages. In the United States, jobs supported by goods exports pay 13 percent more than the national average. Open trade and investment also have positive dynamic effects: exposure to the competitive pressures of the international marketplace spurs domestic firms to improve productivity and boost innovation. At the same time, exposure to international markets and foreign direct investment facilitates the flow of technology across borders, allowing producers to employ domestic resources more efficiently.
Abundant evidence testifies to the advantages of open markets over protectionism. Countries with outward-looking, liberal trade and investment policies grow faster, the data show, than countries with inward-looking, closed policies. The general consensus among economists is that open markets raise growth and productivity.

Achieving the benefits of trade requires continual change and adaptation. And even though most studies suggest that the effect has been small in the United States, trade can worsen wage inequality. The Administration therefore recognizes that, while outward-looking trade and foreign direct investment policies are critical to the future strength of the economy, we must help those injured by the lowering of trade barriers to make the requisite adjustments. In today's global economy, there is simply no alternative to competing.

This Administration has been remarkably successful in promoting competition around the world. A concerted set of multilateral, regional, and bilateral trade negotiations has produced the Uruguay Round agreement, NAFTA, and the Framework agreement with Japan. Ambitious plans have been laid for free trade across the Pacific and throughout the Americas. Partly reflecting this active trade policy, U.S. exports of goods and services have grown by 20 percent since this Administration took office.

The continuing external deficit remains a cause for concern, but it must be kept in mind that the deficit is caused by macroeconomic factors, not trade policy. It should not be used as a test of whether trade is beneficial or whether our trade policy is effective. The most effective policy option for reducing the trade deficit is the reduction or elimination of the Federal budget deficit.

## Appendix A <br> REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE <br> COUNCIL OF ECONOMIC ADVISERS DURING 1995

## LETTER OF TRANSMITTAL

## Council of Economic Advisers

Washington, D.C., J anuary 29, 1996
Mr. President:
The Council of Economic Advisers submits this report on its activities during the calendar year 1995 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,
J oseph E. Stiglitz, Chairman
Martin N. Baily, Member
Alicia H. Munnell, Member

Council Members and their Dates of Service

| Name | Position | Oath of office date | Separation date |
| :---: | :---: | :---: | :---: |
| Edwin G. Nourse | Chai | Augu | 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, 194 |  |
|  | Vice Cha Member | $\begin{aligned} & \text { May } 10,1950 \\ & \text { June } 29,1950 \end{aligned}$ |  |
| 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 |  |
|  |  | 1956 |  |
| Brandt ........ | Member | November 1, 1958 | January 20 |
| Henry C. Wallich | Member | May 7, 1959 | January 20, 19 |
| Walter W. Heller | Chairman | January 29, 1961 | November 15, 1964. |
| James Tobin .... | Member | January 29, 1961 | 1 |
| 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, 19 |
| 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. |
| aul 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. |
| an Greenspan | Chairman | September 4, 1974 | January 20, 1971 |
| 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. |
| illiam D. Nordhaus | Member | March 18, 1977 | February 4, 1979. |
| Lyle E. Gramley .......... | Member | March 18, 1977 | May 27, 1980. |
| George C. Eads | Member | June 6, 1979 | January 20, 1981. |
| Stephen M. Goldfeld | Member | August 20, 1980 | January 20, 1981. |
| Murray L. Weidenbaum ... | Chairman | February 27, 1981 | August 25, 1982. |
| William A. Niskanen ....... | Member ... | June 12, 1981 ...... | March 30, 1985. |
| Jerry L. Jordan ........... | Member | July 14, 1981 | July 31, 1982. |
| Martin Feldstein | Chairman | October 14, 1982 | July 10, 1984. |
| William Poole ......... | Member . | December 10, 1982 ..... | January 20, 1985. |
| Beryl W. Sprinkel | Chairman | April 18, 1985 ........ | January 20, 1989. |
| Thomas Gale Moore ... | Member | July 1, 1985 | May 1, 1989. |
| Michael L. Mussa | Member | August 18, 1986 | September 19, 1988. |
| Michael J. Boskin | Chairman | February 2, 1989 | January 12, 1993. |
| John B. Taylor | Member | June 9, 1989 ....... | August 2, 1991. |
| chard 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. |
| Alan S. Blinder | Member | July 27, 1993 | June 26, 1994. |
| Laura D'Andrea Tyson | Chair | February 5, 1993 | April 22, 1995. |
| Joseph E. Stiglitz .................. | Member | July 27, 1993 |  |
|  | Chairman | June 28, 1995 ..... |  |
|  | Me | June 30, 1995 ..... |  |
| Alicia H. Munnell | Member ........................... | January 29, 1996 .................... |  |

## Report to the President on the Activities of the Council of Economic Advisers During 1995

The Council of Economic Advisers was established by the Employment Act of 1946 to provide the President with objective economic analysis and advice on the development and implementation of a wide range of domestic and international economic policy issues.

## The Chairman of the Council

J oseph E. Stiglitz, who had been a Member of the Council since 1993, was appointed Chairman on J une 28, 1995. Dr. Stiglitz replaced Laura D'Andrea Tyson who was appointed Assistant to the President for Economic Policy at the National Economic Council. Dr. Stiglitz is on leave from Stanford University, where he is the J oan Kenney Professor of Economics. Dr. Stiglitz is responsible for communicating the Council's views on macro and microeconomic issues directly to the President through both oral and written briefings and reports. Dr. Stiglitz represents the Council at meetings of the National Economic Council and the National Security Council and at daily White House senior staff meetings. He also participates in a range of other formal and informal meetings with the President, senior White House staff, and other senior government officials. Finally, Dr. Stiglitz is the Council's chief public spokesperson. He guides the work of the Council and exercises ultimate responsibility for the work of the professional staff.

## The Members of the Council

Martin N. Baily is a Member of the Council of Economic Advisers. Dr. Baily is on leave from the University of Maryland where he is Professor of Economics.

Alicia H. Munnell is also a Member of the Council of Economic Advisers. Dr. Munnell had previously served in the Administration as Assistant Secretary for Economic Policy at the Department of the Treasury and had served as Senior Vice President and Director of Research at the Federal Reserve Bank of Boston.
The Chairman and Members work as a team on most economic policy issues. There is, however, an informal division of subject matter among the Members. Dr. Baily and Dr. Munnell share re sponsibility for domestic macroeconomic analysis, the Administra-
tion's economic forecast, and budget and tax issues. Dr. Baily is responsible for international economic issues and certain microeconomic issues, including technology and agriculture. Dr. Munnell has primary responsibility for health care, welfare reform, environmental, and labor issues. Finally, all three Council Members participate in the deliberations of the National Economic Council (NEC). Dr. Stiglitz is one of six members of the NEC Principals Committee.

## WEEKLY ECONOMIC BRIEFING

Dr. Stiglitz continued to conduct a weekly briefing for the President, the Vice President, and the President's other senior economic and policy advisers. Dr. Baily and Dr. Munnell also were active participants. The Council, in cooperation with the Office of the Vice President, prepares a written Weekly Economic Briefing of the President, which serves as the basis for the oral briefing. The briefing includes analysis of current economic developments, more extended treatments of a wide range of economic issues and problems, and summaries of economic news on different regions and sectors of the economy.

## MACROECONOMIC POLICIES

One of the primary functions of the Council is to advise the President on all major macroeconomic issues and developments. The Council prepares for the President, the Vice President, and the White House senior staff a comprehensive series of memoranda monitoring key economic indicators and analyzing current macroeconomic events.

The Council, the Department of the Treasury, and the Office of Management and Budget-the economic "Troika" -are responsible for producing the economic forecasts that underlie the Administration's budget proposals. The Council, under the leadership of Drs. Baily and Munnell, initiates the forecasting process twice each year. The first forecast is included in the Federal budget document published in February and the second forecast is published in the summer as part of the Administration's Mid-Session Review. In preparing these forecasts, the Council consults with a wide variety of outside sources, including leading private sector forecasters.

In 1995, the Council spent a substantial amount of time on budget and tax issues. The Council participated in the preparation of the President's balanced budget proposal. The Council also participated extensively in meetings on a range of budget issues, including Medicare and Medicaid, discretionary spending priorities, the Administration's tax proposals, and the elimination of corporate subsidies and loopholes. In addition, the Council participated in consultations with the Congressional Budget Office (CBO) on the
economic assumptions that were developed for the 7-year balanced budget plan.
The Council prepared, with the Department of Labor, a report titled "Educating America: An Investment for Our Future," which presented the overwhelming evidence on the beneficial impact of education on our workers and on our economy. The Council also prepared a report titled "Supporting Research and Development to Promote Economic Growth: The Federal Government's Role," which describes the Federal role in research and development (R\&D) and the importance of R\&D investments to economic growth. These reports presented the case for protecting our Federal Government's investments in education and technology.

The Council continued its efforts to improve the American public's understanding of economic issues and the Administration's economic agenda through regular briefings with the economic and financial press corps, periodic discussions with outside economists and forecasters, and presentations to outside organizations.

## INTERNATIONAL ECONOMIC POLICIES

Because international trade and financial developments are increasingly important to the U.S. economy, they have played an important role in the Administration's foreign policy and economic agenda. The Council has been an active participant in the National Economic Council/National Security Council international economic policy process, providing both technical and analytical support and policy guidance. In 1995, the Council's role included policy development and planning for the G-7 Economic Summit in Halifax, the APEC leaders meeting in Osaka, the Denver Ministerial for the Hemispheric Initiative and the U.S.-EU Summit in December. The Council also participated at the policy and analytical level in preparation for trade negotiations, including those with J apan on autos and auto parts, and with China on market access and intellectual property.
The Council has focused on the impacts of international trade and financial developments on overall U.S. economic performance and on U.S. financial markets. The Council has used its expertise on developments in other countries to identify lessons, successes as well as failures, to be gleaned from policy initiatives undertaken elsewhere. The Weekly Economic Briefing of the President regularly includes articles on international events and issues. In addition, the Council, along with the Department of the Treasury, issued a white paper in November titled "U.S. Trade Policy with J apan: Assessing the Record."

Because of the increasing importance of international economic issues to the U.S. economy, the Council has increasingly been called upon to represent the United States at international meetings and other forums. Dr. Stiglitz was asked to give the keynote
address at the U.S.-R.O.C. Economic Conference in Anchorage in September and participated in meetings of the Joint Economic Development Group with Israel in September.
The Council plays a leading role in U.S. participation in the Organization for Economic Cooperation and Development (OECD). The Council heads the U.S. delegation to the semiannual Economic Policy Committee meetings, and Dr. Stiglitz is the Committee's Chairman. In that role, Dr. Stiglitz has led an effort to refocus the Economic Policy Committee meetings and the OECD's Economics Department's activity in order to make their work more timely and relevant to member country policy discussions. Dr. Baily was a member of the OECD's Working Party 3 on macroeconomic policy coordination, and Dr. Munnell led the U.S. delegation for Working Party 1 on microeconomic and structural issues.

## MICROECONOMIC POLICIES

The Council was an active participant on microeconomic policy issues in 1995. Dr. Stiglitz is a member of the Regulatory Working Group, which addresses numerous policy issues related to regulatory reform. Dr. Stiglitz was deeply involved in preparation of the new "best practice" guidelines for economic assessments of regulatory impacts, issued by the Office of Management and Budget. The Council also participated in a range of other Administration efforts to reform regulation.
The Council was an active participant in the Administration's "Reinventing Government" effort, which has made government agencies more efficient and more performance oriented, and has revised and eliminated thousands of pages of regulations. The Council was active in efforts to restructure government agencies and programs, such as the Federal Aviation Administration and the housing programs of the Department of Housing and Urban Development. The Council was also deeply involved in developing the Administration's pension simplification proposal, which will make it easier and less costly for employers-especially small busi-nesses-to set up retirement plans that deliver tax-favored retirement benefits to all employees.
The Council was heavily involved in efforts to implement comprehensive and procompetitive reform of telecommunications policy. These efforts are reflected in the sweeping new telecommunications legislation passed by the Congress in early 1996. The Council also played an important role in ongoing efforts to restructure INTELSAT, an international satellite consortium, to promote more competition in the market for satellite communications services while preserving universal access to such services.
The Council was active in various issues affecting natural resources and the environment. The Council assisted the Vice President in developing a program for reinventing environmental regu-

Iation. As part of that effort, the Council helped to develop options for expanding the use of market-based policies for air pollution control. The Council was involved in addressing administrative and legislative changes to the Nation's programs for managing hazardous wastes and cleaning up contaminated sites. The Council also participated in ongoing assessments of policies for addressing climate change. The Council was actively involved in the preparation of the Administration's positions on reauthorization of the Farm Bill, and Dr. Baily chaired an interagency group responsible for developing options to fund land acquisition and restoration projects in the Everglades.

Dr. Stiglitz and Dr. Munnell played key roles in assessing the implications of welfare reform policy, including the consequences of block grants. They also participated in the Administration's efforts to anticipate the impact of welfare reform on child poverty rates. In addition, Dr. Munnell participated in working groups on urban policy and initiatives for children.

Dr. Baily co-chaired a group studying the state of our Nation's economic statistics. This effort was designed to improve the quality and understanding of government economic statistics.

## The Staff of the Council of Economic Advisers

The professional staff of the Council consists of the Chief of Staff, the Senior Statistician, thirteen senior economists, six staff economists, and two research assistants. The professional staff and their areas of concentration at the end of 1995 were:

Chief of Staff and General Counsed<br>Michele M. J olin<br>Senior Economists

| S. Lael Brainard .................. | International Economics |  |
| :--- | :--- | :--- |
| Steven N. Braun ............... | Macroeconomics and Forecasting |  |
| Robert S. Dohner ............. | International Economics |  |
| George B. Frisvold .............. | Agriculture |  |
| Thomas J. Kane ................. | Labor, Welfare, and Education |  |
| Eileen Mauskopf ............... | Macroeconomics and Finance |  |
| Mark J. Mazur ................. | Public Finance |  |
| Robert G. Murphy .............. | Macroeconomics and the Weekly Economic |  |
|  | Briefing of the President |  |
| Peter R. Orszag ................... | International Economics |  |
| Raymond Prince .................. | Environment and Natural Resources |  |
| Marius Schwartz ............... | Regulation, Industrial Organization, and |  |
|  |  | Antitrust |
| Louise M. Sheiner ................ | Public Finance |  |
| Michael A. Toman ............ | Environment and Natural Resources |  |


|  | Senior Statistician Catherine H. Furlong Staff Economists |
| :---: | :---: |
| Michael A. Ash | Labor, Education, and Public Sector |
| Carrie S. Cihak | International Economics |
| J onah B. Gelbach .............. | Public Finance and the Weekly Economic Briefing of the President |
| Valerie A. Mercer | Macroeconomics |
| Andrea Richter | International Economics and the Weekly Economic Briefing of the President |
| Scott J . Wallsten .............. | Industrial Organization, Science \& Technology, and Regulation |
| Research Assistant |  |
| Ronald C. Chen ............... | Macroeconomics and the Weekly E conomic Briefing of the President |
| Statistical Office |  |
| Mrs. Furlong directs the Statistical Office. The Statistical Office |  |
| maintains and updates the Council's statistical information, over- |  |
| sees the publication of the Economic Indicators and the statistical appendix to the Economic Report, and verifies statistics in Presidential and Council memoranda, testimony, and speeches. |  |
| Susan P. Clements ............. Statistician and Information Systems |  |
| Linda A. Reilly ................... Statistical Assistant |  |
| Brian A. Amorosi $\qquad$ Research Assistant |  |
| Margaret L. Snyder $\qquad$ Statistical Aide |  |

The Administrative Office
Elizabeth A. Kaminski ........ Administrative Officer
Catherine Fibich ................. Administrative Assistant

Office of the Chairman

| Alice H. Williams ................. | Executive Assistant to the Chairman |
| :--- | :--- |
| Sandra F. Daigle ................. | Executive Assistant to the Chairman and |
|  |  |
|  | Assistant to the Chief of Staff |

Staff Secretaries

> Mary E. J ones
> Rosalind V. Rasin
> Mary A. Thomas

Mrs. Thomas also served as executive assistant for the Weekly Economic Briefing of the President.

Michael Treadway provided editorial assistance in the preparation of the 1995 Economic Report. Robert E. Cumby, Georgetown University, and David M. Cutler, Harvard University, served as consultants during the year. Student assistants during the year were Matthew W. Alsdorf, Stacy M. Bondanella, Christopher L. Boyster, Loren A. Briggs, Michele M. Campbell, William P. Cowin, David B. Edelstein, William B. Ferretti, Amy C. Fisher, Barbara J . Hawkins, Michael G. Rand, Michael D. Rosenbaum, Toby Stickler, Megan R. Sweeney, Gregory P. Wolf, and Ari Zweiman. The following student assistants joined the Council in J anuary to assist with the preparation of the Economic Report: J oseph W. Corrigan, J ason Imfeld, Samuel Krasnow, Mary Lesh, Robert P. Martin, and Michael Pond.

## DEPARTURES

Thomas P. O'Donnell, who served as Chief of Staff, resigned in April 1995 to accept a position as Chief of Staff at the National Economic Council.
The Council's senior economists, in most cases, are on leave of absence from faculty positions at academic institutions or from other government agencies or research institutions. Their tenure with the Council is usually limited to 1 or 2 years. Most of the senior economists who resigned during the year returned to their previous affiliations. They are Michael R. Donihue (Colby College), Robert D. Innes (University of Arizona), Sally M. Kane (National Oceans and Atmospheric Administration, Department of Commerce), David I. Levine (University of California, Berkeley), Ellen E. Meade (Board of Governors of the Federal Reserve System), J ay S. Stowsky (University of California), and David W. Wilcox (Board of Governors of the Federal Reserve System). J onathan B. Baker went on to a new position at the Federal Trade Commission.
Staff economists are generally graduate students who spend 1 year with the Council and then return to complete their dissertations. Those who returned to their graduate studies in 1995 are: Kimberly A. Clausing (Harvard University), Maya N. Federman (Harvard University), Carolyn Fischer (University of Michigan), Christopher L. Foote (University of Michigan), F. Halsey Rogers (University of California, Berkeley and The Brookings Institution) and Eric D. Wolff (Massachusetts Institute of Technology). Clark Dees served for 2 years as a Research Assistant at the Council. He is now at the University of Virginia.

## Public Information

The Council's Annual Report is the principal medium through which the Council informs the public of its work and its views. It is an important vehicle for presenting the Administration's domes-
tic and international economic policies. Annual distribution of the Report in recent years has averaged about 45,000 copies. The Council also has primary responsibility for compiling the monthly Economic Indicators, which is issued by the J oint Economic Committee of the Congress and has a distribution of approximately 10,000.

Appendix B
STATISTICAL TABLES RELATING TO INCOME, EMPLOYMENT, AND PRODUCTION

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## General Notes

Detail in these tables may not add to totals because of rounding. Unless otherwise noted, all dollar figures are in current dollars.
Symbols used:
${ }_{\mathrm{p}}$ Preliminary.
.... Not available (also, not applicable).
Data in these tables reflect revisions made by the source agencies from J anuary 1995 through early February 1996.
In particular, tables containing national income and product accounts (NIPA) estimates reflect the comprehensive revisions released by the Department of Commerce in early 1996. For information on the revisions, see Box 2-2 in Chapter 2 of this Report. For further details, see the J anuary/F ebruary 1996 issue of the Survey of Current Business.

## NATIONAL INCOME OR EXPENDITURE

Table B-1.-G ross domestic product, 1959-95
[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]


Table B-1.- G ross domestic product, 1959-95-Continued
[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Net exports of goods and services |  |  | Government consumption expenditures and gross investment |  |  |  |  | Final sales of domestic product | Gross domestic purchases ${ }^{1}$ | Addendum: Gross national product ${ }^{2}$ | Percent change from preceding period |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Net exports | Exports | Imports | Total | Federal |  |  | State and local |  |  |  |  |  |
|  |  |  |  |  | Total | National defense | Non-defense |  |  |  |  | Gross domestic product | Gross domestic purchases ${ }^{1}$ |
| 1959 | -1.7 | 20.6 | 22.3 | 112.0 | 67.2 | 55.7 | 11.5 | 44.8 | 503.0 | 508.9 | 510.1 |  |  |
| 1960 | 2.4 | 25.3 | 22.8 | 113.2 | 65.6 | 54.9 | 10.8 | 47.6 | 523.3 | 524.1 | 529.8 | 3.8 | 3.0 |
| 1961 | 3.4 | 26.0 | 22.7 | 120.9 | 69.1 | 57.7 | 11.4 | 51.8 | 541.9 | 541.5 | 548.4 | 3.5 | 3.3 |
| 1962 | 2.4 | 27.4 | 25.0 | 131.4 | 76.5 | 62.3 | 14.2 | 55.0 | 579.1 | 582.8 | 589.4 | 7.4 | 7.6 |
| 1963 | 3.3 | 29.4 | 26.1 | 137.7 | 78.1 | 62.2 | 15.9 | 59.6 | 611.7 | 614.1 | 621.9 | 5.5 | 5.4 |
| 1964 ... | 5.5 | 33.6 | 28.1 | 144.4 | 79.4 | 61.3 | 18.1 | 65.0 | 658.0 | 657.6 | 668.0 | 7.4 | 7.1 |
| 1965 | 3.9 | 35.4 | 31.5 | 153.0 | 81.8 | 62.0 | 19.7 | 71.2 | 709.4 | 715.3 | 724.5 | 8.5 | 8.8 |
| 1966 | 1.9 | 38.9 | 37.1 | 173.6 | 94.1 | 73.4 | 20.7 | 79.5 | 774.0 | 785.9 | 793.0 | 9.5 | 9.9 |
| 1967 .. | 1.4 | 41.4 | 39.9 | 194.6 | 106.6 | 85.5 | 21.0 | 88.1 | 823.1 | 832.2 | 839.1 | 5.8 | 5.9 |
| 1968 | -1.3 | 45.3 | 46.6 | 212.1 | 113.8 | 92.0 | 21.8 | 98.3 | 901.4 | 911.8 | 916.7 | 9.2 | 9.6 |
| 1969 ... | -1.2 | 49.3 | 50.5 | 223.8 | 115.8 | 92.4 | 23.4 | 108.0 | 972.7 | 983.4 | 988.4 | 7.9 | 7.8 |
| 1970 | 1.2 | 57.0 | 55.8 | 236.1 | 115.9 | 90.6 | 25.3 | 120.2 | 1,033.4 | 1,034.4 | 1,042.0 | 5.4 | 5.2 |
| 1971. | -3.0 | 59.3 | 62.3 | 249.9 | 117.1 | 88.7 | 28.3 | 132.8 | 1,116.9 | 1,128.4 | 1,133.1 | 8.7 | 9.1 |
| 1972. | -8.0 | 66.2 | 74.2 | 268.9 | 125.1 | 93.2 | 31.9 | 143.8 | 1,227.4 | 1,245.3 | 1,246.0 | 9.9 | 10.4 |
| 1973 | . 6 | 91.8 | 91.2 | 287.6 | 128.2 | 94.7 | 33.5 | 159.4 | 1,365.2 | 1,382.0 | 1,395.4 | 11.7 | 11.0 |
| 1974 ... | -3.1 | 124.3 | 127.5 | 323.2 | 139.9 | 101.9 | 38.0 | 183.3 | 1,482.8 | 1,500.0 | 1,512.6 | 8.3 | 8.5 |
| 1975 | 13.6 | 136.3 | 122.7 | 362.6 | 154.5 | 110.9 | 43.6 | 208.1 | 1,636.9 | 1,617.1 | 1,643.9 | 8.9 | 7.8 |
| 1976 | -2.3 | 148.9 | 151.1 | 385.9 | 162.7 | 116.1 | 46.6 | 223.1 | 1,802.0 | 1,821.2 | 1,836.1 | 11.5 | 12.6 |
| 1977 | -23.7 | 158.8 | 182.4 | 416.9 | 178.4 | 125.8 | 52.6 | 238.5 | 2,003.8 | 2,050.5 | 2,047.5 | 11.4 | 12.6 |
| 1978 | -26.1 | 186.1 | 212.3 | 457.9 | 194.4 | 135.6 | 58.9 | 263.4 | 2,264.2 | 2,317.5 | 2,313.5 | 13.0 | 13.0 |
| 1979 | -24.0 | 228.7 | 252.7 | 507.1 | 215.0 | 151.2 | 63.8 | 292.0 | 2,540.6 | 2,581.5 | 2,590.4 | 11.6 | 11.4 |
| 1980 | -14.9 | 278.9 | 293.8 | 572.8 | 248.4 | 174.2 | 74.2 | 324.4 | 2,791.9 | 2,799.1 | 2,819.5 | 8.9 | 8.4 |
| 1981 | -15.0 | 302.8 | 317.8 | 633.4 | 284.1 | 202.0 | 82.2 | 349.2 | 3,087.8 | 3,130.9 | 3,150.6 | 11.9 | 11.9 |
| 1982 | -20.5 | 282.6 | 303.2 | 684.8 | 313.2 | 230.9 | 82.3 | 371.6 | 3,256.6 | 3,262.6 | 3,273.2 | 4.1 | 4.2 |
| 1983 | -51.7 | 277.0 | 328.6 | 735.7 | 344.5 | 255.0 | 89.4 | 391.2 | 3,519.4 | 3,566.2 | 3,546.5 | 8.4 | 9.3 |
| 1984 | -102.0 | 303.1 | 405.1 | 796.6 | 372.6 | 282.7 | 89.9 | 424.0 | 3,835.0 | 4,004.5 | 3,933.5 | 11.0 | 12.3 |
| 1985 | -114.2 | 303.0 | 417.2 | 875.0 | 410.1 | 312.4 | 97.7 | 464.9 | 4,154.5 | 4,294.9 | 4,201.0 | 7.1 | 7.3 |
| 1986 | -131.5 | 320.7 | 452.2 | 938.5 | 435.2 | 332.4 | 102.9 | 503.3 | 4,412.6 | 4,553.7 | 4,435.1 | 5.8 | 6.0 |
| 1987 | -142.1 | 365.7 | 507.9 | 992.8 | 455.7 | 350.4 | 105.3 | 537.2 | 4,668.1 | 4,834.5 | 4,701.3 | 6.1 | 6.2 |
| 1988. | -106.1 | 447.2 | 553.2 | 1,032.0 | 457.3 | 354.0 | 103.3 | 574.7 | 5,038.7 | 5,155.6 | 5,062.6 | 7.6 | 6.6 |
| 1989 ... | -80.4 | 509.3 | 589.7 | 1,095.1 | 477.2 | 360.6 | 116.7 | 617.9 | 5,407.0 | 5,519.1 | 5,452.8 | 7.7 | 7.0 |
| 1990. | -71.3 | 557.3 | 628.6 | 1,176.1 | 503.6 | 373.1 | 130.4 | 672.6 | 5,735.8 | 5,815.1 | 5,764.9 | 5.6 | 5.4 |
| 1991. | -20.5 | 601.8 | 622.3 | 1,225.9 | 522.6 | 383.5 | 139.1 | 703.4 | 5,919.0 | 5,937.2 | 5,932.4 | 3.0 | 2.1 |
| 1992 | -29.5 | 639.4 | 669.0 | 1,263.8 | 528.0 | 375.8 | 152.2 | 735.8 | 6,237.4 | 6,274.0 | 6,255.5 | 5.5 | 5.7 |
| 1993 | -64.9 | 660.0 | 724.9 | 1,289.9 | 522.1 | 362.2 | 159.9 | 767.8 | 6,529.7 | 6,615.2 | 6,560.0 | 4.9 | 5.4 |
| 1994 ... | -96.4 | 722.0 | 818.4 | 1,314.7 | 516.3 | 352.0 | 164.3 | 798.4 | 6,871.8 | 7,027.8 | 6,922.4 | 5.8 | 6.2 |
| 1990:1 | -74.3 | 541.6 | 615.9 | 1,153.0 | 496.4 | 369.7 | 126.7 | 656.6 | 5,651.8 | 5,734.7 | 5,681.4 | 9.1 | 8.8 |
|  | -60.3 | 554.8 | 615.1 | 1,164.3 | 500.1 | 370.6 | 129.5 | 664.2 | 5,709.8 | 5,811.3 | 5,767.8 | 6.6 | 5.5 |
| III. | -78.5 | 555.5 | 634.1 | 1,176.9 | 501.2 | 368.9 | 132.3 | 675.7 | 5,768.7 | 5,861.0 | 5,796.8 | 2.2 | 3.5 |
| IV ......... | -72.0 | 577.3 | 649.2 | 1,210.4 | 516.7 | 383.3 | 133.3 | 693.7 | 5,812.9 | 5,853.5 | 5,813.6 | . 1 | -. 5 |
| 1991: 1 | -32.9 | 577.4 | 610.3 | 1,220.6 | 525.6 | 389.7 | 136.0 | 695.0 | 5,838.2 | 5,855.0 | 5,849.0 | 2.8 | . 1 |
|  | -12.3 | 602.7 | 615.0 | 1,227.4 | 528.2 | 389.3 | 138.9 | 699.2 | 5,912.2 | 5,904.6 | 5,904.5 | 4.9 | 3.4 |
| III... | -22.0 | 602.6 | 624.5 | 1,226.5 | 520.9 | 382.1 | 138.8 | 705.5 | 5,944.7 | 5,972.0 | 5,959.4 | 4.0 | 4.6 |
| IV ... | -14.8 | 624.4 | 639.3 | 1,229.2 | 515.5 | 373.0 | 142.6 | 713.6 | 5,980.9 | 6,017.1 | 6,016.6 | 3.6 | 3.1 |
| 1992:1 | -8.9 | 632.4 | 641.3 | 1,247.9 | 521.8 | 372.8 | 149.0 | 726.1 | 6,122.1 | 6,130.7 | 6,138.3 | 8.2 | 7.8 |
| II .. | -29.0 | 635.9 | 664.9 | 1,256.4 | 523.2 | 374.1 | 149.1 | 733.2 | 6,191.0 | 6,230.2 | 6,212.2 | 5.3 | 6.7 |
| III ... | -37.6 | 640.2 | 677.8 | 1,270.7 | 532.0 | 380.9 | 151.1 | 738.7 | 6,260.1 | 6,309.3 | 6,281.1 | 4.6 | 5.2 |
| IV ... | -42.7 | 649.1 | 691.8 | 1,280.0 | 535.0 | 375.3 | 159.7 | 745.1 | 6,376.6 | 6,425.7 | 6,390.5 | 7.3 | 7.6 |
| 1993: 1 | -47.4 | 649.4 | 696.8 | 1,278.8 | 525.0 | 365.2 | 159.8 | 753.8 | 6,422.9 | 6,490.1 | 6,458.4 | 3.8 | 4.1 |
|  | -62.0 | 662.5 | 724.6 | 1,284.6 | 519.6 | 362.2 | 157.4 | 765.0 | 6,481.6 | 6,565.2 | 6,512.3 | 3.8 | 4.7 |
| III ......... | -77.1 | 648.5 | 725.6 | 1,293.6 | 520.8 | 360.7 | 160.1 | 772.7 | 6,549.3 | 6,648.4 | 6,584.8 | 4.3 | 5.2 |
| IV ... | -73.2 | 679.4 | 752.6 | 1,302.7 | 522.9 | 360.8 | 162.2 | 779.7 | 6,664.9 | 6,756.9 | 6,684.5 | 7.0 | 6.7 |
| 1994: 1 | -80.3 | 681.5 | 761.7 | 1,296.4 | 511.3 | 346.7 | 164.6 | 785.0 | 6,732.6 | 6,853.1 | 6,773.6 | 5.4 | 5.8 |
| II ........... | -97.4 | 708.6 | 806.0 | 1,300.8 | 509.4 | 349.3 | 160.0 | 791.4 | 6,810.5 | 6,982.5 | 6,876.3 | 6.8 | 7.8 |
| III .......... | -108.4 | 734.2 | 842.6 | 1,328.0 | 523.6 | 362.1 | 161.5 | 804.4 | 6,922.9 | 7,096.0 | 6,977.6 | 6.1 | 6.7 |
| IV ......... | -99.7 | 763.6 | 863.3 | 1,333.5 | 520.9 | 349.6 | 171.2 | 812.6 | 7,021.3 | 7,179.6 | 7,062.2 | 5.4 | 4.8 |
| 1995: I ..... | -106.6 | 778.6 | 885.1 | 1,346.0 | 519.9 | 347.7 | 172.1 | 826.1 | 7,089.7 | 7,254.3 | 7,140.5 | 3.9 | 4.2 |
| II .......... | -122.4 | 796.9 | 919.3 | 1,359.9 | 522.6 | 352.3 | 170.3 | 837.3 | 7,162.5 | 7,318.9 | 7,187.0 | 2.8 | 3.6 |
| III ......... | -100.6 | 813.2 | 913.7 | 1,365.5 | 517.3 | 346.2 | 171.1 | 848.2 | 7,266.6 | 7,397.7 | 7,281.3 | 5.7 | 4.4 |

[^4]Table B-2.-Rel gross domestic product, 1959-95
[Billions of chained (1992) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross domestic product | Personal consumption expenditures |  |  |  | Gross private domestic investment |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Durable goods | Nondurable goods | Services | Total | Fixed investment |  |  |  |  | Change in business inventories |
|  |  |  |  |  |  |  | Total | Nonresidential |  |  | Residential |  |
|  |  |  |  |  |  |  |  | Total | Structures | Producers' durable equipment |  |  |
| 1959 | 2,212.3 | 1,394.6 | 103.1 | 606.3 | 687.4 | 274.2 | 267.1 | 147.7 | 85.8 | 71.4 | 131.1 | 13.5 |
| 1960 | 2,261.7 | 1,432.6 | 105.2 | 615.4 | 717.4 | 270.5 | 269.2 | 155.9 | 92.6 | 74.3 | 121.8 | 10.6 |
| 1961 | 2,309.8 | 1,461.5 | 101.2 | 626.7 | 746.5 | 265.2 | 267.9 | 154.5 | 93.9 | 72.5 | 122.2 | 8.9 |
| 1962 | 2,449.1 | 1,533.8 | 113.0 | 646.5 | 783.4 | 298.5 | 292.0 | 168.0 | 98.1 | 81.0 | 133.9 | 20.0 |
| 1963 | 2,554.0 | 1,596.6 | 124.0 | 660.0 | 818.7 | 318.1 | 313.7 | 176.4 | 99.2 | 87.1 | 149.6 | 18.1 |
| 1964 | 2,702.9 | 1,692.3 | 135.5 | 692.5 | 868.4 | 344.6 | 343.7 | 197.1 | 109.5 | 98.1 | 158.3 | 15.6 |
| 1965 | 2,874.8 | 1,799.1 | 152.6 | 729.3 | 914.6 | 392.5 | 378.5 | 231.3 | 126.9 | 115.9 | 153.7 | 30.2 |
| 1966 | 3,060.2 | 1,902.0 | 165.5 | 769.2 | 961.0 | 423.5 | 399.1 | 259.4 | 135.6 | 133.8 | 140.0 | 42.3 |
| 1967 | 3,140.2 | 1,958.6 | 168.1 | 781.4 | 1,007.6 | 406.9 | 391.0 | 255.3 | 132.2 | 132.5 | 135.6 | 32.1 |
| 1968 | 3,288.6 | 2,070.2 | 186.6 | 816.9 | 1,059.6 | 429.8 | 418.1 | 266.4 | 134.1 | 140.5 | 154.0 | 26.9 |
| 1969 | 3,388.0 | 2,147.5 | 193.3 | 838.6 | 1,110.8 | 454.4 | 442.9 | 285.6 | 141.3 | 152.2 | 158.6 | 27.2 |
| 1970 | 3,388.2 | 2,197.8 | 187.0 | 859.1 | 1,155.4 | 419.5 | 432.1 | 282.8 | 141.7 | 149.5 | 149.1 | 5.7 |
| 1971 | 3,500.1 | 2,279.5 | 205.7 | 874.5 | 1,197.9 | 467.4 | 464.9 | 282.4 | 139.4 | 150.7 | 190.0 | 22.7 |
| 1972 | 3,690.3 | 2,415.9 | 231.9 | 912.9 | 1,262.5 | 522.1 | 520.3 | 307.7 | 143.7 | 169.8 | 223.7 | 25.2 |
| 1973 | 3,902.3 | 2,532.6 | 255.8 | 942.9 | 1,319.4 | 583.5 | 567.5 | 352.5 | 155.4 | 201.2 | 222.3 | 39.0 |
| 1974 ................ | 3,888.2 | 2,514.7 | 238.2 | 924.5 | 1,351.2 | 544.4 | 530.2 | 354.4 | 152.2 | 205.4 | 176.4 | 24.0 |
| 1975 | 3,865.1 | 2,570.0 | 238.1 | 938.3 | 1,398.3 | 440.5 | 471.0 | 317.3 | 136.2 | 183.9 | 153.5 | -11.0 |
| 1976 | 4,081.1 | 2,714.3 | 268.5 | 984.8 | 1,457.1 | 536.6 | 517.6 | 332.6 | 139.6 | 195.2 | 189.7 | 29.0 |
| 1977 | 4,279.3 | 2,829.8 | 293.4 | 1,010.4 | 1,518.2 | 627.1 | 593.7 | 371.8 | 146.4 | 225.6 | 229.8 | 38.0 |
| 1978 | 4,493.7 | 2,951.6 | 308.8 | 1,045.7 | 1,589.3 | 686.0 | 660.8 | 422.6 | 162.3 | 259.6 | 245.0 | 42.3 |
| 1979 ................ | 4,624.0 | 3,020.2 | 307.3 | 1,069.7 | 1,639.8 | 704.5 | 695.6 | 463.3 | 182.7 | 280.7 | 236.0 | 23.1 |
| 1980 | 4,611.9 | 3,009.7 | 282.6 | 1,065.1 | 1,670.7 | 626.2 | 648.4 | 461.1 | 195.0 | 268.2 | 186.1 | -10.0 |
| 1981 | 4,724.9 | 3,046.4 | 285.8 | 1,074.3 | 1,696.1 | 689.7 | 660.6 | 485.7 | 210.4 | 278.2 | 171.2 | 33.1 |
| 1982 | 4,623.6 | 3,081.5 | 285.5 | 1,080.6 | 1,728.2 | 590.4 | 610.4 | 464.3 | 207.2 | 260.3 | 140.1 | -15.6 |
| 1983 | 4,810.0 | 3,240.6 | 327.4 | 1,112.4 | 1,809.0 | 647.8 | 654.2 | 456.4 | 185.7 | 272.4 | 197.6 | -5.9 |
| 1984 | 5,138.2 | 3,407.6 | 374.9 | 1,151.8 | 1,883.0 | 831.6 | 762.4 | 535.4 | 212.2 | 324.6 | 226.4 | 74.8 |
| 1985 | 5,329.5 | 3,566.5 | 411.4 | 1,178.3 | 1,977.3 | 829.2 | 799.3 | 568.4 | 227.8 | 342.4 | 229.5 | 29.8 |
| 1986 | 5,489.9 | 3,708.7 | 448.4 | 1,215.9 | 2,041.4 | 813.8 | 805.0 | 548.5 | 203.3 | 345.9 | 257.0 | 10.9 |
| 1987 | 5,648.4 | 3,822.3 | 454.9 | 1,239.3 | 2,126.9 | 820.5 | 799.4 | 542.4 | 195.9 | 346.9 | 257.6 | 26.2 |
| 1988 | 5,862.9 | 3,972.7 | 483.5 | 1,274.4 | 2,212.4 | 826.0 | 818.3 | 566.0 | 196.8 | 369.2 | 252.5 | 11.6 |
| 1989 | 6,060.4 | 4,064.6 | 496.2 | 1,303.5 | 2,262.3 | 861.9 | 832.0 | 588.8 | 201.2 | 387.6 | 243.2 | 33.3 |
| 1990 | 6,138.7 | 4,132.2 | 493.3 | 1,316.1 | 2,321.3 | 817.3 | 805.8 | 585.2 | 203.3 | 381.9 | 220.6 | 10.4 |
| 1991 | 6,079.0 | 4,105.8 | 462.0 | 1,302.9 | 2,341.0 | 737.7 | 741.3 | 547.7 | 181.6 | 366.2 | 193.4 | -3.0 |
| 1992 | 6,244.4 | 4,219.8 | 488.5 | 1,321.8 | 2,409.4 | 790.4 | 783.4 | 557.9 | 169.2 | 388.7 | 225.6 | 7.3 |
| 1993 | 6,383.8 | 4,339.7 | 524.1 | 1,348.9 | 2,466.8 | 857.3 | 836.4 | 593.6 | 166.3 | 427.6 | 242.7 | 19.1 |
| 1994 .... | 6,604.2 | 4,471.1 | 562.0 | 1,390.5 | 2,519.4 | 979.6 | 921.1 | 652.1 | 168.8 | 484.1 | 268.9 | 58.9 |
| 1990:1 | 6,154.1 | 4,128.9 | 511.2 | 1,319.2 | 2,295.7 | 844.1 | 834.7 | 595.3 | 206.5 | 388.8 | 239.4 | 11.0 |
| II ............. | 6,174.4 | 4,134.7 | 495.4 | 1,316.9 | 2,321.1 | 856.1 | 811.2 | 583.4 | 205.5 | 377.8 | 227.8 | 43.8 |
| III .. | 6,145.2 | 4,148.5 | 490.4 | 1,319.8 | 2,337.3 | 820.8 | 803.1 | 588.1 | 205.2 | 383.0 | 214.9 | 14.9 |
| IV ............ | 6,081.0 | 4,116.4 | 476.3 | 1,308.4 | 2,331.2 | 748.1 | 774.4 | 573.9 | 196.0 | 377.9 | 200.3 | -28.2 |
| 1991: 1 | 6,047.9 | 4,084.5 | 458.6 | 1,300.6 | 2,325.3 | 725.5 | 742.6 | 555.1 | 192.2 | 362.9 | 187.4 | -17.5 |
| II .............. | 6,074.1 | 4,110.0 | 460.5 | 1,308.0 | 2,341.5 | 718.0 | 739.4 | 550.9 | 187.2 | 363.8 | 188.3 | -20.8 |
| III ............ | 6,089.3 | 4,119.5 | 467.3 | 1,307.1 | 2,345.0 | 744.9 | 741.0 | 545.3 | 175.5 | 369.8 | 195.6 | 4.9 |
| IV ............ | 6,104.4 | 4,109.1 | 461.5 | 1,295.7 | 2,352.0 | 762.4 | 742.0 | 539.5 | 171.4 | 368.1 | 202.4 | 21.4 |
| 1992: 1 | 6,175.3 | 4,173.8 | 476.1 | 1,314.4 | 2,383.2 | 757.9 | 758.3 | 544.4 | 172.7 | 371.7 | 213.9 | -. 1 |
|  | 6,214.2 | 4,196.4 | 481.1 | 1,312.0 | 2,403.2 | 792.8 | 782.4 | 557.5 | 171.0 | 386.4 | 224.9 | 11.3 |
| III ............ | 6,260.9 | 4,226.7 | 491.9 | 1,321.1 | 2,413.6 | 798.6 | 787.3 | 560.6 | 167.4 | 393.1 | 226.7 | 12.1 |
| IV ............ | 6,327.3 | 4,282.3 | 505.0 | 1,339.8 | 2,437.6 | 812.4 | 805.8 | 569.1 | 165.6 | 403.5 | 236.7 | 5.8 |
| 1993: 1 | 6,327.0 | 4,290.0 | 506.0 | 1,336.9 | 2,447.0 | 834.8 | 815.4 | 577.5 | 167.0 | 410.5 | 237.9 | 18.5 |
| II .............. | 6,353.7 | 4,319.0 | 519.6 | 1,344.7 | 2,454.9 | 843.2 | 821.1 | 586.4 | 164.8 | 421.7 | 234.8 | 20.8 |
| III ............. | 6,390.4 | 4,359.7 | 528.9 | 1,354.2 | 2,476.7 | 857.6 | 835.4 | 593.1 | 165.1 | 428.2 | 242.2 | 19.5 |
| IV ............. | 6,463.9 | 4,390.0 | 541.9 | 1,359.8 | 2,488.6 | 893.4 | 873.5 | 617.6 | 168.2 | 449.8 | 255.8 | 17.4 |
| 1994: \\| | 6,504.6 | 4,418.8 | 549.6 | 1,372.7 | 2,497.0 | 933.5 | 892.4 | 628.6 | 163.0 | 466.5 | 263.6 | 40.1 |
| II .............. | 6,581.5 | 4,457.7 | 555.4 | 1,383.7 | 2,519.0 | 984.6 | 911.4 | 639.5 | 169.0 | 471.2 | 271.6 | 74.1 |
| III ............ | 6,639.5 | 4,485.8 | 563.0 | 1,397.2 | 2,526.3 | 994.1 | 930.8 | 660.4 | 169.1 | 492.4 | 270.3 | 64.0 |
| IV ............ | 6,691.3 | 4,522.3 | 579.9 | 1,408.4 | 2,535.1 | 1,006.3 | 949.7 | 679.7 | 174.3 | 506.4 | 270.3 | 57.3 |
| 1995: \| | 6,701.6 | 4,530.9 | 566.9 | 1,416.8 | 2,548.1 | 1,024.2 | 969.6 | 704.4 | 178.5 | 527.1 | 265.9 | 54.5 |
| II... | 6,709.4 | 4,568.8 | 576.6 | 1,423.5 | 2,569.6 | 998.3 | 966.1 | 710.6 | 180.0 | 531.9 | 256.6 | 30.6 |
| III ............. | 6,763.2 | 4,601.1 | 589.8 | 1,425.3 | 2,586.9 | 1,008.9 | 980.6 | 719.8 | 182.4 | 538.6 | 261.8 | 27.1 |

See next page for continuation of table.

Table B-2.-Real gross dometic product, 1959-95-Continued
[Billions of chained (1992) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Net exports of goods and services |  |  | Government consumption expenditures and gross investment |  |  |  |  | Final sales of domestic product | Gross domestic purchases ${ }^{1}$ | Addendum: <br> Gross national product ${ }^{2}$ | Percent change from preceding period |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Net exports | Exports | Imports | Total | Federal |  |  | State and local |  |  |  |  |  |
|  |  |  |  |  | Total | Nation- <br> al <br> defense | Non-defense |  |  |  |  | Gross domestic product | Gross domestic purchases ${ }^{1}$ |
| 1959 | -34.8 | 71.9 | 106.6 | 618.5 | 360.5 | 307.6 | 58.8 | 256.8 | 2,206.9 | 2,270.4 | 2,224.3 |  |  |
| 1960 | -21.3 | 86.8 | 108.1 | 617.2 | 349.4 | 301.3 | 54.1 | 267.2 | 2,264.2 | 2.303 .1 | 2,274.8 | 2.2 | 1.4 |
| 1961 | -19.1 | 88.3 | 107.3 | 647.2 | 363.0 | 313.8 | 55.5 | 283.8 | 2,318.0 | 2,349.7 | 2,324.6 | 2.1 | 2.0 |
| 1962 | -26.5 | 93.0 | 119.5 | 686.0 | 393.2 | 332.4 | 66.8 | 292.1 | 2,445.4 | 2,497.4 | 2,465.9 | 6.0 | 6.3 |
| 1963 | -22.7 | 100.0 | 122.7 | 701.9 | 391.8 | 324.0 | 72.9 | 309.7 | 2,552.4 | 2,598.9 | 2,572.0 | 4.3 | 4.1 |
| 1964 | -15.9 | 113.3 | 129.2 | 715.9 | 385.2 | 309.9 | 79.2 | 330.9 | 2,705.1 | 2,740.5 | 2,722.3 | 5.8 | 5.4 |
| 1965 | -27.4 | 115.6 | 143.0 | 737.6 | 385.2 | 303.8 | 84.6 | 353.2 | 2,860.4 | 2,925.9 | 2,895.2 | 6.4 | 6.8 |
| 1966 | -40.9 | 123.4 | 164.2 | 804.6 | 429.1 | 348.2 | 85.7 | 375.9 | 3,033.5 | 3,124.9 | 3,078.9 | 6.4 | 6.8 |
| 1967 | -50.1 | 126.1 | 176.2 | 865.6 | 471.7 | 393.5 | 84.7 | 394.2 | 3,125.1 | 3,214.2 | 3,159.4 | 2.6 | 2.9 |
| 1968 | -67.2 | 135.3 | 202.5 | 892.4 | 476.3 | 400.9 | 82.5 | 416.5 | 3,278.0 | 3,377.4 | 3,309.2 | 4.7 | 5.1 |
| 1969 | -71.3 | 142.7 | 214.0 | 887.5 | 459.9 | 381.6 | 84.3 | 428.0 | 3,377.2 | 3,480.1 | 3,407.8 | 3.0 | 3.0 |
| 1970 | -65.0 | 158.1 | 223.1 | 866.8 | 427.2 | 349.0 | 83.0 | 440.0 | 3,406.5 | 3,469.1 | 3,407.7 | . 0 | -. 3 |
| 1971 | -75.8 | 159.2 | 235.0 | 851.0 | 397.0 | 313.7 | 86.3 | 454.4 | 3,499.8 | 3,592.5 | 3,522.2 | 3.3 | 3.6 |
| 1972 | -88.9 | 172.0 | 261.0 | 854.1 | 390.2 | 300.3 | 91.9 | 464.5 | 3,689.5 | 3,794.0 | 3,714.3 | 5.4 | 5.6 |
| 1973 | -63.0 | 209.6 | 272.6 | 848.4 | 371.1 | 281.2 | 91.5 | 478.5 | 3,883.9 | 3,975.2 | 3,936.0 | 5.7 | 4.8 |
| 1974 | -35.6 | 229.8 | 265.3 | 862.9 | 368.8 | 273.5 | 96.4 | 495.6 | 3,873.4 | 3,925.7 | 3,927,1 | -. 4 | -1.2 |
| 1975 | -7.2 | 228.2 | 235.4 | 876.3 | 367.9 | 269.7 | 99.1 | 510.0 | 3,906.4 | 3,867.2 | 3,894.5 | -. 6 | -1.5 |
| 1976 | -39.9 | 241.6 | 281.5 | 876.8 | 364.3 | 264.7 | 100.4 | 514.3 | 4,061.7 | 4,122.9 | 4,116.9 | 5.6 | 6.6 |
| 1977 | -64.2 | 247.4 | 311.6 | 884.7 | 370.1 | 266.4 | 104.3 | 516.4 | 4,240.8 | 4,351.5 | 4,320.2 | 4.9 | 5.5 |
| 1978 | -65.6 | 273.1 | 338.6 | 910.6 | 377.7 | 266.7 | 111.4 | 534.7 | 4,464.4 | 4,565.7 | 4,534.4 | 5.0 | 4.9 |
| 1979 | -45.3 | 299.0 | 344.3 | 924.9 | 383.3 | 271.0 | 112.7 | 543.5 | 4,614.4 | 4,668.2 | 4,680.8 | 2.9 | 2.2 |
| 1980 | 10.1 | 331.4 | 321.3 | 941.4 | 399.3 | 280.7 | 119.0 | 543.6 | 4,641.9 | 4,578.6 | 4,667.7 | -. 3 | -1.9 |
| 1981 | 5.6 | 335.3 | 329.7 | 947.7 | 415.9 | 296.0 | 120.4 | 532.8 | 4,691.6 | 4,697.3 | 4,774.1 | 2.5 | 2.6 |
| 1982 | -14.1 | 311.4 | 325.5 | 960.1 | 429.4 | 316.5 | 113.3 | 531.4 | 4,651.2 | 4,622.7 | 4,665.4 | -2.1 | -1.6 |
| 1983 | -63.3 | 303.3 | 366.6 | 987.3 | 452.7 | 334.6 | 118.5 | 534.9 | 4,821.2 | 4,870.7 | 4,851.2 | 4.0 | 5.4 |
| 1984 | -127.3 | 328.4 | 455.7 | 1,018.4 | 463.7 | 348.1 | 115.9 | 555.0 | 5,061.6 | 5,274.4 | 5,176.1 | 6.8 | 8.3 |
| 1985 | -147.9 | 337.3 | 485.2 | 1,080.1 | 495.6 | 374.1 | 121.8 | 584.7 | 5,296.9 | 5,488.8 | 5,352.7 | 3.7 | 4.1 |
| 1986 | -163.9 | 362.2 | 526.1 | 1,135.0 | 518.4 | 393.4 | 125.2 | 616.9 | 5,480.9 | 5,666.1 | 5,503.4 | 3.0 | 3.2 |
| 1987 | -156.2 | 402.0 | 558.2 | 1,165.9 | 534.4 | 409.2 | 125.3 | 631.8 | 5.626 .0 | 5,815.7 | 5,657.2 | 2.9 | 2.6 |
| 1988 | -114.4 | 465.8 | 580.2 | 1,180.9 | 524.6 | 405.5 | 119.1 | 656.6 | 5,855.1 | 5,983.9 | 5,876.2 | 3.8 | 2.9 |
| 1989 | -82.7 | 520.2 | 603.0 | 1,213.9 | 531.5 | 401.6 | 130.1 | 682.6 | 6,028.7 | 6,146.1 | 6,074.0 | 3.4 | 2.7 |
| 1990 | -61.9 | 564.4 | 626.3 | 1,250.4 | 541.9 | 401.5 | 140.5 | 708.6 | 6,126.7 | 6,202.1 | 6,159.4 | 1.3 | . 9 |
| 1991 | -22.3 | 599.9 | 622.2 | 1,258.0 | 539.4 | 397.5 | 142.0 | 718.7 | 6,082.6 | 6,101.1 | 6,094.4 | -1.0 | -1.6 |
| 1992 | -29.5 | 639.4 | 669.0 | 1,263.8 | 528.0 | 375.8 | 152.2 | 735.8 | 6,237.4 | 6,274.0 | 6,255.5 | 2.7 | 2.8 |
| 1993 | -74.4 | 660.6 | 735.0 | 1,260.5 | 508.7 | 354.9 | 153.8 | 751.8 | 6,362.9 | 6,457.3 | 6,393.7 | 2.2 | 2.9 |
| 1994 | -108.1 | 715.1 | 823.3 | 1,259.9 | 489.7 | 336.9 | 152.6 | 770.5 | 6,546.3 | 6,709.7 | 6,596.6 | 3.5 | 3.9 |
| 1990:1 | -67.1 | 555.2 | 622.3 | 1,246.5 | 542.9 | 404.1 | 138.9 | 703.8 | 6,144.6 | 6,222.9 | 6,174.3 | 4.1 | 3.2 |
|  | -66.7 | 566.8 | 633.5 | 1,248.2 | 543.0 | 402.8 | 140.4 | 705.4 | 6,127.5 | 6,242.9 | 6,190.8 | 1.3 | 1.3 |
| III. | -71.2 | 561.8 | 633.0 | 1,246.8 | 538.2 | 396.1 | 142.2 | 708.7 | 6,126.6 | 6,218.4 | 6,158.8 | -1.9 | -1.6 |
| IV | -42.5 | 573.9 | 616.4 | 1,259.9 | 543.5 | 403.1 | 140.5 | 716.5 | 6,108.1 | 6,124.3 | 6,113.4 | -4.1 | -5.9 |
| 1991: \| | -24.3 | 572.3 | 596.6 | 1,262.6 | 547.3 | 408.4 | 139.0 | 715.5 | 6,065.4 | 6,072.2 | 6,074.8 | -2.2 | -3.4 |
| 11. | -17.1 | 600.3 | 617.4 | 1,263.8 | 547.1 | 405.0 | 142.2 | 716.8 | 6,095.9 | 6,091.1 | 6,085.8 | 1.7 | 1.2 |
| III.. | -29.8 | 603.6 | 633.4 | 1,255.1 | 536.3 | 395.0 | 141.4 | 718.8 | 6,085.4 | 6,119.1 | 6,098.3 | 1.0 | 1.9 |
| IV ... | -17.9 | 623.5 | 641.4 | 1,250.7 | 526.9 | 381.7 | 145.3 | 723.8 | 6,083.8 | 6,122.3 | 6,118.7 | 1.0 |  |
| 1992: I | -14.8 | 633.0 | 647.8 | 1,258.5 | 525.1 | 374.2 | 150.8 | 733.5 | 6,175.8 | 6,190.0 | 6,191.6 | 4.7 | 4.5 |
|  | -32.5 | 635.8 | 668.3 | 1,257.5 | 523.3 | 373.3 | 150.0 | 734.2 | 6,203.8 | 6,246.8 | 6,225.1 | 2.5 | 3.7 |
| III ................ | -30.8 | 639.7 | 670.5 | 1,266.5 | 529.6 | 378.7 | 150.9 | 736.9 | 6,249.5 | 6,291.9 | 6,270.4 | 3.0 | 2.9 |
| IV ................ | -40.0 | 649.1 | 689.1 | 1,272.5 | 534.0 | 376.8 | 157.1 | 738.5 | 6,320.7 | 6,367.3 | 6,334.8 | 4.3 | 4.9 |
| 1993: 1 | -55.2 | 649.8 | 705.1 | 1,257.2 | 515.7 | 361.2 | 154.5 | 741.6 | 6,307.7 | 6,382.0 | 6,342.7 | . 0 | . 9 |
| II.. | -67.0 | 662.3 | 729.4 | 1,257.9 | 509.2 | 356.4 | 152.7 | 748.8 | 6,331.6 | 6,420.2 | 6,362.9 | 1.7 | 2.4 |
| III | -89.1 | 648.9 | 738.1 | 1,261.1 | 505.4 | 351.2 | 154.2 | 755.7 | 6,368.2 | 6,478.3 | 6,404.0 | 2.3 | 3.7 |
| IV .... | -86.2 | 681.4 | 767.6 | 1,265.7 | 504.5 | 350.8 | 153.7 | 761.3 | 6,444.1 | 6,548.7 | 6,465.1 | 4.7 | 4.4 |
| 1994:\| | -101.3 | 680.4 | 781.7 | 1,252.3 | 489.8 | 334.8 | 154.8 | 762.7 | 6,464.0 | 6,603.9 | 6,506.2 | 2.5 | 3.4 |
| II | -112.2 | 704.3 | 816.5 | 1,249.7 | 483.3 | 335.5 | 147.7 | 766.8 | 6,509.0 | 6,691.0 | 6,573.9 | 4.8 | 5.4 |
| III | -113.3 | 724.8 | 838.1 | 1,271.0 | 496.6 | 346.1 | 150.5 | 774.7 | 6,576.8 | 6,749.7 | 6,631.1 | 3.6 | 3.6 |
| IV ......... | -105.8 | 751.0 | 856.8 | 1,266.6 | 489.1 | 331.3 | 157.5 | 777.7 | 6,635.2 | 6,794.0 | 6,675.4 | 3.2 | 2.7 |
| 1995: I | -119.0 | 755.8 | 874.9 | 1,263.0 | 481.3 | 325.3 | 155.6 | 782.2 | 6,647.5 | 6,816.9 | 6,695.7 | . 6 | 1.4 |
| 11. | -126.8 | 764.3 | 891.2 | 1,265.8 | 479.9 | 326.1 | 153.6 | 786.3 | 6,677.4 | 6,832.0 | 6,701.2 | . 5 | . 9 |
| III | -114.1 | 779.7 | 893.9 | 1,264.4 | 473.2 | 319.8 | 153.1 | 791.7 | 6,735.0 | 6,873.6 | 6,749.5 | 3.2 | 2.5 |

[^5]Table B-3.-Chain-type price indexes for gross domestic produd, 1959-95
[Index numbers, 1992=100, except as noted; quarterly data seasonally adjusted]

| Year or quarter | Gross domestic product | Personal consumption expenditures |  |  |  | Gross private domestic investment |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Durable goods | Nondurable goods | Services | Total | Fixed investment |  |  |  |  |
|  |  |  |  |  |  |  | Total | Nonresidential |  |  | Residential |
|  |  |  |  |  |  |  |  | Total | Structures | Producers' durable equipment |  |
| 1959 ..................... | 23.0 | 22.8 | 41.4 | 24.5 | 18.5 | 29.6 | 27.9 | 31.5 | 21.2 | 39.7 | 21.4 |
| 1960 | 23.3 | 23.2 | 41.2 | 24.8 | 19.0 | 29.7 | 28.1 | 31.6 | 21.1 | 40.0 | 21.6 |
| 1961 | 23.6 | 23.4 | 41.3 | 25.0 | 19.3 | 29.7 | 28.0 | 31.5 | 21.0 | 39.9 | 21.6 |
| 1962 | 23.9 | 23.7 | 41.5 | 25.2 | 19.6 | 29.7 | 28.0 | 31.5 | 21.2 | 39.7 | 21.6 |
| 1963. | 24.2 | 24.0 | 41.6 | 25.5 | 19.9 | 29.6 | 28.0 | 31.5 | 21.4 | 39.5 | 21.5 |
| 1964 ...................... | 24.6 | 24.3 | 41.8 | 25.8 | 20.3 | 29.8 | 28.1 | 31.7 | 21.7 | 39.5 | 21.6 |
| 1965 | 25.0 | 24.7 | 41.4 | 26.3 | 20.7 | 30.2 | 28.6 | 32.1 | 22.3 | 39.6 | 22.3 |
| 1966 | 25.7 | 25.3 | 41.3 | 27.1 | 21.3 | 30.8 | 29.2 | 32.5 | 23.1 | 39.7 | 23.1 |
| 1967 | 26.6 | 26.0 | 41.9 | 27.8 | 22.0 | 31.6 | 30.1 | 33.4 | 23.8 | 40.6 | 23.9 |
| 1968 ...................... | 27.7 | 27.0 | 43.3 | 28.9 | 23.0 | 32.8 | 31.3 | 34.6 | 25.0 | 41.7 | 25.1 |
| 1969 ..................... | 29.0 | 28.2 | 44.5 | 30.2 | 23.9 | 34.4 | 32.9 | 36.0 | 26.7 | 42.9 | 26.9 |
| 1970 | 30.6 | 29.5 | 45.4 | 31.7 | 25.2 | 35.8 | 34.3 | 37.8 | 28.4 | 44.5 | 27.7 |
| 1971 | 32.1 | 30.8 | 47.1 | 32.6 | 26.7 | 37.6 | 36.0 | 39.6 | 30.6 | 45.9 | 29.4 |
| 1972 | 33.5 | 31.9 | 47.6 | 33.7 | 27.9 | 39.3 | 37.6 | 41.0 | 32.8 | 46.5 | 31.1 |
| 1973 | 35.4 | 33.6 | 48.3 | 36.4 | 29.2 | 41.3 | 39.7 | 42.6 | 35.4 | 47.3 | 33.9 |
| 1974 ..................... | 38.5 | 37.0 | 51.3 | 41.6 | 31.4 | 45.3 | 43.7 | 46.8 | 40.2 | 50.9 | 37.4 |
| 1975 | 42.2 | 40.0 | 56.0 | 44.8 | 34.0 | 51.0 | 49.2 | 53.3 | 45.0 | 58.6 | 40.9 |
| 1976 ... | 44.6 | 42.3 | 59.2 | 46.5 | 36.5 | 53.8 | 52.1 | 56.3 | 47.2 | 62.2 | 43.5 |
| 1977 | 47.5 | 45.1 | 61.7 | 49.2 | 39.5 | 57.5 | 56.2 | 60.0 | 50.9 | 65.9 | 48.0 |
| 1978 | 50.9 | 48.4 | 65.2 | 52.6 | 42.6 | 62.4 | 61.1 | 64.4 | 56.3 | 69.6 | 53.7 |
| 1979 ..................... | 55.3 | 52.8 | 69.6 | 58.3 | 46.1 | 68.0 | 66.7 | 69.7 | 62.9 | 74.1 | 59.7 |
| 1980 .. | 60.4 | 58.5 | 75.6 | 65.3 | 51.0 | 74.5 | 73.0 | 76.0 | 68.7 | 80.7 | 66.2 |
| 1981 ... | 66.1 | 63.7 | 80.6 | 70.6 | 56.2 | 81.4 | 79.9 | 83.5 | 78.2 | 86.6 | 71.6 |
| 1982 | 70.2 | 67.4 | 83.8 | 72.8 | 60.8 | 85.6 | 84.5 | 88.3 | 84.4 | 90.2 | 75.5 |
| 1983 | 73.2 | 70.5 | 85.5 | 74.6 | 64.9 | 85.4 | 84.4 | 87.5 | 82.2 | 90.6 | 77.2 |
| 1984 ...................... | 75.9 | 73.1 | 86.7 | 76.7 | 68.2 | 86.0 | 85.0 | 87.5 | 82.9 | 90.0 | 79.4 |
| 1985 ...... | 78.6 | 75.8 | 87.8 | 78.7 | 71.6 | 87.0 | 86.2 | 88.3 | 84.9 | 90.1 | 81.5 |
| 1986 | 80.6 | 78.0 | 88.9 | 78.7 | 75.3 | 89.0 | 88.6 | 90.2 | 86.5 | 92.2 | 84.9 |
| 1987 | 83.1 | 81.0 | 91.6 | 81.8 | 78.2 | 91.0 | 90.4 | 91.3 | 87.9 | 93.2 | 88.3 |
| 1988 ... | 86.1 | 84.3 | 93.3 | 84.8 | 82.2 | 93.5 | 93.2 | 93.7 | 92.1 | 94.6 | 92.1 |
| 1989 ..................... | 89.7 | 88.4 | 95.3 | 89.3 | 86.6 | 96.1 | 95.9 | 96.2 | 95.6 | 96.4 | 95.1 |
| 1990. | 93.6 | 92.9 | 96.6 | 94.6 | 91.2 | 98.4 | 98.2 | 98.4 | 98.8 | 98.2 | 97.8 |
| 1991. | 97.3 | 96.8 | 98.5 | 98.1 | 95.8 | 99.7 | 99.6 | 99.9 | 100.1 | 99.8 | 98.8 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 | 102.6 | 102.6 | 101.3 | 101.5 | 103.6 | 101.7 | 101.7 | 100.9 | 103.3 | 99.9 | 103.7 |
| 1994 ........ | 105.0 | 105.1 | 103.4 | 102.8 | 106.7 | 103.6 | 103.7 | 102.3 | 106.7 | 100.6 | 107.0 |
| 1990: I | 92.0 | 91.0 | 96.5 | 92.6 | 89.1 | 97.6 | 97.5 | 97.6 | 97.8 | 97.5 | 97.2 |
| II .................. | 93.2 | 92.2 | 96.4 | 93.4 | 90.7 | 98.0 | 97.9 | 98.0 | 98.5 | 97.7 | 97.6 |
| III .................. | 94.2 | 93.5 | 96.5 | 95.2 | 92.0 | 98.6 | 98.5 | 98.7 | 99.2 | 98.4 | 98.1 |
| IV ................. | 95.1 | 94.9 | 96.9 | 97.4 | 93.1 | 99.3 | 99.1 | 99.4 | 99.7 | 99.3 | 98.3 |
| 1991:I ............... | 96.3 | 95.7 | 97.9 | 97.5 | 94.3 | 99.7 | 99.6 | 100.1 | 100.1 | 100.1 | 98.4 |
| II ................. | 97.0 | 96.4 | 98.4 | 97.8 | 95.2 | 99.7 | 99.6 | 99.9 | 100.2 | 99.8 | 98.7 |
| III ............... | 97.7 | 97.1 | 98.8 | 98.2 | 96.2 | 99.7 | 99.7 | 99.8 | 100.4 | 99.5 | 99.3 |
| IV ................. | 98.3 | 98.0 | 99.1 | 98.7 | 97.4 | 99.7 | 99.6 | 99.9 | 99.7 | 99.9 | 99.0 |
| 1992: I .................. | 99.1 | 98.9 | 99.6 | 99.2 | 98.6 | 99.6 | 99.6 | 99.9 | 99.3 | 100.2 | 98.8 |
| II .................. | 99.8 | 99.7 | 100.1 | 99.7 | 99.6 | 99.8 | 99.8 | 99.9 | 99.7 | 100.0 | 99.5 |
| III .................. | 100.2 | 100.3 | 100.1 | 100.4 | 100.3 | 100.1 | 100.1 | 100.1 | 100.1 | 100.1 | 100.2 |
| IV ................. | 100.9 | 101.1 | 100.2 | 100.7 | 101.5 | 100.5 | 100.5 | 100.1 | 100.9 | 99.8 | 101.5 |
| 1993: 1 | 101.8 | 101.8 | 100.5 | 101.3 | 102.4 | 101.0 | 101.0 | 100.5 | 101.9 | 99.9 | 102.3 |
| II .................. | 102.4 | 102.5 | 101.1 | 101.5 | 103.3 | 101.6 | 101.6 | 100.8 | 103.0 | 99.9 | 103.6 |
| III .................. | 102.8 | 102.8 | 101.5 | 101.3 | 103.9 | 101.9 | 102.0 | 101.0 | 103.8 | 99.9 | 104.3 |
| IV ................. | 103.4 | 103.5 | 101.9 | 101.9 | 104.7 | 102.1 | 102.2 | 101.1 | 104.6 | 99.8 | 104.7 |
| 1994:I ............... | 104.1 | 104.1 | 102.4 | 102.0 | 105.6 | 102.8 | 102.8 | 101.6 | 105.5 | 100.1 | 105.7 |
| II ................... | 104.6 | 104.7 | 103.2 | 102.4 | 106.2 | 103.3 | 103.4 | 102.2 | 106.0 | 100.7 | 106.2 |
| III .................. | 105.2 | 105.5 | 104.0 | 103.3 | 107.1 | 104.0 | 104.1 | 102.8 | 107.1 | 101.1 | 107.4 |
| IV ................. | 105.8 | 106.1 | 103.9 | 103.6 | 107.9 | 104.4 | 104.4 | 102.7 | 108.4 | 100.6 | 108.6 |
| 1995:I .................. | 106.7 | 106.8 | 104.7 | 103.9 | 108.8 | 104.6 | 104.6 | 102.8 | 109.0 | 100.4 | 109.2 |
| II ................... | 107.3 | 107.5 | 104.9 | 104.5 | 109.7 | 105.4 | 105.3 | 103.5 | 109.8 | 101.1 | 109.9 |
| III ................. | 108.0 | 108.0 | 104.8 | 104.7 | 110.5 | 106.1 | 106.0 | 104.0 | 110.8 | 101.4 | 110.9 |

[^6]Table B-3.-Chain-type price indexes for gross dometic product, 1959-95-Continued
[Index numbers, 1992=100, except as noted; quarterly data seasonally adjusted]

| Year or quarter | Exports and imports of goods and services |  | Government consumption expenditures and gross investment |  |  |  |  | $\begin{gathered} \text { Final } \\ \text { sales } \\ \text { of } \\ \text { do- } \\ \text { mes- } \\ \text { tic } \\ \text { prod- } \\ \text { uct } \end{gathered}$ | Gross domestic purchases ${ }^{1}$ |  | Gross national product | Percent change ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Gross do-mestic product | Gross domestic purchases |  |  |  |  |  |
|  |  |  |  |  |  | Federal |  |  | State and local | Total |  | Less <br> food <br> and <br> en- <br> ergy |
|  | Exports | Imports |  | Total | Total | Na tional defense | Non-defense |  |  |  |  |  | Total | Less <br> food <br> and <br> en- <br> ergy |
| 1959 | 28.7 | 20.9 |  | 18.1 | 18.6 | 18.1 | 19.5 |  | 17.4 | 22.8 | 22.5 | ......... | 23.0 | .......... | .......... |  |
| 1960 | 29.1 | 21.1 | 18.3 | 18.8 | 18.2 | 19.8 | 17.8 | 23.1 | 22.8 |  | 23.4 | 1.4 | 1.4 |  |
| 1961 | 29.5 | 21.1 | 18.7 | 19.0 | 18.4 | 20.5 | 18.2 | 23.4 | 23.1 |  | 23.6 | 1.2 | 1.1 |  |
| 1962 | 29.5 | 20.9 | 19.1 | 19.4 | 18.7 | 21.1 | 18.8 | 23.7 | 23.4 |  | 23.9 | 1.3 | 1.2 |  |
| 1963 | 29.4 | 21.3 | 19.6 | 19.9 | 19.2 | 21.7 | 19.3 | 24.0 | 23.7 |  | 24.2 | 1.2 | 1.3 |  |
| 1964 ... | 29.6 | 21.7 | 20.2 | 20.6 | 19.8 | 22.8 | 19.6 | 24.3 | 24.0 |  | 24.6 | 1.5 | 1.5 |  |
| 1965 | 30.6 | 22.1 | 20.7 | 21.2 | 20.4 | 23.2 | 20.2 | 24.8 | 24.5 |  | 25.0 | 1.9 | 1.8 |  |
| 1966 .... | 31.6 | 22.6 | 21.6 | 21.9 | 21.1 | 24.0 | 21.1 | 25.5 | 25.1 |  | 25.8 | 2.8 | 2.8 |  |
| 1967 | 32.8 | 22.7 | 22.5 | 22.6 | 21.7 | 24.7 | 22.3 | 26.3 | 25.9 |  | 26.6 | 3.2 | 3.0 |  |
| 1968 | 33.5 | 23.0 | 23.7 | 23.8 | 22.9 | 26.3 | 23.6 | 27.5 | 27.0 |  | 27.7 | 4.4 | 4.3 |  |
| 1969 ...... | 34.5 | 23.6 | 25.2 | 25.1 | 24.2 | 27.7 | 25.2 | 28.8 | 28.3 | .......... | 29.0 | 4.7 | 4.7 |  |
| 1970 | 36.0 | 25.0 | 27.2 | 27.1 | 25.9 | 30.3 | 27.3 | 30.3 | 29.8 |  | 30.6 | 5.3 | 5.4 |  |
| 1971 .... | 37.3 | 26.5 | 29.3 | 29.4 | 28.2 | 32.7 | 29.2 | 31.9 | 31.4 | .......... | 32.2 | 5.2 | 5.3 |  |
| 1972 | 38.5 | 28.4 | 31.5 | 32.0 | 31.0 | 34.5 | 31.0 | 33.3 | 32.8 | .......... | 33.5 | 4.2 | 4.5 |  |
| 1973 ..... | 43.8 | 33.4 | 33.9 | 34.5 | 33.7 | 36.5 | 33.3 | 35.1 | 34.7 | .......... | 35.4 | 5.6 | 5.8 |  |
| 1974 ....... | 54.1 | 48.0 | 37.4 | 37.9 | 37.2 | 39.3 | 37.0 | 38.3 | 38.2 | .......... | 38.5 | 8.9 | 10.2 |  |
| 1975 | 59.7 | 52.1 | 41.4 | 41.9 | 41.1 | 43.8 | 40.8 | 41.9 | 41.8 |  | 42.2 | 9.4 | 9.3 |  |
| 1976 ... | 61.6 | 53.7 | 44.0 | 44.6 | 43.9 | 46.3 | 43.4 | 44.4 | 44.2 | ........... | 44.6 | 5.8 | 5.8 |  |
| 1977 ... | 64.2 | 58.5 | 47.1 | 48.2 | 47.2 | 50.3 | 46.2 | 47.2 | 47.2 | ......... | 47.5 | 6.4 | 6.8 |  |
| 1978 | 68.2 | 62.7 | 50.3 | 51.5 | 50.8 | 52.8 | 49.3 | 50.7 | 50.7 | .......... | 51.0 | 7.3 | 7.4 |  |
| 1979 ..... | 76.5 | 73.4 | 54.8 | 56.1 | 55.8 | 56.6 | 53.7 | 55.1 | 55.3 | .......... | 55.3 | 8.5 | 9.0 |  |
| 1980 | 84.2 | 91.4 | 60.9 | 62.2 | 62.0 | 62.3 | 59.7 | 60.1 | 61.1 | .......... | 60.4 | 9.3 | 10.7 |  |
| 1981 ... | 90.3 | 96.4 | 66.8 | 68.3 | 68.2 | 68.3 | 65.6 | 65.8 | 66.8 |  | 66.1 | 9.4 | 9.2 |  |
| 1982 ... | 90.8 | 93.1 | 71.3 | 72.9 | 73.0 | 72.6 | 69.9 | 70.0 | 70.7 | 69.0 | 70.2 | 6.3 | 5.9 |  |
| 1983 | 91.3 | 89.6 | 74.5 | 76.1 | 76.2 | 75.4 | 73.2 | 73.0 | 73.3 | 72.0 | 73.2 | 4.2 | 3.8 | 4.3 |
| 1984 ... | 92.3 | 88.9 | 78.2 | 80.4 | 81.2 | 77.5 | 76.4 | 75.8 | 75.9 | 74.6 | 76.0 | 3.8 | 3.5 | 3.7 |
| 1985 | 89.8 | 86.0 | 81.0 | 82.7 | 83.5 | 80.2 | 79.5 | 78.4 | 78.4 | 77.3 | 78.6 | 3.4 | 3.2 | 3.5 |
| 1986 | 88.5 | 86.0 | 82.7 | 84.0 | 84.5 | 82.2 | 81.6 | 80.5 | 80.4 | 80.1 | 80.6 | 2.6 | 2.6 | 3.6 |
| 1987 ... | 91.0 | 91.0 | 85.2 | 85.3 | 85.6 | 84.0 | 85.0 | 83.0 | 83.1 | 82.9 | 83.1 | 3.1 | 3.4 | 3.5 |
| 1988 ... | 96.0 | 95.3 | 87.4 | 87.2 | 87.3 | 86.7 | 87.5 | 86.1 | 86.1 | 86.1 | 86.1 | 3.7 | 3.6 | 3.9 |
| 1989 ...... | 97.9 | 97.8 | 90.2 | 89.8 | 89.8 | 89.7 | 90.5 | 89.7 | 89.8 | 89.6 | 89.8 | 4.2 | 4.2 | 4.0 |
| 1990 ... | 98.7 | 100.4 | 94.1 | 92.9 | 92.9 | 92.8 | 94.9 | 93.6 | 93.8 | 93.3 | 93.7 | 4.4 | 4.5 | 4.2 |
| 1991 ... | 100.3 | 100.0 | 97.4 | 96.9 | 96.5 | 97.9 | 97.9 | 97.3 | 97.3 | 97.0 | 97.3 | 3.9 | 3.7 | 3.9 |
| 1992 ... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 2.8 | 2.8 | 3.1 |
| 1993 ... | 99.9 | 98.6 | 102.3 | 102.6 | 102.1 | 104.0 | 102.1 | 102.6 | 102.5 | 102.6 | 102.6 | 2.6 | 2.5 | 2.6 |
| 1994 ........ | 101.0 | 99.4 | 104.3 | 105.4 | 104.5 | 107.7 | 103.6 | 105.0 | 104.8 | 105.0 | 104.9 | 2.3 | 2.2 | 2.4 |
| 1990: I ...... | 97.5 | 98.8 | 92.5 | 91.4 | 91.5 | 91.2 | 93.3 | 92.0 | 92.2 | 91.8 | 92.1 | 4.9 | 5.4 | 4.4 |
| II ..... | 97.9 | 97.1 | 93.3 | 92.1 | 92.1 | 92.3 | 94.2 | 93.2 | 93.1 | 92.9 | 93.2 | 5.2 | 4.2 | 4.9 |
| III .... | 98.9 | 100.0 | 94.4 | 93.1 | 93.1 | 93.0 | 95.3 | 94.2 | 94.3 | 93.9 | 94.2 | 4.3 | 5.2 | 4.3 |
| IV .... | 100.6 | 105.6 | 96.1 | 95.0 | 95.0 | 94.9 | 96.8 | 95.1 | 95.7 | 94.9 | 95.2 | 4.1 | 5.9 | 4.3 |
| 1991:I ...... | 100.9 | 102.2 | 96.6 | 95.9 | 95.4 | 97.5 | 97.1 | 96.2 | 96.4 | 95.9 | 96.3 | 4.8 | 3.1 | 4.4 |
| II..... | 100.5 | 99.7 | 97.2 | 96.6 | 96.1 | 97.9 | 97.6 | 97.0 | 97.0 | 96.6 | 97.0 | 3.2 | 2.2 | 3.0 |
| III .... | 99.8 | 98.5 | 97.7 | 97.1 | 96.7 | 98.3 | 98.2 | 97.7 | 97.6 | 97.4 | 97.7 | 2.8 | 2.6 | 3.2 |
| IV .... | 100.1 | 99.6 | 98.3 | 97.8 | 97.7 | 98.2 | 98.6 | 98.3 | 98.3 | 98.1 | 98.3 | 2.5 | 2.9 | 3.1 |
| 1992:I ...... | 99.9 | 99.0 | 99.2 | 99.4 | 99.6 | 98.8 | 99.0 | 99.1 | 99.0 | 99.0 | 99.1 | 3.4 | 3.2 | 3.8 |
| II ..... | 100.1 | 99.6 | 99.9 | 100.0 | 100.2 | 99.5 | 99.9 | 99.8 | 99.8 | 99.8 | 99.8 | 2.8 | 2.9 | 2.9 |
| III .... | 100.1 | 101.0 | 100.3 | 100.4 | 100.6 | 100.1 | 100.2 | 100.2 | 100.3 | 100.3 | 100.2 | 1.5 | 2.1 | 2.0 |
| IV .... | 100.0 | 100.4 | 100.6 | 100.2 | 99.6 | 101.6 | 100.9 | 100.9 | 100.9 | 100.9 | 100.9 | 2.8 | 2.6 | 2.8 |
| 1993: I ...... | 99.9 | 98.8 | 101.7 | 101.8 | 101.1 | 103.4 | 101.7 | 101.8 | 101.7 | 101.8 | 101.8 | 3.8 | 3.1 | 3.5 |
| II..... | 100.1 | 99.4 | 102.1 | 102.0 | 101.6 | 103.1 | 102.2 | 102.4 | 102.3 | 102.4 | 102.4 | 2.2 | 2.4 | 2.4 |
| III .... | 99.9 | 98.3 | 102.6 | 103.0 | 102.7 | 103.8 | 102.3 | 102.8 | 102.6 | 102.9 | 102.8 | 1.8 | 1.3 | 1.8 |
| IV .... | 99.7 | 98.0 | 102.9 | 103.7 | 102.9 | 105.6 | 102.4 | 103.4 | 103.2 | 103.4 | 103.4 | 2.3 | 2.2 | 2. |
| 1994:I ...... | 100.1 | 97.4 | 103.5 | 104.4 | 103.5 | 106.3 | 102.9 | 104.2 | 103.8 | 104.1 | 104.1 | 2.8 | 2.3 | 2.7 |
| $11 . . .$. | 100.6 | 98.7 | 104.1 | 105.4 | 104.1 | 108.3 | 103.2 | 104.6 | 104.4 | 104.7 | 104.6 | 1.9 | 2.3 | 2.5 |
| III .... | 101.3 | 100.6 | 104.5 | 105.5 | 104.7 | 107.4 | 103.8 | 105.3 | 105.1 | 105.4 | 105.2 | 2.4 | 3.0 | 2.5 |
| IV .... | 101.8 | 100.9 | 105.3 | 106.5 | 105.6 | 108.7 | 104.5 | 105.8 | 105.7 | 106.0 | 105.8 | 2.2 | 2.1 | 2.2 |
| 1995: I ...... | 103.2 | 101.4 | 106.6 | 108.2 | 107.1 | 110.7 | 105.6 | 106.7 | 106.5 | 106.8 | 106.7 | 3.3 | 2.9 | 3.1 |
| II..... | 104.6 | 103.6 | 107.5 | 109.0 | 108.2 | 110.9 | 106.5 | 107.3 | 107.2 | 107.5 | 107.3 | 2.5 | 2.9 | 2.8 |
| III .... | 104.8 | 103.0 | 108.1 | 109.5 | 108.5 | 111.8 | 107.1 | 108.0 | 107.8 | 108.2 | 108.0 | 2.4 | 2.0 | 2.4 |

[^7]Table B-4.-Quantity and price indexes for gross domestic product, and peceent changes, 1959-95
[Quarterly data are seasonally adjusted]

| Year or quarter | Gross domestic product |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Index numbers, 1992=100 |  |  |  | Percent change from preceding period ${ }^{1}$ |  |  |  |
|  | Current dollars | Chain-type quantity index | Chain-type price index | Implicit price deflator | Current dollars | Chain-type quantity index | Chain-type price index | Implicit price deflator |
| 1959 ...................................... | 8.1 | 35.4 | 23.0 | 22.9 | ............. | ................. | ................ | ................. |
| 1960 | 8.4 | 36.2 | 23.3 | 23.3 | 3.8 | 2.2 | 1.4 | 1.5 |
| 1961 | 8.7 | 37.0 | 23.6 | 23.6 | 3.5 | 2.1 | 1.2 | 1.3 |
| 1962 | 9.4 | 39.2 | 23.9 | 23.9 | 7.4 | 6.0 | 1.3 | 1.3 |
| 1963 ..................................... | 9.9 | 40.9 | 24.2 | 24.2 | 5.5 | 4.3 | 1.2 | 1.2 |
| 1964 ..................................... | 10.6 | 43.3 | 24.6 | 24.5 | 7.4 | 5.8 | 1.5 | 1.5 |
| 1965 | 11.5 | 46.0 | 25.0 | 25.0 | 8.5 | 6.4 | 1.9 | 2.0 |
| 1966 ...................................... | 12.6 | 49.0 | 25.7 | 25.7 | 9.5 | 6.4 | 2.8 | 2.9 |
| 1967 ................................................................ | 13.3 | 50.3 | 26.6 | 26.5 | 5.8 | 2.6 | 3.2 | 3.1 |
| 1968 .................................... | 14.6 | 52.7 | 27.7 | 27.7 | 9.2 | 4.7 | 4.4 | 4.3 |
| 1969 ..................................... | 15.7 | 54.3 | 29.0 | 29.0 | 7.9 | 3.0 | 4.7 | 4.7 |
| 1970 ..................................... | 16.6 | 54.3 | 30.6 | 30.6 | 5.4 | . 0 | 5.3 | 5.4 |
| 1971 ............................... | 18.0 | 56.1 | 32.1 | 32.2 | 8.7 | 3.3 | 5.2 | 5.2 |
| 1972 | 19.8 | 59.1 | 33.5 | 33.5 | 9.9 | 5.4 | 4.2 | 4.3 |
| 1973 | 22.1 | 62.5 | 35.4 | 35.4 | 11.7 | 5.7 | 5.6 | 5.7 |
| 1974 ..................................... | 24.0 | 62.3 | 38.5 | 38.5 | 8.3 | -. 4 | 8.9 | 8.7 |
| 1975 ..................................... | 26.1 | 61.9 | 42.2 | 42.2 | 8.9 | -. 6 | 9.4 | 9.6 |
| 1976 .................................... | 29.1 | 65.4 | 44.6 | 44.6 | 11.5 | 5.6 | 5.8 | 5.6 |
| 1977 ................................... | 32.5 | 68.5 | 47.5 | 47.4 | 11.4 | 4.9 | 6.4 | 6.3 |
| 1978 ..................................... | 36.7 | 72.0 | 50.9 | 51.0 | 13.0 | 5.0 | 7.3 | 7.7 |
| 1979 ....................................... | 41.0 | 74.1 | 55.3 | 55.3 | 11.6 | 2.9 | 8.5 | 8.5 |
| 1980 | 44.6 | 73.9 | 60.4 | 60.4 | 8.9 | -. 3 | 9.3 | 9.2 |
| 1981 .......................................................... | 49.9 | 75.7 | 66.1 | 65.9 | 11.9 | 2.5 | 9.4 | 9.2 |
| 1982 ................................... | 51.9 | 74.0 | 70.2 | 70.1 | 4.1 | -2.1 | 6.3 | 6.3 |
| 1983 ...................................... | 56.3 | 77.0 | 73.2 | 73.1 | 8.4 | 4.0 | 4.2 | 4.2 |
| 1984 ..................................... | 62.5 | 82.3 | 75.9 | 75.9 | 11.0 | 6.8 | 3.8 | 3.9 |
| 1985 | 67.0 | 85.3 | 78.6 | 78.4 | 7.1 | 3.7 | 3.4 | 3.3 |
| 1986 | 70.8 | 87.9 | 80.6 | 80.6 | 5.8 | 3.0 | 2.6 | 2.7 |
| 1987 ... | 75.1 | 90.5 | 83.1 | 83.1 | 6.1 | 2.9 | 3.1 | 3.1 |
| 1988 ...................................... | 80.9 | 93.9 | 86.1 | 86.1 | 7.6 | 3.8 | 3.7 | 3.7 |
| 1989 ...................................... | 87.1 | 97.1 | 89.7 | 89.7 | 7.7 | 3.4 | 4.2 | 4.2 |
| 1990 | 92.0 | 98.3 | 93.6 | 93.6 | 5.6 | 1.3 | 4.4 | 4.3 |
| 1991 ................................ | 94.8 | 97.3 | 97.3 | 97.3 | 3.0 | -1.0 | 3.9 | 4.0 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 5.5 | 2.7 | 2.8 | 2.7 |
| 1993 | 104.9 | 102.2 | 102.6 | 102.6 | 4.9 | 2.2 | 2.6 | 2.6 |
| 1994 ................................... | 111.0 | 105.8 | 105.0 | 105.0 | 5.8 | 3.5 | 2.3 | 2.3 |
| 1990:I ............................ | 90.6 | 98.6 | 92.0 | 92.0 | 9.1 | 4.1 | 4.9 | 4.9 |
| II .................................. | 92.1 | 98.9 | 93.2 | 93.1 | 6.6 | 1.3 | 5.2 | 5.2 |
| III .................................. | 92.6 | 98.4 | 94.2 | 94.1 | 2.2 | -1.9 | 4.3 | 4.2 |
| IV ................................. | 92.6 | 97.4 | 95.1 | 95.1 | -. 1 | -4.1 | 4.1 | 4.2 |
| 1991:I .................................... | 93.2 | 96.9 | 96.3 | 96.3 | 2.8 | -2.2 | 4.8 | 5.1 |
| II .......................................................... | 94.4 | 97.3 | 97.0 | 97.0 | 4.9 | 1.7 | 3.2 | 3.1 |
| III .................................. | 95.3 | 97.5 | 97.7 | 97.7 | 4.0 | 1.0 | 2.8 | 2.9 |
| IV .................................. | 96.1 | 97.8 | 98.3 | 98.3 | 3.6 | 1.0 | 2.5 | 2.5 |
| 1992:I ................................... | 98.0 | 98.9 | 99.1 | 99.1 | 8.2 | 4.7 | 3.4 | 3.3 |
| II ................................ | 99.3 | 99.5 | 99.8 | 99.8 | 5.3 | 2.5 | 2.8 | 2.7 |
| III ................................... | 100.4 | 100.3 | 100.2 | 100.2 | 4.6 | 3.0 | 1.5 | 1.5 |
| IV ................................. | 102.2 | 101.3 | 100.9 | 100.9 | 7.3 | 4.3 | 2.8 | 2.9 |
|  | 103.2 | 101.3 | 101.8 | 101.8 | 3.8 | . 0 | 3.8 | 3.8 |
| II ............................................................. | 104.1 | 101.7 | 102.4 | 102.4 | 3.8 | 1.7 | 2.2 | 2.1 |
| III ................................. | 105.2 | 102.3 | 102.8 | 102.8 | 4.3 | 2.3 | 1.8 | 1.9 |
| IV .................................. | 107.0 | 103.5 | 103.4 | 103.4 | 7.0 | 4.7 | 2.3 | 2.2 |
| 1994:I .................................... | 108.5 | 104.2 | 104.1 | 104.1 | 5.4 | 2.5 | 2.8 | 2.8 |
| II .............................................................. | 110.3 | 105.4 | 104.6 | 104.6 | 6.8 | 4.8 | 1.9 | 1.9 |
| III ................................... | 111.9 | 106.3 | 105.2 | 105.2 | 6.1 | 3.6 | 2.4 | 2.4 |
| IV ................................. | 113.4 | 107.2 | 105.8 | 105.8 | 5.4 | 3.2 | 2.2 | 2.2 |
| 1995: I ................................... | 114.5 | 107.3 | 106.7 | 106.7 | 3.9 | . 6 | 3.3 | 3.2 |
| II ..................................... | 115.2 | 107.4 | 107.3 | 107.3 | 2.8 | . 5 | 2.5 | 2.3 |
| III .................................. | 116.9 | 108.3 | 108.0 | 107.9 | 5.7 | 3.2 | 2.4 | 2.4 |

[^8]Source: Department of Commerce, Bureau of Economic Analysis.

Table B-5.-Percent changes in real gross domestic product, 1960-95
[Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross do-mestic product | Personal consumption expenditures |  |  |  | Gross private domestic investment |  |  |  | Exports and imports of goods and services |  | Government consumption expenditures and gross investment |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Durable goods | Non-durable goods | $\begin{aligned} & \text { Serv- } \\ & \text { ices } \end{aligned}$ | Nonresidential fixed |  |  | Residential | Exports | $\begin{aligned} & \text { Im- } \\ & \text { ports } \end{aligned}$ | Total | Federal | State and local |
|  |  |  |  |  |  | Total | Structures | Producers' durable equipment |  |  |  |  |  |  |
| 1960 | 2.2 | 2.7 | 2.0 | 1.5 | 4.4 | 5.6 | 7.9 | 4.1 | -7.1 | 20.8 | 1.3 | -0.2 | -3.1 | 4.1 |
| 1961 | 2.1 | 2.0 | -3.8 | 1.8 | 4.1 | -. 9 | 1.4 | -2.4 | . 3 | 1.7 | -. 7 | 4.9 | 3.9 | 6.2 |
| 1962 | 6.0 | 4.9 | 11.7 | 3.1 | 4.9 | 8.7 | 4.5 | 11.6 | 9.6 | 5.4 | 11.3 | 6.0 | 8.3 | 2.9 |
| 1963 | 4.3 | 4.1 | 9.7 | 2.1 | 4.5 | 5.0 | 1.1 | 7.6 | 11.8 | 7.5 | 2.7 | 2.3 | -. 4 | 6.0 |
| 1964 ..... | 5.8 | 6.0 | 9.2 | 4.9 | 6.1 | 11.8 | 10.4 | 12.6 | 5.8 | 13.3 | 5.3 | 2.0 | -1.7 | 6.8 |
| 1965 | 6.4 | 6.3 | 12.7 | 5.3 | 5.3 | 17.3 | 15.9 | 18.2 | -2.9 | 2.0 | 10.6 | 3.0 | . 0 | 6.7 |
| 1966 | 6.4 | 5.7 | 8.5 | 5.5 | 5.1 | 12.1 | 6.8 | 15.5 | -8.9 | 6.7 | 14.9 | 9.1 | 11.4 | 6.4 |
| 1967 | 2.6 | 3.0 | 1.6 | 1.6 | 4.8 | -1.6 | -2.5 | -1.0 | -3.1 | 2.2 | 7.3 | 7.6 | 9.9 | 4.9 |
| 1968 | 4.7 | 5.7 | 11.0 | 4.5 | 5.2 | 4.3 | 1.4 | 6.1 | 13.6 | 7.3 | 14.9 | 3.1 | 1.0 | 5.7 |
| 1969 | 3.0 | 3.7 | 3.6 | 2.7 | 4.8 | 7.2 | 5.4 | 8.3 | 3.0 | 5.5 | 5.7 | -. 6 | -3.4 | 2.8 |
| 1970 | . 0 | 2.3 | -3.2 | 2.4 | 4.0 | -1.0 | . 3 | -1.8 | -6.0 | 10.8 | 4.3 | -2.3 | -7.1 | 2.8 |
| 1971 | 3.3 | 3.7 | 10.0 | 1.8 | 3.7 | -. 1 | -1.6 | . 8 | 27.4 | . 7 | 5.3 | -1.8 | -7.1 | 3.3 |
| 1972 | 5.4 | 6.0 | 12.7 | 4.4 | 5.4 | 9.0 | 3.1 | 12.7 | 17.8 | 8.1 | 11.0 | . 4 | -1.7 | 2.2 |
| 1973 | 5.7 | 4.8 | 10.3 | 3.3 | 4.5 | 14.6 | 8.2 | 18.5 | -.6 | 21.8 | 4.5 | -. 7 | -4.9 | 3.0 |
| 1974 | -. 4 | -. 7 | -6.9 | -2.0 | 2.4 | . 5 | -2.1 | 2.1 | -20.6 | 9.6 | -2.7 | 1.7 | -. 6 | 3.6 |
| 1975 | -. 6 | 2.2 | . 0 | 1.5 | 3.5 | -10.5 | -10.5 | -10.5 | -13.0 | -. 7 | -11.3 | 1.5 | -. 2 | 2.9 |
| 1976 | 5.6 | 5.6 | 12.8 | 5.0 | 4.2 | 4.8 | 2.5 | 6.1 | 23.6 | 5.9 | 19.6 | . 1 | -1.0 | . 8 |
| 1977 | 4.9 | 4.3 | 9.3 | 2.6 | 4.2 | 11.8 | 4.9 | 15.6 | 21.2 | 2.4 | 10.7 | . 9 | 1.6 | . 4 |
| 1978 | 5.0 | 4.3 | 5.3 | 3.5 | 4.7 | 13.7 | 10.9 | 15.1 | 6.6 | 10.4 | 8.7 | 2.9 | 2.1 | 3.6 |
| 1979 | 2.9 | 2.3 | -. 5 | 2.3 | 3.2 | 9.6 | 12.6 | 8.1 | -3.7 | 9.5 | 1.7 | 1.6 | 1.5 | 1.6 |
| 1980 | -. 3 | -. 3 | -8.0 | -. 4 | 1.9 | -. 5 | 6.7 | -4.4 | -21.1 | 10.8 | -6.7 | 1.8 | 4.2 | . 0 |
| 1981 | 2.5 | 1.2 | 1.2 | . 9 | 1.5 | 5.3 | 7.9 | 3.7 | -8.0 | 1.2 | 2.6 | . 7 | 4.2 | -2.0 |
| 1982 | -2.1 | 1.2 | -. 1 | . 6 | 1.9 | -4.4 | -1.5 | -6.4 | -18.2 | -7.1 | -1.3 | 1.3 | 3.2 | -. 3 |
| 1983 | 4.0 | 5.2 | 14.7 | 2.9 | 4.7 | -1.7 | -10.4 | 4.6 | 41.1 | -2.6 | 12.6 | 2.8 | 5.4 | . 7 |
| 1984 .... | 6.8 | 5.2 | 14.5 | 3.5 | 4.1 | 17.3 | 14.3 | 19.2 | 14.6 | 8.3 | 24.3 | 3.1 | 2.4 | 3.8 |
| 1985 | 3.7 | 4.7 | 9.7 | 2.3 | 5.0 | 6.2 | 7.3 | 5.5 | 1.4 | 2.7 | 6.5 | 6.1 | 6.9 | 5.3 |
| 1986 | 3.0 | 4.0 | 9.0 | 3.2 | 3.2 | -3.5 | -10.8 | 1.0 | 12.0 | 7.4 | 8.4 | 5.1 | 4.6 | 5.5 |
| 1987 | 2.9 | 3.1 | 1.5 | 1.9 | 4.2 | -1.1 | -3.6 | . 3 | . 2 | 11.0 | 6.1 | 2.7 | 3.1 | 2.4 |
| 1988 | 3.8 | 3.9 | 6.3 | 2.8 | 4.0 | 4.4 | . 5 | 6.4 | -2.0 | 15.9 | 3.9 | 1.3 | -1.8 | 3.9 |
| 1989 | 3.4 | 2.3 | 2.6 | 2.3 | 2.3 | 4.0 | 2.2 | 5.0 | -3.7 | 11.7 | 3.9 | 2.8 | 1.3 | 4.0 |
| 1990 | 1.3 | 1.7 | -. 6 | 1.0 | 2.6 | -. 6 | 1.1 | -1.5 | -9.3 | 8.5 | 3.9 | 3.0 | 2.0 | 3.8 |
| 1991 | -1.0 | -. 6 | -6.4 | -1.0 | . 8 | -6.4 | -10.7 | -4.1 | -12.3 | 6.3 | -7 7 | . 6 | -. 5 | 1.4 |
| 1992 | 2.7 | 2.8 | 5.8 | 1.5 | 2.9 | 1.9 | -6.8 | 6.2 | 16.6 | 6.6 | 7.5 | . 5 | -2.1 | 2.4 |
| 1993 | 2.2 | 2.8 | 7.3 | 2.0 | 2.4 | 6.4 | -1.7 | 10.0 | 7.6 | 3.3 | 9.9 | -. 3 | -3.7 | 2.2 |
| 1994 | 3.5 | 3.0 | 7.2 | 3.1 | 2.1 | 9.8 | 1.5 | 13.2 | 10.8 | 8.3 | 12.0 | . 0 | -3.7 | 2.5 |
| 1990: 1 | 4.1 | 3.4 | 16.3 | 1.3 | 1.7 | 4.5 | 6.8 | 3.3 | 5.9 | 15.5 | 5.9 | 6.0 | 6.1 | 6.0 |
| II ............... | 1.3 | . 6 | -11.8 | -. 7 | 4.5 | -7.8 | -1.9 | -10.8 | -18.0 | 8.6 | 7.4 | . 5 | . 1 | . 9 |
| III ............. | -1.9 | 1.3 | -4.0 | . 9 | 2.8 | 3.3 | -. 7 | 5.5 | -20.8 | -3.5 | -. 3 | -. 4 | -3.5 | 1.9 |
| IV .............. | -4.1 | -3.1 | -11.0 | -3.4 | -1.0 | -9.3 | -16.6 | -5.2 | -24.5 | 8.9 | -10.1 | 4.3 | 4.0 | 4.5 |
| 1991: \| ... | -2.2 | -3.1 | -14.1 | -2.4 | -1.0 | -12.5 | -7.7 | -14.9 | -23.4 | -1.1 | -12.2 | . 9 | 2.8 | -. 6 |
| II ............... | 1.7 | 2.5 | 1.7 | 2.3 | 2.8 | -3.0 | -10.0 | . 9 | 2.0 | 21.0 | 14.7 | . 4 | -. 1 | . 7 |
| III ............. | 1.0 | . 9 | 6.1 | -. 3 | . 6 | -4.0 | -22.7 | 6.8 | 16.4 | 2.3 | 10.8 | -2.7 | -7.7 | 1.2 |
| IV ............. | 1.0 | -1.0 | -4.9 | -3.4 | 1.2 | -4.1 | -8.9 | -1.8 | 14.7 | 13.8 | 5.1 | -1.4 | -6.8 | 2.8 |
| 1992:I ................ | 4.7 | 6.4 | 13.3 | 5.9 | 5.4 | 3.6 | 2.9 | 3.9 | 24.7 | 6.3 | 4.1 | 2.5 | -1.4 | 5.4 |
| II ............... | 2.5 | 2.2 | 4.3 | -. 7 | 3.4 | 10.0 | -3.9 | 16.9 | 22.2 | 1.8 | 13.3 | -. 3 | -1.4 | . 4 |
| III ............. | 3.0 | 2.9 | 9.3 | 2.8 | 1.7 | 2.2 | -8.1 | 7.1 | 3.3 | 2.5 | 1.3 | 2.9 | 4.9 | 1.4 |
| IV ............. | 4.3 | 5.4 | 11.0 | 5.8 | 4.0 | 6.2 | -4.3 | 11.0 | 18.7 | 6.0 | 11.6 | 1.9 | 3.4 | . 9 |
| 1993: I ............... | . 0 | . 7 | . 8 | -. 9 | 1.6 | 6.0 | 3.5 | 7.1 | 2.1 | . 4 | 9.6 | -4.7 | -13.1 | 1.7 |
| II ............... | 1.7 | 2.7 | 11.2 | 2.3 | 1.3 | 6.3 | -5.3 | 11.4 | -5.1 | 7.9 | 14.5 | . 2 | -4.9 | 3.9 |
| III .............. | 2.3 | 3.8 | 7.3 | 2.9 | 3.6 | 4.7 | . 8 | 6.3 | 13.2 | -7.9 | 4.9 | 1.0 | -2.9 | 3.8 |
| IV .............. | 4.7 | 2.8 | 10.2 | 1.7 | 1.9 | 17.5 | 7.5 | 21.7 | 24.3 | 21.5 | 17.0 | 1.5 | -. 7 | 3.0 |
| 1994:I ................ | 2.5 | 2.6 | 5.8 | 3.8 | 1.4 | 7.3 | -11.8 | 15.6 | 12.8 | -. 6 | 7.5 | -4.2 | -11.1 | . 7 |
| II ............... | 4.8 | 3.6 | 4.3 | 3.3 | 3.6 | 7.1 | 15.7 | 4.1 | 12.7 | 14.8 | 19.1 | -. 8 | -5.3 | 2.2 |
| III ............... | 3.6 | 2.5 | 5.6 | 4.0 | 1.2 | 13.7 | . 2 | 19.3 | -1.8 | 12.2 | 11.0 | 7.0 | 11.5 | 4.2 |
| IV .............. | 3.2 | 3.3 | 12.6 | 3.2 | 1.4 | 12.2 | 13.0 | 11.9 | -. 1 | 15.3 | 9.3 | -1.4 | -5.9 | 1.6 |
| 1995: I ................ | . 6 | . 8 | -8.7 | 2.4 | 2.1 | 15.3 | 9.9 | 17.4 | -6.3 | 2.6 | 8.7 | -1.1 | -6.3 | 2.3 |
| II ............... | . 5 | 3.4 | 7.0 | 1.9 | 3.4 | 3.6 | 3.4 | 3.7 | -13.3 | 4.6 | 7.7 | . 9 | -1.1 | 2.1 |
| III .............. | 3.2 | 2.9 | 9.5 | . 5 | 2.7 | 5.3 | 5.6 | 5.2 | 8.4 | 8.3 | 1.2 | -. 4 | -5.5 | 2.8 |

[^9]Table B-6.—Gross domestic product by major type of product, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross domestic product | Final sales of domestic product | Change <br> in <br> busi- <br> ness <br> inven- <br> tories | Goods ${ }^{1}$ |  |  |  |  |  |  | Services ${ }^{1}$ | Structures |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total |  |  | Durable goods |  | Nondurable goods |  |  |  |
|  |  |  |  | Total | Final sales | Change in busi- ness inven- tories | Final sales | Change <br> in <br> busi- <br> ness <br> inven- <br> tories | Final sales | Change <br> in <br> busi- <br> ness <br> inven- <br> tories |  |  |
| 1959 | 507.2 | 503.0 | 4.2 | 252.0 | 247.8 | 4.2 | 92.3 | 3.1 | 155.5 | 1.1 | 192.7 | 62.5 |
| 1960 | 526.6 | 523.3 | 3.2 | 257.8 | 254.6 | 3.2 | 95.1 | 1.7 | 159.5 | 1.6 | 206.8 | 61.9 |
| 1961 | 544.8 | 541.9 | 2.9 | 260.4 | 257.5 | 2.9 | 94.3 | -. 1 | 163.2 | 3.0 | 220.8 | 63.6 |
| 1962 | 585.2 | 579.1 | 6.1 | 281.2 | 275.1 | 6.1 | 104.5 | 3.4 | 170.7 | 2.7 | 236.1 | 67.8 |
| 1963 | 617.4 | 611.7 | 5.7 | 292.7 | 287.1 | 5.7 | 111.0 | 2.7 | 176.1 | 3.0 | 252.0 | 72.7 |
| 1964 | 663.0 | 658.0 | 5.0 | 313.2 | 308.1 | 5.0 | 120.5 | 4.0 | 187.6 | 1.0 | 271.4 | 78.4 |
| 1965 | 719.1 | 709.4 | 9.7 | 342.9 | 333.3 | 9.7 | 133.3 | 6.7 | 199.9 | 3.0 | 291.5 | 84.7 |
| 1966 | 787.8 | 774.0 | 13.8 | 380.6 | 366.8 | 13.8 | 149.0 | 10.2 | 217.8 | 3.6 | 319.2 | 88.0 |
| 1967 | 833.6 | 823.1 | 10.5 | 394.5 | 384.0 | 10.5 | 153.8 | 5.5 | 230.2 | 5.0 | 349.5 | 89.6 |
| 1968 | 910.6 | 901.4 | 9.1 | 426.7 | 417.6 | 9.1 | 167.8 | 4.6 | 249.8 | 4.5 | 383.9 | 100.0 |
| 1969 | 982.2 | 972.7 | 9.5 | 455.8 | 446.2 | 9.5 | 178.6 | 6.3 | 267.6 | 3.2 | 418.2 | 108.3 |
| 1970 | 1,035.6 | 1,033.4 | 2.2 | 467.5 | 465.3 | 2.2 | 180.2 | . 0 | 285.1 | 2.2 | 458.5 | 109.7 |
| 1971 | 1,125.4 | 1,116.9 | 8.5 | 493.2 | 484.7 | 8.5 | 187.0 | 3.2 | 297.7 | 5.3 | 503.8 | 128.4 |
| 1972 | 1,237.3 | 1,227.4 | 9.9 | 539.8 | 529.9 | 9.9 | 209.3 | 7.2 | 320.6 | 2.7 | 550.5 | 146.9 |
| 1973 | 1,382.6 | 1,365.2 | 17.5 | 619.2 | 601.8 | 17.5 | 241.4 | 14.6 | 360.3 | 2.9 | 600.5 | 162.9 |
| 1974 | 1,496.9 | 1,482.8 | 14.1 | 665.7 | 651.6 | 14.1 | 256.7 | 11.0 | 394.9 | 3.1 | 665.6 | 165.6 |
| 1975 | 1,630.6 | 1,636.9 | -6.3 | 718.1 | 724.5 | -6.3 | 288.1 | -7.5 | 436.4 | 1.2 | 745.8 | 166.7 |
| 1976 | 1,819.0 | 1,802.0 | 16.9 | 804.0 | 787.1 | 16.9 | 322.5 | 10.6 | 464.6 | 6.3 | 823.8 | 191.2 |
| 1977 | 2,026.9 | 2,003.8 | 23.1 | 883.7 | 860.6 | 23.1 | 366.9 | 10.2 | 493.7 | 12.8 | 916.4 | 226.8 |
| 1978 | 2,291.4 | 2,264.2 | 27.2 | 996.5 | 969.3 | 27.2 | 416.9 | 20.3 | 552.5 | 6.9 | 1,023.1 | 271.8 |
| 1979 | 2,557.5 | 2,540.6 | 16.9 | 1,115.2 | 1,098.3 | 16.9 | 475.0 | 12.5 | 623.3 | 4.3 | 1,131.7 | 310.6 |
| 1980 | 2,784.2 | 2,791.9 | -7.6 | 1,191.1 | 1,198.7 | -7.6 | 502.9 | -2.7 | 695.8 | -4.9 | 1,274.1 | 319.1 |
| 1981 | 3,115.9 | 3,087.8 | 28.2 | 1,342.6 | 1,314.5 | 28.2 | 546.0 | 7.5 | 768.4 | 20.6 | 1,423.3 | 350.0 |
| 1982 | 3,242.1 | 3,256.6 | -14.5 | 1,333.2 | 1,347.7 | -14.5 | 544.4 | -15.5 | 803.3 | 1.0 | 1,566.9 | 342.0 |
| 1983 | 3,514.5 | 3,519.4 | -4.9 | 1,426.9 | 1,431.8 | -4.9 | 586.1 | 4.0 | 845.7 | -8.9 | 1,720.9 | 366.8 |
| 1984 | 3,902.4 | 3,835.0 | 67.5 | 1,607.0 | 1,539.6 | 67.5 | 655.1 | 43.6 | 884.5 | 23.9 | 1,871.8 | 423.6 |
| 1985 | 4,180.7 | 4,154.5 | 26.2 | 1,669.8 | 1,643.6 | 26.2 | 713.2 | 8.6 | 930.4 | 17.6 | 2,054.6 | 456.3 |
| 1986 | 4,422.2 | 4,412.6 | 9.6 | 1,720.6 | 1,711.0 | 9.6 | 741.3 | . 6 | 969.7 | 9.0 | 2,224.2 | 477.4 |
| 1987 | 4,692.3 | 4,668.1 | 24.2 | 1,804.8 | 1,780.6 | 24.2 | 764.7 | 21.5 | 1,015.9 | 2.8 | 2,398.1 | 489.3 |
| 1988 | 5,049.6 | 5,038.7 | 10.9 | 1,942.9 | 1,932.0 | 10.9 | 837.0 | 16.4 | 1,095.0 | -5.5 | 2,600.0 | 506.7 |
| 1989 | 5,438.7 | 5,407.0 | 31.7 | 2,124.0 | 2,092.3 | 31.7 | 907.3 | 21.3 | 1,185.0 | 10.5 | 2,795.3 | 519.4 |
| 1990 | 5,743.8 | 5,735.8 | 8.0 | 2,203.8 | 2,195.8 | 8.0 | 935.7 | 2.5 | 1,260.1 | 5.6 | 3,016.9 | 523.1 |
| 1991 | 5,916.7 | 5,919.0 | -2.3 | 2,234.0 | 2,236.3 | -2.3 | 926.6 | -16.6 | 1,309.7 | 14.3 | 3,201.3 | 481.4 |
| 1992 | 6,244.4 | 6,237.4 | 7.0 | 2,321.0 | 2,314.0 | 7.0 | 965.9 | -10.9 | 1,348.1 | 17.9 | 3,411.1 | 512.3 |
| 1993 | 6,550.2 | 6,529.7 | 20.6 | 2,421.5 | 2,400.9 | 20.6 | 1,013.8 | 15.7 | 1,387.2 | 4.9 | 3,581.7 | 547.0 |
| 1994 | 6,931.4 | 6,871.8 | 59.5 | 2,593.8 | 2,534.2 | 59.5 | 1,085.9 | 31.9 | 1,448.3 | 27.6 | 3,742.3 | 595.3 |
| 1990: | 5,660.4 | 5,651.8 | 8.6 | 2,194.9 | 2,186.3 | 8.6 | 957.9 | 1.4 | 1,228.4 | 7.2 | 2,924.9 | 540.6 |
| 11 | 5,751.0 | 5,709.8 | 41.2 | 2,223.6 | 2,182.4 | 41.2 | 932.7 | 16.9 | 1,249.7 | 24.3 | 2,997.8 | 529.6 |
| III | 5,782.4 | 5,768.7 | 13.8 | 2,210.7 | 2,196.9 | 13.8 | 929.3 | 9.9 | 1,267.7 | 3.9 | 3,051.3 | 520.5 |
| IV | 5,781.5 | 5,812.9 | -31.4 | 2,186.1 | 2,217.5 | -31.4 | 922.9 | -18.4 | 1,294.6 | -13.1 | 3,093.7 | 501.7 |
| 1991:\| | 5,822.1 | 5,838.2 | -16.1 | 2,207.9 | 2,224.0 | -16.1 | 912.1 | -38.7 | 1,311.8 | 22.6 | 3,131.6 | 482.6 |
|  | 5,892.3 | 5,912.2 | -19.9 | 2,225.1 | 2,245.0 | -19.9 | 936.0 | -29.5 | 1,309.0 | 9.5 | 3,186.7 | 480.5 |
| III | 5,950.0 | 5,944.7 | 5.3 | 2,249.2 | 2,243.9 | 5.3 | 933.6 | 5.9 | 1,310.3 | -. 6 | 3,221.9 | 478.9 |
| IV | 6,002.3 | 5,980.9 | 21.4 | 2,253.8 | 2,232.4 | 21.4 | 924.8 | -4.2 | 1,307.6 | 25.5 | 3,264.9 | 483.6 |
| 1992: \| | 6,121.8 | 6,122.1 | -. 3 | 2,281.1 | 2,281.4 | -. 3 | 944.6 | -18.8 | 1,336.8 | 18.5 | 3,338.4 | 502.3 |
|  | 6,201.2 | 6,191.0 | 10.2 | 2,301.3 | 2,291.0 | 10.2 | 955.7 | 1.1 | 1,335.4 | 9.1 | 3,387.5 | 512.4 |
| III | 6,271.7 | 6,260.1 | 11.6 | 2,329.4 | 2,317.8 | 11.6 | 969.2 | -11.1 | 1,348.6 | 22.7 | 3,432.1 | 510.1 |
| IV | 6,383.0 | 6,376.6 | 6.4 | 2,372.2 | 2,365.8 | 6.4 | 994.2 | -14.9 | 1,371.6 | 21.3 | 3,486.4 | 524.4 |
| 1993: \| | 6,442.8 | 6,422.9 | 19.9 | 2,382.7 | 2,362.8 | 19.9 | 986.4 | 13.1 | 1,376.5 | 6.8 | 3,528.5 | 531.5 |
|  | 6,503.2 | 6,481.6 | 21.6 | 2,412.9 | 2,391.3 | 21.6 | 1,014.1 | 11.3 | 1,377.1 | 10.3 | 3,555.0 | 535.4 |
| III | 6,571.3 | 6,549.3 | 22.0 | 2,416.5 | 2,394.5 | 22.0 | 1,007.9 | 14.2 | 1,386.5 | 7.9 | 3,605.3 | 549.5 |
| IV | 6,683.7 | 6,664.9 | 18.8 | 2,474.0 | 2,455.1 | 18.8 | 1,046.6 | 24.3 | 1,408.5 | -5.5 | 3,638.1 | 571.6 |
| 1994: 1 | 6,772.8 | 6,732.6 | 40.2 | 2,524.4 | 2,484.2 | 40.2 | 1,062.6 | 25.1 | 1,421.6 | 15.1 | 3,673.8 | 574.7 |
| III | 6,885.0 | 6,810.5 | 74.5 | 2,572.9 | 2,498.3 | 74.5 | 1,067.9 | 35.1 | 1,430.4 | 39.5 | 3,720.3 | 591.9 |
| III | 6,987.6 | 6,922.9 | 64.7 | 2,618.2 | 2,553.5 | 64.7 | 1,099.9 | 34.2 | 1,453.6 | 30.5 | 3,769.0 | 600.5 |
| IV ........... | 7,080.0 | 7,021.3 | 58.7 | 2,659.6 | 2,600.9 | 58.7 | 1,113.3 | 33.1 | 1,487.6 | 25.6 | 3,806.3 | 614.1 |
| 1995: 1 | 7,147.8 | 7,089.7 | 58.1 | 2,675.4 | 2,617.3 | 58.1 | 1,118.6 | 54.4 | 1,498.7 | 3.7 | 3,852.6 | 619.8 |
|  | 7,196.5 | 7,162.5 | 34.0 | 2,676.3 | 2,642.3 | 34.0 | 1,134.0 | 28.5 | 1,508.3 | 5.4 | 3,904.5 | 615.7 |
| III .................. | 7,297.2 | 7,266.6 | 30.6 | 2,715.6 | 2,685.0 | 30.6 | 1,162.6 | 25.5 | 1,522.5 | 5.1 | 3,949.1 | 632.4 |

[^10]Table B-7.-Real gross domestic product by major type of product, 1959-95
[Billions of chained (1992) dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross domestic product | Final sales of domestic product | Change in business inventories | Goods ${ }^{1}$ |  |  |  |  |  |  | Services 1 | Structures |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total |  |  | Durablegoods |  | Nondurable goods |  |  |  |
|  |  |  |  | Total | Final sales | Change in business inventories | Final sales | Change <br> in ness <br> inventories | Final sales | Change in business inventories |  |  |
| 1959 | 2,212.3 | 2,206.9 | 13.5 | 786.4 | 780.9 | 13.5 | 221.1 | 9.9 | 595.6 | 3.5 | 1,115.3 | 299.4 |
| 1960 | 2,261.7 | 2,264.2 | 10.6 | 795.6 | 795.6 | 10.6 | 227.3 | 5.2 | 602.6 | 5.3 | 1,167.1 | 296.5 |
| 1961 | 2,309.8 | 2,318.0 | 8.9 | 796.0 | 799.7 | 8.9 | 224.3 | -. 1 | 612.1 | 9.3 | 1,219.9 | 304.7 |
| 1962 | 2,449.1 | 2,445.4 | 20.0 | 853.5 | 848.6 | 20.0 | 247.7 | 10.7 | 634.7 | 9.1 | 1,277.5 | 322.2 |
| 1963 | 2,554.0 | 2,552.4 | 18.1 | 882.4 | 878.8 | 18.1 | 262.0 | 8.3 | 648.2 | 9.8 | 1,336.9 | 343.9 |
| 1964 | 2,702.9 | 2,705.1 | 15.6 | 936.7 | 935.8 | 15.6 | 283.8 | 12.1 | 682.7 | 3.0 | 1,406.3 | 367.0 |
| 1965 | 2,874.8 | 2,860.4 | 30.2 | 1,013.0 | 999.9 | 30.2 | 313.9 | 20.4 | 713.4 | 9.2 | 1,472.5 | 385.4 |
| 1966 | 3,060.2 | 3,033.5 | 42.3 | 1,099.9 | 1,077.9 | 42.3 | 350.0 | 30.9 | 751.8 | 10.9 | 1,557.8 | 385.9 |
| 1967 | 3,140.2 | 3,125.1 | 32.1 | 1,114.7 | 1,101.2 | 32.1 | 359.2 | 16.3 | 765.4 | 15.6 | 1,639.4 | 380.2 |
| 1968 | 3,288.6 | 3,278.0 | 26.9 | 1,166.6 | 1,156.5 | 26.9 | 378.7 | 13.2 | 801.8 | 13.6 | 1,712.0 | 403.6 |
| 1969 | 3,388.0 | 3,377.2 | 27.2 | 1,200.3 | 1,189.9 | 27.2 | 391.2 | 17.4 | 822.6 | 9.6 | 1,774.1 | 408.8 |
| 1970 | 3,388.2 | 3,406.5 | 5.7 | 1,181.6 | 1,193.4 | 5.7 | 383.2 | -. 1 | 837.8 | 5.9 | 1,824.0 | 391.1 |
| 1971 | 3,500.1 | 3,499.8 | 22.7 | 1,209.3 | 1,206.1 | 22.7 | 385.8 | 8.0 | 848.8 | 14.8 | 1,875.8 | 427.4 |
| 1972 | 3,690.3 | 3,689.5 | 25.2 | 1,296.5 | 1,293.2 | 25.2 | 431.8 | 18.0 | 885.4 | 7.2 | 1,936.1 | 459.0 |
| 1973 | 3,902.3 | 3,883.9 | 39.0 | 1,413.2 | 1,396.0 | 39.0 | 496.6 | 34.6 | 916.7 | 6.0 | 2,004.4 | 469.0 |
| 1974 | 3,888.2 | 3,873.4 | 24.0 | 1,400.9 | 1,386.5 | 24.0 | 496.9 | 20.6 | 905.9 | 4.5 | 2,063.3 | 420.5 |
| 1975 | 3,865.1 | 3,906.4 | -11.0 | 1,373.4 | 1,404.4 | -11.0 | 495.8 | -13.9 | 926.7 | 2.3 | 2,123.5 | 382.3 |
| 1976 | 4,081.1 | 4,061.7 | 29.0 | 1,478.3 | 1,459.9 | 29.0 | 520.9 | 18.9 | 956.4 | 10.2 | 2,182.9 | 418.3 |
| 1977 | 4,279.3 | 4,240.8 | 38.0 | 1,560.0 | 1,525.7 | 38.0 | 567.0 | 17.2 | 970.8 | 20.8 | 2,250.5 | 458.7 |
| 1978 | 4,493.7 | 4,464.4 | 42.3 | 1,644.4 | 1,617.8 | 42.3 | 615.3 | 31.7 | 1,011.7 | 10.5 | 2,334.3 | 498.1 |
| 1979 | 4,624.0 | 4,614.4 | 23.1 | 1,700.6 | 1,690.7 | 23.1 | 654.6 | 18.4 | 1,042.9 | 5.1 | 2,391.3 | 511.7 |
| 1980 | 4,611.9 | 4,641.9 | -10.0 | 1,687.4 | 1,711.2 | -10.0 | 638.1 | -3.6 | 1,085.6 | -6.3 | 2,441.4 | 475.9 |
| 1981 | 4,724.9 | 4,691.6 | 33.1 | 1,765.7 | 1,735.1 | 33.1 | 638.8 | 9.1 | 1,111.0 | 23.6 | 2,475.8 | 468.8 |
| 1982 | 4,623.6 | 4,651.2 | -15.6 | 1,684.1 | 1,706.7 | -15.6 | 604.4 | -17.8 | 1,122.6 | 2.0 | 2,518.7 | 428.5 |
| 1983 | 4,810.0 | 4,821.2 | -5.9 | 1,754.8 | 1,762.6 | -5.9 | 637.6 | 4.9 | 1,142.6 | -10.4 | 2,598.4 | 460.7 |
| 1984 | 5,138.2 | 5,061.6 | 74.8 | 1,924.8 | 1,853.3 | 74.8 | 703.1 | 49.7 | 1,160.9 | 25.6 | 2,678.0 | 523.1 |
| 1985 | 5,329.5 | 5,296.9 | 29.8 | 1,971.7 | 1,940.6 | 29.8 | 758.2 | 10.0 | 1,189.0 | 19.7 | 2,797.8 | 550.3 |
| 1986 | 5,489.9 | 5,480.9 | 10.9 | 2,020.9 | 2,011.7 | 10.9 | 793.6 | . 9 | 1,223.5 | 10.2 | 2,903.2 | 558.4 |
| 1987 | 5,648.4 | 5,626.0 | 26.2 | 2,076.9 | 2,055.0 | 26.2 | 819.8 | 23.5 | 1,239.2 | 2.2 | 3,011.6 | 554.6 |
| 1988 | 5,862.9 | 5,855.1 | 11.6 | 2,178.9 | 2,171.0 | 11.6 | 897.0 | 17.6 | 1,274.8 | -6.2 | 3,128.6 | 550.8 |
| 1989 | 6,060.4 | 6,028.7 | 33.3 | 2,300.2 | 2,269.2 | 33.3 | 951.9 | 22.4 | 1,317.2 | 11.0 | 3,208.5 | 546.0 |
| 1990 | 6,138.7 | 6,126.7 | 10.4 | 2,307.1 | 2,295.4 | 10.4 | 963.9 | 2.7 | 1,331.3 | 7.6 | 3,295.4 | 533.3 |
| 1991 | 6,079.0 | 6,082.6 | -3.0 | 2,262.3 | 2,265.9 | -3.0 | 934.2 | -16.6 | 1,331.8 | 13.4 | 3,332.3 | 484.5 |
| 1992 | 6,244.4 | 6,237.4 | 7.3 | 2,321.0 | 2,314.0 | 7.3 | 965.9 | -10.9 | 1,348.1 | 18.3 | 3,411.1 | 512.3 |
| 1993 | 6,383.8 | 6,362.9 | 19.1 | 2,389.6 | 2,368.7 | 19.1 | 1,006.9 | 15.4 | 1,361.8 | 3.7 | 3,464.9 | 529.4 |
| 1994 | 6,604.2 | 6,546.3 | 58.9 | 2,524.3 | 2,465.6 | 58.9 | 1,068.0 | 30.6 | 1,398.0 | 28.2 | 3,521.7 | 559.8 |
| 1990: 1 | 6,154.1 | 6,144.6 | 11.0 | 2,328.3 | 2,318.8 | 11.0 | 991.4 | 1.9 | 1,326.5 | 9.1 | 3,264.8 | 555.9 |
| II | 6,174.4 | 6,127.5 | 43.8 | 2,335.6 | 2,289.5 | 43.8 | 963.8 | 17.3 | 1,325.5 | 26.3 | 3,293.9 | 541.4 |
| III | 6,145.2 | 6,126.6 | 14.9 | 2,304.6 | 2,286.4 | 14.9 | 955.6 | 10.2 | 1,330.8 | 4.7 | 3,310.1 | 528.2 |
| IV ... | 6,081.0 | 6,108.1 | -28.2 | 2,260.1 | 2,286.8 | -28.2 | 944.7 | -18.4 | 1,342.2 | -9.9 | 3,312.7 | 507.5 |
| 1991: \| | 6,047.9 | 6,065.4 | -17.5 | 2,251.8 | 2,269.0 | -17.5 | 926.0 | -38.9 | 1,343.3 | 21.0 | 3,308.8 | 487.3 |
| II | 6,074.1 | 6,095.9 | -20.8 | 2,256.1 | 2,277.7 | -20.8 | 944.9 | -29.5 | 1,332.8 | 8.4 | 3,335.0 | 483.4 |
| III | 6,089.3 | 6,085.4 | 4.9 | 2,271.1 | 2,267.2 | 4.9 | 938.2 | 6.1 | 1,329.0 | $-1.3$ | 3,338.3 | 480.1 |
| IV ... | 6,104.4 | 6,083.8 | 21.4 | 2,270.1 | 2,249.6 | 21.4 | 927.5 | -4.2 | 1,322.1 | 25.6 | 3,347.2 | 487.3 |
| 1992: 1 | 6,175.3 | 6,175.8 | -. 1 | 2,288.9 | 2,289.3 | - 1 | 945.2 | -18.7 | 1,344.2 | 18.6 | 3,379.4 | 507.1 |
|  | 6,214.2 | 6,203.8 | 11.3 | 2,301.1 | 2,290.7 | 11.3 | 953.8 | 1.2 | 1,336.9 | 10.1 | 3,398.6 | 514.4 |
| III | 6,260.9 | 6,249.5 | 12.1 | 2,327.4 | 2,316.0 | 12.1 | 970.0 | -11.4 | 1,346.0 | 23.7 | 3,424.2 | 509.4 |
| IV ... | 6,327.3 | 6,320.7 | 5.8 | 2,366.7 | 2,360.1 | 5.8 | 994.8 | -14.8 | 1,365.3 | 20.8 | 3,442.3 | 518.5 |
| 1993: 1 | 6,327.0 | 6,307.7 | 18.5 | 2,357.4 | 2,338.0 | 18.5 | 982.8 | 13.1 | 1,355.2 | 5.4 | 3,448.8 | 520.9 |
| II ... | 6,353.7 | 6,331.6 | 20.8 | 2,385.4 | 2,363.2 | 20.8 | 1,007.4 | 11.2 | 1,355.9 | 9.7 | 3,449.3 | 519.3 |
| III .................... | 6,390.4 | 6,368.2 | 19.5 | 2,384.9 | 2,362.7 | 19.5 | 999.5 | 13.5 | 1,363.2 | 6.1 | 3,475.8 | 529.5 |
| IV ................... | 6,463.9 | 6,444.1 | 17.4 | 2,430.7 | 2,410.7 | 17.4 | 1,038.0 | 23.6 | 1,373.0 | -6.4 | 3,485.6 | 548.1 |
| 1994: 1 | 6,504.6 | 6,464.0 | 40.1 | 2,467.9 | 2,426.8 | 40.1 | 1,048.7 | 24.3 | 1,378.4 | 15.8 | 3,491.1 | 546.6 |
| 1 | 6,581.5 | 6,509.0 | 74.1 | 2,508.8 | 2,435.3 | 74.1 | 1,048.4 | 33.9 | 1,387.1 | 40.4 | 3,513.4 | 560.6 |
| III | 6,639.5 | 6,576.8 | 64.0 | 2,541.9 | 2,478.5 | 64.0 | 1,077.3 | 32.7 | 1,401.6 | 31.2 | 3,536.4 | 562.8 |
| IV .... | 6,691.3 | 6,635.2 | 57.3 | 2,578.5 | 2,521.8 | 57.3 | 1,097.4 | 31.6 | 1,424.8 | 25.6 | 3,545.9 | 569.1 |
| 1995: I |  | 6,647.5 | 54.5 | 2,580.3 | 2,525.6 | 54.5 | 1,097.9 | 51.6 | 1,428.2 | 2.2 | 3,552.6 | 570.8 |
| II | 6,709.4 | 6,677.4 | 30.6 | 2,573.2 | 2,541.1 | 30.6 | 1,112.2 | 26.7 | 1,429.4 | 3.6 | 3,574.7 | 563.3 |
| III ..................... | 6,763.2 | 6,735.0 | 27.1 | 2,602.6 | 2,574.3 | 27.1 | 1,140.0 | 23.6 | 1,435.2 | 3.2 | 3,589.7 | 573.0 |

[^11] ices.

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-8.-G ross dometic produd by sector, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross domestic product | Business ${ }^{1}$ |  |  | Households and institutions | General government ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{1}$ | Nonfarm ${ }^{1}$ | Farm |  | Total | Federal | State and local |
| 1959 | 507.2 | 436.9 | 418.0 | 18.9 | 12.4 | 57.9 | 31.8 | 26.1 |
| 1960 | 526.6 | 451.1 | 431.3 | 19.8 | 13.9 | 61.5 | 32.9 | 28.6 |
| 1961 | 544.8 | 464.9 | 444.8 | 20.1 | 14.5 | 65.5 | 34.2 | 31.3 |
| 1962 | 585.2 | 499.5 | 479.3 | 20.2 | 15.6 | 70.1 | 36.3 | 33.8 |
| 1963 | 617.4 | 525.9 | 505.5 | 20.4 | 16.7 | 74.8 | 38.1 | 36.7 |
| 1964 | 663.0 | 564.7 | 545.5 | 19.3 | 17.9 | 80.4 | 40.5 | 40.0 |
| 1965 | 719.1 | 613.8 | 591.9 | 21.9 | 19.3 | 86.0 | 42.3 | 43.7 |
| 1966 | 787.8 | 670.4 | 647.5 | 22.9 | 21.3 | 96.1 | 47.1 | 49.0 |
| 1967 | 833.6 | 703.7 | 681.5 | 22.2 | 23.4 | 106.5 | 51.6 | 54.9 |
| 1968 | 910.6 | 766.1 | 743.4 | 22.7 | 26.1 | 118.4 | 56.5 | 61.9 |
| 1969 | 982.2 | 823.3 | 798.1 | 25.2 | 29.5 | 129.5 | 60.2 | 69.3 |
| 1970 | 1,035.6 | 860.3 | 834.1 | 26.2 | 32.4 | 142.9 | 64.3 | 78.7 |
| 1971 | 1,125.4 | 933.9 | 905.8 | 28.1 | 35.6 | 155.9 | 68.2 | 87.7 |
| 1972 | 1,237.3 | 1,028.3 | 995.6 | 32.6 | 39.0 | 170.1 | 73.1 | 96.9 |
| 1973 | 1,382.6 | 1,154.6 | 1,104.9 | 49.8 | 43.0 | 185.0 | 76.9 | 108.1 |
| 1974 | 1,496.9 | 1,246.0 | 1,198.6 | 47.4 | 47.2 | 203.7 | 83.5 | 120.3 |
| 1975 | 1,630.6 | 1,351.5 | 1,302.7 | 48.8 | 52.0 | 227.1 | 91.7 | 135.4 |
| 1976 | 1,819.0 | 1,516.0 | 1,469.6 | 46.4 | 57.1 | 245.8 | 97.9 | 147.9 |
| 1977 | 2,026.9 | 1,697.5 | 1,650.3 | 47.2 | 62.4 | 266.9 | 106.1 | 160.9 |
| 1978 | 2,291.4 | 1,931.7 | 1,877.0 | 54.7 | 69.8 | 289.9 | 113.8 | 176.1 |
| 1979 | 2,557.5 | 2,164.3 | 2,099.8 | 64.5 | 77.3 | 315.9 | 122.3 | 193.6 |
| 1980 | 2,784.2 | 2,346.3 | 2,290.2 | 56.1 | 87.1 | 350.8 | 135.6 | 215.2 |
| 1981 | 3,115.9 | 2,631.8 | 2,561.9 | 69.9 | 97.6 | 386.4 | 151.0 | 235.4 |
| 1982 | 3,242.1 | 2,714.7 | 2,649.5 | 65.1 | 108.2 | 419.2 | 164.0 | 255.2 |
| 1983 | 3,514.5 | 2,950.0 | 2,900.8 | 49.2 | 119.2 | 445.3 | 173.5 | 271.8 |
| 1984 | 3,902.4 | 3,289.6 | 3,221.1 | 68.5 | 131.2 | 481.7 | 190.8 | 290.9 |
| 1985 | 4,180.7 | 3,520.2 | 3,453.1 | 67.1 | 140.9 | 519.6 | 203.6 | 316.0 |
| 1986 | 4,422.2 | 3,716.7 | 3,653.7 | 63.0 | 153.7 | 551.9 | 211.1 | 340.7 |
| 1987 | 4,692.3 | 3,933.1 | 3,868.0 | 65.1 | 173.3 | 586.0 | 221.3 | 364.7 |
| 1988 | 5.049.6 | 4,233.4 | 4,169.6 | 63.8 | 195.1 | 621.0 | 230.0 | 391.0 |
| 1989 .................................................................... | 5,438.7 | 4,563.7 | 4,487.5 | 76.2 | 214.6 | 660.3 | 240.5 | 419.8 |
| 1990 | 5,743.8 | 4,796.9 | 4,717.3 | 79.6 | 237.9 | 709.0 | 252.7 | 456.3 |
| 1991 | 5,916.7 | 4,908.5 | 4,835.6 | 72.9 | 257.4 | 750.7 | 268.1 | 482.6 |
| 1992 | 6,244.4 | 5,184.4 | 5,103.8 | 80.6 | 279.1 | 781.0 | 274.4 | 506.6 |
| 1993 | 6,550.2 | 5,448.9 | 5,376.7 | 72.1 | 294.9 | 806.5 | 276.6 | 529.9 |
| 1994 ..................................................................... | 6,931.4 | 5,794.0 | 5,711.7 | 82.3 | 310.3 | 827.0 | 275.7 | 551.4 |
| 1990:1 | 5,660.4 | 4,739.6 | 4,660.9 | 78.7 | 228.6 | 692.3 | 248.7 | 443.5 |
|  | 5,751.0 | 4,812.7 | 4,730.1 | 82.6 | 235.5 | 702.8 | 250.4 | 452.4 |
| III | 5,782.4 | 4,825.7 | 4,746.1 | 79.6 | 242.8 | 713.9 | 253.1 | 460.8 |
| IV | 5,781.5 | 4,809.7 | 4,732.1 | 77.6 | 244.8 | 727.0 | 258.5 | 468.4 |
| 1991: \| | 5,822.1 | 4,830.5 | 4,759.9 | 70.6 | 249.2 | 742.4 | 267.9 | 474.5 |
| II | 5,892.3 | 4,887.5 | 4,810.5 | 77.0 | 255.7 | 749.1 | 268.5 | 480.6 |
| III | 5,950.0 | 4,937.6 | 4,866.8 | 70.7 | 259.7 | 752.8 | 268.1 | 484.7 |
| IV .... | 6.002 .3 | 4,978.6 | 4,905.1 | 73.5 | 265.1 | 758.6 | 267.9 | 490.6 |
| 1992: 1 | 6,121.8 | 5,080.1 | 5,000.9 | 79.1 | 270.1 | 771.7 | 274.4 | 497.3 |
| 11 | 6,201.2 | 5,143.0 | 5,062.7 | 80.3 | 278.3 | 780.0 | 275.8 | 504.2 |
| III. | 6,271.7 | 5,205.2 | 5,121.0 | 84.2 | 281.7 | 784.8 | 275.2 | 509.6 |
| IV ........................................................... | 6,383.0 | 5,309.2 | 5,230.6 | 78.7 | 286.2 | 787.6 | 272.1 | 515.5 |
| 1993: 1 | 6,442.8 | 5,351.5 | 5,279.8 | 71.7 | 290.5 | 800.7 | 278.8 | 522.0 |
| II | 6,503.2 | 5,408.8 | 5,333.7 | 75.1 | 290.8 | 803.6 | 275.9 | 527.7 |
| III.. | 6,571.3 | 5,462.9 | 5,397.7 | 65.1 | 298.7 | 809.7 | 276.9 | 532.9 |
| IV ................................................................ | 6,683.7 | 5,572.3 | 5,495.7 | 76.6 | 299.4 | 812.0 | 275.0 | 537.0 |
| 1994:I ................................................................... | 6,772.8 | 5,646.3 | 5,559.2 | 87.1 | 306.0 | 820.5 | 277.1 | 543.4 |
| II | 6,885.0 | 5,750.0 | 5,667.6 | 82.4 | 309.5 | 825.5 | 277.2 | 548.3 |
| III | 6,987.6 | 5,847.1 | 5,767.5 | 79.6 | 312.3 | 828.2 | 274.0 | 554.2 |
| IV ............................................................... | 7,080.0 | 5,932.6 | 5,852.6 | 80.0 | 313.4 | 834.0 | 274.3 | 559.7 |
| 1995: 1 | 7,147.8 | 5,986.0 | 5,909.3 | 76.6 | 316.7 | 845.1 | 278.6 | 566.5 |
|  | 7,196.5 | 6,024.7 | 5,947.9 | 76.8 | 321.3 | 850.4 | 278.9 | 571.6 |
| III .................................................................. | 7,297.2 | 6,117.0 | 6,039.2 | 77.8 | 324.3 | 855.9 | 278.8 | 577.1 |

[^12]Table B-9.-Real gross domestic produd by sector, 1959-95
[Billions of chained (1992) dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross domestic product | Business ${ }^{1}$ |  |  | Households and institutions | General government ${ }^{2}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{1}$ | Nonfarm ${ }^{1}$ | Farm |  | Total | Federal | $\begin{aligned} & \text { State } \\ & \text { and } \\ & \text { local } \end{aligned}$ |
| 1959 | 2,212.3 | 1,723.6 | 1,677.8 | 34.0 | 105.0 | 415.1 | 232.1 | 186.4 |
| 1960 | 2,261.7 | 1,757.1 | 1,711.2 | 34.3 | 112.1 | 429.3 | 236.4 | 196.2 |
| 1961 | 2,309.8 | 1,791.7 | 1,748.7 | 33.5 | 113.1 | 444.6 | 241.5 | 206.4 |
| 1962 | 2,449.1 | 1,906.5 | 1,868.2 | 32.6 | 117.2 | 461.8 | 251.7 | 213.6 |
| 1963 ..... | 2,554.0 | 1,992.8 | 1,953.3 | 33.9 | 120.1 | 475.7 | 254.3 | 224.6 |
| 1964 ..... | 2,702.9 | 2,117.6 | 2,083.3 | 32.7 | 123.4 | 492.4 | 256.8 | 238.4 |
| 1965 | 2,874.8 | 2,263.0 | 2,227.6 | 34.5 | 127.9 | 509.3 | 258.8 | 253.0 |
| 1966 | 3,060.2 | 2,410.9 | 2,383.9 | 32.5 | 132.6 | 542.1 | 276.4 | 268.4 |
| 1967 | 3,140.2 | 2,463.9 | 2,430.1 | 35.8 | 136.9 | 571.1 | 295.1 | 279.2 |
| 1968 | 3,288.6 | 2,585.4 | 2,554.6 | 35.5 | 141.0 | 592.6 | 300.6 | 294.8 |
| 1969 | 3,388.0 | 2,665.6 | 2,634.4 | 36.4 | 145.5 | 607.3 | 301.7 | 307.8 |
| 1970 | 3,388.2 | 2,665.1 | 2,634.9 | 35.9 | 144.0 | 609.7 | 288.9 | 321.5 |
| 1971 | 3,500.1 | 2,768.0 | 2,736.2 | 37.5 | 147.2 | 611.3 | 276.1 | 334.9 |
| 1972 | 3,690.3 | 2,946.8 | 2,920.2 | 36.9 | 151.4 | 611.5 | 263.5 | 347.4 |
| 1973 | 3,902.3 | 3,145.7 | 3,126.9 | 36.3 | 154.9 | 614.8 | 253.8 | 360.2 |
| 1974 ..................................................... | 3,888.2 | 3,122.6 | 3,094.9 | 38.7 | 156.1 | 625.2 | 252.0 | 372.6 |
| 1975 | 3,865.1 | 3,091.8 | 3,049.7 | 43.4 | 161.2 | 631.1 | 249.0 | 381.7 |
| 1976 .... | 4,081.1 | 3,296.6 | 3,255.9 | 44.6 | 163.0 | 634.3 | 247.5 | 386.4 |
| 1977 ............................................................. | 4,279.3 | 3,481.4 | 3,431.3 | 50.2 | 167.5 | 639.1 | 246.3 | 392.6 |
| 1978 | 4,493.7 | 3,678.8 | 3,651.6 | 41.7 | 170.3 | 649.2 | 247.3 | 401.8 |
| 1979 | 4,624.0 | 3,798.4 | 3,762.6 | 46.3 | 173.7 | 654.2 | 245.1 | 409.3 |
| 1980 | 4,611.9 | 3,777.0 | 3,740.8 | 46.2 | 178.7 | 660.9 | 246.7 | 414.5 |
| 1981 | 4,724.9 | 3,882.5 | 3,816.0 | 63.3 | 182.7 | 662.3 | 248.3 | 414.2 |
| 1982 | 4,623.6 | 3,776.0 | 3,705.4 | 65.2 | 188.0 | 666.6 | 250.3 | 416.4 |
| 1983 .... | 4,810.0 | 3,952.8 | 3,915.7 | 45.0 | 192.3 | 668.7 | 254.2 | 414.4 |
| 1984 | 5,138.2 | 4,264.2 | 4,211.3 | 56.4 | 197.1 | 676.0 | 258.2 | 417.6 |
| 1985 | 5,329.5 | 4,431.3 | 4,357.5 | 71.9 | 203.4 | 693.2 | 263.9 | 429.2 |
| 1986 | 5,489.9 | 4,565.2 | 4,500.0 | 65.5 | 213.5 | 709.9 | 266.9 | 443.0 |
| 1987 | 5,648.4 | 4,698.8 | 4,636.1 | 63.7 | 224.1 | 724.2 | 272.3 | 452.0 |
| 1988 | 5,862.9 | 4,880.0 | 4,826.8 | 56.6 | 240.6 | 741.3 | 274.1 | 467.3 |
| 1989 | 6,060.4 | 5,047.8 | 4,984.8 | 64.8 | 253.4 | 758.1 | 276.2 | 481.9 |
| 1990 | 6,138.7 | 5,099.4 | 5,026.5 | 72.9 | 264.1 | 774.7 | 280.3 | 494.5 |
| 1991 | 6,079.0 | 5,025.9 | 4,954.9 | 71.2 | 272.1 | 781.1 | 281.0 | 500.1 |
| 1992 | 6,244.4 | 5,184.4 | 5,103.8 | 80.6 | 279.1 | 781.0 | 274.4 | 506.6 |
| 1993 | 6,383.8 | 5,313.0 | 5,242.0 | 71.0 | 287.9 | 782.9 | 267.3 | 515.6 |
| 1994 | 6,604.2 | 5,525.8 | 5,442.2 | 83.9 | 296.2 | 782.4 | 256.8 | 525.8 |
| 1990:1 | 6,154.1 |  | 5,055.1 |  |  | 770.3 |  |  |
|  | 6,174.4 | 5,137.7 | 5,063.4 | 74.1 | 262.7 | 773.3 | 280.0 | 493.4 |
| III | 6,145.2 | 5,101.6 | 5,028.8 | 72.7 | 266.5 | 776.7 | 280.9 | 495.9 |
| IV ... | 6,081.0 | 5,034.7 | 4,958.9 | 75.3 | 267.8 | 778.5 | 280.4 | 498.1 |
| 1991:1 | 6,047.9 | 4,995.5 | 4,924.8 | 70.9 | 269.0 | 783.7 | 284.9 | 498.9 |
|  | 6,074.1 | 5,020.2 | 4,947.2 | 73.1 | 271.6 | 782.5 | 282.3 | 500.2 |
| III | 6,089.3 | 5,037.2 | 4,968.1 | 69.3 | 272.8 | 779.3 | 279.4 | 499.9 |
| IV | 6,104.4 | 5,050.8 | 4,979.6 | 71.4 | 274.9 | 778.9 | 277.5 | 501.5 |
| 1992:1 | 6,175.3 | 5,118.7 | 5,039.7 | 79.0 | 277.3 | 779.3 | 275.8 | 503.5 |
|  | 6,214.2 | 5,156.7 | 5,075.3 | 81.4 | 277.2 | 780.3 | 275.0 | 505.3 |
| III | 6,260.9 | 5,198.8 | 5,115.8 | 83.0 | 279.8 | 782.3 | 274.0 | 508.4 |
| IV | 6,327.3 | 5,263.3 | 5,184.4 | 78.9 | 282.0 | 782.0 | 272.7 | 509.3 |
| 1993:1 | 6,327.0 | 5,260.4 | 5,184.8 | 75.6 | 283.5 | 783.2 | 271.5 | 511.7 |
| 1 | 6,353.7 | 5,283.3 | 5,209.7 | 73.7 | 287.1 | 783.2 | 269.0 | 514.3 |
| III | 6,390.4 | 5,317.2 | 5,256.0 | 60.8 | 289.6 | 783.6 | 266.4 | 517.3 |
| IV ..................................................... | 6,463.9 | 5,391.2 | 5,317.4 | 73.8 | 291.4 | 781.5 | 262.3 | 519.2 |
| 1994:1 |  |  |  |  |  |  |  |  |
| 1 | 6,581.5 | 5,503.1 | 5,418.9 | 84.8 | 295.9 | 782.7 | 258.1 | 524.7 |
| III | 6,639.5 | 5,559.7 | 5,475.7 | 84.3 | 296.8 | 783.2 | 255.9 | 527.5 |
| IV ...................................................... | 6,691.3 | 5,612.0 | 5,530.0 | 82.1 | 298.8 | 780.8 | 252.1 | 529.0 |
| 1995:1 |  |  | 5,542.4 | 79.1 | 300.1 | 780.1 | 250.2 | 530.2 |
|  | 6,709.4 | 5,628.4 | 5,551.2 | 76.9 | 301.7 | 779.7 | 249.1 | 530.9 |
| III | 6,763.2 | 5,680.5 | 5,607.0 | 72.9 | 303.1 | 779.9 | 247.7 | 532.5 |

[^13]Table B-10.—G ross domestic product of nonfinancial corporate business, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Grossdomestic product of financial corporate business | Con-sumption of fixed capital | Net domestic product |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | Indirect business taxes ${ }^{1}$ | Total | Com-pensation of employees | Domestic income |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Corporate profits with inventory valuation and capital consumption adjustments |  |  |  |  |  |  |  | $\begin{array}{\|l\|l} \text { Net } \\ \text { inter- } \\ \text { est } \end{array}$ |
|  |  |  |  |  |  |  | Total | Profits |  |  |  |  | Inventory valuation adjustment | Capital con-sumption adjustment |  |
|  |  |  |  |  |  |  |  | Profits before tax | Profits tax liability | Profits after tax |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Total | Dividends | Undistributed profits |  |  |  |
| 1959 | 267.5 | 26.3 | 241.2 | 26.0 | 215.2 | 171.5 | 40.6 | 43.6 | 20.7 | 22.9 | 10.0 | 12.9 | -0.3 | -2.8 | 3.1 |
| 1960 | 278 | 27.2 | 250.9 | 28.3 | 222 | 181.2 | 38 | 40.3 | 19.2 | 21.1 | 10.6 | 10.6 | -. 2 | -2.2 | . 5 |
| 1961 | 285.5 | 27.8 | 257.8 | 29.5 | 228.2 | 185.3 | 38.9 | 40.1 | 19.5 | 20.7 | 10.6 | 10.1 | . 3 | -1.5 | 4.0 |
| 1962 | 311.7 | 28.8 | 282.9 | 32.0 | 250.9 | 200.1 | 46.3 | 45.0 | 20.6 | 24.3 | 11.4 | 13.0 | . 0 | 1.3 | 4.5 |
| 1963 | 331.8 | 29.8 | 302.0 | 34.0 | 267.9 | 211.1 | 52.0 | 49.8 | 22.8 | 27.0 | 12.6 | 14.4 |  | 2.2 | 4.8 |
| 1964 | 358.1 | 31.3 | 326.8 | 36.6 | 290.2 | 226.7 | 58.2 | 56.0 | 24.0 | 32.1 | 13.7 | 18.4 | -. 5 | 2.7 | 5.3 |
| 1965 | 393.5 | 33.5 | 360.0 | 39.2 | 320.8 | 246.5 | 68.2 | 66.2 | 27.2 | 39.0 | 15.6 | 23.4 | -1.2 | . 3 | . 1 |
| 1966 | 431.0 | 36.7 | 394.3 | 40.5 | 353.8 | 274.0 | 72.5 | 71.4 | 29.5 | 41.9 | 16.8 | 25.1 | -2.1 | 3.2 | 7.4 |
| 1967 | 453.4 | 40.1 | 413.4 | 43.1 | 370.3 | 292.3 | 69.2 | 67.5 | 27.8 | 39.7 | 17.5 | 22.2 | -1.6 | 3.3 | 8.8 |
| 1968 | 500.5 | 43.8 | 456.7 | 49.7 | 407.0 | 323.2 | 73.6 | 74.0 | 33.6 | 40.4 | 19.1 | 21.3 | -3.7 | 3.3 | 10.1 |
| 1969 | 543.3 | 47.5 | 495.8 | 54.7 | 441.1 | 358.8 | 69.1 | 70.8 | 33.3 | 37.5 | 19.1 | 18.4 | -5.9 | 4.1 | 13.2 |
| 1970 | 561.4 | 51.6 | 509.8 | 58.8 | 451.0 | 378.7 | 55.2 | 58.1 | 27.2 | 31.0 | 18.5 | 12.5 | -6.6 | 3.6 | 17.1 |
| 1971 | 606.4 | 56.3 | 550.1 | 64.5 | 485.6 | 402.0 | 65.5 | 67.1 | 29.9 | 37.1 | 18.5 | 18.7 | -4.6 | 3.0 | 18.1 |
| 1972 | 673.3 | 62.1 | 611.2 | 69.2 | 542.1 | 447.1 | 75.8 | 78.6 | 33.8 | 44.8 | 20.1 | 24.7 | -6.6 | 3.9 | 19.2 |
| 1973 | 754.5 | 67.6 | 686.8 | 76.3 | 610.5 | 505.9 | 82.1 | 98.6 | 40.2 | 58.4 | 21.1 | 37.3 | -20.0 | 3.6 | 22.5 |
| 1974 | 814.6 | 78.7 | 736.0 | 81.4 | 654.6 | 556.8 | 69.5 | 109.2 | 42.2 | 67.0 | 21.7 | 45.2 | -39.5 | -. 2 | 28.3 |
| 1975 | 881.2 | 94.4 | 786.8 | 87.4 | 699.5 | 580.3 | 99.4 | 109.9 | 41.5 | 68.4 | 24.8 | 43.6 | -11.0 | -8.5 | 28.7 |
| 1976 | 995.3 1.125 .4 | 104.5 | 890.8 999.7 | 95.1 104.1 | 795.6 | 657.4 742.6 | 110.7 | 137.3 158.6 | 53.0 59.9 | 84.4 98.7 | 28.0 31.5 | 56.3 67.2 | -14.9 | -11.7 | 27.5 30.6 |
| 1978 | 1,284.1 | 142.1 | 1,142.0 | 116.4 | 1,025.5 | 742.6 852.9 | 132.4 | 183.5 | 67.1 | 116.4 | 31.5 36.4 | 88 | -25.0 | -22.1 | 36.3 |
| 1979 | 1,429.7 | 163.7 | 1,266.0 | 125.4 | 1,140.6 | 968.1 | 127.4 | 195.5 | 69.6 | 125.9 | 38.1 | 87.9 | -41.6 | -26.6 | 45.1 |
| 1980 | 1,553.8 | 187.8 | 1,365.9 | 141.6 | 1,224.3 | 1,058.5 | 107.6 | 181.6 | 67.0 | 114.6 | 45.3 | 69.2 | -43.0 | -30.9 | 58.2 |
| 1981 | 1,767.3 | 218.3 | 1,549.1 | 170.4 | 1,378.7 | 1,171.5 | 135.3 | 181.4 | 63.9 | 117.5 | 53.3 | 64.2 | -25.7 | -20.4 | 71.9 |
| 1982 | 1,823.4 | 235.4 | 1,588.0 | 172.1 | 1,415.9 | 1,217.0 | 116.4 | 133.7 | 46.3 | 87.4 | 53.3 | 34.2 | -9.9 | -7.4 | 82.5 |
| 1983 | 1,950.3 | 248.9 | 1,701.4 | 189.0 | 1,512.4 | 1,280.5 | 155.3 | 157.4 | 59.4 | 97.9 | 64.2 | 33.8 | -9.1 | 7.0 | 76.6 |
| 1984 | 2,187.5 | 255.1 | 1,932.4 | 210.2 | 1,722.2 | 1,421.7 | 212.7 | 191.0 | 73.7 | 117.3 | 67.8 | 49.5 | -5.6 | 27.3 | 87.8 |
| 1985 | 2,319.3 | 266.5 | 2,052.8 | 224.4 | 1,828.4 | 1,521.9 | 215.9 | 167.6 | 69.9 | 97.6 | 72.3 | 25.4 | . 5 | 47.8 | 90.6 |
| 1986 | 2,416.3 | 283.7 | 2,132.6 | 235.8 | 1,896.8 | 1,603.2 | 195.5 | 151.5 | 75.6 | 75.9 | 73.9 | 2.1 | 11.4 | 32.6 | 98.1 |
| 1987 | 2,589.6 | 296.9 | 2,292.7 | 246.7 | 2,046.0 | 1,715.5 | 225.2 | 214.9 | 93.5 | 121.4 | 75.9 | 45.5 | -20.7 | 31.0 | 105.3 |
| 1988 | 2,805.2 | 316.5 | 2,488.7 | 263.5 | 2,225.3 | 1,846.7 | 257.5 | 260.6 | 101.7 | 158.8 | 79.4 | 79.4 | -29.3 | 26.3 | 121.0 |
| 1989 | 2,950.9 | 335.5 | 2,615.4 | 280.8 | 2,334.6 | 1,950.0 | 238.7 | 237.0 | 98.8 | 138.3 | 103.5 | 34.8 | -17.5 | 19.1 | 145.9 |
| 1990 | 3,084.0 | 352.7 | 2,731.3 | 296.8 | 2,434.5 | 2,056.0 | 231.0 | 237.3 | 95.7 | 141.6 | 118.4 | 23.3 | -13.5 | 7.2 | 147.5 |
| 1991 | 3,132.1 | 366.7 | 2,765.3 | 318.0 | 2,447.3 | 2,090.6 | 223.1 | 218.1 | 85.4 | 132.8 | 124.6 | 8.2 | 4.0 | 1.0 | 133.7 |
| 1992 | 3,262.6 | 376.1 | 2,886.5 | 337.0 | 2,549.5 | 2,195.3 | 250.0 | 257.8 | 91.1 | 166.7 | 133.6 | 33.1 | -7.5 | -. 3 | 104.2 |
| 1993 | 3,437.5 | 390.1 | 3,047.4 | 356.2 | 2,691.2 | 2,294.3 | 297.3 | 303.7 | 103.5 | 200.3 | 152.6 | 47.6 | -6.6 | 1 | 99.6 |
| 1994 | 3,688.4 | 412.8 | 3,275.5 | 379.6 | 2,895.9 | 2,433.8 | 364.6 | 372.5 | 129.9 | 242.7 | 161.8 | 80.9 | -13.3 | 5.3 | 97.5 |
| 1990: 1 | 3.042.8 | 346.4 | 2,696.4 | 290.5 | 2,405.9 | 2,022.0 | 237.5 | 227.9 | 90.5 | 137.3 | 119.5 | 17.8 | -1.3 | 10.9 | 146.5 |
| II ... | 3,103.0 | 351.6 | 2,751.5 | 292.6 | 2,458.9 | 2,055.8 | 254.2 | 239.0 | 96.4 | 142.7 | 116.5 | 26.2 | 7.7 | 7.4 | 148.9 |
| III .. | 3,092.7 | 356.0 | 2,736.7 | 299.7 | 2,437.0 | 2,074.7 | 214.7 | 250.1 | 101.1 | 148.9 | 118.1 | 30.8 | -40.0 | 4.7 | 147.6 |
| IV ... | 3,097.4 | 356.9 | 2,740.5 | 304.3 | 2,436.2 | 2,071.4 | 217.7 | 232.3 | 94.7 | 137.7 | 119.5 | 18.2 | -20.3 | 5.6 | 147.1 |
| 1991:\| | 3,107.7 | 363.2 | 2,744.5 | 309.2 | 2,435.3 | 2,060.0 | 232.6 | 213.3 | 83.1 | 130.3 | 120.7 | 9.5 | 17.6 | 1.7 | 142.7 |
| II ... | 3,119.1 | 365.7 | 2,753.4 | 314.2 | 2,439.2 | 2,078.8 | 222.8 | 215.0 | 84.0 | 131.0 | 125.4 | 5.6 | 6.8 | 1.1 | 137.6 |
| III ... | 3,142.0 | 369.0 | 2,773.0 | 321.2 | 2,451.8 | 2,101.2 | 219.4 | 220.6 | 86.8 | 133.8 | 124.9 | 8.9 | -.8 | -. 3 | 131.1 |
| IV ..... | 3,159.5 | 369.1 | 2,790.4 | 327.3 | 2,463.1 | 2,122.2 | 217.5 | 223.7 | 87.5 | 136.2 | 127.5 | 8.7 | -7.6 | 1.5 | 123.3 |
| 1992: \\| | 3,202.2 | 368.6 | 2,833.6 | 330.4 | 2,503.1 | 2,152.8 | 240.2 | 236.3 | 82.4 | 153.9 | 124.0 | 29.9 | . 3 | 3.6 | 110.2 |
| II ... | 3,236.1 | 371.8 | 2,864.3 | 331.8 | 2,532.5 | 2,183.2 | 243.3 | 262.6 | 93.6 | 169.0 | 129.7 | 39.3 | -21.9 | 2.6 | 106.0 |
| III .. | 3,270.5 | 387.9 | 2,882.7 | 337.8 | 2,544.9 | 2,209.3 | 234.8 | 254.4 | 89.9 | 164.5 | 134.3 | 30.2 | -8.6 | -11.0 | 100.8 |
| IV ... | 3,341.7 | 376.3 | 2,965.4 | 348.0 | 2,617.4 | 2,236.1 | 281.6 | 277.9 | 98.4 | 179.5 | 146.3 | 33.2 | . 2 | 3.5 | 99.7 |
| 1993: \| | 3,345.3 | 382.8 | 2,962.5 | 346.9 | 2,615.6 | 2,251.4 | 260.5 | 275.9 | 93.8 | 182.1 | 153.4 | 28.7 | -14.6 | -. 7 | 103.6 |
| II .... | 3,407.8 | 387.5 | 3,020.4 | 352.9 | 2,667.4 | 2,279.8 | 286.9 | 303.2 | 103.9 | 199.3 | 150.1 | 49.2 | -15.6 | -. 7 | 100.7 |
| III ..... | 3,458.7 | 395.8 | 3,062.8 | 355.9 | 2,706.9 | 2,308.4 | 301.1 | 296.4 | 100.1 | 196.3 | 150.8 | 45.5 | 7.9 | -3.3 | 97.5 |
| IV .... | 3,538.0 | 394.2 | 3,143.8 | 368.9 | 2,774.9 | 2,337.6 | 340.6 | 339.5 | 116.0 | 223.4 | 156.3 | 67.2 | -4.0 | 5.1 | 96.7 |
| 1994: I | 3,594.4 | 427.9 | 3,166.5 | 372.6 | 2,793.9 | 2,374.6 | 323.6 | 346.0 | 121.0 | 225.0 | 154.9 | 70.1 | -3.9 | -18.4 | 95.7 |
| II .. | 3,664.9 | 404.3 | 3,260.6 | 376.5 | 2,884.1 | 2,419.7 | 366.3 | 364.4 | 126.9 | 237.5 | 160.9 | 76.7 | -9.8 | 11.7 | 98.1 |
| III. | 3,707.2 | 408.7 | 3,298.5 | 382.1 | 2,916.4 | 2,443.8 | 374.2 | 378.0 | 130.9 | 247.1 | 161.0 | 86.1 | -16.5 | 12.7 | 98.4 |
| IV ... | 3,786.9 | 410.4 | 3,376.6 | 387.2 | 2,989.4 | 2,497.1 | 394.3 | 401.8 | 140.6 | 261.1 | 170.2 | 91.0 | -22.8 | 15.3 | 97.9 |
| 1995: \| ... | 3,796.4 | 415.0 | 3,381.4 | 394.1 | 2,987.3 | 2,521.8 | 364.6 | 405.1 | 142.2 | 262.9 | 172.1 | 90.8 | -51.9 | 11.4 | 101.0 |
| II .... | 3,832.4 | 421.3 | 3.411.1 | 401.1 | 3,009.9 | 2,543.5 | 364.5 | 397.9 | 138.5 | 259.4 | 176.1 | 83.3 | -42.3 | 8.9 | 101.9 |
| III ....... | 3,916.2 | 426.4 | 3,489.8 | 401.7 | 3,088.1 | 2,581.7 | 404.7 | 406.0 | 141.3 | 264.7 | 174.9 | 89.7 | -9.8 | 8.5 | 101.7 |

[^14]Source: Department of Commerce, Bureau of Economic Analysis.

Table B-11.-Output, costs, and profits of nonfinandal corporate business, 1959-95
[Quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross domestic product of nonfinancial corporate business (billions of dollars) |  | Current-dollar cost and profit per unit of real output (dollars) ${ }^{1}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total cost and profit ${ }^{2}$ | Con-sumption of fixed capital | Indirect business taxes ${ }^{3}$ | Com-pensation of employees | Corporate profits with inventory valuation and capital consumption adjustments |  |  | Net interest |
|  | Current dollars | Chained (1992) dollars |  |  |  |  | Total | Profits tax liability | Profits after tax ${ }^{4}$ |  |
| 1959 | 267.5 | 921.6 | 0.290 | 0.028 | 0.028 | 0.186 | 0.044 | 0.023 | 0.022 | 0.003 |
| 1960 | 278.1 | 947.5 | . 294 | . 029 | . 030 | . 191 | . 040 | . 020 | . 020 | . 004 |
| 1961 | 285.5 | 967.6 | . 295 | . 029 | . 031 | . 192 | . 040 | . 020 | . 020 | . 004 |
| 1962 | 311.7 | 1,046.8 | . 298 | . 027 | . 031 | . 191 | . 044 | . 020 | . 025 | . 004 |
| 1963 | 331.8 | 1,110.7 | . 299 | . 027 | . 031 | . 190 | . 047 | . 021 | . 026 | . 004 |
| 1964 | 358.1 | 1,189.4 | . 301 | . 026 | . 031 | . 191 | . 049 | . 020 | . 029 | . 004 |
| 1965 | 393.5 | 1,283.6 | . 307 | . 026 | . 031 | . 192 | . 053 | . 021 | . 032 | . 005 |
| 1966 | 431.0 | 1,363.1 | . 316 | . 027 | . 030 | . 201 | . 053 | . 022 | . 032 | . 005 |
| 1967 | 453.4 | 1,396.5 | . 325 | . 029 | . 031 | . 209 | . 050 | . 020 | . 030 | . 006 |
| 1968 | 500.5 | 1,488.1 | . 336 | . 029 | . 033 | . 217 | . 049 | . 023 | . 027 | . 007 |
| 1969 | 543.3 | 1,545.6 | . 351 | . 031 | . 035 | . 232 | . 045 | . 022 | . 023 | . 009 |
| 1970 | 561.4 | 1,525.5 | . 368 | . 034 | . 039 | . 248 | . 036 | . 018 | . 018 | . 011 |
| 1971 | 606.4 | 1,592.0 | . 381 | . 035 | . 041 | . 253 | . 041 | . 019 | . 022 | . 011 |
| 1972 | 673.3 | 1,717.2 | . 392 | . 036 | . 040 | . 260 | . 044 | . 020 | . 025 | . 011 |
| 1973 | 754.5 | 1,811.4 | . 416 | . 037 | . 042 | . 279 | . 045 | . 022 | . 023 | . 012 |
| 1974 | 814.6 | 1,780.6 | . 457 | . 044 | . 046 | . 313 | . 039 | . 024 | . 015 | . 016 |
| 1975 | 881.2 | 1,744.6 | . 505 | . 054 | . 050 | . 333 | . 052 | . 024 | . 028 | . 016 |
| 1976 | 995.3 | 1,892.2 | . 526 | . 055 | . 050 | . 347 | . 059 | . 028 | . 031 | . 015 |
| 1977 | 1,125.4 | 2,041.1 | . 551 | . 062 | . 051 | . 364 | . 060 | . 029 | . 031 | . 015 |
| 1978 | 1,284.1 | 2,165.7 | . 593 | . 066 | . 054 | . 394 | . 063 | . 031 | . 032 | . 017 |
| 1979 | 1,429.7 | 2,214.2 | . 646 | . 074 | . 057 | . 437 | . 058 | . 031 | . 026 | . 020 |
| 1980 | 1,553.8 | 2,222.2 | . 699 | . 085 | . 064 | . 476 | . 048 | . 030 | . 018 | . 026 |
| 1981 | 1,767.3 | 2,328.8 | . 759 | . 094 | . 073 | . 503 | . 058 | . 027 | . 031 | . 031 |
| 1982 | 1,823.4 | 2,298.8 | . 793 | . 102 | . 075 | . 529 | . 051 | . 020 | . 030 | . 036 |
| 1983 | 1,950.3 | 2,407.8 | . 810 | . 103 | . 078 | . 532 | . 064 | . 025 | . 040 | . 032 |
| 1984 | 2,187.5 | 2,634.6 | . 830 | . 097 | . 080 | . 540 | . 081 | . 028 | . 053 | . 033 |
| 1985 | 2,319.3 | 2,748.0 | . 844 | . 097 | . 082 | . 554 | . 079 | . 025 | . 053 | . 033 |
| 1986 | 2,416.3 | 2,832.4 | . 853 | . 100 | . 083 | . 566 | . 069 | . 027 | . 042 | . 035 |
| 1987 | 2,589.6 | 2,967.0 | . 873 | . 100 | . 083 | . 578 | . 076 | . 031 | . 044 | . 035 |
| 1988 | 2,805.2 | 3,122.1 | . 898 | . 101 | . 084 | . 591 | . 082 | . 033 | . 050 | . 039 |
| 1989 | 2,950.9 | 3,175.4 | . 929 | . 106 | . 088 | . 614 | . 075 | . 031 | . 044 | . 046 |
| 1990 | 3,084.0 | 3,212.5 | . 960 | . 110 | . 092 | . 640 | . 072 | . 030 | . 042 | . 046 |
| 1991 | 3,132.1 | 3,168.8 | . 988 | . 116 | . 100 | . 660 | . 070 | . 027 | . 043 | . 042 |
| 1992 | 3,262.6 | 3,262.6 | 1.000 | . 115 | . 103 | . 673 | . 077 | . 028 | . 049 | . 032 |
| 1993 | 3,437.5 | 3,380.0 | 1.017 | . 115 | . 105 | . 679 | . 088 | . 031 | . 057 | . 029 |
| 1994 | 3,688.4 | 3,567.1 | 1.034 | . 116 | . 106 | . 682 | . 102 | . 036 | . 066 | . 027 |
| 1990: 1 | 3,042.8 | 3,208.3 | . 948 | . 108 | . 091 | . 630 | . 074 | . 028 | . 046 | . 046 |
| II | 3,103.0 | 3,243.0 | . 957 | . 108 | . 090 | . 634 | . 078 | . 030 | . 049 | . 046 |
| III | 3,092.7 | 3,208.5 | . 964 | . 111 | . 093 | . 647 | . 067 | . 032 | . 035 | . 046 |
| IV | 3,097.4 | 3,190.2 | . 971 | . 112 | . 095 | . 649 | . 068 | . 030 | . 039 | . 046 |
| 1991: 1 | 3,107.7 | 3,164.3 | . 982 | . 115 | . 098 | . 651 | . 074 | . 026 | . 047 | . 045 |
| II | 3,119.1 | 3,158.4 | . 988 | . 116 | . 099 | . 658 | . 071 | . 027 | . 044 | . 044 |
| III ............................................ | 3,142.0 | 3,170.1 | . 991 | . 116 | . 101 | . 663 | . 069 | . 027 | . 042 | . 041 |
| IV .............................................. | 3,159.5 | 3,182.5 | . 993 | . 116 | . 103 | . 667 | . 068 | . 027 | . 041 | . 039 |
| 1992: I | 3,202.2 | 3,216.6 | . 996 | . 115 | . 103 | . 669 | . 075 | . 026 | . 049 | . 034 |
| 11 | 3,236.1 | 3,238.1 | . 999 | . 115 | . 102 | . 674 | . 075 | . 029 | . 046 | . 033 |
| III | 3,270.5 | 3,267.3 | 1.001 | . 119 | . 103 | . 676 | . 072 | . 028 | . 044 | . 031 |
| IV | 3,341.7 | 3,328.5 | 1.004 | . 113 | . 105 | . 672 | . 085 | . 030 | . 055 | . 030 |
| 1993: I | 3,345.3 | 3,304.0 | 1.012 | . 116 | . 105 | . 681 | . 079 | . 028 | . 050 | . 031 |
| 11 | 3,407.8 | 3,357.4 | 1.015 | . 115 | . 105 | . 679 | . 085 | . 031 | . 055 | . 030 |
| III ............................................. | 3,458.7 | 3,398.4 | 1.018 | . 116 | . 105 | . 679 | . 089 | . 029 | . 059 | . 029 |
| IV ............................................ | 3,538.0 | 3,460.1 | 1.023 | . 114 | . 107 | . 676 | . 098 | . 034 | . 065 | . 028 |
| 1994:I ................................................ | 3,594.4 | 3,496.2 | 1.028 | . 122 | . 107 | . 679 | . 093 | . 035 | . 058 | . 027 |
|  | 3,664.9 | 3,554.5 | 1.031 | . 114 | . 106 | . 681 | . 103 | . 036 | . 067 | . 028 |
| III ............................................. | 3,707.2 | 3,576.2 | 1.037 | . 114 | . 107 | . 683 | . 105 | . 037 | . 068 | . 028 |
| IV ............................................. | 3,786.9 | 3,641.5 | 1.040 | . 113 | . 106 | . 686 | . 108 | . 039 | . 070 | . 027 |
| 1995: I ................................................. | 3,796.4 | 3,631.6 | 1.045 | . 114 | . 109 | . 694 | . 100 | . 039 | . 061 | . 028 |
|  | 3,832.4 | 3,646.1 | 1.051 | . 116 | . 110 | . 698 | . 100 | . 038 | . 062 | . 028 |
| III ............................................. | 3,916.2 | 3,715.2 | 1.054 | . 115 | . 108 | . 695 | . 109 | . 038 | . 071 | . 027 |

${ }^{1}$ Output is measured by gross domestic product of nonfinancial corporate business in chained (1992) dollars.
${ }^{2}$ This is equal to the deflator for gross domestic product of nonfinancial corporate business with the decimal point shifted two places to the left.
${ }^{3}$ Indirect business tax and nontax liability plus business transfer payments less subsidies.
${ }^{4}$ With inventory valuation and capital consumption adjustments.
Source: Department of Commerce, Bureau of Economic Analysis.

Table B-12—Personal consumption expenditures, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Personal consumption expenditures | Durable goods |  |  | Nondurable goods |  |  |  |  | Services |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{1}$ | Motor vehicles and parts | Furniture and household equipment | Total ${ }^{1}$ | Food | Clothing and shoes | Gasoline and oil | Fuel oil and coal | Total ${ }^{1}$ | Housing ${ }^{2}$ | Household operation |  | Trans-portation | Medical care |
|  |  |  |  |  |  |  |  |  |  |  |  | Total ${ }^{1}$ | Electricity and gas |  |  |
| 1959 | 8.1 | 42.7 | 18.9 | 18.1 | 148.5 | 80.7 | 26.4 | 11.3 | 4.0 | 127.0 | 45.0 | 18.7 | 7.6 | 10.5 | 16.4 |
| 1960 | 332.2 | 43.3 | 19. | 18.0 | 152.9 | 82.3 | 27.0 | 12.0 | 3.8 | 136.0 | 48.2 | 20.3 | 8.3 | 11.2 | .6 |
| 1961 | 342.6 | 41.8 | 17.8 | 18.3 | 156.6 | 84.0 | 27.6 | 12.0 | 3.8 | 144.3 | 51.2 | 21.2 | 8.8 | 11.7 | 18.7 |
| 1962 | 363.4 | 46.9 | 21.5 | 19.3 | 162.8 | 86.1 | 29.0 | 12.6 | 3.8 | 153.7 | 54.7 | 22.4 | 9.4 | 12.2 | 20.8 |
| 1963 | 383.0 | 51.6 | 24.4 | 20.7 | 168.2 | 88.3 | 29.8 | 13.0 | 4.0 | 163.2 | 58.0 | 23.6 | 9.9 | 12.7 | 22.6 |
| 1964 | 411.4 | 56.7 | 26.0 | 23.2 | 178.7 | 93.6 | 32.4 | 13.6 | 4.1 | 176.1 | 61.4 | 25.0 | 10.4 | 13.4 | 25.8 |
| 1965 | 444.3 | 63.3 | 29.9 | 25.1 | 191.6 | 100.7 | 34.1 | 14.8 | 4.4 | 189.4 | 65.4 | 26.5 | 10.9 | 14.5 | 28.0 |
| 1966 | 481.9 | 68.3 | 30.3 | 28.2 | 208.8 | 109.3 | 37.4 | 16.0 | 4.7 | 204.8 | 69.5 | 28.2 | 11.5 | 15.9 | 30.7 |
| 1967 | 509.5 | 70.4 | 30.0 | 30.0 | 217.1 | 112.5 | 39.2 | 17.1 | 4.8 | 222.0 | 74.1 | 30.2 | 12.2 | 17.3 | 33.9 |
| 1968 | 559.8 | 80.8 | 36.1 | 32.9 | 235.7 | 122.2 | 43.2 | 18.6 | 4.7 | 243.4 | 79.7 | 32.3 | 13.0 | 18.9 | 39.2 |
| 1969 | 604.7 | 85.9 | 38.4 | 34.7 | 253.2 | 131.5 | 46.5 | 20.5 | 4.6 | 265.5 | 86.8 | 35.1 | 14.0 | 20.9 | 44.7 |
| 1970 | 648.1 | 85.0 | 35 | 35.7 | 272.0 | 143.8 | 47.8 | 21.9 | 4.4 | 291.1 | 94.0 | 37.8 | 15.2 | 23.7 | . 4 |
| 1971 | 702.5 | 96.9 | 44.5 | 37.8 | 285.5 | 149.7 | 51.7 | 23.2 | 4.6 | 320.1 | 102.7 | 41.0 | 16.6 | 27.1 | 56.9 |
| 1972 | 770.7 | 110.4 | 51.1 | 42.4 | 308.0 | 161.4 | 56.4 | 24.4 | 5.1 | 352.3 | 112.1 | 45.3 | 18.4 | 29.8 | 63.8 |
| 1973 | 851.6 | 123.5 | 56.1 | 47.9 | 343.1 | 179.6 | 62.5 | 28.1 | 6.3 | 384.9 | 122.7 | 49.8 | 20.0 | 31.2 | 71.6 |
| 1974 | 931.2 | 122.3 | 49.5 | 51.5 | 384.5 | 201.8 | 66.0 | 36.1 | 7.8 | 424.4 | 134.1 | 55.5 | 23.5 | 33.3 | 80.6 |
| 1975 | 1,029.1 | 133.5 | 54.8 | 54.5 | 420.6 | 223.1 | 70.8 | 39.7 | 8.4 | 475.0 | 147.0 | 63.7 | 28.5 | 35.7 | 93.5 |
| 1976 | 1,148.8 | 158.9 | 71.3 | 60.2 | 458.2 | 242.4 | 76.6 | 43.0 | 10.1 | 531.8 | 161.5 | 72.4 | 32.5 | 41.3 | 106.7 |
| 1977 | 1,277.1 | 181.1 | 83.5 | 67.1 | 496.9 | 262.4 | 84.1 | 46.9 | 11.1 | 599.0 | 179.5 | 81.9 | 37.6 | 49.2 | 123.0 |
| 1978 | 1,428.8 | 201.4 | 93.1 | 74.0 | 549.9 | 289.2 | 94.3 | 50.1 | 11.5 | 677.4 | 201.7 | 91.2 | 42.1 | 53.5 | 140.0 |
| 1979 | 1,593.5 | 213.9 | 93.5 | 82.3 | 624.0 | 324.2 | 101.2 | 66.2 | 14.4 | 755.6 | 226.6 | 100.0 | 46.8 | 59.1 | 158.0 |
| 1980 | 1,760.4 | 213.5 | 87.0 | 86.0 | 695.5 | 355.4 | 107.3 | 86.7 | 15.4 | 851.4 | 255.2 | 113.0 | 56.3 | 64.7 | 181.2 |
| 1981 | 1,941.3 | 230.5 | 95.8 | 91.3 | 758.2 | 382.8 | 117.2 | 97.9 | 15.8 | 952.6 | 287.9 | 126.0 | 63.4 | 68.7 | 213.0 |
| 1982 | 2,076.8 | 239.3 | 102.9 | 92.5 | 786.8 | 402.6 | 120.5 | 94.1 | 14.5 | 1,050.7 | 313.2 | 141.4 | 72.6 | 70.9 | 239.4 |
| 1983 | 2,283.4 | 279.8 | 126.9 | 105.3 | 830.3 | 422.9 | 130.9 | 93.1 | 13.6 | 1,173.3 | 339.0 | 155.9 | 80.7 | 79.4 | 267.8 |
| 1984 | 2,492.3 | 325.1 | 152.5 | 117.2 | 883.6 | 446.3 | 142.5 | 94.6 | 13.9 | 1,283.6 | 370.6 | 168.0 | 84.7 | 90.0 | 294.1 |
| 1985 | 2,704.8 | 361.1 | 175.7 | 126.3 | 927.6 | 466.5 | 152.1 | 97.2 | 13.6 | 1,416.1 | 407.1 | 180.3 | 88.8 | 100.0 | 321.8 |
| 1986 | 2,892.7 | 398.7 | 192.4 | 140.3 | 957.2 | 490.8 | 163.1 | 80.1 | 11.3 | 1,536.8 | 442.2 | 186.9 | 87.2 | 107.3 | 346.1 |
| 1987 | 3,094.5 | 416.7 | 193.1 | 150.4 | 1,014.0 | 513.9 | 174.4 | 85.4 | 11.2 | 1,663.8 | 476.6 | 194.9 | 88.9 | 118.2 | 381.1 |
| 1988 | 3,349.7 | 451.0 | 207.5 | 162.8 | 1,081.1 | 551.2 | 185.9 | 87.1 | 11.4 | 1,817.6 | 512.9 | 206.6 | 94.1 | 130.5 | 428.7 |
| 1989 | 3,594.8 | 472.8 | 214.4 | 173.3 | 1,163.8 | 588.4 | 199.9 | 96.6 | 11.4 | 1,958.1 | 547.4 | 219.8 | 98.8 | 137.8 | 477.1 |
| 1990 | 3,839.3 | 476.5 | 210.3 | 176.0 | 1,245.3 | 630.5 | 205.9 | 109.2 | 12.0 | 2,117.5 | 586.3 | 226.3 | 98.7 | 143.7 | 537.7 |
| 1991 | 3,975.1 | 455.2 | 187.6 | 178.5 | 1,277.6 | 650.0 | 211.3 | 103.9 | 11.3 | 2,242.3 | 616.5 | 237.6 | 104.9 | 145.3 | 586.5 |
| 1992 | 4,219.8 | 488.5 | 206.9 | 189.4 | 1,321.8 | 660.0 | 225.5 | 106.6 | 10.9 | 2,409.4 | 646.8 | 248.2 | 106.6 | 158.1 | 646.6 |
| 1993 | 4,454.1 | 530.7 | 226.1 | 205.5 | 1,368.9 | 685.7 | 235.7 | 108.1 | 10.6 | 2,554.6 | 673.2 | 268.5 | 115.9 | 169.6 | 697.4 |
| 1994 | 4,698.7 | 580.9 | 245.3 | 226.8 | 1,429.7 | 715.7 | 247.8 | 109.9 | 10.1 | 2,688.1 | 706.6 | 278.9 | 115.6 | 181.3 | 739.1 |
| 1990:1 | 3,759.2 | 493.3 | 223.4 | 178.9 | 1,220.7 | 617.6 | 205.8 | 102.8 | 11.5 | 2,045.3 | 571.1 | 219.1 | 93.5 | 141.5 | 514.2 |
| II ... | 3.811 .8 | 477.6 | 211.5 | 176.4 | 1,230.2 | 627.5 | 205.6 | 100.4 | 11.3 | 2.104 .1 | 581.5 | 227.0 | 99.5 | 143.2 | 530.6 |
| III ......... | 3,879.2 | 473.2 | 208.5 | 175.0 | 1,256.2 | 637.1 | 206.8 | 109.6 | 12.7 | 2,149.8 | 593.5 | 229.6 | 101.0 | 144.2 | 547.2 |
| IV ......... | 3,907.0 | 461.9 | 198.0 | 173.7 | 1,274.1 | 639.7 | 205.5 | 124.1 | 12.6 | 2,171.0 | 599.2 | 229.6 | 100.9 | 145.8 | 558.8 |
| 1991:\| | 3,910.7 | 449.0 | 183.6 | 175.2 | 1,268.3 | 644.0 | 207.2 | 108.4 | 11.9 | 2,193.5 | 605.8 | 230.7 | 101.6 | 143.0 | 568.2 |
| II ... | 3,961.0 | 452.7 | 183.3 | 179.7 | 1,279.7 | 652.9 | 212.7 | 103.6 | 10.8 | 2,228.6 | 612.9 | 239.9 | 108.1 | 143.9 | 578.6 |
| III ... | 4,001.6 | 462.0 | 192.5 | 180.6 | 1,283.4 | 653.2 | 214.1 | 102.1 | 11.3 | 2,256.3 | 619.7 | 240.5 | 106.1 | 145.9 | 591.3 |
| IV ......... | 4,027.1 | 457.3 | 191.1 | 178.3 | 1,279.0 | 649.8 | 211.1 | 101.4 | 11.0 | 2,290.7 | 627.5 | 239.3 | 104.0 | 148.5 | 607.7 |
| 1992: 1 | 4,127.6 | 474.1 | 199.1 | 184.8 | 1,303.1 | 657.3 | 219.6 | 102.3 | 10.4 | 2,350.4 | 636.6 | 241.5 | 102.1 | 154.9 | 624.2 |
| II | 4,183.0 | 481.3 | 204.0 | 186.5 | 1,308.4 | 652.3 | 222.3 | 105.8 | 11.8 | 2,393.3 | 643.4 | 248.8 | 106.2 | 156.9 | 640.6 |
| III ... | 4,238.9 | 492.5 | 208.3 | 190.6 | 1,326.3 | 657.9 | 228.1 | 109.4 | 10.6 | 2,420.1 | 649.9 | 243.6 | 106.6 | 156.0 | 655.0 |
| IV ... | 4,329.6 | 506.2 | 216.1 | 195.5 | 1,349.5 | 672.3 | 232.1 | 108.9 | 10.8 | 2,473.9 | 657.4 | 259.0 | 111.4 | 164.5 | 666.8 |
| 1993: 1 | 4,367.8 | 508.3 | 214.2 | 198.3 | 1,354.1 | 676.5 | 230.6 | 110.6 | 10.9 | 2,505.3 | 663.7 | 260.8 | 113.2 | 166.7 | 681.9 |
| III... | 4,424.7 | 525.2 | 225.4 | 202.1 | 1,364.2 | 683.0 | 234.0 | 108.0 | 10.6 | 2,535.4 | 670.1 | 264.2 | 113.3 | 168.4 | 691.9 |
| III ......... | 4,481.0 | 536.7 | 228.3 | 207.7 | 1,371.4 | 687.9 | 236.7 | 106.6 | 10.6 | 2,572.9 | 675.9 | 273.6 | 118.6 | 170.0 | 702.9 |
| IV ... | 4,543.0 | 552.3 | 236.4 | 213.9 | 1,386.1 | 695.5 | 241.3 | 107.1 | 10.4 | 2,604.6 | 683.2 | 275.5 | 118.5 | 173.4 | 712.7 |
| 1994:I | 4,599.2 | 562.6 | 243.3 | 216.0 | 1,399.7 | 701.4 | 242.8 | 105.9 | 11.3 | 2,636.8 | 693.2 | 270.4 | 117.3 | 176.5 | 722.4 |
|  | 4,665.1 | 573.1 | 242.4 | 223.4 | 1,416.6 | 710.7 | 245.4 | 106.4 | 9.8 | 2,675.4 | 701.6 | 282.5 | 119.2 | 180.6 | 732.9 |
| III ... | 4,734.4 | 585.3 | 245.0 | 230.2 | 1,443.5 | 721.1 | 249.4 | 113.4 | 9.9 | 2,705.6 | 711.3 | 281.6 | 114.4 | 183.2 | 743.6 |
| IV ... | 4,796.0 | 602.7 | 250.7 | 237.6 | 1,459.0 | 729.5 | 253.8 | 113.9 | 9.3 | 2,734.4 | 720.3 | 281.2 | 111.6 | 185.0 | 757.5 |
| 1995: I .... | 4,836.3 | 593.0 | 240.6 | 237.1 | 1,471.6 | 738.4 | 252.8 | 116.2 | 9.5 | 2,771.7 | 729.8 | 286.3 | 113.6 | 187.1 | 771.0 |
| II .... | 4,908.7 | 604.0 | 248.3 | 239.2 | 1,486.9 | 744.6 | 254.3 | 118.3 | 10.4 | 2,817.9 | 739.0 | 293.7 | 118.2 | 191.6 | 779.5 |
| III ....... | 4,965.1 | 616.0 | 254.0 | 244.3 | 1,491.3 | 750.9 | 255.5 | 113.1 | 9.8 | 2,857.8 | 747.7 | 300.0 | 123.4 | 194.2 | 787.9 |

[^15]Table B-13.-Real personal consumption expenditures, 1959-95
[Billions of chained (1992) dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Personal con sumption expenditures | Durable goods |  |  | Nondurable goods |  |  |  |  | Services |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{1}$ | Motor vehicles and parts | Furniture and household equipment | Total ${ }^{1}$ | Food | Clothing and shoes | Gasoline and oil | Fuel oil and coal | Total ${ }^{1}$ | Housing ${ }^{2}$ | Household operation |  | Trans-por-tation | Medical care |
|  |  |  |  |  |  |  |  |  |  |  |  | Total ${ }^{1}$ | Electricity and gas |  |  |
| 1959 | 1,394.6 | 103. | 53.5 | 31.7 | 606.3 | 355.9 | 68.6 | 46.9 | 26.7 | 687.4 | 195.4 | 79.7 | 36.9 | 5.1 | 132.7 |
| 1960 | 1,432.6 | 105.2 | 56. | 31 | 615 | 358.7 | 69 | 48.5 | 25.6 | 717.4 | 205.6 | 83.5 | 38.9 | 56.9 | 136.7 |
| 1961 | 1,461.5 | 101.2 | 51.2 | 31.9 | 626.7 | 362.7 | 70.6 | 49.0 | 24.4 | 746.5 | 215.3 | 86.5 | 40.9 | 57.5 | 141.7 |
| 1962 | 1,533.8 | 113.0 | 60.8 | 33.9 | 646.5 | 367.3 | 73.7 | 51.1 | 24.3 | 783.4 | 227.4 | 90.7 | 43.7 | 59.7 | 153.3 |
| 1963 | 1,596.6 | 124.0 | 68.4 | 36.4 | 660.0 | 371.4 | 75.1 | 52.7 | 25.5 | 818.7 | 237.9 | 94.6 | 45.8 | 62.1 | 162.7 |
| 1964 | 1,692.3 | 135.5 | 72.4 | 41.1 | 692.5 | 386.3 | 81.0 | 55.5 | 26.5 | 868.4 | 249.0 | 99.2 | 48.3 | 65.4 | 180.5 |
| 1965 | 1,799.1 | 152.6 | 84.0 | 44.9 | 729.3 | 407.9 | 84.3 | 58.2 | 27.7 | 914.6 | 262.6 | 104.2 | 50.6 | 68.4 | 188.9 |
| 1966 | 1,902.0 | 165.5 | 85.5 | 50.7 | 769.2 | 424.7 | 90.0 | 61.8 | 28.5 | 961.0 | 274.6 | 109.8 | 53.4 | 72.7 | 197.6 |
| 1967 | 1,958.6 | 168.1 | 83.6 | 53.1 | 781.4 | 430.2 | 90.5 | 63.8 | 28.6 | 1,007.6 | 286.8 | 115.3 | 56.4 | 77.2 | 204.8 |
| 1968 | 2,070.2 | 186.6 | 97.2 | 56.5 | 816.9 | 450.9 | 94.3 | 68.2 | 27.0 | 1,059.6 | 300.9 | 119.9 | 59.4 | 81.9 | 220.8 |
| 1969 | 2,147.5 | 193.3 | 101.2 | 58.0 | 838.6 | 462.5 | 96.0 | 72.8 | 25.6 | 1,110.8 | 316.8 | 125.9 | 62.7 | 86.5 | 237.2 |
| 1970 | 2,197.8 | 187.0 | 91.2 | 58.6 | 859. | 477.2 | 94.8 | 77.3 | 23.8 | 1,155.4 | 329.3 | 130.2 | 65.4 | 89.1 | 250.8 |
| 1971 | 2,279.5 | 205.7 | 108.7 | 60.9 | 874.5 | 481.6 | 99.4 | 81.1 | 23.0 | 1,197.9 | 343.5 | 132.2 | 67.2 | 92.3 | 268.3 |
| 1972 | 2,415.9 | 231.9 | 124.3 | 67.5 | 912.9 | 496.8 | 106.1 | 84.4 | 25.3 | 1,262.5 | 361.5 | 138.9 | 70.8 | 98.1 | 286.4 |
| 1973 | 2,532.6 | 255.8 | 135.7 | 74.8 | 942.9 | 498.4 | 113.5 | 88.8 | 27.5 | 1,319.4 | 379.4 | 146.0 | 72.8 | 100.6 | 307.6 |
| 1974 | 2,514.7 | 238.2 | 112.5 | 75.6 | 924.5 | 490.6 | 111.9 | 84.4 | 21.7 | 1,351.2 | 399.1 | 147.5 | 73.7 | 101.1 | 320.2 |
| 1975 | 2,570.0 | 238.1 | 113.2 | 73.9 | 938. | 502.6 | 115.7 | 86.9 | 21.3 | 1,398.3 | 410.6 | 154.6 | 77.8 | 103.0 | 337.3 |
| 1976 | 2,714.3 | 268.5 | 136.8 | 78.8 | 984.8 | 529.4 | 121.2 | 90.4 | 23.9 | 1,457.1 | 422.9 | 161.4 | 80.5 | 107.3 | 353.5 |
| 1977 | 2,829.8 | 293.4 | 151.5 | 85.5 | 1,010.4 | 541.2 | 127.8 | 93.2 | 23.1 | 1,518.2 | 433.3 | 170.3 | 84.4 | 114.8 | 371.2 |
| 1978 | 2,951.6 | 308.8 | 158.0 | 90.5 | 1,045.7 | 545.7 | 139.9 | 95.3 | 23.0 | 1,589.3 | 454.5 | 178.6 | 87.6 | 118.0 | 385.7 |
| 1979 | 3,020.2 | 307.3 | 147.4 | 95.4 | 1,069.7 | 555.1 | 145.8 | 94.0 | 21.3 | 1,639.8 | 472.7 | 183.3 | 88.3 | 121.7 | 401.1 |
| 1980 | 3,009.7 | 282.6 | 127.5 | 93.5 | 1,065.1 | 558.7 | 148.1 | 88.6 | 16.5 | 1,670.7 | 486.6 | 187.4 | 90.7 | 115.6 | 415.5 |
| 1981 | 3,046.4 | 285.8 | 130.5 | 93.5 | 1,074.3 | 557.9 | 156.0 | 89.9 | 13.8 | 1,696.1 | 497.8 | 185.9 | 89.4 | 111.7 | 436.4 |
| 1982 | 3,081.5 | 285.5 | 133.9 | 91.3 | 1,080.6 | 565.1 | 157.1 | 91.0 | 12.8 | 1,728.2 | 500.9 | 187.0 | 90.3 | 109.9 | 442.2 |
| 1983 | 3,240.6 | 327.4 | 160.5 | 103.5 | 1,112.4 | 579.7 | 167.3 | 93.0 | 12.9 | 1,809.0 | 511.8 | 193.0 | 93.0 | 117.0 | 459.7 |
| 1984 | 3,407.6 | 374.9 | 187.7 | 115.5 | 1,151.8 | 589.9 | 179.9 | 95.9 | 12.8 | 1,883.0 | 531.8 | 197.7 | 93.6 | 128.6 | 472.4 |
| 1985 | 3,566.5 | 411.4 | 211.2 | 125.3 | 1,178.3 | 602.2 | 186.5 | 97.8 | 13.0 | 1,977.3 | 551.1 | 205.6 | 96.1 | 140.6 | 490.7 |
| 1986 | 3,708.7 | 448.4 | 224.8 | 140.6 | 1,215.9 | 614.0 | 199.9 | 102.5 | 13.4 | 2,041.4 | 565.5 | 209.8 | 95.1 | 145.7 | 510.3 |
| 1987 | 3,822.3 | 454.9 | 216.2 | 149.9 | 1,239.3 | 620.8 | 205.4 | 105.3 | 13.0 | 2,126.9 | 583.4 | 219.4 | 98.4 | 151.0 | 537.3 |
| 1988 | 3,972.7 | 483.5 | 229.4 | 160.8 | 1,274.4 | 641.6 | 210.0 | 106.5 | 13.2 | 2,212.4 | 600.9 | 229.2 | 103.4 | 159.0 | 561.3 |
| 1989 | 4,064.6 | 496.2 | 230.3 | 170.9 | 1,303.5 | 650.1 | 220.7 | 108.1 | 12.6 | 2,262.3 | 614.6 | 237.6 | 105.6 | 160.8 | 575.8 |
| 1990 | 4,132.2 | 493.3 | 224.3 | 173.5 | 1,316.1 | 662.9 | 217.9 | 107.3 | 11.2 | 2,321.3 | 627.2 | 240.1 | 103.7 | 159.9 | 602.8 |
| 1991 | 4,105.8 | 462.0 | 193.2 | 177.0 | 1,302.9 | 659.6 | 215.9 | 103.4 | 10.8 | 2,341.0 | 635.2 | 243.4 | 107.0 | 152.3 | 621.6 |
| 1992 | 4,219.8 | 488.5 | 206.9 | 189.4 | 1,321.8 | 660.0 | 225.5 | 106.6 | 10.9 | 2,409.4 | 646.8 | 248.2 | 106.6 | 158.1 | 646.6 |
| 1993 | 4,339.7 | 524.1 | 218.6 | 208.4 | 1,348.9 | 674.3 | 233.3 | 109.1 | 10.7 | 2,466.8 | 655.0 | 261.2 | 112.4 | 162.6 | 658.8 |
| 1994 ... | 4,471.1 | 562.0 | 228.2 | 230.1 | 1,390.5 | 689.1 | 247.2 | 110.4 | 10.3 | 2,519.4 | 668.2 | 266.0 | 111.5 | 171.3 | 668.8 |
| 1990: 1 | 4,128.9 | 511.2 | 237.6 | 176.0 | 1,319.2 | 659.0 | 221.5 | 109.3 | 10.7 | 2,295.7 | 623.4 | 233.7 | 98.6 | 161.7 | 591.9 |
|  | 4,134.7 | 495.4 | 226.4 | 173.9 | 1,316.9 | 664.2 | 217.3 | 107.5 | 11.8 | 2,321.1 | 626.3 | 241.3 | 104.8 | 160.9 | 600.7 |
|  | 4,148.5 | 490.4 | 223.1 | 172.5 | 1,319.8 | 665.5 | 217.6 | 107.4 | 12.3 | 2,337.3 | 628.5 | 243.7 | 106.2 | 159.7 | 608.0 |
| IV | 4,116.4 | 476.3 | 210.0 | 171.5 | 1,308.4 | 662.9 | 215.1 | 104.9 | 9.9 | 2,331.2 | 630.6 | 241.9 | 105.3 | 157.3 | 610.6 |
| 1991: | 4,084.5 | 458.6 | 191.4 | 173.0 | 1,300.6 | 658.7 | 214.0 | 103.3 | 10.4 | 2,325.3 | 631.6 | 238.2 | 103.5 | 152.6 | 614.3 |
|  | 4,110.0 | 460.5 | 189.6 | 177.7 | 1,308.0 | 661.5 | 218.9 | 104.0 | 10.8 | 2,341.5 | 634.1 | 246.9 | 110.9 | 152.1 | 617.9 |
| III. | 4,119.5 | 467.3 | 197.2 | 179.2 | 1,307.1 | 661.6 | 217.5 | 103.8 | 11.4 | 2,345.0 | 636.4 | 246.1 | 108.5 | 151.8 | 623.3 |
| IV .. | 4,109.1 | 461.5 | 194.6 | 178.0 | 1,295.7 | 656.5 | 213.1 | 102.5 | 10.6 | 2,352.0 | 638.6 | 242.5 | 105.1 | 152.6 | 630.8 |
| 1992: 1 | 4,173.8 | 476.1 | 201.7 | 183.7 | 1,314.4 | 661.0 | 220.4 | 104.8 | 10.5 | 2,383.2 | 642.6 | 243.6 | 103.2 | 155.4 | 638.2 |
|  | 4,196.4 | 481.1 | 204.5 | 186.0 | 1,312.0 | 653.9 | 223.2 | 106.1 | 11.9 | 2,403.2 | 645.5 | 249.9 | 106.8 | 156.7 | 645.9 |
| III. | 4,226.7 | 491.9 | 207.4 | 191.3 | 1,321.1 | 656.4 | 227.7 | 108.2 | 10.5 | 2,413.6 | 648.5 | 243.3 | 106.6 | 160.5 | 650.3 |
| IV ... | 4,282.3 | 505.0 | 213.9 | 196.4 | 1,339.8 | 668.6 | 230.9 | 107.3 | 10.7 | 2,437.6 | 650.6 | 256.1 | 109.7 | 159.6 | 652.2 |
| 1993: 1 | 4,290.0 | 506.0 | 210.8 | 200.8 | 1,336.9 | 670.5 | 227.4 | 108.2 | 10.9 | 2,447.0 | 652.2 | 257.0 | 111.6 | 160.6 | 656.6 |
|  | 4,319.0 | 519.6 | 219.0 | 205.1 | 1,344.7 | 672.9 | 232.3 | 108.0 | 10.6 | 2,454.9 | 653.5 | 258.0 | 110.0 | 161.5 | 657.5 |
| III.. | 4,359.7 | 528.9 | 219.1 | 211.0 | 1,354.2 | 675.7 | 235.0 | 110.9 | 10.7 | 2,476.7 | 655.9 | 264.9 | 114.1 | 162.8 | 659.7 |
| IV ... | 4,390.0 | 541.9 | 225.4 | 216.8 | 1,359.8 | 677.9 | 238.6 | 109.3 | 10.6 | 2,488.6 | 658.5 | 265.0 | 113.7 | 165.7 | 661.4 |
| 1994: 1 | 4,418.8 | 549.6 | 230.3 | 219.0 | 1,372.7 | 682.2 | 241.1 | 108.8 | 11.4 | 2,497.0 | 662.1 | 258.8 | 112.9 | 168.2 | 663.2 |
|  | 4,457.7 | 555.4 | 226.7 | 226.1 | 1,383.7 | 688.5 | 243.3 | 109.5 | 10.0 | 2,519.0 | 666.1 | 269.8 | 115.1 | 170.3 | 667.6 |
| III ... | 4,485.8 | 563.0 | 226.4 | 232.5 | 1,397.2 | 690.6 | 249.0 | 111.6 | 10.2 | 2,526.3 | 670.7 | 268.1 | 110.4 | 172.1 | 670.4 |
| IV .... | 4,522.3 | 579.9 | 229.4 | 242.7 | 1,408.4 | 695.1 | 255.5 | 111.6 | 9.6 | 2,535.1 | 674.1 | 267.1 | 107.6 | 174.5 | 674.2 |
| 1995: \| | 4,530.9 | 566.9 | 216.2 | 243.3 | 1,416.8 | 700.7 | 254.6 | 113.4 | 9.9 | 2,548.1 | 677.4 | 270.1 | 109.4 | 175.7 | 677.8 |
| II ........... | 4,568.8 | 576.6 | 220.7 | 247.5 | 1,423.5 | 701.6 | 258.0 | 113.6 | 10.6 | 2,569.6 | 680.0 | 277.3 | 114.3 | 175.9 | 681.3 |
| III .......... | 4,601.1 | 589.8 | 226.1 | 254.9 | 1,425.3 | 703.9 | 258.9 | 112.5 | 10.0 | 2,586.9 | 682.9 | 282.0 | 118.7 | 176.4 | 686.1 |

[^16]Table B-14.—Private gross fixed investment by type, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Private fixed investment | Nonresidential |  |  |  |  |  |  |  |  |  |  | Resi-dential |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total <br> non- <br> resi- <br> dential | Structures |  |  |  | Producers' durable equipment |  |  |  |  |  |  |
|  |  |  | Total ${ }^{1}$ | Non-residential buildings including farm | Utilities | Mining exploration, shafts, and wells | Total ${ }^{1}$ | Information processing and related equipment |  |  | Industrial equipment | Trans-portation and related equipment |  |
|  |  |  |  |  |  |  |  | Total | Computers and peripheral equipment ${ }^{2}$ | Other |  |  |  |
| 1959 | 74.6 | 46.5 | 18.1 | 10.6 | 4.9 | 2.5 | 28.3 | 4.0 | 0.0 | 4.0 | 8.4 | 8.3 | 28.1 |
| 1960 ... | 75.5 | 49.2 | 19.6 | 12.0 | 5.0 | 2.3 | 29.7 | 4.7 | . 2 | 4.5 | 9.3 | 8.5 | 26.3 |
| 1961 ..... | 75.0 | 48.6 | 19.7 | 12.7 | 4.6 | 2.3 | 28.9 | 5.1 | . 3 | 4.8 | 8.7 | 8.0 | 26.4 |
| 1962 ..... | 81.8 | 52.8 | 20.8 | 13.7 | 4.6 | 2.5 | 32.1 | 5.4 | . 3 | 5.1 | 9.2 | 9.8 | 29.0 |
| 1963 | 87.7 | 55.6 | 21.2 | 13.9 | 5.0 | 2.3 | 34.4 | 6.1 | . 7 | 5.3 | 10.0 | 9.4 | 32.1 |
| 1964 ... | 96.7 | 62.4 | 23.7 | 15.8 | 5.4 | 2.4 | 38.7 | 6.8 | . 9 | 5.8 | 11.4 | 10.6 | 34.3 |
| 1965 | 108.3 | 74.1 | 28.3 | 19.5 | 6.1 | 2.4 | 45.8 | 7.8 | 1.2 | 6.6 | 13.6 | 13.2 | 34.2 |
| 1966 | 116.7 | 84.4 | 31.3 | 21.3 | 7.1 | 2.5 | 53.0 | 9.6 | 1.7 | 7.9 | 16.1 | 14.5 | 32.3 |
| 1967 | 117.6 | 85.2 | 31.5 | 20.6 | 7.8 | 2.4 | 53.7 | 10.0 | 1.9 | 8.1 | 16.8 | 14.3 | 32.4 |
| 1968 | 130.8 | 92.1 | 33.6 | 21.1 | 9.2 | 2.6 | 58.5 | 10.6 | 1.9 | 8.6 | 17.2 | 17.6 | 38.7 |
| 1969 ... | 145.5 | 102.9 | 37.7 | 24.4 | 9.6 | 2.8 | 65.2 | 12.9 | 2.4 | 10.4 | 18.9 | 18.9 | 42.6 |
| 1970 | 148.1 | 106.7 | 40.3 | 25.4 | 11.1 | 2.8 | 66.4 | 14.3 | 2.7 | 11.6 | 20.2 | 16.2 | 41.4 |
| 1971 ... | 167.5 | 111.7 | 42.7 | 27.1 | 11.9 | 2.7 | 69.1 | 14.9 | 2.8 | 12.1 | 19.4 | 18.4 | 55.8 |
| 1972 ... | 195.7 | 126.1 | 47.2 | 30.1 | 13.1 | 3.1 | 78.9 | 16.5 | 3.5 | 13.1 | 21.3 | 21.8 | 69.7 |
| 1973 ... | 225.4 | 150.0 | 55.0 | 35.5 | 15.0 | 3.5 | 95.1 | 19.8 | 3.5 | 16.3 | 25.9 | 26.6 | 75.3 |
| 1974 ..... | 231.5 | 165.6 | 61.2 | 38.3 | 16.5 | 5.2 | 104.3 | 22.9 | 3.9 | 19.0 | 30.5 | 26.3 | 66.0 |
| 1975 | 231.7 | 169.0 | 61.4 | 35.6 | 17.1 | 7.4 | 107.6 | 23.5 | 3.6 | 19.9 | 31.1 | 25.2 | 62.7 |
| 1976 .... | 269.6 | 187.2 | 65.9 | 35.9 | 20.0 | 8.6 | 121.2 | 27.2 | 4.4 | 22.8 | 33.9 | 30.0 | 82.5 |
| 1977 ... | 333.5 | 223.2 | 74.6 | 39.9 | 21.5 | 11.5 | 148.7 | 33.1 | 5.7 | 27.5 | 39.2 | 39.3 | 110.3 |
| 1978 ... | 403.6 | 272.0 | 91.4 | 49.7 | 24.1 | 15.4 | 180.6 | 41.8 | 7.6 | 34.2 | 47.4 | 47.3 | 131.6 |
| 1979 ....... | 464.0 | 323.0 | 114.9 | 65.7 | 27.5 | 19.0 | 208.1 | 49.9 | 10.2 | 39.8 | 55.8 | 53.6 | 141.0 |
| 1980 | 473.5 | 350.3 | 133.9 | 73.7 | 30.2 | 27.4 | 216.4 | 58.9 | 12.5 | 46.4 | 60.4 | 48.4 | 123.2 |
| 1981 ... | 528.1 | 405.4 | 164.6 | 86.3 | 33.0 | 42.5 | 240.9 | 69.5 | 17.1 | 52.3 | 65.2 | 50.6 | 122.6 |
| 1982 ... | 515.6 | 409.9 | 175.0 | 94.5 | 32.5 | 44.8 | 234.9 | 72.7 | 18.9 | 53.9 | 62.2 | 46.8 | 105.7 |
| 1983 ... | 552.0 | 399.4 | 152.7 | 90.5 | 28.7 | 30.0 | 246.7 | 82.0 | 23.9 | 58.1 | 58.2 | 53.7 | 152.5 |
| 1984 .... | 648.1 | 468.3 | 176.0 | 110.0 | 30.0 | 31.3 | 292.3 | 98.6 | 31.6 | 67.0 | 67.4 | 64.8 | 179.8 |
| 1985 | 688.9 | 502.0 | 193.3 | 128.0 | 30.6 | 27.9 | 308.7 | 104.2 | 33.7 | 70.5 | 71.7 | 69.7 | 186.9 |
| 1986 | 712.9 | 494.8 | 175.8 | 123.3 | 31.2 | 15.7 | 319.0 | 108.8 | 33.4 | 75.4 | 74.6 | 71.8 | 218.1 |
| 1987 .. | 722.9 | 495.4 | 172.1 | 126.0 | 26.5 | 13.1 | 323.3 | 109.8 | 35.8 | 74.0 | 75.9 | 70.4 | 227.6 |
| 1988 ... | 763.1 | 530.6 | 181.3 | 133.3 | 27.1 | 15.7 | 349.3 | 118.2 | 38.1 | 80.1 | 82.9 | 76.0 | 232.5 |
| 1989 ... | 797.5 | 566.2 | 192.3 | 142.7 | 29.4 | 14.4 | 373.9 | 127.1 | 43.3 | 83.8 | 91.5 | 71.2 | 231.3 |
| 1990. | 791.6 | 575.9 | 200.8 | 148.9 | 27.5 | 17.5 | 375.1 | 124.2 | 38.9 | 85.2 | 89.8 | 75.5 | 215.7 |
| 1991 .... | 738.5 | 547.3 | 181.7 | 126.1 | 31.6 | 17.1 | 365.6 | 122.6 | 38.1 | 84.5 | 86.4 | 79.5 | 191.2 |
| 1992 .... | 783.4 | 557.9 | 169.2 | 113.2 | 34.5 | 13.3 | 388.7 | 134.2 | 43.9 | 90.2 | 89.3 | 86.2 | 225.6 |
| 1993 ... | 850.5 | 598.8 | 171.8 | 116.6 | 32.0 | 15.6 | 427.0 | 141.8 | 48.7 | 93.0 | 97.6 | 99.2 | 251.7 |
| 1994 ....... | 954.9 | 667.2 | 180.2 | 126.2 | 33.7 | 13.5 | 487.0 | 160.4 | 54.5 | 106.0 | 109.7 | 117.1 | 287.7 |
| 1990: $1 . .$. | 813.9 | 581.2 | 201.9 | 150.8 | 27.0 | 16.8 | 379.3 | 127.8 | 41.3 | 86.5 | 91.7 | 74.0 | 232.7 |
| II... | 794.0 | 571.6 | 202.4 | 151.2 | 27.0 | 17.6 | 369.2 | 123.9 | 38.9 | 85.0 | 88.9 | 71.4 | 222.4 |
| III .. | 791.2 | 580.3 | 203.5 | 151.4 | 27.5 | 17.6 | 376.7 | 121.5 | 36.8 | 84.7 | 90.3 | 78.5 | 210.9 |
| IV .. | 767.5 | 570.6 | 195.4 | 142.1 | 28.4 | 18.1 | 375.1 | 123.4 | 38.6 | 84.7 | 88.1 | 78.3 | 196.9 |
| 1991: \| .... | 739.7 | 555.4 | 192.3 | 136.4 | 30.0 | 19.4 | 363.1 | 119.3 | 36.7 | 82.7 | 87.8 | 78.1 | 184.3 |
| 1. ${ }^{\text {I .... }}$ | 736.2 | 550.2 | 187.6 | 130.9 | 31.3 | 18.9 | 362.6 | 121.6 | 37.2 | 84.5 | 86.4 | 77.3 | 185.9 |
| III .. | 738.6 | 544.3 | 176.1 | 121.4 | 32.3 | 15.2 | 368.2 | 123.5 | 37.8 | 85.6 | 86.3 | 81.9 | 194.3 |
| IV .. | 739.5 | 539.2 | 170.8 | 115.7 | 33.0 | 15.0 | 368.4 | 125.9 | 40.7 | 85.2 | 85.2 | 80.6 | 200.3 |
| 1992: I .... | 755.4 | 544.1 | 171.6 | 117.2 | 34.3 | 12.8 | 372.5 | 129.2 | 41.9 | 87.3 | 86.2 | 79.5 | 211.3 |
| II... | 780.5 | 556.8 | 170.4 | 114.0 | 34.8 | 13.3 | 386.3 | 133.0 | 44.4 | 88.6 | 87.7 | 87.8 | 223.7 |
| III .. | 788.1 | 561.0 | 167.6 | 110.6 | 34.7 | 13.3 | 393.4 | 137.7 | 44.6 | 93.1 | 90.5 | 85.5 | 227.1 |
| IV .. | 809.7 | 569.6 | 167.1 | 111.0 | 34.2 | 13.8 | 402.5 | 136.8 | 44.9 | 91.9 | 92.8 | 91.9 | 240.1 |
| 1993: I .... | 823.8 | 580.3 | 170.2 | 113.6 | 32.8 | 15.8 | 410.1 | 136.8 | 47.2 | 89.6 | 94.3 | 94.0 | 243.5 |
| II... | 834.3 | 591.1 | 169.7 | 113.8 | 31.9 | 16.0 | 421.3 | 137.9 | 46.8 | 91.0 | 95.6 | 100.9 | 243.2 |
| III .. | 851.8 | 599.2 | 171.4 | 117.1 | 31.7 | 15.5 | 427.7 | 144.5 | 49.7 | 94.8 | 97.8 | 97.0 | 252.6 |
| IV .. | 892.3 | 624.6 | 175.8 | 121.8 | 31.7 | 15.1 | 448.8 | 148.0 | 51.2 | 96.8 | 102.8 | 105.1 | 267.7 |
| 1994:I.... | 917.4 | 638.8 | 171.8 | 118.7 | 32.3 | 14.4 | 467.0 | 152.5 | 52.1 | 100.4 | 105.4 | 113.0 | 278.5 |
| II... | 942.0 | 653.5 | 179.1 | 125.3 | 33.0 | 14.1 | 474.4 | 157.7 | 53.7 | 104.0 | 107.6 | 110.5 | 288.5 |
| III .. | 968.9 | 678.5 | 181.0 | 126.4 | 34.2 | 13.0 | 497.5 | 161.6 | 54.4 | 107.2 | 111.3 | 122.9 | 290.4 |
| IV .. | 991.4 | 697.9 | 188.8 | 134.4 | 35.2 | 12.4 | 509.1 | 169.9 | 57.7 | 112.2 | 114.6 | 122.1 | 293.5 |
| 1995: I .... | 1,013.9 | 723.6 | 194.5 | 137.9 | 36.3 | 13.2 | 529.0 | 174.6 | 58.4 | 116.2 | 120.4 | 127.2 | 290.4 |
| II ... | 1,016.3 | 734.4 | 197.6 | 140.3 | 37.9 | 11.5 | 536.8 | 183.3 | 62.8 | 120.6 | 126.9 | 121.0 | 281.9 |
| III .. | 1,036.5 | 746.3 | 202.3 | 143.9 | 39.4 | 11.9 | 544.0 | 183.1 | 63.3 | 119.7 | 125.8 | 128.6 | 290.2 |

${ }^{1}$ Includes other items, not shown separately.
${ }^{2}$ Includes new computers and peripheral equipment only.
Source: Department of Commerce, Bureau of Economic Analysis.

Table B-15.-R $\begin{aligned} & \text { ©l private gross fixed investment by type, 1959-95 }\end{aligned}$
[Billions of chained (1992) dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Private fixed investment | Nonresidential |  |  |  |  |  |  |  |  |  |  | Resi-dential |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total non-residential | Structures |  |  |  | Producers' durable equipment |  |  |  |  |  |  |
|  |  |  | Total ${ }^{1}$ | Non-residential buildings including farm | Utilities | Mining exploration, shafts, and wells | Total ${ }^{1}$ | Information processing and related equipment |  |  | Industrial equipment | Transportation and related equipment |  |
|  |  |  |  |  |  |  |  | Total | Computers and peripheral equipment ${ }^{2}$ | Other |  |  |  |
| 1959 | 267.1 | 147.7 | 85.8 | 52.4 | 20.2 | 11.0 | 71.4 | 2.5 |  | 9.8 | 38.8 | 28.0 | 131.1 |
| 1960 ... | 269.2 | 155.9 | 92.6 | 59.9 | 20.4 | 10.3 | 74.3 | 3.0 |  | 11.1 | 41.9 | 28.8 | 121.8 |
| 1961 ....... | 267.9 | 154.5 | 93.9 | 63.3 | 18.9 | 10.5 | 72.5 | 3.2 |  | 11.8 | 39.7 | 27.0 | 122.2 |
| 1962 ..... | 292.0 | 168.0 | 98.1 | 67.4 | 19.0 | 11.0 | 81.0 | 3.6 |  | 12.5 | 41.8 | 33.4 | 133.9 |
| 1963 .. | 313.7 | 176.4 | 99.2 | 67.5 | 20.4 | 10.4 | 87.1 | 4.1 |  | 13.0 | 45.1 | 32.1 | 149.6 |
| 1964 ..... | 343.7 | 197.1 | 109.5 | 75.0 | 22.2 | 11.1 | 98.1 | 4.6 |  | 14.1 | 51.0 | 36.3 | 158.3 |
| 1965 .. | 378.5 | 231.3 | 126.9 | 89.4 | 24.4 | 11.0 | 115.9 | 5.5 |  | 16.0 | 60.2 | 45.5 | 153.7 |
| 1966 .. | 399.1 | 259.4 | 135.6 | 94.2 | 27.8 | 10.4 | 133.8 | 7.1 |  | 18.9 | 69.2 | 50.1 | 140.0 |
| 1967 .. | 391.0 | 255.3 | 132.2 | 88.7 | 29.8 | 9.9 | 132.5 | 7.5 |  | 18.9 | 69.5 | 48.4 | 135.6 |
| 1968 .. | 418.1 | 266.4 | 134.1 | 86.2 | 33.3 | 10.0 | 140.5 | 8.0 |  | 19.5 | 68.1 | 58.2 | 154.0 |
| 1969 ....... | 442.9 | 285.6 | 141.3 | 92.7 | 33.4 | 10.4 | 152.2 | 9.7 | 0.1 | 22.8 | 72.6 | 60.5 | 158.6 |
| 1970. | 432.1 | 282.8 | 141.7 | 91.1 | 35.7 | 9.8 | 149.5 | 10.7 | . 1 | 24.5 | 73.7 | 49.7 | 149.1 |
| 1971 ... | 464.9 | 282.4 | 139.4 | 89.4 | 36.1 | 9.1 | 150.7 | 11.4 | . 1 | 24.7 | 67.7 | 53.6 | 190.0 |
| 1972 ... | 520.3 | 307.7 | 143.7 | 91.8 | 37.6 | 9.7 | 169.8 | 12.9 | . 2 | 26.0 | 73.0 | 62.3 | 223.7 |
| 1973 ....... | 567.5 | 352.5 | 155.4 | 100.3 | 40.0 | 10.4 | 201.2 | 15.4 | . 2 | 31.7 | 86.2 | 75.0 | 222.3 |
| 1974 ....... | 530.2 | 354.4 | 152.2 | 97.6 | 37.6 | 12.3 | 205.4 | 17.5 | . 2 | 34.8 | 92.8 | 67.9 | 176.4 |
| 1975 | 471.0 | 317.3 | 136.2 | 82.5 | 34.4 | 14.4 | 183.9 | 16.9 | . 2 | 33.3 | 78.6 | 58.4 | 153.5 |
| 1976 ..... | 517.6 | 332.6 | 139.6 | 80.6 | 38.0 | 15.6 | 195.2 | 19.4 | . 3 | 36.6 | 79.0 | 65.0 | 189.7 |
| 1977 ..... | 593.7 | 371.8 | 146.4 | 83.6 | 38.2 | 18.0 | 225.6 | 24.1 | . 5 | 43.8 | 83.6 | 79.1 | 229.8 |
| 1978 ....... | 660.8 | 422.6 | 162.3 | 95.3 | 40.0 | 20.0 | 259.6 | 31.7 | 1.0 | 52.4 | 93.0 | 87.3 | 245.0 |
| 1979 ....... | 695.6 | 463.3 | 182.7 | 113.5 | 41.3 | 21.3 | 280.7 | 38.6 | 1.5 | 59.5 | 99.8 | 91.0 | 236.0 |
| 1980 .. | 648.4 | 461.1 | 195.0 | 114.4 | 41.2 | 30.0 | 268.2 | 45.4 | 2.4 | 64.9 | 95.5 | 74.2 | 186.1 |
| 1981 .... | 660.6 | 485.7 | 210.4 | 122.8 | 42.0 | 34.9 | 278.2 | 52.5 | 3.8 | 68.5 | 94.1 | 72.0 | 171.2 |
| 1982 ... | 610.4 | 464.3 | 207.2 | 126.6 | 39.5 | 32.2 | 260.3 | 54.5 | 4.7 | 67.0 | 85.5 | 63.7 | 140.1 |
| 1983 .... | 654.2 | 456.4 | 185.7 | 117.6 | 34.2 | 26.7 | 272.4 | 63.4 | 7.1 | 70.4 | 78.5 | 71.7 | 197.6 |
| 1984 ....... | 762.4 | 535.4 | 212.2 | 137.6 | 35.4 | 30.3 | 324.6 | 79.8 | 11.6 | 79.0 | 89.9 | 85.1 | 226.4 |
| 1985 .. | 799.3 | 568.4 | 227.8 | 155.2 | 35.6 | 27.0 | 342.4 | 88.0 | 14.5 | 81.9 | 94.1 | 88.4 | 229.5 |
| 1986 .... | 805.0 | 548.5 | 203.3 | 144.5 | 36.5 | 15.8 | 345.9 | 94.1 | 16.7 | 84.6 | 93.5 | 85.6 | 257.0 |
| 1987 ..... | 799.4 | 542.4 | 195.9 | 142.4 | 30.7 | 15.5 | 346.9 | 97.5 | 21.0 | 80.2 | 91.1 | 82.1 | 257.6 |
| 1988 ....... | 818.3 | 566.0 | 196.8 | 145.3 | 30.0 | 15.8 | 369.2 | 106.6 | 24.0 | 85.7 | 95.3 | 87.1 | 252.5 |
| 1989 ....... | 832.0 | 588.8 | 201.2 | 150.2 | 30.9 | 13.9 | 387.6 | 116.2 | 29.4 | 88.1 | 101.5 | 78.9 | 243.2 |
| 1990 .. | 805.8 | 585.2 | 203.3 | 152.0 | 28.1 | 16.1 | 381.9 | 116.2 | 29.4 | 88.2 | 95.0 | 81.2 | 220.6 |
| 1991 ....... | 741.3 | 547.7 | 181.6 | 126.9 | 32.0 | 15.7 | 366.2 | 117.8 | 32.4 | 85.9 | 88.3 | 81.7 | 193.4 |
| 1992 ....... | 783.4 | 557.9 | 169.2 | 113.2 | 34.5 | 13.3 | 388.7 | 134.2 | 43.9 | 90.2 | 89.3 | 86.2 | 225.6 |
| 1993 ....... | 836.4 | 593.6 | 166.3 | 112.8 | 31.1 | 14.8 | 427.6 | 147.1 | 56.2 | 91.5 | 96.3 | 97.5 | 242.7 |
| 1994 ....... | 921.1 | 652.1 | 168.8 | 117.7 | 31.7 | 12.6 | 484.1 | 170.4 | 69.3 | 102.6 | 105.9 | 111.7 | 268.9 |
| 1990: I .... | 834.7 | 595.3 | 206.5 | 155.4 | 27.7 | 15.8 | 388.8 | 119.2 | 30.6 | 89.8 | 98.6 | 80.3 | 239.4 |
| II... | 811.2 | 583.4 | 205.5 | 154.7 | 27.6 | 16.3 | 377.8 | 116.1 | 29.3 | 88.2 | 94.8 | 77.4 | 227.8 |
| III .. | 803.1 | 588.1 | 205.2 | 153.8 | 28.1 | 16.1 | 383.0 | 113.8 | 27.9 | 87.6 | 95.1 | 84.3 | 214.9 |
| IV .. | 774.4 | 573.9 | 196.0 | 143.8 | 28.9 | 16.3 | 377.9 | 115.7 | 29.9 | 87.1 | 91.4 | 82.8 | 200.3 |
| 1991: I .... | 742.6 | 555.1 | 192.2 | 137.6 | 30.4 | 17.3 | 362.9 | 112.5 | 29.2 | 84.3 | 89.7 | 81.2 | 187.4 |
| II... | 739.4 | 550.9 | 187.2 | 131.7 | 31.7 | 17.0 | 363.8 | 116.2 | 30.8 | 86.2 | 88.7 | 79.9 | 188.3 |
| III .. | 741.0 | 545.3 | 175.5 | 121.7 | 32.6 | 14.0 | 369.8 | 119.7 | 33.2 | 87.1 | 88.4 | 83.9 | 195.6 |
| IV | 742.0 | 539.5 | 171.4 | 116.4 | 33.3 | 14.4 | 368.1 | 122.5 | 36.6 | 86.2 | 86.4 | 81.6 | 202.4 |
| 1992: I .... | 758.3 | 544.4 | 172.7 | 118.1 | 34.6 | 12.7 | 371.7 | 126.7 | 39.2 | 87.7 | 86.8 | 79.9 | 213.9 |
| II ... | 782.4 | 557.5 | 171.0 | 114.4 | 34.8 | 13.3 | 386.4 | 132.4 | 43.4 | 88.9 | 88.1 | 87.9 | 224.9 |
| III.. | 787.3 | 560.6 | 167.4 | 110.4 | 34.6 | 13.4 | 393.1 | 138.6 | 45.7 | 92.8 | 89.8 | 85.4 | 226.7 |
| IV . | 805.8 | 569.1 | 165.6 | 109.8 | 33.9 | 13.7 | 403.5 | 138.9 | 47.5 | 91.5 | 92.6 | 91.5 | 236.7 |
| 1993: I .... | 815.4 | 577.5 | 167.0 | 111.4 | 32.4 | 15.2 | 410.5 | 139.5 | 51.1 | 88.6 | 93.7 | 93.0 | 237.9 |
| II... | 821.1 | 586.4 | 164.8 | 110.6 | 31.0 | 15.2 | 421.7 | 142.2 | 52.9 | 89.6 | 94.4 | 99.5 | 234.8 |
| III .. | 835.4 | 593.1 | 165.1 | 112.7 | 30.7 | 14.6 | 428.2 | 150.7 | 58.3 | 93.1 | 96.3 | 95.0 | 242.2 |
| IV | 873.5 | 617.6 | 168.2 | 116.3 | 30.5 | 14.2 | 449.8 | 156.0 | 62.5 | 94.6 | 100.7 | 102.7 | 255.8 |
| 1994:I .... | 892.4 | 628.6 | 163.0 | 112.4 | 30.7 | 13.4 | 466.5 | 161.2 | 64.6 | 97.8 | 102.8 | 109.0 | 263.6 |
| II ... | 911.4 | 639.5 | 169.0 | 117.8 | 31.2 | 13.3 | 471.2 | 166.6 | 67.1 | 100.8 | 104.3 | 105.3 | 271.6 |
| III .. | 930.8 | 660.4 | 169.1 | 117.4 | 32.1 | 12.2 | 492.4 | 171.5 | 69.3 | 103.6 | 107.0 | 115.9 | 270.3 |
| IV | 949.7 | 679.7 | 174.3 | 123.3 | 32.7 | 11.5 | 506.4 | 182.5 | 76.3 | 108.3 | 109.4 | 116.5 | 270.3 |
| 1995: I .... | 969.6 | 704.4 | 178.5 | 125.4 | 33.7 | 12.5 | 527.1 | 189.2 | 80.2 | 111.5 | 114.2 | 121.7 | 265.9 |
| II ... | 966.1 | 710.6 | 180.0 | 126.8 | 34.8 | 10.7 | 531.9 | 199.9 | 88.2 | 115.1 | 118.4 | 114.8 | 256.6 |
| III .. | 980.6 | 719.8 | 182.4 | 129.2 | 35.6 | 11.0 | 538.6 | 202.0 | 92.1 | 114.0 | 116.7 | 120.5 | 261.8 |

[^17]Table B-16.-G overnment consumption expenditures and gross investment by type, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Government consumption expenditures and gross investment |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Federal |  |  |  |  |  |  |  |  | State and local |  |  |  |
|  |  | Total | National defense |  |  |  | Nondefense |  |  |  | Total | Con-sumption ex-penditures | Gross investment |  |
|  |  |  | Total | Con-sumption ex-penditures | Gross investment |  | Total | Con-sumption ex-penditures | Gross investment |  |  |  |  |  |
|  |  |  |  |  | Structures | Equipment |  |  | Structures | Equipment |  |  | tures | ment |
| 1959 | 112.0 | 67.2 | 55.7 | 42.0 | 2.5 | 11.2 | 11.5 | 9.9 | 1.5 | 0.2 | 44.8 | 30.9 | 12.8 | 1.1 |
| 1960 | 113.2 | 65.6 | 54.9 | 42.5 | 2.2 | 10.1 | 10.8 | 8.8 | 1.7 | 0.3 | 47.6 | 33.7 | 12.7 | 1.2 |
| 1961 ....... | 120.9 | 69.1 | 57.7 | 43.9 | 2.4 | 11.5 | 11.4 | 9.0 | 1.9 | 0.5 | 51.8 | 36.7 | 13.8 | 1.2 |
| 1962 ..... | 131.4 | 76.5 | 62.3 | 47.8 | 2.0 | 12.5 | 14.2 | 11.3 | 2.1 | 0.8 | 55.0 | 39.1 | 14.5 | 1.3 |
| 1963 ....... | 137.7 | 78.1 | 62.2 | 49.6 | 1.6 | 11.0 | 15.9 | 12.4 | 2.3 | 1.1 | 59.6 | 42.2 | 16.0 | 1.5 |
| 1964 ....... | 144.4 | 79.4 | 61.3 | 49.9 | 1.3 | 10.2 | 18.1 | 14.0 | 2.5 | 1.6 | 65.0 | 46.0 | 17.2 | 1.7 |
| 1965 | 153.0 | 81.8 | 62.0 | 52.0 | 1.1 | 8.9 | 19.7 | 15.1 | 2.8 | 1.8 | 71.2 | 50.5 | 19.0 | 1.8 |
| 1966 .. | 173.6 | 94.1 | 73.4 | 61.2 | 1.3 | 11.0 | 20.7 | 15.9 | 2.8 | 2.0 | 79.5 | 56.5 | 21.0 | 2.0 |
| 1967 .. | 194.6 | 106.6 | 85.5 | 71.3 | 1.2 | 13.0 | 21.0 | 17.0 | 2.2 | 1.8 | 88.1 | 62.9 | 23.0 | 2.2 |
| 1968 ....... | 212.1 | 113.8 | 92.0 | 78.9 | 1.2 | 11.8 | 21.8 | 18.2 | 2.1 | 1.6 | 98.3 | 70.8 | 25.2 | 2.3 |
| 1969 ....... | 223.8 | 115.8 | 92.4 | 80.0 | 1.5 | 10.9 | 23.4 | 20.0 | 1.9 | 1.5 | 108.0 | 79.8 | 25.6 | 2.6 |
| 1970. | 236.1 | 115.9 | 90.6 | 78.6 | 1.3 | 10.7 | 25.3 | 21.9 | 2.1 | 1.3 | 120.2 | 91.6 | 25.8 | 2.8 |
| 1971 .. | 249.9 | 117.1 | 88.7 | 79.2 | 1.8 | 7.7 | 28.3 | 24.6 | 2.5 | 1.3 | 132.8 | 102.9 | 27.0 | 2.9 |
| 1972 ...... | 268.9 | 125.1 | 93.2 | 82.3 | 1.8 | 9.1 | 31.9 | 27.8 | 2.7 | 1.3 | 143.8 | 113.4 | 27.1 | 3.3 |
| 1973 ...... | 287.6 | 128.2 | 94.7 | 83.7 | 2.1 | 8.9 | 33.5 | 29.2 | 3.1 | 1.2 | 159.4 | 126.4 | 29.1 | 3.8 |
| 1974 ....... | 323.2 | 139.9 | 101.9 | 90.1 | 2.2 | 9.7 | 38.0 | 33.2 | 3.4 | 1.4 | 183.3 | 144.0 | 34.7 | 4.6 |
| 1975. | 362.6 | 154.5 | 110.9 | 97.0 | 2.3 | 11.6 | 43.6 | 38.0 | 4.1 | 1.4 | 208.1 | 164.9 | 38.1 | 5.1 |
| 1976 .. | 385.9 | 162.7 | 116.1 | 101.3 | 2.1 | 12.6 | 46.6 | 40.4 | 4.6 | 1.6 | 223.1 | 179.7 | 38.1 | 5.3 |
| 1977 ..... | 416.9 | 178.4 | 125.8 | 109.6 | 2.4 | 13.8 | 52.6 | 45.7 | 5.0 | 1.9 | 238.5 | 196.1 | 36.9 | 5.4 |
| 1978 ....... | 457.9 | 194.4 | 135.6 | 118.4 | 2.5 | 14.6 | 58.9 | 50.4 | 6.1 | 2.3 | 263.4 | 214.5 | 42.8 | 6.1 |
| 1979 ....... | 507.1 | 215.0 | 151.2 | 130.7 | 2.5 | 18.0 | 63.8 | 55.2 | 6.3 | 2.4 | 292.0 | 235.9 | 49.0 | 7.1 |
| 1980. | 572.8 | 248.4 | 174.2 | 150.9 | 3.2 | 20.1 | 74.2 | 64.3 | 7.1 | 2.9 | 324.4 | 261.3 | 55.1 | 8.1 |
| 1981 ...... | 633.4 | 284.1 | 202.0 | 174.3 | 3.2 | 24.5 | 82.2 | 71.7 | 7.7 | 2.8 | 349.2 | 285.3 | 55.4 | 8.5 |
| 1982 ..... | 684.8 | 313.2 | 230.9 | 197.6 | 4.0 | 29.4 | 82.3 | 72.3 | 6.8 | 3.2 | 371.6 | 307.9 | 54.2 | 9.4 |
| 1983 ..... | 735.7 | 344.5 | 255.0 | 214.9 | 4.8 | 35.4 | 89.4 | 78.2 | 6.7 | 4.5 | 391.2 | 326.2 | 54.2 | 10.8 |
| 1984 ....... | 796.6 | 372.6 | 282.7 | 236.3 | 4.9 | 41.5 | 89.9 | 77.9 | 7.0 | 5.0 | 424.0 | 350.8 | 60.5 | 12.7 |
| 1985. | 875.0 | 410.1 | 312.4 | 257.6 | 6.2 | 48.5 | 97.7 | 84.9 | 7.3 | 5.4 | 464.9 | 382.6 | 67.6 | 14.8 |
| 1986 .... | 938.5 | 435.2 | 332.4 | 272.7 | 6.8 | 52.9 | 102.9 | 89.7 | 8.0 | 5.2 | 503.3 | 412.7 | 74.2 | 16.4 |
| 1987 ....... | 992.8 | 455.7 | 350.4 | 287.6 | 7.7 | 55.1 | 105.3 | 90.7 | 9.0 | 5.6 | 537.2 | 441.1 | 78.8 | 17.2 |
| 1988 ....... | 1,032.0 | 457.3 | 354.0 | 297.9 | 7.4 | 48.7 | 103.3 | 89.9 | 6.8 | 6.6 | 574.7 | 471.3 | 84.8 | 18.6 |
| 1989 ....... | 1,095.1 | 477.2 | 360.6 | 303.3 | 6.4 | 51.0 | 116.7 | 101.9 | 6.9 | 7.9 | 617.9 | 507.2 | 88.7 | 21.9 |
| 1990. | 1,176.1 | 503.6 | 373.1 | 312.7 | 6.1 | 54.3 | 130.4 | 113.9 | 8.0 | 8.6 | 672.6 | 550.1 | 98.5 | 23.9 |
| 1991 ...... | 1,225.9 | 522.6 | 383.5 | 325.4 | 4.6 | 53.5 | 139.1 | 120.6 | 9.2 | 9.3 | 703.4 | 579.4 | 100.5 | 23.4 |
| 1992 ....... | 1,263.8 | 528.0 | 375.8 | 319.7 | 5.2 | 50.9 | 152.2 | 131.4 | 10.3 | 10.5 | 735.8 | 603.6 | 108.1 | 24.0 |
| 1993 ... | 1,289.9 | 522.1 | 362.2 | 313.0 | 4.8 | 44.4 | 159.9 | 138.4 | 11.2 | 10.3 | 767.8 | 627.9 | 113.9 | 25.9 |
| 1994 ....... | 1,314.7 | 516.3 | 352.0 | 305.7 | 4.9 | 41.4 | 164.3 | 144.9 | 10.5 | 8.9 | 798.4 | 651.7 | 119.0 | 27.7 |
| 1990:1 ... | 1,153.0 | 496.4 | 369.7 | 311.7 | 6.3 | 51.7 | 126.7 | 110.0 | 8.2 | 8.5 | 656.6 | 535.3 | 97.7 | 23.6 |
| II ... | 1,164.3 | 500.1 | 370.6 | 310.8 | 6.3 | 53.5 | 129.5 | 112.9 | 8.1 | 8.4 | 664.2 | 543.9 | 96.5 | 23.9 |
| III .. | 1,176.9 | 501.2 | 368.9 | 307.3 | 6.4 | 55.2 | 132.3 | 115.9 | 8.1 | 8.3 | 675.7 | 554.0 | 97.6 | 24.1 |
| IV .. | 1,210.4 | 516.7 | 383.3 | 321.0 | 5.3 | 57.0 | 133.3 | 116.7 | 7.6 | 9.1 | 693.7 | 567.3 | 102.4 | 24.1 |
| 1991: I .... | 1,220.6 | 525.6 | 389.7 | 331.3 | 4.8 | 53.6 | 136.0 | 119.3 | 7.7 | 9.0 | 695.0 | 572.1 | 99.3 | 23.7 |
| II... | 1,227.4 | 528.2 | 389.3 | 328.6 | 4.8 | 55.9 | 138.9 | 120.5 | 9.1 | 9.3 | 699.2 | 576.9 | 99.0 | 23.3 |
| III .. | 1,226.5 | 520.9 | 382.1 | 323.1 | 4.5 | 54.5 | 138.8 | 120.6 | 9.1 | 9.1 | 705.5 | 581.5 | 100.8 | 23.2 |
| IV .. | 1,229.2 | 515.5 | 373.0 | 318.5 | 4.5 | 50.0 | 142.6 | 122.0 | 10.8 | 9.8 | 713.6 | 587.3 | 102.9 | 23.4 |
| 1992:I .... | 1,247.9 | 521.8 | 372.8 | 317.2 | 5.2 | 50.4 | 149.0 | 128.5 | 10.3 | 10.1 | 726.1 | 592.6 | 109.9 | 23.6 |
| II... | 1,256.4 | 523.2 | 374.1 | 317.3 | 5.5 | 51.4 | 149.1 | 129.1 | 10.2 | 9.9 | 733.2 | 600.8 | 108.6 | 23.8 |
| III .. | 1,270.7 | 532.0 | 380.9 | 323.5 | 4.8 | 52.7 | 151.1 | 130.9 | 9.6 | 10.5 | 738.7 | 607.4 | 107.1 | 24.2 |
| IV .. | 1,280.0 | 535.0 | 375.3 | 320.7 | 5.5 | 49.1 | 159.7 | 137.0 | 11.0 | 11.6 | 745.1 | 613.6 | 106.9 | 24.6 |
| 1993: $1 . .$. | 1,278.8 | 525.0 | 365.2 | 313.9 | 4.7 | 46.6 | 159.8 | 136.9 | 11.7 | 11.2 | 753.8 | 620.8 | 107.7 | 25.3 |
| III... | 1,284.6 | 519.6 | 362.2 | 312.1 | 4.7 | 45.5 | 157.4 | 135.9 | 10.8 | 10.7 | 765.0 | 626.0 | 113.3 | 25.7 |
| III .. | 1,293.6 | 520.8 | 360.7 | 314.6 | 4.9 | 41.1 | 160.1 | 138.4 | 11.3 | 10.5 | 772.7 | 630.8 | 115.7 | 26.2 |
| IV .. | 1,302.7 | 522.9 | 360.8 | 311.5 | 4.7 | 44.6 | 162.2 | 142.3 | 11.0 | 8.9 | 779.7 | 634.1 | 119.1 | 26.5 |
| 1994:I .... | 1,296.4 | 511.3 | 346.7 | 301.3 | 4.8 | 40.7 | 164.6 | 145.4 | 10.6 | 8.5 | 785.0 | 642.4 | 115.5 | 27.1 |
| III... | 1,300.8 | 509.4 | 349.3 | 303.4 | 4.7 | 41.3 | 160.0 | 141.7 | 9.9 | 8.4 | 791.4 | 647.3 | 116.7 | 27.5 |
| III .. | 1,328.0 | 523.6 | 362.1 | 313.3 | 5.1 | 43.8 | 161.5 | 142.2 | 10.0 | 9.4 | 804.4 | 655.4 | 121.1 | 27.9 |
| IV .. | 1,333.5 | 520.9 | 349.6 | 304.9 | 4.9 | 39.8 | 171.2 | 150.4 | 11.5 | 9.4 | 812.6 | 661.9 | 122.7 | 28.1 |
| 1995: $1 . . .$. | 1,346.0 | 519.9 | 347.7 | 303.0 | 5.7 | 39.1 | 172.1 | 151.8 | 11.0 | 9.3 | 826.1 | 672.1 | 125.5 | 28.5 |
| II... | 1,359.9 | 522.6 | 352.3 | 305.3 | 4.9 | 42.1 | 170.3 | 150.8 | 10.2 | 9.3 | 837.3 | 680.1 | 128.3 | 28.9 |
| III .. | 1,365.5 | 517.3 | 346.2 | 301.9 | 5.5 | 38.8 | 171.1 | 152.2 | 9.3 | 9.6 | 848.2 | 686.5 | 132.4 | 29.3 |

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-17.-Real government consumption expenditures and gross investment by type, 1959-95
[Billions of chained (1992) dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Government consumption expenditures and gross investment |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  |  |  |  | Federal |  |  |  |  |  | State and | local |  |
|  |  | Total | National defense |  |  |  | Nondefense |  |  |  | Total | Con-sumption ex-penditures | Gross investment |  |
|  |  |  | Total | Con-sumption ex-penditures | Gross investment |  | Total | Con-sumption ex-penditures | Gross investment |  |  |  |  |  |
|  |  |  |  |  |  |  | Structures |  |  |  | Equipment |  |  |  |
|  |  |  |  |  | Structures | Equipment |  |  | Structures | Equipment |  |  |  |  |
| 1959 | 618.5 | 360.5 | 307.6 | 259.3 | 15.5 | 28.4 | 58.8 | 53.9 | 7.2 | 0.4 | 256.8 | 191.6 | 59.9 | 3.1 |
| 1960 | 617.2 | 349.4 | 301.3 | 260.8 | 13.7 | 25.6 | 54.1 | 47.1 | 8.1 | . 6 | 267.2 | 201.8 | 60.0 | 3.4 |
| 1961. | 647.2 | 363.0 | 313.8 | 265.8 | 14.6 | 29.0 | 55.5 | 46.5 | 9.0 | 1.0 | 283.8 | 213.0 | 65.0 | 3.5 |
| 1962 .. | 686.0 | 393.2 | 332.4 | 284.2 | 12.1 | 30.9 | 66.8 | 56.4 | 10.1 | 1.4 | 292.1 | 218.7 | 67.1 | 3.8 |
| 1963 .. | 701.9 | 391.8 | 324.0 | 287.9 | 9.9 | 26.4 | 72.9 | 60.4 | 10.9 | 1.9 | 309.7 | 229.5 | 72.7 | 4.3 |
| 1964 .... | 715.9 | 385.2 | 309.9 | 279.3 | 7.5 | 24.4 | 79.2 | 64.5 | 11.7 | 2.5 | 330.9 | 244.9 | 77.5 | 4.8 |
| 1965 | 737.6 | 385.2 | 303.8 | 281.1 | 6.7 | 21.0 | 84.6 | 67.7 | 12.4 | 3.2 | 353.2 | 261.1 | 83.0 | 5.1 |
| 1966 .. | 804.6 | 429.1 | 348.2 | 318.9 | 7.0 | 25.8 | 85.7 | 68.4 | 12.3 | 3.4 | 375.9 | 277.7 | 88.2 | 5.6 |
| 1967 .. | 865.6 | 471.7 | 393.5 | 360.2 | 6.4 | 29.9 | 84.7 | 71.5 | 9.3 | 3.0 | 394.2 | 289.8 | 93.9 | 5.8 |
| 1968 .. | 892.4 | 476.3 | 400.9 | 376.7 | 6.3 | 26.1 | 82.5 | 71.4 | 8.3 | 2.5 | 416.5 | 307.5 | 98.1 | 6.1 |
| 1969 ....... | 887.5 | 459.9 | 381.6 | 361.6 | 6.8 | 23.1 | 84.3 | 75.1 | 7.1 | 2.2 | 428.0 | 324.4 | 92.9 | 6.5 |
| 1970 | 866.8 | 427.2 | 349.0 | 330.1 | 5.5 | 21.7 | 83.0 | 74.6 | 7.1 | 1.9 | 440.0 | 344.1 | 86.0 | 6.7 |
| 1971 ... | 851.0 | 397.0 | 313.7 | 304.6 | 7.0 | 14.6 | 86.3 | 77.5 | 7.9 | 1.8 | 454.4 | 362.1 | 83.1 | 6.8 |
| 1972 ... | 854.1 | 390.2 | 300.3 | 285.3 | 6.3 | 17.5 | 91.9 | 83.0 | 8.1 | 1.8 | 464.5 | 376.0 | 78.9 | 7.6 |
| 1973 ... | 848.4 | 371.1 | 281.2 | 265.5 | 6.4 | 17.1 | 91.5 | 82.3 | 8.7 | 1.6 | 478.5 | 389.9 | 78.3 | 8.5 |
| 1974 ....... | 862.9 | 368.8 | 273.5 | 256.5 | 5.9 | 17.9 | 96.4 | 87.3 | 8.5 | 1.8 | 495.6 | 406.8 | 78.1 | 9.3 |
| 1975. | 876.3 | 367.9 | 269.7 | 248.9 | 5.7 | 20.4 | 99.1 | 89.9 | 8.9 | 1.7 | 510.0 | 423.1 | 77.4 | 9.0 |
| 1976 ... | 876.8 | 364.3 | 264.7 | 242.5 | 5.0 | 21.5 | 100.4 | 90.2 | 9.5 | 1.9 | 514.3 | 429.5 | 76.1 | 8.8 |
| 1977 .. | 884.7 | 370.1 | 266.4 | 243.7 | 5.1 | 22.0 | 104.3 | 93.5 | 9.8 | 2.1 | 516.4 | 437.6 | 71.3 | 8.6 |
| 1978 .... | 910.6 | 377.7 | 266.7 | 244.7 | 5.1 | 21.5 | 111.4 | 98.1 | 11.3 | 2.7 | 534.7 | 448.1 | 78.1 | 9.0 |
| 1979 ....... | 924.9 | 383.3 | 271.0 | 245.9 | 4.3 | 24.5 | 112.7 | 100.4 | 10.6 | 2.6 | 543.5 | 452.3 | 81.4 | 9.7 |
| 1980 .. | 941.4 | 399.3 | 280.7 | 254.0 | 5.0 | 25.5 | 119.0 | 106.0 | 10.7 | 3.1 | 543.6 | 451.7 | 81.3 | 10.3 |
| 1981 ... | 947.7 | 415.9 | 296.0 | 266.4 | 4.8 | 28.3 | 120.4 | 107.9 | 10.5 | 2.9 | 532.8 | 450.3 | 73.3 | 10.1 |
| 1982 .. | 960.1 | 429.4 | 316.5 | 282.0 | 5.6 | 32.0 | 113.3 | 102.3 | 8.6 | 3.2 | 531.4 | 455.6 | 67.0 | 10.7 |
| 1983 .... | 987.3 | 452.7 | 334.6 | 293.3 | 6.6 | 37.0 | 118.5 | 105.9 | 8.4 | 4.7 | 534.9 | 458.2 | 66.3 | 12.1 |
| 1984 ....... | 1,018.4 | 463.7 | 348.1 | 301.3 | 6.4 | 41.7 | 115.9 | 102.3 | 8.7 | 5.2 | 555.0 | 467.9 | 73.8 | 14.2 |
| 1985 ... | 1,080.1 | 495.6 | 374.1 | 318.2 | 7.9 | 48.6 | 121.8 | 107.4 | 8.9 | 5.7 | 584.7 | 487.8 | 80.9 | 16.4 |
| 1986 .. | 1,135.0 | 518.4 | 393.4 | 331.1 | 8.6 | 53.7 | 125.2 | 110.6 | 9.4 | 5.4 | 616.9 | 513.3 | 85.9 | 18.0 |
| 1987 .. | 1,165.9 | 534.4 | 409.2 | 341.1 | 9.2 | 58.4 | 125.3 | 109.2 | 10.3 | 5.9 | 631.8 | 525.5 | 87.8 | 18.8 |
| 1988 ... | 1,180.9 | 524.6 | 405.5 | 345.3 | 8.5 | 51.9 | 119.1 | 104.8 | 7.6 | 6.8 | 656.6 | 545.3 | 91.6 | 20.0 |
| 1989 ....... | 1,213.9 | 531.5 | 401.6 | 340.9 | 6.9 | 53.8 | 130.1 | 114.8 | 7.4 | 7.9 | 682.6 | 566.3 | 93.5 | 23.0 |
| 1990 ... | 1,250.4 | 541.9 | 401.5 | 338.9 | 6.4 | 56.1 | 140.5 | 123.8 | 8.3 | 8.5 | 708.6 | 583.2 | 100.7 | 24.7 |
| 1991 .. | 1,258.0 | 539.4 | 397.5 | 338.7 | 4.7 | 54.1 | 142.0 | 123.6 | 9.3 | 9.2 | 718.7 | 593.8 | 101.3 | 23.6 |
| 1992 ... | 1,263.8 | 528.0 | 375.8 | 319.7 | 5.2 | 50.9 | 152.2 | 131.4 | 10.3 | 10.5 | 735.8 | 603.6 | 108.1 | 24.0 |
| 1993 ... | 1,260.5 | 508.7 | 354.9 | 306.9 | 4.4 | 43.6 | 153.8 | 132.4 | 11.0 | 10.4 | 751.8 | 614.6 | 111.5 | 25.7 |
| 1994 ....... | 1,259.9 | 489.7 | 336.9 | 293.5 | 4.3 | 39.1 | 152.6 | 133.5 | 10.0 | 9.0 | 770.5 | 629.0 | 114.4 | 27.1 |
| 1990: I .... | 1,246.5 | 542.9 | 404.1 | 343.6 | 6.7 | 53.9 | 138.9 | 122.0 | 8.5 | 8.5 | 703.8 | 578.1 | 101.0 | 24.6 |
| II ... | 1,248.2 | 543.0 | 402.8 | 340.0 | 6.7 | 56.0 | 140.4 | 123.7 | 8.4 | 8.3 | 705.4 | 581.6 | 99.0 | 24.8 |
| III .. | 1,246.8 | 538.2 | 396.1 | 332.4 | 6.7 | 56.9 | 142.2 | 125.7 | 8.4 | 8.2 | 708.7 | 585.0 | 99.0 | 24.8 |
| IV .. | 1,259.9 | 543.5 | 403.1 | 339.7 | 5.6 | 57.7 | 140.5 | 124.0 | 7.7 | 8.9 | 716.5 | 588.2 | 103.7 | 24.6 |
| 1991:I .... | 1,262.6 | 547.3 | 408.4 | 348.9 | 4.9 | 54.6 | 139.0 | 122.4 | 7.9 | 8.8 | 715.5 | 590.9 | 100.6 | 23.9 |
| II ... | 1,263.8 | 547.1 | 405.0 | 343.8 | 4.9 | 56.3 | 142.2 | 123.8 | 9.2 | 9.2 | 716.8 | 593.5 | 99.7 | 23.7 |
| III .. | 1,255.1 | 536.3 | 395.0 | 335.2 | 4.5 | 55.3 | 141.4 | 123.2 | 9.1 | 9.0 | 718.8 | 594.2 | 101.2 | 23.5 |
| IV .. | 1,250.7 | 526.9 | 381.7 | 326.7 | 4.6 | 50.4 | 145.3 | 124.7 | 10.9 | 9.7 | 723.8 | 596.7 | 103.7 | 23.4 |
| 1992:I .... | 1,258.5 | 525.1 | 374.2 | 318.3 | 5.2 | 50.7 | 150.8 | 130.4 | 10.4 | 10.1 | 733.5 | 599.0 | 110.8 | 23.6 |
| II ... | 1,257.5 | 523.3 | 373.3 | 316.5 | 5.5 | 51.3 | 150.0 | 129.9 | 10.2 | 9.8 | 734.2 | 601.7 | 108.8 | 23.8 |
| III .. | 1,266.5 | 529.6 | 378.7 | 321.2 | 4.8 | 52.7 | 150.9 | 130.7 | 9.6 | 10.5 | 736.9 | 605.9 | 106.8 | 24.2 |
| IV .. | 1,272.5 | 534.0 | 376.8 | 322.6 | 5.4 | 48.9 | 157.1 | 134.5 | 10.9 | 11.7 | 738.5 | 607.9 | 106.1 | 24.6 |
| 1993: I ... | 1,257.2 | 515.7 | 361.2 | 310.4 | 4.5 | 46.2 | 154.5 | 131.7 | 11.5 | 11.3 | 741.6 | 610.3 | 106.2 | 25.1 |
| II ... | 1,257.9 | 509.2 | 356.4 | 307.1 | 4.4 | 44.9 | 152.7 | 131.4 | 10.6 | 10.8 | 748.8 | 612.4 | 110.9 | 25.5 |
| III .. | 1,261.1 | 505.4 | 351.2 | 306.6 | 4.4 | 40.2 | 154.2 | 132.6 | 11.0 | 10.6 | 755.7 | 616.6 | 113.2 | 26.0 |
| IV .. | 1,265.7 | 504.5 | 350.8 | 303.4 | 4.2 | 43.2 | 153.7 | 134.0 | 10.6 | 9.0 | 761.3 | 619.1 | 115.9 | 26.3 |
| 1994:I .... | 1,252.3 | 489.8 | 334.8 | 291.6 | 4.2 | 39.0 | 154.8 | 135.8 | 10.3 | 8.6 | 762.7 | 624.0 | 112.0 | 26.7 |
| II ... | 1,249.7 | 483.3 | 335.5 | 292.7 | 4.1 | 38.7 | 147.7 | 129.6 | 9.5 | 8.5 | 766.8 | 626.9 | 113.0 | 26.9 |
| III .. | 1,271.0 | 496.6 | 346.1 | 300.2 | 4.4 | 41.4 | 150.5 | 131.5 | 9.5 | 9.4 | 774.7 | 631.2 | 116.2 | 27.2 |
| IV .. | 1,266.6 | 489.1 | 331.3 | 289.6 | 4.2 | 37.4 | 157.5 | 137.2 | 10.8 | 9.4 | 777.7 | 633.7 | 116.5 | 27.6 |
| 1995: I .... | 1,263.0 | 481.3 | 325.3 | 283.8 | 4.9 | 36.6 | 155.6 | 135.9 | 10.3 | 9.4 | 782.2 | 636.1 | 118.2 | 27.9 |
| II ... | 1,265.8 | 479.9 | 326.1 | 283.2 | 4.2 | 38.7 | 153.6 | 134.7 | 9.4 | 9.4 | 786.3 | 637.9 | 120.2 | 28.2 |
| III .. | 1,264.4 | 473.2 | 319.8 | 279.3 | 4.7 | 35.8 | 153.1 | 134.8 | 8.5 | 9.7 | 791.7 | 640.6 | 122.7 | 28.5 |

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-18.-Inventories and final sales of domestic business, 1959-95
[Billions of dollars, except as noted; seasonally adjusted]

| Quarter | Inventories ${ }^{1}$ |  |  |  |  |  |  | Final sales of domestic business ${ }^{3}$ | Ratio of inventories to final sales of domestic business |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total ${ }^{2}$ | Farm | Nonfarm |  |  |  |  |  |  |  |
|  |  |  | Total ${ }^{2}$ | Manufacturing | Wholesale trade | Retail trade | Other |  | Total | Nonfarm |
| Fourth quarter: $1959$ | 131.0 | 32.1 | 98.9 | 51.6 | 18.3 | 20.0 | 9.0 | 36.5 | 3.59 | 2.71 |
| 1960 | 134.7 | 32.9 | 101.8 | 52.8 | 18.6 | 21.4 | 8.9 | 37.7 | 3.57 | 2.70 |
| 1961 ........................... | 138.0 | 34.6 | 103.4 | 54.3 | 19.1 | 20.9 | 9.2 | 39.5 | 3.49 | 2.62 |
| 1962 ........................ | 145.8 | 36.8 | 109.0 | 57.6 | 19.9 | 22.3 | 9.2 | 41.8 | 3.48 | 2.61 |
| 1963 ........................ | 148.3 | 33.9 | 114.4 | 59.6 | 21.3 | 23.6 | 9.8 | 44.5 | 3.33 | 2.57 |
| 1964 ........................ | 154.0 | 32.5 | 121.4 | 63.2 | 22.7 | 24.9 | 10.6 | 47.4 | 3.25 | 2.56 |
| 1965 | 168.8 | 37.0 | 131.9 | 68.2 | 24.3 | 27.7 | 11.7 | 52.5 | 3.22 | 2.51 |
| 1966 ......................... | 186.2 | 37.5 | 148.6 | 78.3 | 27.7 | 30.1 | 12.5 | 55.6 | 3.35 | 2.67 |
| 1967 ....................... | 198.4 | 37.0 | 161.4 | 85.2 | 29.9 | 31.1 | 15.3 | 59.2 | 3.35 | 2.73 |
| 1968 ........................ | 214.1 | 40.3 | 173.8 | 91.4 | 31.7 | 34.4 | 16.3 | 65.1 | 3.29 | 2.67 |
| 1969 ........................ | 233.7 | 43.8 | 189.9 | 99.0 | 35.2 | 37.7 | 18.1 | 69.1 | 3.38 | 2.75 |
| 1970 ....................... | 242.0 | 42.3 | 199.7 | 102.8 | 39.0 | 38.7 | 19.3 | 72.9 | 3.32 | 2.74 |
| 1971 ......................... | 261.2 | 49.7 | 211.5 | 103.5 | 42.1 | 44.9 | 20.9 | 79.4 | 3.29 | 2.66 |
| 1972 ........................ | 289.7 | 60.9 | 228.8 | 109.4 | 46.0 | 50.0 | 23.4 | 88.5 | 3.28 | 2.59 |
| 1973 ........................ | 345.8 | 78.1 | 267.8 | 125.1 | 54.8 | 58.7 | 29.2 | 97.5 | 3.55 | 2.75 |
| 1974 ........................ | 398.6 | 68.4 | 330.3 | 158.2 | 69.8 | 64.2 | 38.0 | 105.4 | 3.78 | 3.13 |
| 1975 | 410.6 | 72.3 | 338.4 | 164.5 | 69.3 | 64.7 | 39.8 | 118.0 | 3.48 | 2.87 |
| 1976 ......................... | 443.4 | 68.3 | 375.1 | 181.1 | 77.2 | 73.3 | 43.5 | 129.7 | 3.42 | 2.89 |
| 1977 | 494.2 | 73.3 | 421.0 | 202.8 | 86.6 | 81.2 | 50.4 | 145.0 | 3.41 | 2.90 |
| 1978 ......................... | 581.9 | 97.9 | 484.0 | 228.4 | 101.9 | 94.5 | 59.1 | 167.6 | 3.47 | 2.89 |
| 1979 ....................... | 676.8 | 114.9 | 561.9 | 268.7 | 120.5 | 105.3 | 67.5 | 186.4 | 3.63 | 3.01 |
| 1980 | 737.5 | 114.7 | 622.8 | 296.5 | 138.5 | 113.7 | 74.0 | 204.8 | 3.60 | 3.04 |
| 1981 ........................ | 783.1 | 104.9 | 678.2 | 318.1 | 151.4 | 123.9 | 84.9 | 221.8 | 3.53 | 3.06 |
| 1982 .. | 768.4 | 110.4 | 658.0 | 299.5 | 150.3 | 123.5 | 84.6 | 232.8 | 3.30 | 2.83 |
| 1983 ......................... | 787.8 | 106.7 | 681.1 | 302.6 | 154.1 | 138.0 | 86.4 | 255.4 | 3.08 | 2.67 |
| 1984 ........................ | 860.7 | 109.2 | 751.5 | 333.4 | 169.0 | 157.3 | 91.8 | 276.7 | 3.11 | 2.72 |
| 1985 ........................ | 875.3 | 106.3 | 769.1 | 325.3 | 173.4 | 171.9 | 98.4 | 297.7 | 2.94 | 2.58 |
| 1986 ........................ | 862.7 | 94.5 | 768.2 | 314.6 | 177.2 | 176.8 | 99.5 | 315.7 | 2.73 | 2.43 |
| 1987 ........................ | 927.5 | 98.0 | 829.5 | 332.9 | 190.6 | 199.5 | 106.4 | 333.1 | 2.78 | 2.49 |
| 1988 ........................ | 992.8 | 102.0 | 890.8 | 358.8 | 208.5 | 213.8 | 109.6 | 362.8 | 2.74 | 2.46 |
| 1989 ........................ | 1,044.6 | 103.6 | 941.0 | 382.1 | 218.4 | 232.7 | 107.8 | 384.9 | 2.71 | 2.44 |
| 1990:I ........................ |  | 106.2 | 945.7 | 385.9 | 221.6 | 229.8 | 108.4 | 394.2 | 2.67 | 2.40 |
| II | 1,062.7 | 107.2 | 955.5 | 387.5 | 226.3 | 234.1 | 107.6 | 397.6 | 2.67 | 2.40 |
| III | 1,087.1 | 109.1 | 977.9 | 401.0 | 230.9 | 237.3 | 108.7 | 401.0 | 2.71 | 2.44 |
| IV ....................... | 1,082.4 | 108.3 | 974.1 | 399.7 | 232.4 | 237.1 | 104.8 | 403.4 | 2.68 | 2.41 |
| 1991:\| | 1,072.3 | 111.2 | 961.1 | 393.7 | 233.7 | 232.7 | 101.0 | 403.9 | 2.65 | 2.38 |
| II ....................... | 1,056.5 | 105.5 | 951.0 | 385.5 | 230.3 | 233.6 | 101.7 | 409.0 | 2.58 | 2.33 |
| III ................... | 1,053.0 | 99.0 | 954.1 | 383.5 | 231.3 | 237.5 | 101.7 | 411.0 | 2.56 | 2.32 |
| IV ....................... | 1,058.1 | 97.2 | 961.0 | 383.4 | 235.5 | 240.1 | 102.0 | 413.1 | 2.56 | 2.33 |
| 1992: \| | 1,065.6 | 105.0 | 960.6 | 379.2 | 236.9 | 240.1 | 104.4 | 423.4 | 2.52 | 2.27 |
| II .......................... | 1,070.8 | 104.1 | 966.8 | 378.1 | 240.5 | 244.1 | 104.1 | 427.7 | 2.50 | 2.26 |
| III ....................... | 1,076.3 | 104.8 | 971.5 | 380.1 | 242.0 | 246.4 | 103.0 | 432.8 | 2.49 | 2.24 |
| IV ....................... | 1,077.9 | 104.9 | 973.1 | 375.5 | 245.3 | 249.4 | 103.0 | 441.9 | 2.44 | 2.20 |
| 1993: \| | 1,097.3 | 109.9 | 987.4 | 378.0 | 248.0 | 259.0 | 102.5 | 444.3 | 2.47 | 2.22 |
| II ....................... | 1,101.3 | 105.5 | 995.8 | 380.5 | 249.6 | 261.7 | 104.0 | 448.9 | 2.45 | 2.22 |
| III ....................... | 1,103.4 | 101.7 | 1,001.7 | 380.1 | 252.8 | 263.3 | 105.5 | 453.4 | 2.43 | 2.21 |
| IV ....................... | 1,112.8 | 101.6 | 1,011.2 | 380.9 | 255.2 | 267.0 | 108.1 | 462.8 | 2.40 | 2.19 |
| 1994: 1 | 1,130.2 | 107.2 | 1,023.0 | 385.5 | 257.3 | 270.2 | 110.1 | 467.2 | 2.42 | 2.19 |
|  | 1,147.0 | 103.3 | 1,043.8 | 390.3 | 263.3 | 278.1 | 111.9 | 473.0 | 2.43 | 2.21 |
| III ........................ | 1,167.4 | 102.5 | 1,064.9 | 397.7 | 270.7 | 283.4 | 113.1 | 481.9 | 2.42 | 2.21 |
| IV ....................... | 1,196.5 | 104.9 | 1,091.6 | 406.7 | 279.8 | 289.8 | 115.3 | 489.5 | 2.44 | 2.23 |
| 1995: I ........................ | 1,235.4 | 105.8 | 1,129.6 | 421.0 | 291.9 | 296.1 | 120.6 | 494.0 | 2.50 | 2.29 |
| II ......................... | 1,246.0 | 101.2 | 1,144.8 | 426.5 | 297.8 | 298.0 | 122.5 | 499.2 | 2.50 | 2.29 |
| III ....................... | 1,250.6 | 99.3 | 1,151.4 | 429.3 | 299.7 | 299.9 | 122.4 | 507.2 | 2.47 | 2.27 |

[^18]Table B-19.-Real inventories and final sales of domestic business, 1959-95
[Billions of chained (1992) dollars, except as noted; seasonally adjusted]

| Quarter | Inventories ${ }^{1}$ |  |  |  |  |  |  | Final sales of domestic business ${ }^{3}$ | Ratio of inventories to final sales of domestic business |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total ${ }^{2}$ | Farm | Nonfarm |  |  |  |  |  |  |  |
|  |  |  | Total ${ }^{2}$ | Manufacturing | Wholesale trade | Retail trade | Other |  | Total | Nonfarm |
| Fourth quarter: |  |  |  |  |  |  |  |  |  |  |
| 1959 | 401.4 | 89.8 | 303.6 | 148.2 | 56.5 | 59.4 | 37.6 | 144.3 | 2.78 | 2.10 |
| 1960 | 412.0 | 91.5 | 312.4 | 150.6 | 57.9 | 63.6 | 38.3 | 147.0 | 2.80 | 2.13 |
| 1961 | 420.9 | 93.9 | 318.6 | 155.1 | 59.3 | 62.3 | 40.1 | 153.5 | 2.74 | 2.08 |
| 1962 | 440.9 | 95.9 | 336.7 | 165.2 | 61.9 | 66.7 | 40.1 | 160.8 | 2.74 | 2.09 |
| 1963 | 459.0 | 97.5 | 353.1 | 171.5 | 66.3 | 70.3 | 42.2 | 169.5 | 2.71 | 2.08 |
| 1964 | 474.7 | 93.9 | 372.6 | 180.4 | 70.3 | 74.2 | 45.0 | 178.4 | 2.66 | 2.09 |
| 1965 | 504.8 | 96.3 | 400.3 | 192.6 | 74.7 | 81.7 | 48.4 | 194.2 | 2.60 | 2.06 |
| 1966 | 547.2 | 94.9 | 445.0 | 217.6 | 84.6 | 88.5 | 49.8 | 199.4 | 2.74 | 2.23 |
| 1967 .. | 579.2 | 97.4 | 474.5 | 234.4 | 91.0 | 88.4 | 56.9 | 206.4 | 2.81 | 2.30 |
| 1968 | 606.1 | 101.1 | 497.5 | 245.0 | 94.1 | 95.8 | 58.1 | 217.8 | 2.78 | 2.28 |
| 1969 | 633.3 | 101.4 | 524.8 | 256.0 | 100.6 | 102.3 | 61.4 | 221.7 | 2.86 | 2.37 |
| 1970 | 639.0 | 99.3 | 533.0 | 256.0 | 108.0 | 102.4 | 62.6 | 224.0 | 2.85 | 2.38 |
| 1971 | 661.7 | 103.6 | 551.1 | 253.1 | 113.8 | 116.1 | 64.9 | 234.4 | 2.82 | 2.35 |
| 1972 | 686.9 | 104.2 | 576.5 | 259.8 | 119.0 | 124.9 | 69.9 | 252.7 | 2.72 | 2.28 |
| 1973 | 725.9 | 106.5 | 615.0 | 277.7 | 122.4 | 134.8 | 77.4 | 261.1 | 2.78 | 2.36 |
| 1974 | 749.8 | 102.2 | 646.8 | 296.8 | 133.0 | 132.9 | 80.8 | 254.6 | 2.94 | 2.54 |
| 1975 | 738.8 | 107.6 | 628.3 | 289.7 | 127.5 | 126.3 | 81.5 | 265.6 | 2.78 | 2.37 |
| 1976 | 767.8 | 105.6 | 660.4 | 303.4 | 135.9 | 136.0 | 81.7 | 277.5 | 2.77 | 2.38 |
| 1977 | 805.8 | 111.7 | 692.1 | 311.8 | 146.5 | 143.7 | 87.1 | 291.7 | 2.76 | 2.37 |
| 1978 | 848.1 | 113.3 | 733.6 | 325.8 | 158.8 | 153.1 | 93.2 | 311.9 | 2.72 | 2.35 |
| 1979 | 871.2 | 117.0 | 752.8 | 338.5 | 166.3 | 153.1 | 91.5 | 319.3 | 2.73 | 2.36 |
| 1980 | 861.2 | 110.1 | 751.3 | 338.9 | 171.3 | 148.9 | 88.7 | 319.9 | 2.69 | 2.35 |
| 1981 | 894.3 | 119.6 | 774.1 | 343.5 | 176.0 | 157.2 | 94.4 | 318.9 | 2.80 | 2.43 |
| 1982 | 878.7 | 126.9 | 751.3 | 329.5 | 174.1 | 153.3 | 91.7 | 319.2 | 2.75 | 2.35 |
| 1983 | 872.8 | 109.8 | 763.4 | 329.5 | 173.5 | 166.2 | 92.4 | 338.2 | 2.58 | 2.26 |
| 1984 | 947.6 | 115.8 | 832.4 | 358.4 | 189.6 | 186.4 | 96.7 | 355.7 | 2.66 | 2.34 |
| 1985 | 977.4 | 122.2 | 855.8 | 353.9 | 194.8 | 201.3 | 105.1 | 370.8 | 2.64 | 2.31 |
| 1986 | 988.3 | 120.5 | 868.2 | 349.7 | 201.9 | 204.4 | 111.6 | 384.3 | 2.57 | 2.26 |
| 1987 | 1,014.5 | 111.5 | 902.5 | 354.8 | 208.5 | 223.9 | 115.1 | 393.8 | 2.58 | 2.29 |
| 1988 | 1,026.2 | 98.8 | 927.2 | 364.3 | 217.8 | 231.3 | 113.7 | 411.7 | 2.49 | 2.25 |
| 1989 | 1,059.5 | 98.9 | 960.7 | 383.5 | 223.3 | 245.0 | 108.9 | 420.7 | 2.52 | 2.28 |
| 1990:1 | 1,062.2 | 98.9 | 963.4 | 386.9 | 225.9 | 240.5 | 109.9 | 426.2 | 2.49 | 2.26 |
| 11 | 1,073.2 | 100.0 | 973.2 | 389.2 | 230.5 | 244.1 | 109.3 | 424.2 | 2.53 | 2.29 |
| III | 1,076.9 | 102.0 | 974.9 | 391.1 | 231.1 | 245.0 | 107.6 | 423.6 | 2.54 | 2.30 |
| IV ... | 1,069.9 | 101.4 | 968.4 | 390.1 | 231.3 | 243.5 | 103.4 | 421.8 | 2.54 | 2.30 |
| 1991:1 | 1,065.5 | 100.8 | 964.7 | 390.4 | 234.1 | 238.4 | 101.6 | 417.7 | 2.55 | 2.31 |
| II | 1,060.3 | 101.5 | 958.8 | 386.1 | 232.0 | 238.0 | 102.6 | 420.2 | 2.52 | 2.28 |
| III | 1,061.5 | 99.3 | 962.2 | 384.5 | 233.1 | 241.7 | 102.9 | 419.4 | 2.53 | 2.29 |
| IV ..... | 1,066.9 | 99.7 | 967.2 | 384.0 | 236.9 | 243.3 | 103.0 | 419.2 | 2.55 | 2.31 |
| 1992: \| | 1,066.9 | 101.6 | 965.3 | 380.6 | 237.2 | 242.0 | 105.4 | 426.6 | 2.50 | 2.26 |
| 11 | 1,069.7 | 104.1 | 965.6 | 377.5 | 239.8 | 244.3 | 104.1 | 428.9 | 2.49 | 2.25 |
| III | 1,072.7 | 105.4 | 967.3 | 378.5 | 241.6 | 245.1 | 102.1 | 432.3 | 2.48 | 2.24 |
| IV .... | 1,074.2 | 105.1 | 969.1 | 374.7 | 244.7 | 247.2 | 102.6 | 438.1 | 2.45 | 2.21 |
| 1993: 1 | 1,078.8 | 103.3 | 975.6 | 375.0 | 245.2 | 255.1 | 100.2 | 436.7 | 2.47 | 2.23 |
| 1 | 1,084.0 | 101.9 | 982.3 | 377.7 | 247.0 | 256.1 | 101.5 | 438.4 | 2.47 | 2.24 |
| III .. | 1,088.9 | 99.0 | 990.0 | 379.6 | 250.1 | 257.5 | 102.7 | 441.3 | 2.47 | 2.24 |
| IV ........ | 1,093.2 | 97.9 | 995.5 | 380.2 | 250.6 | 259.6 | 105.1 | 447.6 | 2.44 | 2.22 |
| 1994: 1 | 1,103.3 | 100.6 | 1,003.0 | 382.8 | 251.3 | 262.2 | 106.5 | 449.0 | 2.46 | 2.23 |
| 1 | 1,121.8 | 105.7 | 1,016.5 | 383.9 | 256.4 | 267.9 | 108.1 | 452.5 | 2.48 | 2.25 |
| III | 1,137.8 | 109.3 | 1,029.1 | 386.9 | 261.5 | 271.8 | 108.6 | 458.1 | 2.48 | 2.25 |
| IV ...... | 1,152.1 | 110.1 | 1,042.4 | 388.5 | 267.2 | 276.1 | 110.4 | 463.0 | 2.49 | 2.25 |
| 1995: I | 1,165.8 | 109.0 | 1,056.9 | 390.7 | 273.4 | 279.3 | 113.4 | 464.0 | 2.51 | 2.28 |
| II | 1,173.4 | 108.1 | 1,065.4 | 393.5 | 277.2 | 280.7 | 113.8 | 466.4 | 2.52 | 2.28 |
| III ..................... | 1,180.2 | 106.7 | 1,073.3 | 397.4 | 279.0 | 282.0 | 114.9 | 471.0 | 2.51 | 2.28 |

[^19]Table B-20.-F oreign transadions in the national income and product accounts, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Receipts from rest of the world |  |  |  |  | Payments to rest of the world |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total ${ }^{1}$ | Exports of goods and services |  |  | Re-ceipts of factor income ${ }^{3}$ | Total | Imports of goods and services |  |  | Pay-ments offactorin-come ${ }^{4}$ | Transfer payments (net) |  |  |  | Net foreign investment |
|  |  |  |  |  |  |  |  |  |  | Total | Fromperson persons (net) | From government (net) | From business |  |
|  |  | Total | Goods ${ }^{2}$ | $\begin{aligned} & \text { Serv- } \\ & \text { ices } \end{aligned}$ |  |  | Total | Goods ${ }^{2}$ | $\begin{aligned} & \text { Serv- } \\ & \text { ices }^{2} \end{aligned}$ |  |  |  |  |  |
| 1959 | 25.0 | 20.6 | 16.5 | 4.2 | 4.3 | 25.0 | 22.3 | 15.3 | 7.0 | 1.5 | 2.4 | 0.4 | 1.8 | 0.1 | -1.2 |
| 1960 | 30.2 | 25.3 | 20.5 | 4.8 | 5.0 | 30.2 | 22.8 | 15.2 | 7.6 | 1.8 | 2.4 | . 5 | 1.9 | 1 | 3.2 |
| 1961. | 31.4 | 26.0 | 20.9 | 5.1 | 5.4 | 31.4 | 22.7 | 15.1 | 7.6 | 1.8 | 2.7 | . 5 | 2.1 | . 1 | 4.3 |
| 1962. | 33.5 | 27.4 | 21.7 | 5.7 | 6.1 | 33.5 | 25.0 | 16.9 | 8.1 | 1.8 | 2.8 | . 5 | 2.1 | . 1 | 3.9 |
| 1963 .. | 36.1 | 29.4 | 23.3 | 6.1 | 6.6 | 36.1 | 26.1 | 17.7 | 8.4 | 2.1 | 2.8 | . 6 | 2.1 | 1 | 5.0 |
| 1964 ... | 41.0 | 33.6 | 26.7 | 6.9 | 7.4 | 41.0 | 28.1 | 19.4 | 8.7 | 2.4 | 3.0 | . 7 | 2.1 | 2 | 7.5 |
| 1965 | 43.5 | 35.4 | 27.8 | 7.6 | 8.1 | 43.5 | 31.5 | 22.2 | 9.3 | 2.7 | 3.0 | . 8 | 2.1 | . 2 | 6.2 |
| 1966 | 47.2 | 38.9 | 30.7 | 8.2 | 8.3 | 47.2 | 37.1 | 26.3 | 10.7 | 3.1 | 3.2 | . 8 | 2.2 | 2 | 3.9 |
| 1967 | 50.2 | 41.4 | 32.2 | 9.2 | 8.9 | 50.2 | 39.9 | 27.8 | 12.2 | 3.4 | 3.4 | 1.0 | 2.1 | 2 | 3.5 |
| 1968 | 55.6 | 45.3 | 35.3 | 10.0 | 10.3 | 55.6 | 46.6 | 33.9 | 12.6 | 4.1 | 3.2 | 1.0 | 1.9 | 3 | 1.7 |
| 1969 ... | 61.2 | 49.3 | 38.3 | 11.0 | 11.9 | 61.2 | 50.5 | 36.8 | 13.7 | 5.8 | 3.2 | 1.1 | 1.8 | 3 | 1.8 |
| 1970 | 70.8 | 57.0 | 44.5 | 12.4 | 13.0 | 70.8 | 55.8 | 40.9 | 14.9 | 6.6 | 3.6 | 1.2 | 2.0 | 4 | 4.9 |
| 1971 | 74.2 | 59.3 | 45.6 | 13.8 | 14.1 | 74.2 | 62.3 | 46.6 | 15.8 | 6.4 | 4.1 | 1.3 | 2.4 | 4 | 1.3 |
| 1972 | 83.4 | 66.2 | 51.8 | 14.4 | 16.4 | 83.4 | 74.2 | 56.9 | 17.3 | 7.7 | 4.3 | 1.3 | 2.5 | . 5 | -2.9 |
| 1973 | 115.6 | 91.8 | 73.9 | 17.8 | 23.8 | 115.6 | 91.2 | 71.8 | 19.3 | 11.1 | 4.6 | 1.4 | 2.5 | . | 8.7 |
| 1974. | 152.6 | 124.3 | 101.0 | 23.3 | 30.3 | 152.6 | 127.5 | 104.5 | 22.9 | 14.6 | 5.4 | 1.2 | 3.2 | 1.0 | 5.1 |
| 1975 | 164.4 | 136.3 | 109.6 | 26.7 | 28.2 | 164.4 | 122.7 | 99.0 | 23.7 | 14.9 | 5.4 | 1.2 | 3.5 | . | 21.4 |
| 1976 | 181.7 | 148.9 | 117.8 | 31.1 | 32.9 | 181.7 | 151.1 | 124.6 | 26.5 | 15.7 | 6.0 | 1.2 | 3.7 | 1.1 | 8.9 |
| 1977 | 196.6 | 158.8 | 123.7 | 35.1 | 37.9 | 196.6 | 182.4 | 152.6 | 29.8 | 17.2 | 6.0 | 1.2 | 3.4 | 1.4 | -9.0 |
| 1978 | 233.5 | 186.1 | 145.4 | 40.7 | 47.4 | 233.5 | 212.3 | 177.4 | 34.8 | 25.3 | 6.4 | 1.3 | 3.8 | 1.4 | -10.4 |
| 1979 .. | 300.3 | 228.7 | 184.0 | 44.7 | 70.4 | 300.3 | 252.7 | 212.8 | 39.9 | 37.5 | 7.5 | 1.4 | 4.1 | 2.0 | 2.6 |
| 1980 | 361.9 | 278.9 | 225.8 | 53.2 | 81.8 | 361.9 | 293.8 | 248.6 | 45.3 | 46.5 | 9.0 | 1.6 | 5.0 | 2.4 | 12.5 |
| 1981 | 399.5 | 302.8 | 239.1 | 63.7 | 95.6 | 399.5 | 317.8 | 267.8 | 49.9 | 60.9 | 13.4 | 5.2 | 5.0 | 3.2 | 7.4 |
| 1982. | 379.5 | 282.6 | 215.0 | 67.6 | 96.9 | 379.5 | 303.2 | 250.5 | 52.6 | 65.8 | 16.7 | 6.2 | 7.0 | 3.4 | -6.1 |
| 1983 .. | 374.6 | 277.0 | 207.3 | 69.7 | 97.6 | 374.6 | 328.6 | 272.7 | 56.0 | 65.6 | 17.7 | 6.5 | 7.8 | 3.4 | -37.3 |
| 1984 ... | 421.8 | 303.1 | 225.6 | 77.5 | 118.7 | 421.8 | 405.1 | 336.3 | 68.8 | 87.6 | 20.6 | 7.4 | 9.7 | 3.5 | -91.5 |
| 1985 | 411.1 | 303.0 | 222.2 | 80.8 | 108.1 | 411.1 | 417.2 | 343.3 | 73.9 | 87.7 | 23.1 | 7.8 | 12.2 | 3.1 | -116.9 |
| 1986 | 427.1 | 320.7 | 226.0 | 94.7 | 106.5 | 427.1 | 452.2 | 370.0 | 82.2 | 93.6 | 24.3 | 8.1 | 12.9 | 3.3 | -142.9 |
| 1987. | 481.8 | 365.7 | 257.5 | 108.2 | 116.0 | 481.8 | 507.9 | 414.8 | 93.1 | 107.1 | 23.3 | 8.7 | 11.2 | 3.3 | -156.4 |
| 1988 .. | 591.9 | 447.2 | 325.8 | 121.4 | 144.7 | 591.9 | 553.2 | 452.1 | 101.1 | 131.7 | 25.1 | 9.1 | 11.4 | 4.6 | -118.1 |
| 1989 ... | 678.3 | 509.3 | 371.7 | 137.6 | 169.0 | 678.3 | 589.7 | 484.5 | 105.3 | 154.8 | 26.1 | 9.6 | 11.4 | 5.1 | -92.4 |
| 1990 | 734.8 | 557.3 | 398.5 | 158.8 | 177.5 | 734.8 | 628.6 | 508.0 | 120.6 | 156.4 | 28.4 | 9.9 | 13.3 | 5.2 | -78.6 |
| 1991. | 757.9 | 601.8 | 426.4 | 175.4 | 156.2 | 757.9 | 622.3 | 500.7 | 121.6 | 140.5 | -12.1 | 10.4 | -27.9 | 5.4 | 7.3 |
| 1992. | 777.3 | 639.4 | 448.7 | 190.7 | 137.9 | 777.3 | 669.0 | 544.9 | 124.1 | 126.8 | 32.0 | 9.6 | 16.6 | 5.8 | -50.5 |
| 1993 .. | 799.7 | 660.0 | 459.5 | 200.4 | 139.7 | 799.7 | 724.9 | 592.7 | 132.1 | 129.9 | 33.1 | 9.9 | 16.9 | 6.2 | -88.2 |
| 1994 ...... | 881.1 | 722.0 | 509.1 | 212.9 | 159.2 | 881.1 | 818.4 | 677.3 | 141.1 | 168.1 | 34.2 | 10.6 | 16.2 | 7.3 | -139.6 |
| 1990:1 | 715.2 | 541.6 | 391.6 | 150.0 | 173.6 | 715.2 | 615.9 | 500.4 | 115.5 | 152.5 | 26.1 | 9.9 | 11.5 | 4.7 | -79.4 |
| II. | 728.1 | 554.8 | 399.8 | 155.1 | 173.3 | 728.1 | 615.1 | 497.4 | 117.8 | 156.4 | 30.3 | 9.5 | 15.5 | 5.3 | -73.8 |
| III ...... | 728.6 | 555.5 | 394.6 | 160.9 | 173.1 | 728.6 | 634.1 | 511.3 | 122.7 | 158.7 | 29.1 | 10.2 | 13.2 | 5.7 | -93.3 |
| IV ..... | 767.3 | 577.3 | 408.2 | 169.1 | 190.0 | 767.3 | 649.2 | 522.9 | 126.4 | 157.9 | 28.2 | 10.1 | 12.9 | 5.3 | -68.1 |
| 1991: 1 | 751.4 | 577.4 | 414.8 | 162.7 | 174.0 | 751.4 | 610.3 | 488.3 | 122.1 | 147.1 | -61.3 | 10.4 | -76.9 | 5.2 | 55.3 |
| 11. | 758.7 | 602.7 | 428.8 | 173.9 | 156.0 | 758.7 | 615.0 | 493.5 | 121.6 | 143.8 | -16.1 | 10.3 | -32.0 | 5.6 | 16.0 |
| III ... | 750.6 | 602.6 | 423.9 | 178.7 | 148.1 | 750.6 | 624.5 | 504.6 | 119.9 | 138.7 | 10.0 | 10.2 | -5.4 | 5.2 | -22.6 |
| IV ... | 771.0 | 624.4 | 438.1 | 186.3 | 146.6 | 771.0 | 639.3 | 516.5 | 122.7 | 132.2 | 18.9 | 10.6 | 2.6 | 5.7 | -19.4 |
| 1992: I | 773.1 | 632.4 | 442.1 | 190.3 | 140.7 | 773.1 | 641.3 | 516.8 | 124.5 | 124.2 | 27.5 | 9.4 | 12.4 | 5.7 | -19.9 |
| II .. | 779.2 | 635.9 | 445.9 | 190.0 | 143.3 | 779.2 | 664.9 | 541.1 | 123.8 | 132.3 | 30.7 | 9.7 | 15.0 | 6.0 | -48.7 |
| III .. | 774.0 | 640.2 | 447.7 | 192.5 | 133.8 | 774.0 | 677.8 | 557.2 | 120.6 | 124.3 | 27.8 | 9.2 | 12.9 | 5.8 | -56.0 |
| IV | 783.0 | 649.1 | 459.0 | 190.1 | 133.9 | 783.0 | 691.8 | 564.4 | 127.4 | 126.4 | 42.0 | 9.9 | 26.1 | 5.9 | -77.2 |
| 1993: I | 784.8 | 649.4 | 451.2 | 198.3 | 135.3 | 784.8 | 696.8 | 569.7 | 127.1 | 119.7 | 27.7 | 9.9 | 12.3 | 5.5 | -59.4 |
| II .. | 803.8 | 662.5 | 461.8 | 200.8 | 141.2 | 803.8 | 724.6 | 593.8 | 130.8 | 132.1 | 30.5 | 9.9 | 14.4 | 6.2 | -83.4 |
| III ...... | 788.6 | 648.5 | 448.3 | 200.2 | 140.1 | 788.6 | 725.6 | 593.7 | 131.9 | 126.6 | 31.1 | 9.8 | 15.1 | 6.2 | -94.7 |
| IV | 821.6 | 679.4 | 477.0 | 202.4 | 142.1 | 821.6 | 752.6 | 613.8 | 138.8 | 141.3 | 42.9 | 10.1 | 25.8 | 6.9 | -115.2 |
| 1994: 1 | 825.8 | 681.5 | 476.0 | 205.5 | 144.4 | 825.8 | 761.7 | 622.4 | 139.3 | 143.6 | 29.5 | 10.8 | 11.5 | 7.2 | -109.0 |
| 11. | 859.7 | 708.6 | 497.7 | 210.9 | 151.1 | 859.7 | 806.0 | 665.7 | 140.3 | 159.9 | 31.6 | 11.0 | 13.2 | 7.3 | -137.7 |
| III ...... | 899.7 | 734.2 | 517.2 | 216.9 | 165.6 | 899.7 | 842.6 | 699.9 | 142.6 | 175.6 | 31.2 | 10.3 | 13.7 | 7.3 | -149.6 |
| IV ..... | 939.3 | 763.6 | 545.4 | 218.2 | 175.7 | 939.3 | 863.3 | 720.9 | 142.3 | 193.4 | 44.5 | 10.5 | 26.5 | 7.6 | -161.9 |
| 1995: \| ........ | 975.5 | 778.6 | 558.9 | 219.7 | 196.9 | 975.5 | 885.1 | 740.3 | 144.8 | 204.1 | 30.6 | 10.5 | 12.3 | 7.8 | -144.4 |
| II ....... | 1,002.4 | 796.9 | 574.7 | 222.2 | 205.6 | 1,002.4 | 919.3 | 771.0 | 148.3 | 215.0 | 28.2 | 10.5 | 9.9 | 7.8 | -160.1 |
| III ...... | 1,017.1 | 813.2 | 588.3 | 224.9 | 203.9 | 1,017.1 | 913.7 | 765.4 | 148.3 | 219.8 | 32.2 | 10.6 | 13.8 | 7.9 | -148.7 |

[^20]Source: Department of Commerce, Bureau of Economic Analysis.

TAble B-21.-Re@l exports and imports of goods and sevvices and receipts and payments of factor income, 1959-95
[Billions of chained (1992) dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Exports of goods and services |  |  |  |  | Receipts of factor income ${ }^{2}$ | Imports of goods and services |  |  |  |  | Payments of factor income ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Goods ${ }^{1}$ |  |  | $\begin{aligned} & \text { Serv- } \\ & \text { ices }{ }^{1} \end{aligned}$ |  | Total | Goods ${ }^{1}$ |  |  | Services ${ }^{1}$ |  |
|  |  | Total | Durable goods | Non-durable goods |  |  |  | Total | Durable goods | Non-durable goods |  |  |
| 1959 | 71.9 | 51.7 | 23.7 | 30.4 | 18.6 | 20.8 | 106.6 | 71.1 | 23.7 | 49.5 | 34.9 | 7.5 |
| 1960 | 86.8 | 63.8 | 29.3 | 36.5 | 20.6 | 23.4 | 108.1 | 70.0 | 22.6 | 50.1 | 37.7 | 8.7 |
| 1961 | 88.3 | 64.2 | 29.5 | 36.8 | 22.0 | 25.2 | 107.3 | 69.9 | 21.8 | 51.8 | 37.0 | 8.8 |
| 1962 | 93.0 | 67.0 | 31.0 | 38.6 | 24.0 | 27.6 | 119.5 | 80.2 | 25.6 | 58.4 | 38.8 | 8.9 |
| 1963 | 100.0 | 72.3 | 32.7 | 42.2 | 25.5 | 29.8 | 122.7 | 83.5 | 27.0 | 60.1 | 38.7 | 9.9 |
| 1964 | 113.3 | 82.2 | 37.7 | 47.2 | 28.6 | 32.6 | 129.2 | 89.0 | 30.0 | 62.5 | 39.7 | 11.0 |
| 1965 | 115.6 | 82.6 | 39.3 | 45.9 | 30.8 | 34.6 | 143.0 | 101.6 | 37.1 | 67.2 | 40.9 | 12.0 |
| 1966 | 123.4 | 88.4 | 42.2 | 48.8 | 32.6 | 34.3 | 164.2 | 117.6 | 46.2 | 72.5 | 46.0 | 13.4 |
| 1967 | 126.1 | 88.8 | 48.8 | 40.4 | 35.5 | 35.7 | 176.2 | 123.8 | 49.5 | 74.7 | 51.7 | 14.3 |
| 1968 | 135.3 | 95.8 | 53.4 | 42.8 | 37.3 | 39.5 | 202.5 | 149.4 | 63.0 | 84.6 | 52.6 | 16.6 |
| 1969 | 142.7 | 100.8 | 57.7 | 43.2 | 39.6 | 43.7 | 214.0 | 157.5 | 67.3 | 87.8 | 55.9 | 21.9 |
| 1970 | 158.1 | 112.3 | 63.1 | 49.5 | 43.1 | 45.0 | 223.1 | 163.7 | 69.2 | 92.6 | 58.8 | 23.6 |
| 1971 | 159.2 | 111.9 | 62.7 | 49.6 | 45.0 | 46.4 | 235.0 | 177.4 | 76.1 | 98.3 | 57.2 | 22.0 |
| 1972 | 172.0 | 123.9 | 69.2 | 55.1 | 44.7 | 51.7 | 261.0 | 201.6 | 87.6 | 109.8 | 59.1 | 25.3 |
| 1973 | 209.6 | 152.4 | 86.3 | 66.5 | 52.6 | 70.4 | 272.6 | 215.8 | 93.2 | 118.4 | 56.7 | 34.1 |
| 1974 | 229.8 | 164.5 | 99.6 | 65.9 | 61.6 | 82.5 | 265.3 | 209.8 | 93.6 | 111.0 | 55.4 | 41.0 |
| 1975 | 228.2 | 160.7 | 97.5 | 64.2 | 65.6 | 70.2 | 235.4 | 183.4 | 76.5 | 103.0 | 52.5 | 38.7 |
| 1976 | 241.6 | 168.3 | 98.9 | 70.3 | 72.5 | 77.2 | 281.5 | 224.8 | 93.7 | 126.4 | 56.2 | 38.7 |
| 1977 | 247.4 | 170.5 | 98.7 | 72.8 | 77.2 | 83.4 | 311.6 | 252.2 | 106.0 | 140.7 | 58.4 | 39.5 |
| 1978 | 273.1 | 189.5 | 110.0 | 80.6 | 83.0 | 96.8 | 338.6 | 274.8 | 122.5 | 145.3 | 62.5 | 53.5 |
| 1979 | 299.0 | 211.9 | 125.2 | 87.9 | 83.9 | 132.4 | 344.3 | 279.5 | 125.4 | 147.0 | 63.4 | 73.0 |
| 1980 | 331.4 | 237.2 | 139.6 | 98.9 | 89.2 | 141.1 | 321.3 | 258.7 | 126.3 | 126.6 | 61.8 | 83.1 |
| 1981 | 335.3 | 234.7 | 134.7 | 101.4 | 98.5 | 150.1 | 329.7 | 264.0 | 136.8 | 122.8 | 65.4 | 99.4 |
| 1982 | 311.4 | 213.5 | 117.0 | 98.4 | 98.5 | 143.5 | 325.5 | 257.4 | 138.4 | 115.6 | 68.9 | 100.7 |
| 1983 | 303.3 | 207.3 | 114.6 | 94.4 | 96.8 | 138.2 | 366.6 | 292.4 | 166.8 | 123.1 | 74.4 | 95.9 |
| 1984 | 328.4 | 223.7 | 127.0 | 98.1 | 105.9 | 160.3 | 455.7 | 363.1 | 221.9 | 140.2 | 92.9 | 121.9 |
| 1985 | 337.3 | 231.7 | 137.3 | 95.3 | 106.1 | 140.5 | 485.2 | 385.9 | 244.1 | 142.0 | 99.7 | 116.8 |
| 1986 | 362.2 | 243.6 | 145.3 | 99.1 | 120.3 | 134.6 | 526.1 | 425.5 | 266.7 | 158.8 | 100.2 | 120.9 |
| 1987 | 402.0 | 270.5 | 165.7 | 105.0 | 133.4 | 141.9 | 558.2 | 445.2 | 278.5 | 166.8 | 113.1 | 133.0 |
| 1988 | 465.8 | 321.4 | 205.5 | 115.8 | 145.0 | 170.2 | 580.2 | 463.2 | 290.1 | 173.2 | 117.1 | 157.1 |
| 1989 | 520.2 | 361.7 | 236.7 | 124.9 | 158.7 | 189.9 | 603.0 | 482.7 | 302.6 | 180.1 | 120.2 | 176.7 |
| 1990 | 564.4 | 391.6 | 260.0 | 131.6 | 173.1 | 190.6 | 626.3 | 497.3 | 310.9 | 186.4 | 129.4 | 170.2 |
| 1991 | 599.9 | 419.2 | 279.6 | 139.6 | 180.8 | 161.1 | 622.2 | 497.1 | 312.7 | 184.4 | 125.3 | 145.7 |
| 1992 | 639.4 | 448.7 | 300.9 | 147.8 | 190.7 | 137.9 | 669.0 | 544.9 | 346.4 | 198.4 | 124.1 | 126.8 |
| 1993 | 660.6 | 464.5 | 318.3 | 146.2 | 196.2 | 136.5 | 735.0 | 602.5 | 389.9 | 212.5 | 132.5 | 126.6 |
| 1994 | 715.1 | 511.4 | 357.9 | 153.8 | 204.1 | 152.4 | 823.3 | 684.0 | 455.7 | 228.1 | 139.4 | 159.9 |
| 1990: I | 555.2 | 386.8 | 256.1 | 130.6 | 168.6 | 189.5 | 622.3 | 494.2 | 303.1 | 191.1 | 128.5 | 169.5 |
| 11 | 566.8 | 394.8 | 264.2 | 130.6 | 172.2 | 187.1 | 633.5 | 504.0 | 313.3 | 190.7 | 129.8 | 171.0 |
| III | 561.8 | 388.0 | 258.6 | 129.4 | 174.3 | 185.1 | 633.0 | 503.2 | 315.4 | 187.7 | 130.2 | 171.7 |
| IV | 573.9 | 397.0 | 261.2 | 135.8 | 177.3 | 200.9 | 616.4 | 487.9 | 312.0 | 175.9 | 129.0 | 168.7 |
| 1991: | 572.3 | 403.3 | 263.1 | 140.1 | 168.9 | 181.4 | 596.6 | 472.2 | 298.9 | 173.3 | 124.8 | 154.7 |
| 11 | 600.3 | 419.8 | 282.8 | 137.1 | 180.6 | 161.5 | 617.4 | 490.8 | 304.8 | 186.0 | 126.8 | 149.9 |
| III | 603.6 | 420.0 | 281.9 | 138.1 | 183.8 | 152.0 | 633.4 | 509.4 | 320.2 | 189.2 | 124.1 | 143.0 |
| IV .. | 623.5 | 433.7 | 290.5 | 143.3 | 189.8 | 149.4 | 641.4 | 515.9 | 326.8 | 189.1 | 125.6 | 135.2 |
| 1992: 1 | 633.0 | 440.3 | 294.5 | 145.8 | 192.8 | 141.9 | 647.8 | 521.2 | 331.2 | 190.0 | 126.7 | 125.6 |
| II | 635.8 | 445.1 | 298.4 | 146.6 | 190.7 | 143.5 | 668.3 | 543.6 | 344.6 | 199.0 | 124.7 | 132.6 |
| III | 639.7 | 448.3 | 299.5 | 148.8 | 191.3 | 133.4 | 670.5 | 552.8 | 351.0 | 201.8 | 117.7 | 123.9 |
| IV | 649.1 | 461.0 | 311.1 | 149.9 | 188.2 | 132.7 | 689.1 | 561.8 | 359.0 | 202.8 | 127.4 | 125.2 |
| 1993: 1 | 649.8 | 454.3 | 308.5 | 145.8 | 195.5 | 133.0 | 705.1 | 577.3 | 371.9 | 205.3 | 127.8 | 117.3 |
| 11 | 662.3 | 465.8 | 319.0 | 146.8 | 196.5 | 138.2 | 729.4 | 598.6 | 384.2 | 214.4 | 130.8 | 128.9 |
| III ............................... | 648.9 | 453.3 | 310.6 | 142.7 | 195.6 | 136.7 | 738.1 | 605.1 | 391.4 | 213.7 | 133.0 | 123.1 |
| IV .............................. | 681.4 | 484.5 | 335.1 | 149.5 | 197.0 | 138.2 | 767.6 | 629.1 | 412.3 | 216.7 | 138.5 | 137.1 |
| 1994:I .................................. | 680.4 | 481.5 | 336.8 | 144.9 | 199.0 | 139.5 | 781.7 | 643.0 | 422.9 | 219.8 | 138.8 | 138.0 |
| 11 | 704.3 | 501.8 | 352.9 | 149.3 | 202.7 | 145.0 | 816.5 | 676.4 | 449.0 | 227.2 | 140.2 | 152.6 |
| III | 724.8 | 518.3 | 361.7 | 156.7 | 206.8 | 158.0 | 838.1 | 698.1 | 463.9 | 233.9 | 140.2 | 166.3 |
| IV ............................... | 751.0 | 543.9 | 380.1 | 164.1 | 207.7 | 167.1 | 856.8 | 718.6 | 486.8 | 231.3 | 138.5 | 182.9 |
| 1995:I .................................. | 755.8 | 548.9 | 386.1 | 163.2 | 207.6 | 186.3 | 874.9 | 732.8 | 497.9 | 234.4 | 142.4 | 191.9 |
| II .................................. | 764.3 | 557.8 | 396.7 | 161.8 | 207.4 | 193.6 | 891.2 | 750.5 | 511.3 | 238.6 | 141.1 | 201.5 |
| III ............................... | 779.7 | 571.1 | 406.3 | 165.5 | 209.6 | 191.7 | 893.9 | 752.4 | 512.1 | 239.7 | 141.8 | 205.1 |

[^21]Table B-22.-Relation of gross domestic product, gross national product, ne national product, and national income, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross domestic product | Plus: Receipts of factor income rest of the world ${ }^{1}$ | Less:Payments of factor income to rest of the world ${ }^{2}$ | Equals: Gross national product | Less: Consumption of fixed capital |  |  | Equals: <br> Net <br> na- <br> tional product | Less: |  |  | Plus: Subsidies less current surplus of government enterprises | Equals: National income |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Private | Government |  | Indirect business tax and nontax liability | Busi- <br> ness <br> transfer payments | Statistical dis-crepancy |  |  |
| 1959 | 507.2 | 4.3 | 1.5 | 510.1 | 58.6 | 44.5 | 14.1 | 451.5 | 41.9 | 1.4 | -2.1 | 0.1 | 410.4 |
| 1960 | 526.6 | 5.0 | 1.8 | 529.8 | 60.7 | 46.1 | 14.5 | 469.1 | 45.5 | 1.4 | -3.7 | 3 | 426.2 |
| 1961 ... | 544.8 | 5.4 | 1.8 | 548.4 | 62.2 | 47.2 | 15.0 | 486.2 | 48.1 | 1.5 | -3.3 | 1.3 | 441.2 |
| 1962 | 585.2 | 6.1 | 1.8 | 589.4 | 64.7 | 48.9 | 15.8 | 524.8 | 51.7 | 1.6 | -2.4 | 1.5 | 475.3 |
| 1963 | 617.4 | 6.6 | 2.1 | 621.9 | 67.2 | 50.5 | 16.7 | 554.7 | 54.7 | 1.8 | -3.5 | . 9 | 502.6 |
| 1964 ... | 663.0 | 7.4 | 2.4 | 668.0 | 70.4 | 53.1 | 17.4 | 597.6 | 58.8 | 2.0 | -2.1 | 1.4 | 540.2 |
| 1965 | 719.1 | 8.1 | 2.7 | 724.5 | 74.9 | 56.7 | 18.2 | 649.6 | 62.7 | 2.2 | -1.4 | 1.7 | 587.8 |
| 1966 | 787.8 | 8.3 | 3.1 | 793.0 | 81.1 | 61.8 | 19.3 | 711.9 | 65.4 | 2.3 | 2.7 | 3.0 | 644.4 |
| 1967 | 833.6 | 8.9 | 3.4 | 839.1 | 87.8 | 67.0 | 20.8 | 751.3 | 70.4 | 2.5 | . 6 | 2.9 | 680.7 |
| 1968 | 910.6 | 10.3 | 4.1 | 916.7 | 95.4 | 73.0 | 22.4 | 821.3 | 79.0 | 2.8 | . 2 | 3.1 | 742.4 |
| 1969 ... | 982.2 | 11.9 | 5.8 | 988.4 | 103.6 | 79.5 | 24.1 | 884.8 | 86.6 | 3.1 | -2.2 | 3.6 | 800.9 |
| 1970 | 1,035.6 | 13.0 | 6.6 | 1,042.0 | 111.9 | 86.1 | 25.8 | 930.1 | 94.3 | 3.2 | 1.0 | 4.9 | 836.6 |
| 1971 | 1,125.4 | 14.1 | 6.4 | 1,133.1 | 122.0 | 94.4 | 27.6 | 1,011.0 | 103.6 | 3.4 | 5.1 | 5.1 | 904.0 |
| 1972 | 1,237.3 | 16.4 | 7.7 | 1,246.0 | 134.8 | 104.9 | 29.9 | 1,111.2 | 111.4 | 3.9 | 3.2 | 6.4 | 999.2 |
| 1973 | 1,382.6 | 23.8 | 11.1 | 1,395.4 | 148.0 | 115.1 | 32.9 | 1,247.3 | 121.0 | 4.5 | 2.4 | 5.9 | 1,125.3 |
| 1974 ... | 1,496.9 | 30.3 | 14.6 | 1,512.6 | 171.7 | 133.7 | 38.0 | 1,340.9 | 129.3 | 5.0 | 4.5 | 4.5 | 1,206.7 |
| 1975 | 1,630.6 | 28.2 | 14.9 | 1,643.9 | 200.1 | 157.7 | 42.4 | 1,443.8 | 140.0 | 5.2 | 11.2 | 8.1 | 1,295.5 |
| 1976 | 1,819.0 | 32.9 | 15.7 | 1,836.1 | 218.9 | 174.1 | 44.7 | 1,617.2 | 151.6 | 6.5 | 18.9 | 7.4 | 1,447.5 |
| 1977 | 2,026.9 | 37.9 | 17.2 | 2,047.5 | 251.1 | 203.5 | 47.6 | 1,796.4 | 165.5 | 7.3 | 17.5 | 10.1 | 1,616.3 |
| 1978 | 2,291.4 | 47.4 | 25.3 | 2,313.5 | 281.8 | 230.4 | 51.5 | 2,031.6 | 177.8 | 8.2 | 17.6 | 11.1 | 1,839.2 |
| 1979 | 2,557.5 | 70.4 | 37.5 | 2,590.4 | 322.3 | 265.5 | 56.8 | 2,268.1 | 188.7 | 9.9 | 27.8 | 11.7 | 2,053.3 |
| 1980 .. | 2,784.2 | 81.8 | 46.5 | 2,819.5 | 368.0 | 304.6 | 63.4 | 2,451.5 | 212.0 | 11.2 | 27.4 | 15.2 | 2,216.1 |
| 1981. | 3,115.9 | 95.6 | 60.9 | 3,150.6 | 419.9 | 349.5 | 70.4 | 2,730.7 | 249.3 | 13.4 | 14.6 | 16.9 | 2,470.2 |
| 1982 | 3,242.1 | 96.9 | 65.8 | 3,273.2 | 456.3 | 378.3 | 78.1 | 2,816.9 | 256.4 | 15.2 | -2.9 | 21.1 | 2,569.2 |
| 1983 .. | 3,514.5 | 97.6 | 65.6 | 3,546.5 | 477.9 | 397.8 | 80.1 | 3,068.7 | 280.1 | 16.2 | 36.5 | 25.6 | 2,761.4 |
| 1984 ... | 3,902.4 | 118.7 | 87.6 | 3,933.5 | 494.0 | 410.9 | 83.1 | 3,439.5 | 309.5 | 18.6 | 4.2 | 25.5 | 3,132.7 |
| 1985 | 4,180.7 | 108.1 | 87.7 | 4,201.0 | 519.5 | 432.4 | 87.1 | 3,681.5 | 329.6 | 20.9 | 1.4 | 21.9 | 3,351.5 |
| 1986 | 4,422.2 | 106.5 | 93.6 | 4,435.1 | 552.8 | 459.4 | 93.5 | 3,882.2 | 344.7 | 23.9 | 22.1 | 25.1 | 3,516.5 |
| 1987 | 4,692.3 | 116.0 | 107.1 | 4,701.3 | 581.9 | 483.2 | 98.7 | 4,119.4 | 364.8 | 24.2 | -16.6 | 31.0 | 3,778.1 |
| 1988 .. | 5,049.6 | 144.7 | 131.7 | 5,062.6 | 620.2 | 516.0 | 104.2 | 4,442.5 | 385.5 | 25.4 | -48.6 | 28.5 | 4,108.6 |
| 1989 ... | 5,438.7 | 169.0 | 154.8 | 5,452.8 | 662.2 | 551.9 | 110.3 | 4,790.6 | 414.7 | 26.3 | 11.4 | 24.0 | 4,362.1 |
| 1990 ... | 5,743.8 | 177.5 | 156.4 | 5,764.9 | 693.1 | 575.8 | 117.3 | 5,071.9 | 442.6 | 26.5 | 16.1 | 25.3 | 4,611.9 |
| 1991. | 5,916.7 | 156.2 | 140.5 | 5,932.4 | 723.1 | 599.6 | 123.5 | 5,209.3 | 478.1 | 26.3 | 8.7 | 23.6 | 4,719.7 |
| 1992 ... | 6,244.4 | 137.9 | 126.8 | 6,255.5 | 754.2 | 626.1 | 128.2 | 5,501.3 | 505.6 | 28.4 | 43.7 | 27.1 | 4,950.8 |
| 1993 ..... | 6,550.2 | 139.7 | 129.9 | 6,560.0 | 773.8 | 640.0 | 133.8 | 5,786.2 | 540.0 | 28.3 | 55.1 | 31.7 | 5,194.4 |
| 1994 ... | 6,931.4 | 159.2 | 168.1 | 6,922.4 | 818.8 | 678.7 | 140.1 | 6,103.7 | 572.5 | 29.9 | 31.3 | 25.1 | 5,495.1 |
| 1990: I ..... | 5,660.4 | 173.6 | 152.5 | 5,681.4 | 680.1 | 565.6 | 114.5 | 5,001.3 | 432.1 | 26.1 | 43.0 | 23.8 | 4,523.9 |
| II ....... | 5,751.0 | 173.3 | 156.4 | 5,767.8 | 689.0 | 573.2 | 115.8 | 5,078.9 | 436.1 | 26.8 | 17.4 | 24.5 | 4,623.1 |
| III ...... | 5,782.4 | 173.1 | 158.7 | 5,796.8 | 698.6 | 580.6 | 118.0 | 5,098.2 | 447.3 | 26.9 | 16.3 | 25.7 | 4,633.4 |
| IV ...... | 5,781.5 | 190.0 | 157.9 | 5,813.6 | 704.6 | 583.9 | 120.7 | 5,109.0 | 455.0 | 26.4 | -12.3 | 27.3 | 4,667.2 |
| 1991:I ........ | 5,822.1 | 174.0 | 147.1 | 5,849.0 | 713.6 | 592.5 | 121.1 | 5,135.3 | 464.7 | 26.0 | -6.5 | 24.4 | 4,675.6 |
| II....... | 5,892.3 | 156.0 | 143.8 | 5,904.5 | 719.6 | 596.4 | 123.2 | 5,184.9 | 472.9 | 26.3 | 5.6 | 22.7 | 4,702.8 |
| III ...... | 5,950.0 | 148.1 | 138.7 | 5,959.4 | 725.7 | 601.4 | 124.3 | 5,233.7 | 483.7 | 26.0 | 17.2 | 23.5 | 4,730.4 |
| IV ...... | 6,002.3 | 146.6 | 132.2 | 6,016.6 | 733.5 | 608.1 | 125.4 | 5,283.2 | 491.2 | 26.8 | 18.8 | 23.6 | 4,770.0 |
| 1992: I ........ | 6,121.8 | 140.7 | 124.2 | 6,138.3 | 727.6 | 601.3 | 126.3 | 5,410.7 | 495.7 | 27.6 | 23.3 | 24.6 | 4,888.7 |
| II ....... | 6,201.2 | 143.3 | 132.3 | 6,212.2 | 734.1 | 606.4 | 127.7 | 5,478.1 | 497.9 | 28.5 | 36.2 | 25.4 | 4,941.0 |
| III ...... | 6,271.7 | 133.8 | 124.3 | 6,281.1 | 809.2 | 680.5 | 128.6 | 5,471.9 | 507.1 | 28.6 | 51.6 | 26.9 | 4,911.6 |
| IV ...... | 6,383.0 | 133.9 | 126.4 | 6,390.5 | 746.1 | 616.2 | 130.0 | 5,644.3 | 521.7 | 28.8 | 63.6 | 31.5 | 5,061.7 |
| 1993: I | 6,442.8 | 135.3 | 119.7 | 6,458.4 | 765.6 | 633.8 | 131.7 | 5,692.9 | 524.7 | 27.8 | 80.7 | 35.2 | 5,094.9 |
| II | 6,503.2 | 141.2 | 132.1 | 6,512.3 | 767.6 | 634.6 | 133.0 | 5,744.7 | 535.1 | 28.3 | 55.0 | 33.7 | 5,159.9 |
| III ...... | 6,571.3 | 140.1 | 126.6 | 6,584.8 | 783.1 | 648.4 | 134.6 | 5,801.7 | 541.7 | 28.3 | 48.6 | 29.9 | 5,213.0 |
| IV ...... | 6,683.7 | 142.1 | 141.3 | 6,684.5 | 779.1 | 643.3 | 135.8 | 5,905.4 | 558.5 | 29.0 | 36.0 | 28.0 | 5,309.9 |
| 1994:\| | 6,772.8 | 144.4 | 143.6 | 6,773.6 | 887.4 | 748.7 | 138.7 | 5,886.1 | 562.1 | 29.6 | 21.1 | 27.2 | 5,300.5 |
| 11. | 6,885.0 | 151.1 | 159.9 | 6,876.3 | 791.2 | 652.7 | 138.5 | 6,085.1 | 568.0 | 29.9 | 17.5 | 24.0 | 5,493.7 |
| III ... | 6,987.6 | 165.6 | 175.6 | 6,977.6 | 796.7 | 656.7 | 140.0 | 6,180.8 | 576.4 | 29.9 | 46.7 | 23.4 | 5,551.2 |
| IV | 7,080.0 | 175.7 | 193.4 | 7,062.2 | 799.7 | 656.6 | 143.1 | 6,262.5 | 583.5 | 30.3 | 39.7 | 25.9 | 5,635.0 |
| 1995: I | 7,147.8 | 196.9 | 204.1 | 7,140.5 | 809.5 | 664.6 | 144.9 | 6,331.1 | 586.0 | 30.3 | 36.2 | 19.2 | 5,697.7 |
| II ....... | 7,196.5 | 205.6 | 215.0 | 7,187.0 | 820.1 | 673.6 | 146.5 | 6,366.9 | 594.8 | 30.4 | 21.6 | 18.7 | 5,738.9 |
| III ...... | 7,297.2 | 203.9 | 219.8 | 7,281.3 | 829.0 | 681.8 | 147.2 | 6,452.3 | 596.8 | 30.5 | -2.3 | 17.9 | 5,845.1 |

[^22]Source: Department of Commerce, Bureau of Economic Analysis.

Table B-23.-Redation of national income and personal income, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | National income | Less: |  |  |  | Plus: |  |  |  | Equals: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Corporate profits with inventory valuation and capital consumption adjustments ${ }^{1}$ | Net interest | Contributions for social insurance | Wage accruals less disbursements | Personal interest income | Per- <br> sonal <br> divi- <br> dend income | Government transfer payments to persons | Business transfer payments to persons | Personal income |
| 1959 ......................... | 410.4 | 50.2 | 10.2 | 18.8 | 0.0 | 22.7 | 12.7 | 25.7 | 1.3 | 393.5 |
| 1960 | 426.2 | 48.8 | 11.2 | 21.9 | . 0 | 25.0 | 13.4 | 27.5 | 1.3 | 411.7 |
| 1961 .......................... | 441.2 | 49.8 | 13.1 | 22.9 | . 0 | 26.9 | 14.0 | 31.5 | 1.4 | 429.1 |
| 1962 .......................... | 475.3 | 57.7 | 14.6 | 25.4 | . 0 | 29.3 | 15.0 | 32.6 | 1.5 | 456.1 |
| 1963 .......................... | 502.6 | 63.5 | 16.1 | 28.5 | . 0 | 32.4 | 16.1 | 34.5 | 1.7 | 479.1 |
| 1964 ......................... | 540.2 | 70.4 | 18.2 | 30.1 | . 0 | 36.1 | 18.0 | 36.0 | 1.8 | 513.5 |
| 1965 | 587.8 | 80.9 | 21.1 | 31.6 | . 0 | 40.3 | 20.2 | 39.1 | 2.0 | 555.8 |
| 1966 ......................... | 644.4 | 86.3 | 24.3 | 40.6 | . 0 | 44.9 | 20.9 | 43.6 | 2.1 | 604.7 |
| 1967 ......................... | 680.7 | 83.6 | 28.1 | 45.5 | . 0 | 49.5 | 22.1 | 52.3 | 2.3 | 649.7 |
| 1968 ......................... | 742.4 | 90.3 | 30.4 | 50.4 | . 0 | 54.6 | 24.5 | 60.6 | 2.5 | 713.5 |
| 1969 ......................... | 800.9 | 87.5 | 33.6 | 57.8 | . 0 | 60.8 | 25.1 | 67.5 | 2.8 | 778.2 |
| 1970 | 836.6 | 75.7 | 40.0 | 62.0 | . 0 | 69.2 | 23.5 | 81.8 | 2.8 | 836.1 |
| 1971 ......................... | 904.0 | 88.8 | 45.4 | 69.6 | . 6 | 75.7 | 23.5 | 97.0 | 3.0 | 898.9 |
| 1972 .......................... | 999.2 | 102.2 | 49.3 | 79.5 | . 0 | 81.8 | 25.5 | 108.4 | 3.4 | 987.3 |
| 1973 .......................... | 1,125.3 | 115.1 | 56.5 | 97.9 | -. 1 | 94.1 | 27.7 | 124.1 | 3.8 | 1,105.6 |
| 1974 ........................... | 1,206.7 | 103.7 | 71.8 | 111.7 | -. 5 | 112.4 | 29.6 | 147.4 | 4.0 | 1,213.3 |
| 1975 | 1,295.5 | 121.1 | 80.0 | 121.1 | . 1 | 123.0 | 29.2 | 185.7 | 4.5 | 1,315.6 |
| 1976 ......................... | 1,447.5 | 147.0 | 85.1 | 137.7 | . 1 | 134.6 | 35.0 | 202.8 | 5.5 | 1,455.4 |
| 1977 ......................... | 1,616.3 | 167.3 | 100.7 | 155.4 | . 1 | 155.7 | 39.5 | 217.5 | 5.9 | 1,611.4 |
| 1978 ......................... | 1,839.2 | 191.6 | 120.5 | 177.0 | . 3 | 184.5 | 44.3 | 234.8 | 6.8 | 1,820.2 |
| 1979 ......................... | 2,053.3 | 194.0 | 150.3 | 204.2 | -. 2 | 223.6 | 50.5 | 262.8 | 7.9 | 2,049.7 |
| 1980 | 2,216.1 | 167.1 | 191.9 | 225.0 | . 0 | 274.7 | 57.5 | 312.6 | 8.8 | 2,285.7 |
| 1981 ......................... | 2,470.2 | 183.9 | 234.5 | 261.6 | . 1 | 337.2 | 67.2 | 355.7 | 10.2 | 2,560.4 |
| 1982 ......................... | 2,569.2 | 159.2 | 264.9 | 280.6 | . 0 | 379.2 | 66.9 | 396.3 | 11.8 | 2,718.7 |
| 1983 ......................... | 2,761.4 | 212.3 | 275.9 | 301.9 | -. 4 | 403.2 | 77.4 | 426.6 | 12.8 | 2,891.7 |
| 1984 ......................... | 3,132.7 | 268.2 | 318.5 | 345.5 | . 2 | 472.3 | 79.4 | 438.5 | 15.1 | 3,205.5 |
| 1985 .......................... | 3,351.5 | 282.2 | 337.2 | 375.9 | -. 2 | 508.4 | 88.3 | 468.7 | 17.8 | 3,439.6 |
| 1986 .......................... | 3,516.5 | 271.0 | 363.1 | 402.0 | . 0 | 543.3 | 105.1 | 498.0 | 20.7 | 3,647.5 |
| 1987 ......................... | 3,778.1 | 309.7 | 372.2 | 423.3 | . 0 | 560.0 | 101.1 | 522.5 | 20.8 | 3,877.3 |
| 1988 ......................... | 4,108.6 | 357.2 | 398.9 | 462.8 | . 0 | 595.5 | 109.9 | 556.8 | 20.8 | 4,172.8 |
| 1989 ......................... | 4,362.1 | 356.4 | 456.6 | 491.2 | . 0 | 674.5 | 130.9 | 604.9 | 21.1 | 4,489.3 |
| 1990 .......................... | 4,611.9 | 369.5 | 467.3 | 518.5 | . 1 | 704.4 | 142.9 | 666.5 | 21.3 | 4,791.6 |
| 1991 ........................... | 4,719.7 | 382.5 | 448.0 | 543.5 | $-.1$ | 699.2 | 153.6 | 749.1 | 20.8 | 4,968.5 |
| 1992 | 4,950.8 | 401.4 | 414.3 | 571.4 | -15.8 | 667.2 | 159.4 | 835.7 | 22.5 | 5,264.2 |
| 1993 .......................... | 5,194.4 | 464.5 | 398.1 | 592.9 | 4.6 | 647.3 | 186.8 | 888.6 | 22.1 | 5,479.2 |
| 1994 ........................... | 5,495.1 | 526.5 | 392.8 | 628.3 | 14.8 | 661.6 | 199.6 | 933.8 | 22.6 | 5,750.2 |
| 1990:1 ....................... | 4,523.9 | 369.3 | 458.9 | 511.1 | . 0 | 690.6 | 142.0 | 649.2 | 21.3 | 4,687.8 |
| II ....................... | 4,623.1 | 392.8 | 465.0 | 516.2 | . 0 | 701.1 | 143.4 | 656.5 | 21.5 | 4,771.5 |
| III ...................... | 4,633.4 | 350.4 | 467.7 | 522.4 | . 0 | 711.6 | 143.3 | 669.3 | 21.3 | 4,838.4 |
| IV ..................... | 4,667.2 | 365.5 | 477.5 | 524.3 | . 2 | 714.2 | 142.7 | 691.0 | 21.1 | 4,868.6 |
| 1991: I ....................... | 4,675.6 | 393.7 | 460.4 | 536.8 | . 2 | 705.4 | 149.3 | 725.6 | 20.8 | 4,885.6 |
| II........................ | $4,702.8$ | 380.0 | 450.6 | 540.9 | -. 4 | 702.2 | 153.1 | 742.5 | 20.7 | 4,950.2 |
| III ....................... | 4,730.4 | 376.8 | 446.6 | 546.0 | . 0 | 697.0 | 156.4 | 754.1 | 20.8 | 4,989.3 |
| IV ..................... | 4,770.0 | 379.6 | 434.3 | 550.3 | . 0 | 692.3 | 155.7 | 774.0 | 21.1 | 5,048.9 |
| 1992:I ....................... | 4,888.7 | 417.3 | 419.2 | 565.1 | . 0 | 674.1 | 152.3 | 816.4 | 21.9 | 5,151.9 |
| II ....................... | 4,941.0 | 409.3 | 417.5 | 570.1 | . 0 | 673.0 | 154.5 | 831.0 | 22.5 | 5,225.1 |
| III ..................... | 4,911.6 | 351.3 | 408.1 | 574.8 | . 0 | 661.2 | 160.8 | 842.5 | 22.8 | 5,264.6 |
| IV ..................... | 5,061.7 | 427.7 | 412.4 | 575.7 | -63.0 | 660.4 | 170.1 | 853.0 | 22.9 | 5,415.3 |
| 1993: I ....................... | 5,094.9 | 426.4 | 412.6 | 578.3 | 64.0 | 659.0 | 180.0 | 873.6 | 22.3 | 5,348.7 |
| II ...................... | 5,159.9 | 449.0 | 402.6 | 592.8 | 1.0 | 651.6 | 185.4 | 884.8 | 22.1 | 5,458.4 |
| III ..................... | 5,213.0 | 469.6 | 390.4 | 597.5 | 1.0 | 640.0 | 189.7 | 894.3 | 22.0 | 5,500.5 |
| IV ..................... | 5,309.9 | 512.8 | 386.7 | 603.1 | -47.4 | 638.6 | 192.1 | 901.6 | 22.1 | 5,609.1 |
| 1994:I ....................... | 5,300.5 | 455.9 | 388.7 | 614.2 | 51.4 | 639.4 | 193.2 | 917.1 | 22.4 | 5,562.4 |
| II ...................... | 5,493.7 | 531.5 | 393.5 | 627.5 | 3.0 | 657.6 | 197.5 | 927.3 | 22.5 | 5,743.0 |
| III ..................... | 5,551.2 | 549.8 | 397.8 | 632.2 | 3.0 | 671.0 | 201.0 | 938.7 | 22.6 | 5,801.7 |
| IV ...................... | 5,635.0 | 568.9 | 391.1 | 639.3 | 1.6 | 678.4 | 206.7 | 952.0 | 22.7 | 5,893.9 |
| 1995: I ...................... | 5,697.7 | 559.6 | 403.9 | 651.0 | 1.4 | 701.9 | 209.5 | 979.8 | 22.6 | 5,995.5 |
| II ...................... | 5,738.9 | 561.1 | 402.6 | 656.2 | . 0 | 713.9 | 212.2 | 994.2 | 22.6 | 6,061.9 |
| III ..................... | 5,845.1 | 614.4 | 399.8 | 664.0 | . 0 | 719.3 | 215.8 | 1,007.3 | 22.6 | 6,131.9 |

[^23]Table B-24.-N ational income by type of income, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | National income ${ }^{1}$ | Compensation of employees |  |  |  |  |  |  | Proprietors' income with inventory valuation and capital consumption adjustments |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Wages and salaries |  |  | Supplements to wages and salaries |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Farm |  | Nonfarm |  |
|  |  |  | Total | Government | Other |  |  |  | Total | Em- <br> ployer con-tributions for social insurance | $\begin{aligned} & \text { Other } \\ & \text { labor } \\ & \text { income } \end{aligned}$ | Total | Total | Proprietors' income ${ }^{2}$ | Total | Proprietors' income ${ }^{3}$ |
| 1959 | 410.4 | 281.2 | 259.8 | 46.0 | 213.8 | 21.4 | 10.9 | 10.6 | 50.5 | 10.9 | 11.8 | 39.6 | 40.2 |
| 1960 | 426.2 | 296.7 | 272.8 | 49.2 | 223.7 | 23.8 | 12.6 | 11.2 | 50.5 | 11.5 | 12.3 | 39.1 | 39.8 |
| 1961 .... | 441.2 | 305.6 | 280.5 | 52.4 | 228.0 | 25.1 | 13.3 | 11.8 | 53.0 | 12.1 | 12.9 | 40.9 | 41.8 |
| 1962 ... | 475.3 | 327.4 | 299.3 | 56.3 | 243.0 | 28.1 | 15.1 | 13.0 | 55.0 | 12.1 | 12.9 | 42.9 | 43.9 |
| 1963 ........ | 502.6 | 345.5 | 314.8 | 60.0 | 254.8 | 30.7 | 16.7 | 14.0 | 56.3 | 12.0 | 12.7 | 44.3 | 45.2 |
| 1964 ...... | 540.2 | 371.0 | 337.7 | 64.9 | 272.9 | 33.2 | 17.5 | 15.7 | 59.0 | 10.8 | 11.5 | 48.3 | 49.2 |
| 1965 | 587.8 | 399.8 | 363.7 | 69.9 | 293.8 | 36.1 | 18.3 | 17.8 | 63.5 | 13,0 | 13.8 | 50.4 | 51.9 |
| 1966 | 644.4 | 443.0 | 400.3 | 78.3 | 321.9 | 42.7 | 22.8 | 19.9 | 67.6 | 14.1 | 14.9 | 53.5 | 55.4 |
| 1967 ... | 680.7 | 475.5 | 428.9 | 86.4 | 342.5 | 46.6 | 24.9 | 21.7 | 69.1 | 12.7 | 13.7 | 56.4 | 58.3 |
| 1968 ..... | 742.4 | 524.7 | 471.9 | 96.6 | 375.3 | 52.8 | 27.6 | 25.2 | 73.3 | 12.8 | 13.8 | 60.5 | 63.0 |
| 1969 ..... | 800.9 | 578.3 | 518.3 | 105.5 | 412.7 | 60.0 | 31.5 | 28.5 | 77.1 | 14.6 | 15.8 | 62.5 | 65.0 |
| 1970 | 836.6 | 618.1 | 551.5 | 117.1 | 434.3 | 66.6 | 34.1 | 32.5 | 78.0 | 14.8 | 16.1 | 63.2 | 66.0 |
| 1971 | 904.0 | 660.1 | 584.5 | 126.7 | 457.8 | 75.6 | 38.9 | 36.7 | 83.9 | 15.5 | 16.9 | 68.3 | 72.0 |
| 1972 | 999.2 | 726.8 | 638.7 | 137.8 | 500.9 | 88.1 | 45.1 | 43.0 | 95.2 | 19.5 | 21.2 | 75.8 | 79.3 |
| 1973 | 1,125.3 | 813.1 | 708.6 | 148.7 | 560.0 | 104.4 | 55.3 | 49.2 | 113.3 | 32.6 | 34.6 | 80.7 | 85.9 |
| 1974 ..... | 1,206.7 | 892.4 | 772.2 | 160.4 | 611.8 | 120.3 | 63.7 | 56.5 | 111.3 | 25.9 | 28.5 | 85.4 | 93.4 |
| 1975 | 1,295.5 | 951.3 | 814.7 | 176.1 | 638.6 | 136.6 | 70.6 | 65.9 | 116.5 | 24.2 | 27.7 | 92.3 | 99.2 |
| 1976 | 1,447.5 | 1,061.5 | 899.6 | 188.7 | 710.8 | 162.0 | 82.2 | 79.7 | 127.5 | 18.7 | 22.8 | 108.8 | 116.3 |
| 1977 | 1,616.3 | 1,182.9 | 994.0 | 202.4 | 791.6 | 188.9 | 94.1 | 94.7 | 140.8 | 17.9 | 22.3 | 122.9 | 131.0 |
| 1978 | 1,839.2 | 1,338.5 | 1,121.1 | 219.8 | 901.2 | 217.4 | 107.3 | 110.1 | 162.2 | 22.9 | 27.7 | 139.2 | 148.7 |
| 1979 ..... | 2,053.3 | 1,503.3 | 1,255.7 | 236.9 | 1,018.8 | 247.5 | 123.2 | 124.3 | 177.3 | 26.6 | 32.2 | 150.8 | 160.9 |
| 1980 | 2,216.1 | 1,653.9 | 1,377.6 | 261.2 | 1,116.4 | 276.3 | 136.4 | 139.8 | 167.9 | 13.8 | 20.7 | 154.1 | 165.2 |
| 1981 | 2,470.2 | 1,827.8 | 1,517.6 | 285.6 | 1,232.0 | 310.2 | 157.1 | 153.0 | 178.3 | 23.7 | 31.6 | 154.6 | 160.7 |
| 1982 | 2,569.2 | 1,927.6 | 1,593.9 | 307.3 | 1,286.7 | 333.7 | 168.3 | 165.4 | 169.9 | 16.4 | 24.8 | 153.5 | 158.2 |
| 1983 | 2,761.4 | 2,044.2 | 1,684.8 | 324.5 | 1,360.3 | 359.4 | 182.2 | 177.2 | 181.7 | 6.0 | 14.1 | 175.8 | 172.2 |
| 1984 ..... | 3,132.7 | 2,257.0 | 1,855.3 | 347.8 | 1,507.5 | 401.7 | 212.8 | 188.9 | 237.9 | 24.8 | 32.7 | 213.1 | 199.7 |
| 1985 | 3,351.5 | 2,425.7 | 1,995.7 | 373.5 | 1,622.1 | 430.0 | 226.9 | 203.1 | 257.4 | 24.9 | 32.4 | 232.5 | 210.5 |
| 1986 | 3,516.5 | 2,572.4 | 2,116.5 | 396.6 | 1,720.0 | 455.9 | 239.9 | 216.0 | 267.8 | 25.2 | 32.6 | 242.6 | 215.9 |
| 1987 | 3,778.1 | 2,757.7 | 2,272.7 | 423.1 | 1,849.5 | 485.0 | 249.7 | 235.4 | 292.9 | 32.3 | 39.6 | 260.6 | 238.2 |
| 1988 | 4,108.6 | 2,973.9 | 2,453.6 | 450.4 | 2,003.2 | 520.3 | 268.6 | 251.7 | 322.9 | 28.2 | 35.4 | 294.7 | 272.0 |
| 1989 ..... | 4,362.1 | 3,151.6 | 2,598.1 | 479.4 | 2,118.7 | 553.5 | 280.4 | 273.1 | 345.0 | 36.8 | 44.3 | 308.2 | 284.8 |
| 1990 | 4,611.9 | 3,352.8 | 2,757.5 | 517.2 | 2,240.3 | 595.2 | 294.6 | 300.6 | 361.0 | 36.3 | 43.8 | 324.6 | 312.7 |
| 1991 | 4,719.7 | 3,457.9 | 2,827.6 | 546.0 | 2,281.5 | 630.4 | 307.7 | 322.7 | 362.9 | 30.2 | 37.7 | 332.7 | 325.0 |
| 1992 | 4,950.8 | 3,644.9 | 2,970.6 | 567.8 | 2,402.9 | 674.3 | 323.0 | 351.3 | 409.5 | 38.0 | 45.7 | 371.5 | 363.1 |
| 1993 | 5,194.4 | 3,809.4 | 3,095.2 | 584.2 | 2,511.0 | 714.2 | 333.3 | 380.9 | 420.0 | 32.0 | 39.5 | 388.1 | 381.0 |
| 1994 | 5,495.1 | 4,008.3 | 3,255.9 | 602.5 | 2,653.4 | 752.4 | 350.2 | 402.2 | 450.9 | 35.0 | 42.5 | 415.9 | 411.5 |
| 1990: 1 | 4,523.9 | 3,285.5 | 2,704.0 | 504.3 | 2,199.6 | 581.5 | 290.1 | 291.4 | 354.7 | 36.1 | 43.5 | 318.6 | 302.2 |
| II .... | 4,623.1 | 3,344.7 | 2,753.0 | 514.3 | 2,238.6 | 591.7 | 294.0 | 297.8 | 362.7 | 39.4 | 46.7 | 323.3 | 309.4 |
| III ... | 4,633.4 | 3,384.9 | 2,784.5 | 520.8 | 2,263.6 | 600.5 | 296.4 | 304.0 | 365.6 | 36.0 | 43.5 | 329.6 | 319.7 |
| IV ... | 4,667.2 | 3,395.9 | 2,788.8 | 529.4 | 2,259.3 | 607.1 | 297.9 | 309.2 | 360.9 | 33.9 | 41.3 | 327.1 | 319.6 |
| 1991: \| ...... | 4,675.6 | 3,405.7 | 2,789.5 | 541.5 | 2,248.0 | 616.2 | 303.8 | 312.4 | 349.2 | 27.6 | 35.1 | 321.6 | 313.0 |
| II ..... | 4,702.8 | 3,440.7 | 2,814.7 | 544.9 | 2,269.8 | 626.0 | 306.3 | 319.7 | 365.1 | 34.2 | 41.6 | 331.0 | 323.3 |
| III ... | 4,730.4 | 3,474.2 | 2,838.8 | 546.9 | 2,292.0 | 635.4 | 309.1 | 326.3 | 365.2 | 28.0 | 35.5 | 337.1 | 329.9 |
| IV ... | 4,770.0 | 3,511.0 | 2,867.1 | 550.8 | 2,316.3 | 643.8 | 311.4 | 332.4 | 372.1 | 31.0 | 38.5 | 341.1 | 333.7 |
| 1992: \| ...... | 4,888.7 | 3,577.1 | 2,916.5 | 561.4 | 2,355.1 | 660.7 | 319.9 | 340.8 | 396.5 | 36.7 | 44.2 | 359.8 | 350.8 |
| II .... | 4,941.0 | 3,626.5 | 2,956.2 | 567.2 | 2,389.0 | 670.3 | 322.7 | 347.6 | 406.9 | 37.9 | 45.4 | 368.9 | 360.7 |
| III ... | 4,911.6 | 3,669.2 | 2,988.2 | 569.8 | 2,418.3 | 681.0 | 325.1 | 355.9 | 412.1 | 39.9 | 48.3 | 372.3 | 364.4 |
| IV ... | 5,061.7 | 3,707.0 | 3,021.7 | 572.5 | 2,449.2 | 685.3 | 324.2 | 361.1 | 422.4 | 37.3 | 44.8 | 385.1 | 376.3 |
| 1993: \| ...... | 5,094.9 | 3,744.1 | 3,045.9 | 580.9 | 2,465.0 | 698.2 | 325.9 | 372.2 | 413.5 | 31.5 | 39.0 | 382.0 | 375.5 |
| II .... | 5,159.9 | 3,787.8 | 3,075.1 | 581.4 | 2,493.8 | 712.6 | 333.5 | 379.1 | 417.6 | 35.8 | 43.3 | 381.8 | 375.7 |
| III ... | 5,213.0 | 3,834.8 | 3,114.9 | 586.3 | 2,528.6 | 719.9 | 335.6 | 384.3 | 414.2 | 26.1 | 33.8 | 388.1 | 380.0 |
| IV ... | 5,309.9 | 3,871.0 | 3,144.9 | 588.3 | 2,556.5 | 726.2 | 338.1 | 388.0 | 434.9 | 34.4 | 41.9 | 400.5 | 392.7 |
| 1994: I ...... | 5,300.5 | 3,933.6 | 3,195.2 | 596.5 | 2,598.7 | 738.5 | 342.9 | 395.6 | 421.1 | 40.8 | 48.2 | 380.3 | 399.3 |
| II .... | 5,493.7 | 3,993.3 | 3,242.8 | 601.7 | 2,641.1 | 750.5 | 350.0 | 400.5 | 454.4 | 35.1 | 42.5 | 419,3 | 409.1 |
| III ... | 5,551.2 | 4,022.7 | 3,265.5 | 603.7 | 2,661.7 | 757.2 | 352.3 | 404.9 | 458.7 | 31.9 | 39.4 | 426.8 | 415.1 |
| IV ... | 5,635.0 | 4,083.7 | 3,320.2 | 608.3 | 2,711.9 | 763.5 | 355.8 | 407.8 | 469.4 | 32.3 | 39.8 | 437.1 | 422.5 |
| 1995: I ...... | 5,697.7 | 4,141.6 | 3,363.0 | 616.3 | 2,746.6 | 778.6 | 360.8 | 417.7 | 472.0 | 28.5 | 36.1 | 443.5 | 429.6 |
| II .... | 5,738.9 | 4,178.9 | 3,393.3 | 619.6 | 2,773.6 | 785.6 | 363.6 | 422.0 | 474.7 | 27.6 | 35.1 | 447.1 | 433.1 |
| III ... | 5,845.1 | 4,232.9 | 3,439.3 | 624.1 | 2,815.2 | 793.7 | 367.8 | 425.9 | 479.7 | 27.4 | 34.9 | 452.3 | 436.4 |

[^24]Table B-24.-N ational income by type of income, 1959-95-Continued
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Rental income of persons with capital consumption adjustment |  |  | Corporate profits with inventory valuation and capital consumption adjustments |  |  |  |  |  |  |  |  | Net interest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total | Profits with inventory valuation adjustment and without capital consumption adjustment |  |  |  |  |  |  | Capital consumption adjustment |  |
|  | Total | Rental income of persons | Capital consumption adjustment |  | Total | Profits |  |  |  |  | Inventory valuation adjustment |  |  |
|  |  |  |  |  |  | Profits before tax | Profits tax liability | Profits after tax |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Total | Dividends | Undistributed profits |  |  |  |
| 1959 | 18.2 | 19.7 | -1.5 | 50.2 | 53.1 | 53.4 | 23.6 | 29.7 | 12.7 | 17.0 | -0.3 | -2.9 | 10.2 |
| 1960 | 19.1 | 20.6 | -1.5 | 48.8 | 51.0 | 51.1 | 22.7 | 28.4 | 13.4 | 15.0 | -. 2 | -2.2 | 11.2 |
| 1961 | 19.8 | 21.2 | -1.4 | 49.8 | 51.3 | 51.0 | 22.8 | 28.2 | 14.0 | 14.3 | . 3 | -1.5 | 13.1 |
| 1962 | 20.6 | 22.0 | -1.4 | 57.7 | 56.4 | 56.4 | 24.0 | 32.4 | 15.0 | 17.4 | . 0 | 1.3 | 14.6 |
| 1963. | 21.3 | 22.6 | -1.3 | 63.5 | 61.2 | 61.2 | 26.2 | 34.9 | 16.1 | 18.8 | . 1 | 2.3 | 16.1 |
| 1964. | 21.7 | 23.0 | -1.3 | 70.4 | 67.5 | 68.0 | 28.0 | 40.0 | 18.0 | 22.0 | -. 5 | 2.8 | 18.2 |
| 1965 | 22.5 | 24.0 | -1.5 | 80.9 | 77.6 | 78.8 | 30.9 | 47.9 | 20.2 | 27.8 | -1.2 | 3.4 | 21.1 |
| 1966 | 23.2 | 24.9 | -1.7 | 86.3 | 83.0 | 85.1 | 33.7 | 51.4 | 20.9 | 30.5 | -2.1 | 3.3 | 24.3 |
| 1967 | 24.4 | 26.3 | -1.9 | 83.6 | 80.3 | 81.8 | 32.7 | 49.2 | 22.1 | 27.1 | -1.6 | 3.3 | 28.1 |
| 1968. | 23.7 | 26.0 | -2.3 | 90.3 | 86.9 | 90.6 | 39.4 | 51.2 | 24.6 | 26.6 | -3.7 | 3.4 | 30.4 |
| 1969. | 24.4 | 27.3 | -2.8 | 87.5 | 83.2 | 89.0 | 39.7 | 49.4 | 25.2 | 24.1 | -5.9 | 4.4 | 33.6 |
| 1970 | 24.7 | 27.8 | -3.1 | 75.7 | 71.8 | 78.4 | 34.4 | 44.0 | 23.7 | 20.3 | -6.6 | 3.9 | 40.0 |
| 1971. | 25.8 | 29.5 | -3.7 | 88.8 | 85.5 | 90.1 | 37.7 | 52.4 | 23.7 | 28.6 | -4.6 | 3.3 | 45.4 |
| 1972. | 25.7 | 30.3 | -4.6 | 102.2 | 97.9 | 104.5 | 41.9 | 62.6 | 25.8 | 36.9 | -6.6 | 4.3 | 49.3 |
| 1973 .. | 27.4 | 32.8 | -5.4 | 115.1 | 110.9 | 130.9 | 49.3 | 81.6 | 28.1 | 53.5 | -20.0 | 4.1 | 56.5 |
| 1974 .............. | 27.5 | 34.4 | -6.9 | 103.7 | 103.4 | 142.8 | 51.8 | 91.0 | 30.4 | 60.6 | -39.5 | . 3 | 71.8 |
| 1975 | 26.6 | 34.9 | -8.4 | 121.1 | 129.4 | 140.4 | 50.9 | 89.5 | 30.1 | 59.4 | -11.0 | -8.3 | 80.0 |
| 1976 .. | 26.3 | 35.7 | -9.5 | 147.0 | 158.9 | 173.8 | 64.2 | 109.6 | 35.9 | 73.7 | -14.9 | -11.8 | 85.1 |
| 1977 .............. | 24.7 | 36.4 | -11.7 | 167.3 | 186.8 | 203.5 | 73.0 | 130.4 | 40.8 | 89.6 | -16.6 | -19.6 | 100.7 |
| 1978 .............. | 26.5 | 41.2 | -14.7 | 191.6 | 213.1 | 238.1 | 83.5 | 154.6 | 46.0 | 108.6 | -25.0 | -21.5 | 120.5 |
| 1979 .............. | 28.4 | 46.7 | -18.3 | 194.0 | 220.2 | 261.8 | 88.0 | 173.8 | 52.5 | 121.3 | -41.6 | -26.2 | 150.3 |
| 1980 ... | 35.3 | 57.3 | -22.0 | 167.1 | 198.3 | 241.4 | 84.8 | 156.6 | 59.3 | 97.3 | -43.0 | -31.2 | 191.9 |
| 1981. | 45.7 | 70.7 | -25.1 | 183.9 | 204.1 | 229.8 | 81.1 | 148.6 | 69.5 | 79.1 | -25.7 | -20.1 | 234.5 |
| 1982. | 47.6 | 74.7 | -27.1 | 159.2 | 166.8 | 176.7 | 63.1 | 113.6 | 69.8 | 43.8 | -9.9 | -7.6 | 264.9 |
| 1983 .............. | 47.2 | 74.8 | -27.6 | 212.3 | 203.7 | 212.8 | 77.2 | 135.5 | 80.8 | 54.8 | -9.1 | 8.6 | 275.9 |
| 1984 .............. | 51.0 | 79.2 | -28.2 | 268.2 | 238.5 | 244.2 | 94.0 | 150.1 | 83.2 | 66.9 | -5.6 | 29.7 | 318.5 |
|  | 49.1 | 79.0 | -29.9 | 282.2 | 230.5 | 229.9 | 96.5 | 133.4 | 92.8 | 40.6 | . 5 | 51.8 | 337.2 |
| $1986$ | 42.3 | 72.6 | -30.4 | 271.0 | 234.0 | 222.6 | 106.5 | 116.1 | 110.2 | 5.8 | 11.4 | 37.0 | 363.1 |
| 1987 .. | 45.5 | 77.6 | -32.1 | 309.7 | 272.9 | 293.6 | 127.1 | 166.5 | 107.0 | 59.5 | -20.7 | 36.8 | 372.2 |
| 1988 .............. | 55.7 | 89.7 | -33.9 | 357.2 | 325.0 | 354.3 | 137.0 | 217.3 | 116.8 | 100.5 | -29.3 | 32.2 | 398.9 |
| 1989 .............. | 52.4 | 91.0 | -38.5 | 356.4 | 330.6 | 348.1 | 141.3 | 206.8 | 138.9 | 67.9 | -17.5 | 25.8 | 456.6 |
|  | 61.4 | 98.6 | -37.2 | 369.5 | 358.2 | 371.7 | 140.5 | 231.2 | 151.9 | 79.4 | -13.5 | 11.3 | 467.3 |
| $1991$ | 68.4 | 107.0 | -38.6 | 382.5 | 378.2 | 374.2 | 133.4 | 240.8 | 163.1 | 77.7 | 4.0 | 4.3 | 448.0 |
| $1992$ | 80.6 | 126.9 | -46.2 | 401.4 | 398.9 | 406.4 | 143.0 | 263.4 | 169.5 | 93.9 | -7.5 | 2.5 | 414.3 |
| $1993$ | 102.5 | 144.3 | -41.8 | 464.5 | 457.7 | 464.3 | 163.8 | 300.5 | 197.3 | 103.3 | -6.6 | 6.7 | 398.1 |
| 1994 .............. | 116.6 | 159.4 | -42.8 | 526.5 | 514.9 | 528.2 | 195.3 | 332.9 | 211.0 | 121.9 | -13.3 | 11.6 | 392.8 |
| 1990: 1 | 55.5 |  |  |  |  |  |  | 221.7 | 150.7 | 71.1 | -1.3 | 15.9 | 458.9 |
| II ........... | 57.9 | 94.9 | -37.1 | 392.8 | 381.1 | 373.4 | 141.2 | 232.2 | 152.4 | 79.8 | 7.7 | 11.7 | 465.0 |
| III .......... | 64.8 | 102.3 | -37.5 | 350.4 | 341.9 | 381.9 | 148.0 | 233.9 | 152.4 | 81.6 | -40.0 | 8.5 | 467.7 |
| IV .......... | 67.3 | 104.9 | -37.5 | 365.5 | 356.5 | 376.7 | 139.7 | 237.1 | 152.0 | 85.0 | -20.3 | 9.0 | 477.5 |
| 1991: 1 | 66.6 | 104.1 | -37.5 | 393.7 |  | 370.7 | 130.1 | 240.7 | 158.6 | 82.0 | 17.6 | 5.4 | 460.4 |
| II... | 66.3 | 103.9 | -37.5 | 380.0 | 375.5 | 368.7 | 132.3 | 236.4 | 162.6 | 73.8 | 6.8 | 4.6 | 450.6 |
| III ... | 67.6 | 105.3 | -37.7 | 376.8 | 373.8 | 374.6 | 136.0 | 238.6 | 165.9 | 72.7 | -. 8 | 3.0 | 446.6 |
| IV .......... | 73.0 | 114.6 | -41.6 | 379.6 | 375.2 | 382.8 | 135.2 | 247.6 | 165.3 | 82.2 | -7.6 | 4.5 | 434.3 |
| 1992: 1 | 78.6 | 114.8 | -36.2 | 417.3 | 411.4 | 411.1 | 143.9 | 267.2 | 162.1 | 105.2 | . 3 | 5.9 | 419.2 |
| II ........... | 80.9 | 117.5 | -36.6 | 409.3 | 404.3 | 426.2 | 150.9 | 275.2 | 164.6 | 110.6 | -21.9 | 5.0 | 417.5 |
| III ......... | 70.8 | 144.8 | -73.9 | 351.3 | 359.4 | 368.0 | 127.6 | 240.4 | 170.9 | 69.5 | -8.6 | -8.1 | 408.1 |
| IV .......... | 92.3 | 130.4 | -38.1 | 427.7 | 420.5 | 420.3 | 149.7 | 270.6 | 180.4 | 90.3 | . 2 | 7.2 | 412.4 |
| 1993: I . | 98.4 | 142.6 | -44.2 | 426.4 | 421.4 | 436.0 | 151.5 | 284.6 | 190.2 | 94.4 | -14.6 | 5.0 | 412.6 |
| 11. | 102.9 | 143.4 | -40.5 | 449.0 | 443.2 | 458.8 | 162.6 | 296.2 | 195.8 | 100.4 | -15.6 | 5.8 | 402.6 |
| III ........... | 104.1 | 146.5 | -42.5 | 469.6 | 465.9 | 458.0 | 159.3 | 298.6 | 200.2 | 98.4 | 7.9 | 3.8 | 390.4 |
| IV .......... | 104.5 | 144.6 | -40.1 | 512.8 | 500.4 | 504.5 | 181.7 | 322.7 | 202.9 | 119.8 | -4.0 | 12.3 | 386.7 |
| 1994: $1 .$. | 101.1 | 162.2 | -61.0 | 455.9 | 467.8 | 471.7 | 171.4 | 300.3 | 204.4 | 95.9 | -3.9 | -11.8 | 388.7 |
| 11. | 121.0 | 159.0 | -37.9 | 531.5 | 513.4 | 523.2 | 192.8 | 330.4 | 208.8 | 121.7 | -9.8 | 18.1 | 393.5 |
| III ... | 122.2 | 159.2 | -37.0 | 549.8 | 531.0 | 547.5 | 203.4 | 344.1 | 212.5 | 131.6 | -16.5 | 18.8 | 397.8 |
| IV .... | 121.9 | 157.2 | -35.3 | 568.9 | 547.6 | 570.4 | 213.5 | 356.8 | 218.5 | 138.3 | -22.8 | 21.3 | 391.1 |
| 1995: $1 . .$. | 120.6 | 156.3 | -35.7 | 559.6 | 542.2 | 594.1 | 217.3 | 376.8 | 221.7 | 155.1 | -51.9 | 17.4 | 403.9 |
| II.... | 121.6 | 157.2 | -35.6 | 561.1 | 546.1 | 588.4 | 214.2 | 374.1 | 224.6 | 149.6 | -42.3 | 15.0 | 402.6 |
| III .......... | 118.3 | 154.2 | -35.8 | 614.4 | 599.8 | 609.6 | 224.5 | 385.1 | 228.5 | 156.6 | -9.8 | 14.6 | 399.8 |

[^25]Source: Department of Commerce, Bureau of Economic Analysis.

Table B-25. - Sources of personal income, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Personal income | Wage and salary disbursements ${ }^{1}$ |  |  |  |  |  |  | Other labor income ${ }^{1}$ | Proprietors' income with inventory valuation and capital consumption adjustments |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Private Industry |  |  |  |  | Government |  |  |  |
|  |  |  | Total | Commodityproducing industries |  | Distributive industries | Service industries |  |  |  |  |
|  |  |  |  | Total | Manufacturing |  |  |  |  | Farm | Nonfarm |
| 1959 | 393.5 | 259.8 | 213.8 | 109.9 | 86.9 | 65.1 | 38.8 | 46.0 | 10.6 | 10.9 | 39.6 |
| 1960 | 411.7 | 272.8 | 223.7 | 113.4 | 89.8 | 68.6 | 41.7 | 49.2 | 11.2 | 11.5 | 39.1 |
| 1961 ............ | 429.1 | 280.5 | 228.0 | 114.0 | 89.9 | 69.6 | 44.4 | 52.4 | 11.8 | 12.1 | 40.9 |
| 1962 ............ | 456.1 | 299.3 | 243.0 | 122.2 | 96.8 | 73.3 | 47.6 | 56.3 | 13.0 | 12.1 | 42.9 |
| 1963 ............ | 479.1 | 314.8 | 254.8 | 127.4 | 100.7 | 76.8 | 50.7 | 60.0 | 14.0 | 12.0 | 44.3 |
| 1964 ............ | 513.5 | 337.7 | 272.9 | 136.0 | 107.3 | 82.0 | 54.9 | 64.9 | 15.7 | 10.8 | 48.3 |
| 1965 | 555.8 | 363.7 | 293.8 | 146.6 | 115.7 | 87.9 | 59.4 | 69.9 | 17.8 | 13.0 | 50.4 |
| 1966 .. | 604.7 | 400.3 | 321.9 | 161.6 | 128.2 | 95.1 | 65.3 | 78.3 | 19.9 | 14.1 | 53.5 |
| 1967 ... | 649.7 | 428.9 | 342.5 | 169.0 | 134.3 | 101.6 | 72.0 | 86.4 | 21.7 | 12.7 | 56.4 |
| 1968 | 713.5 | 471.9 | 375.3 | 184.1 | 146.0 | 110.8 | 80.4 | 96.6 | 25.2 | 12.8 | 60.5 |
| 1969 ............ | 778.2 | 518.3 | 412.7 | 200.4 | 157.7 | 121.7 | 90.6 | 105.5 | 28.5 | 14.6 | 62.5 |
| 1970 | 836.1 | 551.5 | 434.3 | 203.7 | 158.4 | 131.2 | 99.4 | 117.1 | 32.5 | 14.8 | 63.2 |
| 1971 ... | 898.9 | 583.9 | 457.4 | 209.1 | 160.5 | 140.4 | 107.9 | 126.5 | 36.7 | 15.5 | 68.3 |
| 1972 | 987.3 | 638.7 | 501.2 | 228.2 | 175.6 | 153.3 | 119.7 | 137.4 | 43.0 | 19.5 | 75.8 |
| 1973 | 1,105.6 | 708.7 | 560.0 | 255.9 | 196.6 | 170.3 | 133.9 | 148.7 | 49.2 | 32.6 | 80.7 |
| 1974 | 1,213.3 | 772.6 | 611.8 | 276.5 | 211.8 | 186.8 | 148.6 | 160.9 | 56.5 | 25.9 | 85.4 |
| 1975 | 1,315.6 | 814.6 | 638.6 | 277.1 | 211.6 | 198.1 | 163.4 | 176.0 | 65.9 | 24.2 | 92.3 |
| 1976 | 1,455.4 | 899.5 | 710.8 | 309.7 | 238.0 | 219.5 | 181.6 | 188.6 | 79.7 | 18.7 | 108.8 |
| 1977 ... | 1,611.4 | 993.9 | 791.6 | 346.1 | 266.7 | 242.7 | 202.8 | 202.3 | 94.7 | 17.9 | 122.9 |
| 1978 ............ | 1,820.2 | 1,120.8 | 901.2 | 392.6 | 300.1 | 274.9 | 233.7 | 219.6 | 110.1 | 22.9 | 139.2 |
| 1979 ............ | 2,049.7 | 1,255.9 | 1,018.8 | 442.5 | 335.3 | 308.5 | 267.8 | 237.1 | 124.3 | 26.6 | 150.8 |
| 1980 | 2,285.7 | 1,377.7 | 1,116.4 | 472.5 | 356.4 | 336.7 | 307.2 | 261.3 | 139.8 | 13.8 | 154.1 |
| 1981 ............ | 2,560.4 | 1,517.6 | 1,232.0 | 514.9 | 388.0 | 368.5 | 348.6 | 285.6 | 153.0 | 23.7 | 154.6 |
| 1982 ... | 2,718.7 | 1,593.9 | 1,286.7 | 515.1 | 386.2 | 385.9 | 385.7 | 307.3 | 165.4 | 16.4 | 153.5 |
| 1983 ............ | 2,891.7 | 1,685.3 | 1,360.3 | 528.2 | 401.2 | 405.7 | 426.4 | 325.0 | 177.2 | 6.0 | 175.8 |
| 1984 ............ | 3,205.5 | 1,855.1 | 1,507.5 | 586.6 | 445.9 | 445.2 | 475.6 | 347.6 | 188.9 | 24.8 | 213.1 |
| 1985 ... | 3,439.6 | 1,995.9 | 1,622.1 | 620.7 | 468.9 | 476.5 | 525.0 | 373.8 | 203.1 | 24.9 | 232.5 |
| 1986 ... | 3,647.5 | 2,116.5 | 1,720.0 | 637.3 | 481.2 | 501.6 | 581.0 | 396.6 | 216.0 | 25.2 | 242.6 |
| 1987 | 3,877.3 | 2,272.7 | 1,849.5 | 660.4 | 497.2 | 535.4 | 653.7 | 423.1 | 235.4 | 32.3 | 260.6 |
| 1988 ............ | 4,172.8 | 2,453.6 | 2,003.2 | 707.0 | 530.1 | 575.3 | 720.9 | 450.4 | 251.7 | 28.2 | 294.7 |
| 1989 ............. | 4,489.3 | 2,598.1 | 2,118.7 | 732.4 | 548.1 | 606.8 | 779.5 | 479.4 | 273.1 | 36.8 | 308.2 |
| 1990 ............ | 4,791.6 | 2,757.5 | 2,240.3 | 754.2 | 561.2 | 634.1 | 852.1 | 517.2 | 300.6 | 36.3 | 324.6 |
| 1991 ..... | 4,968.5 | 2,827.6 | 2,281.5 | 746.3 | 562.5 | 646.6 | 888.6 | 546.1 | 322.7 | 30.2 | 332.7 |
| 1992 ...... | 5,264.2 | 2,986.4 | 2,418.6 | 765.7 | 583.5 | 680.3 | 972.6 | 567.8 | 351.3 | 38.0 | 371.5 |
| 1993 ............ | 5,479.2 | 3,090.6 | 2,506.3 | 781.3 | 593.1 | 698.4 | 1,026.6 | 584.2 | 380.9 | 32.0 | 388.1 |
| 1994 ............ | 5,750.2 | 3,241.1 | 2,638.6 | 825.0 | 621.3 | 739.3 | 1,074.3 | 602.5 | 402.2 | 35.0 | 415.9 |
| 1990: I .......... | 4,687.8 | 2,704.0 | 2,199.6 | 748.7 | 554.8 | 624.4 | 826.5 | 504.3 | 291.4 | 36.1 | 318.6 |
| II......... | 4,771.5 | 2,753.0 | 2,238.6 | 757.7 | 563.9 | 633.9 | 847.1 | 514.3 | 297.8 | 39.4 | 323.3 |
| III ....... | 4,838.4 | 2,784.4 | 2,263.6 | 758.5 | 564.9 | 638.9 | 866.2 | 520.8 | 304.0 | 36.0 | 329.6 |
| IV ........ | 4,868.6 | 2,788.6 | 2,259.3 | 751.8 | 561.2 | 639.1 | 868.4 | 529.3 | 309.2 | 33.9 | 327.1 |
| 1991:I .......... | 4,885.6 | 2,789.3 | 2,248.0 | 742.5 | 555.5 | 636.7 | 868.8 | 541.3 | 312.4 | 27.6 | 321.6 |
| II......... | 4,950.2 | 2,815.1 | 2,269.8 | 742.8 | 558.4 | 644.6 | 882.5 | 545.3 | 319.7 | 34.2 | 331.0 |
| III ....... | 4,989.3 | 2,838.8 | 2,292.0 | 749.4 | 566.3 | 649.7 | 892.8 | 546.9 | 326.3 | 28.0 | 337.1 |
| IV ........ | 5,048.9 | 2,867.1 | 2,316.3 | 750.6 | 569.7 | 655.3 | 910.5 | 550.8 | 332.4 | 31.0 | 341.1 |
| 1992: \| ........ | 5,151.9 | 2,916.5 | 2,355.1 | 752.7 | 571.5 | 666.2 | 936.2 | 561.4 | 340.8 | 36.7 | 359.8 |
| II......... | 5,225.1 | 2,956.2 | 2,389.0 | 761.9 | 579.6 | 673.6 | 953.4 | 567.2 | 347.6 | 37.9 | 368.9 |
| III ....... | 5,264.6 | 2,988.2 | 2,418.3 | 764.6 | 583.0 | 681.5 | 972.2 | 569.8 | 355.9 | 39.9 | 372.3 |
| IV ........ | 5,415.3 | 3,084.7 | 2,512.2 | 783.6 | 599.7 | 699.9 | 1,028.6 | 572.5 | 361.1 | 37.3 | 385.1 |
| 1993: I .......... | 5,348.7 | 2,981.9 | 2,401.0 | 757.1 | 573.8 | 674.7 | 969.2 | 580.9 | 372.2 | 31.5 | 382.0 |
| II ......... | 5,458.4 | 3,074.2 | 2,492.8 | 778.5 | 591.5 | 696.2 | 1,018.1 | 581.4 | 379.1 | 35.8 | 381.8 |
| III ....... | 5,500.5 | 3,113.9 | 2,527.6 | 785.5 | 596.0 | 704.0 | 1,038.1 | 586.3 | 384.3 | 26.1 | 388.1 |
| IV ........ | 5,609.1 | 3,192.3 | 2,603.9 | 804.2 | 611.0 | 718.7 | 1,081.1 | 588.3 | 388.0 | 34.4 | 400.5 |
| 1994:I .......... | 5,562.4 | 3,143.7 | 2,547.3 | 801.2 | 604.3 | 714.5 | 1,031.6 | 596.5 | 395.6 | 40.8 | 380.3 |
| II......... | 5,743.0 | 3,239.8 | 2,638.1 | 820.7 | 618.8 | 738.8 | 1,078.6 | 601.7 | 400.5 | 35.1 | 419.3 |
| III ....... | 5,801.7 | 3,262.4 | 2,658.7 | 832.0 | 626.1 | 741.5 | 1,085.2 | 603.7 | 404.9 | 31.9 | 426.8 |
| IV ........ | 5,893.9 | 3,318.5 | 2,710.3 | 846.0 | 636.0 | 762.7 | 1,101.6 | 608.3 | 407.8 | 32.3 | 437.1 |
| 1995: I ........ | 5,995.5 | 3,361.6 | 2,745.2 | 856.2 | 643.4 | 768.8 | 1,120.2 | 616.3 | 417.7 | 28.5 | 443.5 |
| II ......... | 6,061.9 | 3,393.3 | 2,773.6 | 855.0 | 640.5 | 778.6 | 1,140.0 | 619.6 | 422.0 | 27.6 | 447.1 |
| III ....... | 6,131.9 | 3,439.3 | 2,815.2 | 859.9 | 642.9 | 792.4 | 1,162.8 | 624.1 | 425.9 | 27.4 | 452.3 |

${ }^{1}$ The total of wage and salary disbursements and other labor income differs from compensation of employees in Table B-24 in that it excludes employer contributions for social insurance and the excess of wage accruals over wage disbursements.

See next page for continuation of table.

Table B-25.-Sources of personal income, 1959-95-Continued
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Rental income of persons with capital consumption adjustment | Personal dividend income | Personal interest income | Transfer payments to persons |  |  |  |  |  |  | Less: <br> Personal contributions for social insurance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total | Old-age, survivors, disability, and health insurance benefits | Government unemployment insurance benefits | Veterans benefits | Government employees retirement benefits | Aid to families with dependent children (AFDC) | Other |  |
| 1959 ................ | 18.2 | 12.7 | 22.7 | 27.0 | 10.2 | 2.8 | 4.6 | 2.8 | 0.9 | 5.7 | 7.9 |
| 1960 | 19.1 | 13.4 | 25.0 | 28.8 | 11.1 | 3.0 | 4.6 | 3.1 | 1.0 | 6.1 | 9.3 |
| 1961 | 19.8 | 14.0 | 26.9 | 32.8 | 12.6 | 4.3 | 5.0 | 3.4 | 1.1 | 6.5 | 9.7 |
| 1962 | 20.6 | 15.0 | 29.3 | 34.1 | 14.3 | 3.1 | 4.7 | 3.7 | 1.3 | 7.0 | 10.3 |
| 1963 | 21.3 | 16.1 | 32.4 | 36.2 | 15.2 | 3.0 | 4.8 | 4.2 | 1.4 | 7.6 | 11.8 |
| 1964 ................ | 21.7 | 18.0 | 36.1 | 37.9 | 16.0 | 2.7 | 4.7 | 4.7 | 1.5 | 8.2 | 12.6 |
| 1965 | 22.5 | 20.2 | 40.3 | 41.1 | 18.1 | 2.3 | 4.9 | 5.2 | 1.7 | 9.0 | 13.3 |
| 1966 | 23.2 | 20.9 | 44.9 | 45.7 | 20.8 | 1.9 | 4.9 | 6.1 | 1.9 | 10.3 | 17.8 |
| 1967 | 24.4 | 22.1 | 49.5 | 54.6 | 25.5 | 2.2 | 5.6 | 6.9 | 2.3 | 12.2 | 20.6 |
| 1968 | 23.7 | 24.5 | 54.6 | 63.2 | 30.2 | 2.1 | 5.9 | 7.6 | 2.8 | 14.5 | 22.9 |
| 1969 ................. | 24.4 | 25.1 | 60.8 | 70.3 | 32.9 | 2.2 | 6.7 | 8.7 | 3.5 | 16.2 | 26.2 |
| 1970 | 24.7 | 23.5 | 69.2 | 84.6 | 38.5 | 4.0 | 7.7 | 10.2 | 4.8 | 19.4 | 27.9 |
| 1971 | 25.8 | 23.5 | 75.7 | 100.1 | 44.5 | 5.8 | 8.8 | 11.8 | 6.2 | 23.0 | 30.7 |
| 1972 | 25.7 | 25.5 | 81.8 | 111.8 | 49.6 | 5.7 | 9.7 | 13.8 | 6.9 | 26.1 | 34.5 |
| 1973 | 27.4 | 27.7 | 94.1 | 127.9 | 60.4 | 4.4 | 10.4 | 16.0 | 7.2 | 29.5 | 42.6 |
| 1974 ................. | 27.5 | 29.6 | 112.4 | 151.3 | 70.1 | 6.8 | 11.8 | 19.0 | 7.9 | 35.7 | 47.9 |
| 1975 | 26.6 | 29.2 | 123.0 | 190.2 | 81.4 | 17.6 | 14.5 | 22.7 | 9.2 | 44.7 | 50.4 |
| 1976 | 26.3 | 35.0 | 134.6 | 208.3 | 92.9 | 15.8 | 14.4 | 26.1 | 10.1 | 49.1 | 55.5 |
| 1977 ... | 24.7 | 39.5 | 155.7 | 223.3 | 104.9 | 12.7 | 13.8 | 29.0 | 10.6 | 52.4 | 61.2 |
| 1978 | 26.5 | 44.3 | 184.5 | 241.6 | 116.2 | 9.7 | 13.9 | 32.7 | 10.7 | 58.4 | 69.8 |
| 1979 ................ | 28.4 | 50.5 | 223.6 | 270.7 | 131.8 | 9.8 | 14.4 | 36.9 | 11.0 | 66.8 | 81.0 |
| 1980 | 35.3 | 57.5 | 274.7 | 321.5 | 154.2 | 16.1 | 15.0 | 43.0 | 12.4 | 80.8 | 88.6 |
| 1981 | 45.7 | 67.2 | 337.2 | 365.9 | 182.0 | 15.9 | 16.1 | 49.4 | 13.0 | 89.7 | 104.5 |
| 1982 | 47.6 | 66.9 | 379.2 | 408.1 | 204.5 | 25.2 | 16.4 | 54.6 | 13.3 | 94.1 | 112.3 |
| 1983 | 47.2 | 77.4 | 403.2 | 439.4 | 221.7 | 26.3 | 16.6 | 58.0 | 14.2 | 102.6 | 119.7 |
| 1984 ................ | 51.0 | 79.4 | 472.3 | 453.6 | 235.7 | 15.9 | 16.4 | 60.9 | 14.8 | 109.9 | 132.7 |
| 1985 | 49.1 | 88.3 | 508.4 | 486.5 | 253.4 | 15.7 | 16.7 | 66.6 | 15.4 | 118.7 | 149.0 |
| 1986 | 42.3 | 105.1 | 543.3 | 518.6 | 269.2 | 16.3 | 16.7 | 70.7 | 16.4 | 129.3 | 162.1 |
| 1987 | 45.5 | 101.1 | 560.0 | 543.3 | 282.9 | 14.5 | 16.6 | 76.0 | 16.7 | 136.6 | 173.7 |
| 1988 | 55.7 | 109.9 | 595.5 | 577.6 | 300.4 | 13.3 | 16.9 | 82.2 | 17.3 | 147.6 | 194.2 |
| 1989 | 52.4 | 130.9 | 674.5 | 626.0 | 325.1 | 14.4 | 17.3 | 87.6 | 18.0 | 163.6 | 210.8 |
| 1990 | 61.4 | 142.9 | 704.4 | 687.8 | 352.0 | 18.1 | 17.8 | 94.5 | 19.8 | 185.6 | 223.9 |
| 1991 | 68.4 | 153.6 | 699.2 | 769.9 | 382.3 | 26.8 | 18.3 | 102.2 | 22.0 | 218.2 | 235.8 |
| 1992 | 80.6 | 159.4 | 667.2 | 858.2 | 414.0 | 38.9 | 19.3 | 109.0 | 23.3 | 253.8 | 248.4 |
| 1993 ..... | 102.5 | 186.8 | 647.3 | 910.7 | 444.4 | 34.0 | 20.1 | 116.4 | 23.9 | 271.8 | 259.6 |
| 1994 ................ | 116.6 | 199.6 | 661.6 | 956.3 | 472.9 | 23.7 | 20.2 | 125.8 | 24.2 | 289.5 | 278.1 |
| 1990: \| ............... | 55.5 | 142.0 | 690.6 | 670.5 | 348.1 | 16.4 | 18.0 | 93.0 | 19.1 | 175.9 | 221.0 |
| II .............. | 57.9 | 143.4 | 701.1 | 678.1 | 348.6 | 17.1 | 17.8 | 93.7 | 19.5 | 181.4 | 222.3 |
| III ............. | 64.8 | 143.3 | 711.6 | 690.6 | 352.6 | 18.2 | 17.7 | 94.9 | 20.0 | 187.2 | 225.9 |
| IV ............ | 67.3 | 142.7 | 714.2 | 712.0 | 358.7 | 20.9 | 17.8 | 96.4 | 20.5 | 197.6 | 226.4 |
| 1991: \| .............. | 66.6 | 149.3 | 705.4 | 746.4 | 374.6 | 24.5 | 18.1 | 102.2 | 21.1 | 205.9 | 233.0 |
| II ............. | 66.3 | 153.1 | 702.2 | 763.2 | 380.0 | 27.7 | 18.7 | 101.6 | 21.8 | 213.5 | 234.6 |
| III ............. | 67.6 | 156.4 | 697.0 | 774.9 | 384.7 | 26.0 | 18.3 | 102.3 | 22.2 | 221.4 | 236.9 |
| IV ............ | 73.0 | 155.7 | 692.3 | 795.1 | 389.9 | 29.2 | 18.2 | 102.9 | 22.7 | 232.2 | 238.9 |
| 1992:I ............. | 78.6 | 152.3 | 674.1 | 838.3 | 405.4 | 39.2 | 20.4 | 107.8 | 23.0 | 242.5 | 245.2 |
| II ............. | 80.9 | 154.5 | 673.0 | 853.5 | 412.2 | 40.4 | 18.9 | 108.6 | 23.1 | 250.2 | 247.4 |
| III ............ | 70.8 | 160.8 | 661.2 | 865.3 | 416.9 | 38.7 | 18.8 | 109.0 | 23.4 | 258.5 | 249.7 |
| IV ............ | 92.3 | 170.1 | 660.4 | 875.8 | 421.5 | 37.1 | 19.1 | 110.5 | 23.5 | 264.2 | 251.4 |
| 1993: \| .............. | 98.4 | 180.0 | 659.0 | 895.9 | 436.8 | 34.4 | 20.1 | 114.2 | 23.7 | 266.7 | 252.3 |
| II .............. | 102.9 | 185.4 | 651.6 | 906.9 | 441.9 | 34.3 | 20.3 | 115.8 | 24.0 | 270.6 | 259.3 |
| III ............. | 104.1 | 189.7 | 640.0 | 916.4 | 446.7 | 34.7 | 20.2 | 117.2 | 24.0 | 273.6 | 261.9 |
| IV ............. | 104.5 | 192.1 | 638.6 | 923.6 | 452.1 | 32.6 | 20.0 | 118.5 | 24.1 | 276.3 | 265.0 |
| 1994:I | 101.1 | 193.2 | 639.4 | 939.5 | 463.6 | 27.9 | 20.0 | 120.2 | 24.2 | 283.6 | 271.4 |
| II .............. | 121.0 | 197.5 | 657.6 | 949.8 | 470.4 | 23.9 | 20.0 | 124.6 | 24.2 | 286.7 | 277.6 |
| III ............. | 122.2 | 201.0 | 671.0 | 961.4 | 475.6 | 21.8 | 20.4 | 128.1 | 24.2 | 291.3 | 279.9 |
| IV ............ | 121.9 | 206.7 | 678.4 | 974.7 | 482.1 | 21.2 | 20.3 | 130.4 | 24.1 | 296.5 | 283.5 |
| 1995: I .............. | 120.6 | 209.5 | 701.9 | 1,002.4 | 497.6 | 21.2 | 20.8 | 132.9 | 23.8 | 306.1 | 290.2 |
| II .............. | 121.6 | 212.2 | 713.9 | 1,016.8 | 505.1 | 21.0 | 20.7 | 135.5 | 23.5 | 311.1 | 292.7 |
| III ............. | 118.3 | 215.8 | 719.3 | 1,029.9 | 510.7 | 22.0 | 21.1 | 136.4 | 23.1 | 316.6 | 296.2 |

Note. - The industry classification of wage and salary disbursements and proprietors' income is on an establishment basis and is based on the 1987 Standard Industrial Classification (SIC) beginning 1987 and on the 1972 SIC for earlier years shown.

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-26.-D isposition of personal income, 1959-95
[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Personal income | Less: <br> Personal tax and nontax payments | Equals: Disposable personal income | Less: Personal outlays |  |  |  | Equals: Personal saving | Percent of disposable personal income ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Personal |  | Personal outlays |  | Personal saving |
|  |  |  |  | Total | consumption expenditures | Interest paid by persons | payments to rest of the world (net) |  | Total | Personal consumption expenditures |  |
| 1959 ................... | 393.5 | 44.5 | 349.0 | 324.7 | 318.1 | 6.1 | 0.4 | 24.3 | 93.0 | 91.1 | 7.0 |
| 1960 | 411.7 | 48.7 | 362.9 | 339.6 | 332.2 | 7.0 | . 5 | 23.3 | 93.6 | 91.5 | 6.4 |
| 1961 .................... | 429.1 | 50.3 | 378.8 | 350.5 | 342.6 | 7.3 | . 5 | 28.3 | 92.5 | 90.5 | 7.5 |
| 1962 .................. | 456.1 | 54.8 | 401.3 | 371.8 | 363.4 | 7.8 | . 5 | 29.5 | 92.6 | 90.6 | 7.4 |
| 1963 ................... | 479.1 | 58.0 | 421.1 | 392.5 | 383.0 | 8.9 | . 6 | 28.6 | 93.2 | 90.9 | 6.8 |
| 1964 .................. | 513.5 | 56.0 | 457.6 | 422.1 | 411.4 | 10.0 | . 7 | 35.5 | 92.2 | 89.9 | 7.7 |
| 1965 | 555.8 | 61.9 | 493.9 | 456.2 | 444.3 | 11.1 | . 8 | 37.8 | 92.4 | 89.9 | 7.6 |
| 1966 | 604.7 | 71.0 | 533.7 | 494.7 | 481.9 | 12.0 | . 8 | 39.1 | 92.7 | 90.3 | 7.3 |
| 1967 ................... | 649.7 | 77.9 | 571.9 | 523.0 | 509.5 | 12.5 | 1.0 | 48.9 | 91.4 | 89.1 | 8.5 |
| 1968 ................... | 713.5 | 92.1 | 621.4 | 574.6 | 559.8 | 13.8 | 1.0 | 46.8 | 92.5 | 90.1 | 7.5 |
| 1969 .................. | 778.2 | 109.9 | 668.4 | 621.4 | 604.7 | 15.7 | 1.1 | 46.9 | 93.0 | 90.5 | 7.0 |
| 1970 | 836.1 | 109.0 | 727.1 | 666.1 | 648.1 | 16.8 | 1.2 | 61.0 | 91.6 | 89.1 | 8.4 |
| 1971 .. | 898.9 | 108.7 | 790.2 | 721.6 | 702.5 | 17.8 | 1.3 | 68.6 | 91.3 | 88.9 | 8.7 |
| 1972 | 987.3 | 132.0 | 855.3 | 791.6 | 770.7 | 19.6 | 1.3 | 63.6 | 92.6 | 90.1 | 7.4 |
| 1973 | 1,105.6 | 140.6 | 965.0 | 875.4 | 851.6 | 22.4 | 1.4 | 89.6 | 90.7 | 88.2 | 9.3 |
| 1974 .................. | 1,213.3 | 159.1 | 1,054.2 | 956.6 | 931.2 | 24.2 | 1.2 | 97.6 | 90.7 | 88.3 | 9.3 |
| 1975 | 1,315.6 | 156.4 | 1,159.2 | 1,054.8 | 1,029.1 | 24.5 | 1.2 | 104.4 | 91.0 | 88.8 | 9.0 |
| 1976 ................... | 1,455.4 | 182.3 | 1,273.0 | 1,176.7 | 1,148.8 | 26.7 | 1.2 | 96.4 | 92.4 | 90.2 | 7.6 |
| 1977 . | 1,611.4 | 210.0 | 1,401.4 | 1,308.9 | 1,277.1 | 30.7 | 1.2 | 92.5 | 93.4 | 91.1 | 6.6 |
| 1978 ................... | 1,820.2 | 240.1 | 1,580.1 | 1,467.6 | 1,428.8 | 37.5 | 1.3 | 112.6 | 92.9 | 90.4 | 7.1 |
| 1979 .................. | 2,049.7 | 280.2 | 1,769.5 | 1,639.5 | 1,593.5 | 44.5 | 1.4 | 130.1 | 92.7 | 90.1 | 7.4 |
| 1980 | 2,285.7 | 312.4 | 1,973.3 | 1,811.5 | 1,760.4 | 49.4 | 1.6 | 161.8 | 91.8 | 89.2 | 8.2 |
| 1981 ................... | 2,560.4 | 360.2 | 2,200.2 | 2,001.1 | 1,941.3 | 54.6 | 5.2 | 199.1 | 90.9 | 88.2 | 9.1 |
| 1982 ................... | 2,718.7 | 371.4 | 2,347.3 | 2,141.8 | 2,076.8 | 58.8 | 6.2 | 205.5 | 91.2 | 88.5 | 8.8 |
| 1983 ................... | 2,891.7 | 369.3 | 2.522 .4 | 2,355.5 | 2,283.4 | 65.5 | 6.5 | 167.0 | 93.4 | 90.5 | 6.6 |
| 1984 .................. | 3,205.5 | 395.5 | 2,810.0 | 2,574.4 | 2,492.3 | 74.7 | 7.4 | 235.7 | 91.6 | 88.7 | 8.4 |
| 1985 ................... | 3,439.6 | 437.7 | 3,002.0 | 2,795.8 | 2,704.8 | 83.2 | 7.8 | 206.2 | 93.1 | 90.1 | 6.9 |
| 1986 ................... | 3,647.5 | 459.9 | 3,187.6 | 2,991.1 | 2,892.7 | 90.3 | 8.1 | 196.5 | 93.8 | 90.7 | 6.2 |
| 1987 ... | 3,877.3 | 514.2 | 3,363.1 | 3,194.7 | 3,094.5 | 91.5 | 8.7 | 168.4 | 95.0 | 92.0 | 5.0 |
| 1988 .................. | 4,172.8 | 532.0 | 3,640.8 | 3,451.7 | 3,349.7 | 92.9 | 9.1 | 189.1 | 94.8 | 92.0 | 5.2 |
| 1989 .................. | 4,489.3 | 594.9 | 3,894.5 | 3,706.7 | 3,594.8 | 102.4 | 9.6 | 187.8 | 95.2 | 92.3 | 4.8 |
| 1990 ................... | 4,791.6 | 624.8 | 4,166.8 | 3,958.1 | 3,839.3 | 108.9 | 9.9 | 208.7 | 95.0 | 92.1 | 5.0 |
| 1991 .................... | 4,968.5 | 624.8 | 4,343.7 | 4,097.4 | 3,975.1 | 111.9 | 10.4 | 246.4 | 94.3 | 91.5 | 5.7 |
| 1992 .................. | 5,264.2 | 650.5 | 4,613.7 | 4,341.0 | 4,219.8 | 111.7 | 9.6 | 272.6 | 94.1 | 91.5 | 5.9 |
| 1993 .................. | 5,479.2 | 689.9 | 4,789.3 | 4,572.9 | 4,454.1 | 108.9 | 9.9 | 216.4 | 95.5 | 93.0 | 4.5 |
| 1994 .................... | 5,750.2 | 731.4 | 5,018.8 | 4,826.5 | 4,698.7 | 117.2 | 10.6 | 192.3 | 96.2 | 93.6 | 3.8 |
| 1990:I ................. | 4,687.8 | 613.0 | 4,074.8 | 3,875.8 | 3,759.2 | 106.7 | 9.9 | 199.0 | 95.1 | 92.3 | 4.9 |
| II ............... | 4,771.5 | 628.2 | 4,143.3 | 3,929.4 | 3,811.8 | 108.0 | 9.5 | 213.9 | 94.8 | 92.0 | 5.2 |
| III ............... | 4,838.4 | 630.8 | 4,207.6 | 3,999.3 | 3,879.2 | 109.8 | 10.2 | 208.3 | 95.0 | 92.2 | 5.0 |
| IV ............... | 4,868.6 | 627.1 | 4,241.5 | 4,027.9 | 3,907.0 | 110.9 | 10.1 | 213.5 | 95.0 | 92.1 | 5.0 |
| 1991:I ................. | 4,885.6 | 622.3 | 4,263.3 | 4,032.5 | 3,910.7 | 111.4 | 10.4 | 230.8 | 94.6 | 91.7 | 5.4 |
| II ............... | 4,950.2 | 620.5 | 4,329.6 | 4,083.3 | 3,961.0 | 112.0 | 10.3 | 246.3 | 94.3 | 91.5 | 5.7 |
| III ............... | $4,989.3$ | 623.7 | 4,365.6 | 4,123.9 | 4,001.6 | 112.0 | 10.2 | 241.7 | 94.5 | 91.7 | 5.5 |
| IV .............. | 5,048.9 | 632.5 | 4,416.4 | 4,149.8 | 4,027.1 | 112.1 | 10.6 | 266.6 | 94.0 | 91.2 | 6.0 |
| 1992: I ................. | 5,151.9 | 636.7 | 4,515.2 | 4,250.0 | 4,127.6 | 112.9 | 9.4 | 265.2 | 94.1 | 91.4 | 5.9 |
| II ................ | 5,225.1 | 640.0 | 4,585.1 | 4,304.8 | 4,183.0 | 112.1 | 9.7 | 280.3 | 93.9 | 91.2 | 6.1 |
| III ................ | 5,264.6 | 650.6 | 4,613.9 | 4,359.5 | 4,238.9 | 111.4 | 9.2 | 254.5 | 94.5 | 91.9 | 5.5 |
| IV ............... | 5,415.3 | 674.8 | 4,740.5 | 4,450.0 | 4,329.6 | 110.4 | 9.9 | 290.5 | 93.9 | 91.3 | 6.1 |
| 1993: I ................ | 5,348.7 | 662.4 | 4,686.3 | 4,486.6 | 4,367.8 | 109.0 | 9.9 | 199.6 | 95.7 | 93.2 | 4.3 |
| II ................ | 5,458.4 | 686.9 | 4,771.6 | 4,542.6 | 4,424.7 | 108.0 | 9.9 | 228.9 | 95.2 | 92.7 | 4.8 |
| III ............... | 5,500.5 | 696.4 | 4,804.1 | 4,599.3 | 4,481.0 | 108.5 | 9.8 | 204.9 | 95.7 | 93.3 | 4.3 |
| IV .............. | 5,609.1 | 713.8 | 4,895.3 | 4,663.2 | 4,543.0 | 110.0 | 10.1 | 232.1 | 95.3 | 92.8 | 4.7 |
| 1994:I ................. | 5,562.4 | 705.5 | 4,856.9 | 4,723.0 | 4,599.2 | 113.0 | 10.8 | 133.9 | 97.2 | 94.7 | 2.8 |
| II ................ | 5,743.0 | 740.8 | 5,002.2 | 4,791.9 | 4,665.1 | 115.8 | 11.0 | 210.3 | 95.8 | 93.3 | 4.2 |
| III ............... | 5,801.7 | 731.3 | 5,070.4 | 4,863.0 | 4,734.4 | 118.4 | 10.3 | 207.4 | 95.9 | 93.4 | 4.1 |
| IV ............... | 5,893.9 | 748.1 | 5,145.7 | 4,927.9 | 4,796.0 | 121.5 | 10.5 | 217.8 | 95.8 | 93.2 | 4.2 |
| 1995: I ................. | 5,995.5 | 770.0 | 5,225.5 | 4,972.2 | 4,836.3 | 125.3 | 10.5 | 253.3 | 95.2 | 92.6 | 4.8 |
| II ................ | 6,061.9 | 801.5 | 5,260.4 | 5,049.0 | 4,908.7 | 129.8 | 10.5 | 211.4 | 96.0 | 93.3 | 4.0 |
| III ............... | 6,131.9 | 801.3 | 5,330.6 | 5,109.7 | 4,965.1 | 134.0 | 10.6 | 220.9 | 95.9 | 93.1 | 4.1 |

[^26]Source: Department of Commerce, Bureau of Economic Analysis.

Table B-27.-Total and per capita disposable personal income and personal consumption expenditures in current and real dollars, 1959-95
[Quarterly data at seasonally adjusted annual rates, except as noted]

| Year or quarter | Disposable personal income |  |  |  | Personal consumption expenditures |  |  |  | Gross domestic product per capita (dollars) |  | Population (thousands) ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total (billions of dollars) |  | Per capita (dollars) |  | Total (billions of dollars) |  | Per capita (dollars) |  |  |  |  |
|  | Current dollars | Chained (1992) dollars | Current dollars | Chained (1992) dollars | Current dollars | Chained (1992) dollars | Current dollars | Chained (1992) dollars | Current dollars | Chained (1992) dollars |  |
| 1959 | 349.0 | 1,530.1 | 1,971 | 8,641 | 318.1 | 1,394.6 | 1,796 | 7,876 | 2,865 | 12,494 | 177,073 |
| 1960 | 362.9 | 1,565.4 | 2,008 | 8,660 | 332.2 | 1,432.6 | 1,838 | 7,926 | 2,913 | 12,512 | 180,760 |
| 1961 .. | 378.8 | 1,615.8 | 2,062 | 8,794 | 342.6 | 1,461.5 | 1,865 | 7,954 | 2,965 | 12,571 | 183,742 |
| 1962 ... | 401.3 | 1,693.7 | 2,151 | 9,077 | 363.4 | 1,533.8 | 1,948 | 8,220 | 3,136 | 13,125 | 186,590 |
| 1963 ... | 421.1 | 1,755.5 | 2,225 | 9,274 | 383.0 | 1,596.6 | 2,023 | 8,434 | 3,261 | 13,492 | 189,300 |
| 1964 ... | 457.6 | 1,881.9 | 2,384 | 9,805 | 411.4 | 1,692.3 | 2,144 | 8,817 | 3,455 | 14,083 | 191,927 |
| 1965 | 493.9 | 2,000.2 | 2,541 | 10,292 | 444.3 | 1,799.1 | 2,286 | 9,257 | 3,700 | 14,792 | 194,347 |
| 1966 | 533.7 | 2,106.6 | 2,715 | 10,715 | 481.9 | 1,902.0 | 2,451 | 9,674 | 4,007 | 15,565 | 196,599 |
| 1967 | 571.9 | 2,198.4 | 2,877 | 11,061 | 509.5 | 1,958.6 | 2,563 | 9,854 | 4,194 | 15,800 | 198,752 |
| 1968 | 621.4 | 2,298.2 | 3,096 | 11,448 | 559.8 | 2,070.2 | 2,789 | 10,313 | 4,536 | 16,382 | 200,745 |
| 1969 ... | 668.4 | 2,373.6 | 3,297 | 11,708 | 604.7 | 2,147.5 | 2,982 | 10,593 | 4,845 | 16,712 | 202,736 |
| 1970 | 727.1 | 2,465.6 | 3,545 | 12,022 | 648.1 | 2,197.8 | 3,160 | 10,717 | 5,050 | 16,520 | 205,089 |
| 1971 ... | 790.2 | 2,564.0 | 3,805 | 12,345 | 702.5 | 2,279.5 | 3,383 | 10,975 | 5,419 | 16,853 | 207,692 |
| 1972 ... | 855.3 | 2,680.8 | 4,074 | 12,770 | 770.7 | 2,415.9 | 3,671 | 11,508 | 5,894 | 17,579 | 209,924 |
| 1973 | 965.0 | 2,869.4 | 4,553 | 13,539 | 851.6 | 2,532.6 | 4,018 | 11,950 | 6,524 | 18,412 | 211,939 |
| 1974 ... | 1,054.2 | 2,847.0 | 4,928 | 13,310 | 931.2 | 2,514.7 | 4,353 | 11,756 | 6,998 | 18,178 | 213,898 |
| 1975 | 1,159.2 | 2,895.0 | 5,367 | 13,404 | 1,029.1 | 2,570.0 | 4,765 | 11,899 | 7,550 | 17,896 | 215,981 |
| 1976 | 1,273.0 | 3,008.0 | 5,837 | 13,793 | 1,148.8 | 2,714.3 | 5,268 | 12,446 | 8,341 | 18,713 | 218,086 |
| 1977 | 1,401.4 | 3,105.1 | 6,362 | 14,095 | 1,277.1 | 2,829.8 | 5,797 | 12,846 | 9,201 | 19,426 | 220,289 |
| 1978 | 1,580.1 | 3,264.2 | 7,097 | 14,662 | 1,428.8 | 2,951.6 | 6,418 | 13,258 | 10,292 | 20,185 | 222,629 |
| 1979 ... | 1,769.5 | 3,353.9 | 7,861 | 14,899 | 1,593.5 | 3,020.2 | 7,079 | 13,417 | 11,361 | 20,541 | 225,106 |
| 1980 | 1,973.3 | 3,373.3 | 8,665 | 14,813 | 1,760.4 | 3,009.7 | 7,730 | 13,216 | 12,226 | 20,252 | 227,726 |
| 1981 | 2,200.2 | 3,452.3 | 9,566 | 15,009 | 1,941.3 | 3,046.4 | 8,440 | 13,245 | 13,547 | 20,542 | 230,008 |
| 1982 | 2,347.3 | 3,483.0 | 10,108 | 14,999 | 2,076.8 | 3,081.5 | 8,943 | 13,270 | 13,961 | 19,911 | 232,218 |
| 1983 | 2,522.4 | 3,579.9 | 10,764 | 15,277 | 2,283.4 | 3,240.6 | 9,744 | 13,829 | 14,998 | 20,527 | 234,332 |
| 1984 ... | 2,810.0 | 3,841.9 | 11,887 | 16,252 | 2,492.3 | 3,407.6 | 10,543 | 14,415 | 16,508 | 21,736 | 236,394 |
| 1985 | 3,002.0 | 3,958.6 | 12,587 | 16,597 | 2,704.8 | 3,566.5 | 11,341 | 14,954 | 17,529 | 22,345 | 238,506 |
| 1986 | 3,187.6 | 4,087.0 | 13,244 | 16,981 | 2,892.7 | 3,708.7 | 12,019 | 15,409 | 18,374 | 22,810 | 240,682 |
| 1987 | 3,363.1 | 4,154.1 | 13,849 | 17,106 | 3,094.5 | 3,822.3 | 12,743 | 15,740 | 19,323 | 23,260 | 242,842 |
| 1988 | 3,640.8 | 4,318.1 | 14,857 | 17,621 | 3,349.7 | 3,972.7 | 13,669 | 16,211 | 20,605 | 23,924 | 245,061 |
| 1989 ... | 3,894.5 | 4,403.7 | 15,742 | 17,801 | 3,594.8 | 4,064.6 | 14,531 | 16,430 | 21,984 | 24,497 | 247,387 |
| 1990 | 4,166.8 | 4,484.6 | 16,670 | 17,942 | 3,839.3 | 4,132.2 | 15,360 | 16,532 | 22,979 | 24,559 | 249,956 |
| 1991 | 4,343.7 | 4,486.4 | 17,191 | 17,755 | 3,975.1 | 4,105.8 | 15,732 | 16,249 | 23,416 | 24,058 | 252,680 |
| 1992 | 4,613.7 | 4,613.7 | 18,062 | 18,062 | 4,219.8 | 4,219.8 | 16,520 | 16,520 | 24,447 | 24,447 | 255,432 |
| 1993 .. | 4,789.3 | 4,666.2 | 18,552 | 18,075 | 4,454.1 | 4,339.7 | 17,253 | 16,810 | 25,373 | 24,728 | 258,159 |
| 1994 .. | 5,018.8 | 4,775.6 | 19,253 | 18,320 | 4,698.7 | 4,471.1 | 18,025 | 17,152 | 26,589 | 25,335 | 260,681 |
| 1990: I | 4,074.8 | 4,475.5 | 16,369 | 17,979 | 3,759.2 | 4,128.9 | 15,102 | 16,587 | 22,739 | 24,722 | 248,928 |
| 11. | 4,143.3 | 4,494.3 | 16,602 | 18,008 | 3,811.8 | 4,134.7 | 15,274 | 16,568 | 23,044 | 24,741 | 249,564 |
| III ....... | 4,207.6 | 4,499.7 | 16,810 | 17,977 | 3,879.2 | 4,148.5 | 15,498 | 16,574 | 23,102 | 24,551 | 250,299 |
| IV ....... | 4,241.5 | 4,468.8 | 16,896 | 17,802 | 3,907.0 | 4,116.4 | 15,564 | 16,398 | 23,031 | 24,224 | 251,031 |
| 1991: 1 | 4,263.3 | 4,452.7 | 16,941 | 17,694 | 3,910.7 | 4,084.5 | 15,540 | 16,231 | 23,136 | 24,033 | 251,650 |
| II ... | 4,329.6 | 4,492.6 | 17,161 | 17,807 | 3,961.0 | 4,110.0 | 15,700 | 16,291 | 23,355 | 24,075 | 252,295 |
| III ....... | 4,365.6 | 4,494.2 | 17,253 | 17,761 | 4,001.6 | 4,119.5 | 15,815 | 16,280 | 23,515 | 24,065 | 253,033 |
| IV ....... | 4,416.4 | 4,506.3 | 17,405 | 17,759 | 4,027.1 | 4,109.1 | 15,871 | 16,194 | 23,655 | 24,058 | 253,743 |
| 1992: $1 .$. | 4,515.2 | 4,565.6 | 17,753 | 17,951 | 4,127.6 | 4,173.8 | 16,229 | 16,410 | 24,070 | 24,280 | 254,338 |
| II ... | 4,585.1 | 4,599.8 | 17,979 | 18,036 | 4,183.0 | 4,196.4 | 16,402 | 16,454 | 24,316 | 24,366 | 255,032 |
| III ....... | 4,613.9 | 4,600.6 | 18,036 | 17,984 | 4,238.9 | 4,226.7 | 16,570 | 16,522 | 24,516 | 24,474 | 255,815 |
| IV ....... | 4,740.5 | 4,688.7 | 18,478 | 18,277 | 4,329.6 | 4,282.3 | 16,877 | 16,692 | 24,881 | 24,664 | 256,543 |
| 1993: I | 4,686.3 | 4,602.8 | 18,223 | 17,899 | 4,367.8 | 4,290.0 | 16,985 | 16,682 | 25,054 | 24,604 | 257,155 |
| II .. | 4,771.6 | 4,657.6 | 18,510 | 17,068 | 4,424.7 | 4,319.0 | 17,164 | 16,754 | 25,227 | 24,647 | 257,787 |
| III ....... | 4,804.1 | 4,674.0 | 18,585 | 18,081 | 4,481.0 | 4,359.7 | 17,335 | 16,865 | 25,421 | 24,721 | 258,501 |
| IV ....... | 4,895.3 | 4,730.4 | 18,887 | 18,251 | 4,543.0 | 4,390.0 | 17,528 | 16,937 | 25,787 | 24,939 | 259,192 |
| 1994: I ... | 4,856.9 | 4,666.4 | 18,699 | 17,966 | 4,599.2 | 4,418.8 | 17,707 | 17,013 | 26,076 | 25,043 | 259,738 |
| II ... | 5,002.2 | 4,779.8 | 19,215 | 18,361 | 4,665.1 | 4,457.7 | 17,920 | 17,123 | 26,448 | 25,282 | 260,327 |
| III ....... | 5,070.4 | 4,804.2 | 19,427 | 18,407 | 4,734.4 | 4,485.8 | 18,139 | 17,187 | 26,772 | 25,438 | 261,004 |
| IV ....... | 5,145.7 | 4,852.0 | 19,666 | 18,544 | 4,796.0 | 4,522.3 | 18,330 | 17,283 | 27,059 | 25,573 | 261,653 |
| 1995: I | 5,225.5 | 4,895.5 | 19,931 | 18,672 | 4,836.3 | 4,530.9 | 18,447 | 17,282 | 27,263 | 25,561 | 262,181 |
| II ...... | 5,260.4 | 4,896.1 | 20,021 | 18,634 | 4,908.7 | 4,568.8 | 18,682 | 17,388 | 27,389 | 25,536 | 262,748 |
| III ....... | 5,330.6 | 4,939.8 | 20,238 | 18,754 | 4,965.1 | 4,601.1 | 18,850 | 17,468 | 27,704 | 25,677 | 263,395 |

[^27]Table B-28.-G ross saving and investment, 1959-95
[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross saving |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Gross private saving |  |  |  |  | Gross government saving |  |  |  |  |  |  | Capi- <br> tal grants received by the United (net) ${ }^{3}$ |
|  |  |  |  | Gross business saving |  |  |  | Federal |  |  | State and local |  |  |  |
|  |  | Total | Personal saving | Total ${ }^{1}$ | Undis-trib-uted-corporate profits ${ }^{2}$ | Corporate and noncorporate consumption of fixed capital | Total | Total | Con- <br> sumption of fixed capital | Current <br> surplus or deficit (-) (NIPA) | Total | Con-sumption of fixed capital | Current <br> surplus or deficit (-) (NIPA) |  |
| 1959 ........ | 109.0 | 82.8 | 24.3 | 58.4 | 13.9 | 44.5 | 26.2 | 12.8 | 10.2 | 2.6 | 13.5 | 3.9 | 9.6 |  |
| 1960 | 113.9 | 82.1 | 23.3 | 58.8 | 12.7 | 46.1 | 31.8 | 17.8 | 10.5 | 7.4 | 14.0 | 4.0 | 9.9 |  |
| 1961 ... | 116.8 | 88.6 | 28.3 | 60.2 | 13.0 | 47.2 | 28.3 | 13.6 | 10.7 | 2.9 | 14.7 | 4.3 | 10.4 |  |
| 1962 | 127.4 | 97.1 | 29.5 | 67.6 | 18.7 | 48.9 | 30.3 | 14.0 | 11.2 | 2.8 | 16.3 | 4.6 | 11.7 |  |
| 1963 ........ | 135.4 | 100.3 | 28.6 | 71.7 | 21.2 | 50.5 | 35.1 | 17.2 | 11.8 | 5.4 | 17.9 | 4.9 | 13.0 |  |
| 1964 ........ | 145.8 | 112.9 | 35.5 | 77.4 | 24.4 | 53.1 | 32.9 | 13.0 | 12.1 | . 9 | 19.9 | 5.2 | 14.7 |  |
| 1965 | 161.0 | 124.4 | 37.8 | 86.6 | 29.9 | 56.7 | 36.6 | 15.9 | 12.5 | 3.4 | 20.8 | 5.7 | 15.1 |  |
| 1966 | 171.7 | 132.6 | 39.1 | 93.5 | 31.7 | 61.8 | 39.2 | 15.6 | 13.0 | 2.6 | 23.5 | 6.3 | 17.3 |  |
| 1967 ... | 174.4 | 144.7 | 48.9 | 95.9 | 28.9 | 67.0 | 29.7 | 5.6 | 13.9 | -8.3 | 24.1 | 6.8 | 17.3 |  |
| 1968 ..... | 185.8 | 146.1 | 46.8 | 99.3 | 26.3 | 73.0 | 39.7 | 12.0 | 14.9 | -2.8 | 27.6 | 7.6 | 20.0 |  |
| 1969 ...... | 202.9 | 149.0 | 46.9 | 102.1 | 22.6 | 79.5 | 53.9 | 24.3 | 15.6 | 8.7 | 29.6 | 8.5 | 21.1 |  |
| 1970 | 198.2 | 164.7 | 61.0 | 103.8 | 17.7 | 86.1 | 32.6 | 2.2 | 16.2 | -14.1 | 30.4 | 9.6 | 20.8 | 0.9 |
| 1971 | 215.3 | 190.7 | 68.6 | 122.1 | 27.3 | 94.4 | 23.9 | -8.5 | 16.9 | -25.3 | 32.4 | 10.7 | 21.7 | . 7 |
| 1972 | 244.9 | 202.7 | 63.6 | 139.1 | 34.5 | 104.9 | 41.5 | -2.4 | 18.2 | -20.5 | 43.9 | 11.7 | 32.2 | 7 |
| 1973 | 297.5 | 242.3 | 89.6 | 152.7 | 37.6 | 115.1 | 55.1 | 8.7 | 19.9 | -11.1 | 46.4 | 13.0 | 33.4 | 0 |
| 1974 ........ | 302.3 | 252.7 | 97.6 | 155.2 | 21.5 | 133.7 | 51.5 | 5.1 | 22.0 | -16.9 | 46.5 | 16.0 | 30.5 | ${ }^{6}-2.0$ |
| 1975 | 298.3 | 302.2 | 104.4 | 197.8 | 40.1 | 157.7 | -3.9 | -49.9 | 24.0 | -73.9 | 46.0 | 18.4 | 27.6 | 0 |
| 1976 ..... | 340.9 | 317.5 | 96.4 | 221.1 | 47.0 | 174.1 | 23.5 | -31.9 | 25.4 | -57.2 | 55.3 | 19.4 | 35.9 | 0 |
| 1977 ... | 395.5 | 349.4 | 92.5 | 256.9 | 53.4 | 203.5 | 46.1 | -19.3 | 27.0 | -46.3 | 65.4 | 20.7 | 44.7 | 0 |
| 1978 | 477.4 | 405.0 | 112.6 | 292.4 | 62.0 | 230.4 | 72.4 | -2.8 | 28.9 | -31.7 | 75.1 | 22.5 | 52.6 | 0 |
| 1979 ....... | 540.9 | 449.1 | 130.1 | 319.0 | 53.5 | 265.5 | 90.7 | 13.0 | 31.5 | -18.4 | 77.7 | 25.4 | 52.3 | 1.1 |
| 1980 ....... | 547.4 | 489.5 | 161.8 | 327.6 | 23.0 | 304.6 | 56.8 | -26.8 | 34.1 | -61.0 | 83.6 | 29.2 | 54.4 | 1.2 |
| 1981 .... | 651.1 | 581.9 | 199.1 | 382.8 | 33.3 | 349.5 | 68.1 | -20.6 | 37.1 | -57.8 | 88.7 | 33.3 | 55.4 | 1.1 |
| 1982 ... | 604.7 | 610.1 | 205.5 | 404.6 | 26.3 | 378.3 | -5.3 | -92.8 | 41.9 | -134.7 | 87.5 | 36.2 | 51.3 | 0 |
| 1983 ....... | 589.6 | 619.1 | 167.0 | 452.1 | 54.3 | 397.8 | -29.4 | -131.8 | 42.6 | -174.4 | 102.4 | 37.5 | 64.9 | 0 |
| 1984 ........ | 751.5 | 737.5 | 235.7 | 501.9 | 91.0 | 410.9 | 14.0 | -111.9 | 44.1 | -156.0 | 125.9 | 39.0 | 86.9 | 0 |
| 1985 | 746.7 | 731.5 | 206.2 | 525.3 | 92.9 | 432.4 | 15.2 | -116.9 | 46.1 | -162.9 | 132.0 | 41.0 | 91.0 | 0 |
| 1986 | 721.0 | 710.1 | 196.5 | 513.6 | 54.2 | 459.4 | 10.8 | -127.9 | 49.6 | -177.5 | 138.8 | 43.9 | 94.9 | 0 |
| 1987 | 780.9 | 727.2 | 168.4 | 558.8 | 75.7 | 483.2 | 53.6 | -77.2 | 51.7 | -128.9 | 130.8 | 47.1 | 83.8 | 0 |
| 1988 ...... | 877.2 | 808.4 | 189.1 | 619.3 | 103.3 | 516.0 | 68.8 | -67.0 | 54.3 | -121.3 | 135.8 | 49.9 | 85.9 | 0 |
| 1989 ...... | 907.9 | 815.9 | 187.8 | 628.1 | 76.2 | 551.9 | 92.0 | -56.4 | 57.0 | -113.4 | 148.4 | 53.3 | 95.1 | 0 |
| 1990 | 904.4 | 861.7 | 208.7 | 653.0 | 77.2 | 575.8 | 42.7 | -94.0 | 60.7 | -154.7 | 136.7 | 56.6 | 80.1 | 0 |
| 1991 | 935.3 | 931.9 | 246.4 | 685.6 | 86.0 | 599.6 | 3.3 | -132.2 | 63.9 | -196.0 | 135.5 | 59.6 | 75.8 | 0 |
| 1992 | 905.4 | 971.9 | 272.6 | 699.2 | 88.9 | 626.1 | -66.5 | -215.0 | 65.9 | -280.9 | 148.6 | 62.3 | 86.3 | 0 |
| 1993 | 938.4 | 964.5 | 216.4 | 748.1 | 103.4 | 640.0 | -26.0 | -186.5 | 68.2 | -254.7 | 160.5 | 65.6 | 94.9 | 0 |
| 1994 ........ | 1,055.9 | 1,006.0 | 192.4 | 813.7 | 120.2 | 678.7 | 49.9 | -119.3 | 70.6 | -189.9 | 169.2 | 69.4 | 99.7 | 0 |
| 1990:1 ...... | 896.1 | 850.2 | 199.0 | 651.2 | 85.6 | 565.6 | 45.9 | -94.8 | 59.3 | -154.1 | 140.7 | 55.2 | 85.5 | 0 |
| II .... | 940.7 | 886.3 | 213.9 | 672.4 | 99.2 | 573.2 | 54.5 | -84.4 | 59.7 | -144.1 | 138.9 | 56.1 | 82.8 | 0 |
| III ... | 895.0 | 838.9 | 208.3 | 630.6 | 50.0 | 580.6 | 56.1 | -81.9 | 60.8 | -142.6 | 137.9 | 57.2 | 80.7 | 0 |
| IV ... | 885.7 | 871.2 | 213.5 | 657.7 | 73.8 | 583.9 | 14.5 | -115.0 | 62.8 | -177.7 | 129.4 | 57.9 | 71.5 | 0 |
| 1991:I ...... | 983.5 | 928.2 | 230.8 | 697.4 | 105.0 | 592.5 | 55.3 | -72.0 | 62.6 | -134.6 | 127.3 | 58.6 | 68.8 | 0 |
| II .... | 928.1 | 927.8 | 246.3 | 681.5 | 85.1 | 596.4 | . 25 | -132.9 | 63.9 | -196.7 | 133.1 | 59.4 | 73.7 | 0 |
| III ... | 905.4 | 918.0 | 241.7 | 676.3 | 74.9 | 601.4 | -12.6 | -149.7 | 64.3 | -214.0 | 137.1 | 60.0 | 77.1 | 0 |
| IV ... | 924.0 | 953.7 | 266.6 | 687.2 | 79.1 | 608.1 | -29.7 | -174.0 | 64.8 | -238.8 | 144.4 | 60.6 | 83.8 | 0 |
| 1992: I ...... | 921.5 | 977.8 | 265.2 | 712.6 | 111.3 | 601.3 | -56.3 | -202.2 | 65.2 | -267.4 | 145.9 | 61.1 | 84.8 | 0 |
| II .... | 915.1 | 980.5 | 280.3 | 700.1 | 93.7 | 606.4 | -65.3 | -213.9 | 65.8 | -279.6 | 148.5 | 62.0 | 86.6 | 0 |
| III ... | 901.0 | 987.8 | 254.5 | 733.4 | 52.9 | 680.5 | -86.9 | -231.5 | 66.0 | -297.5 | 144.6 | 62.7 | 82.0 | 0 |
| IV ... | 884.0 | 941.3 | 290.5 | 650.8 | 97.7 | 616.2 | -57.3 | -212.5 | 66.5 | -279.0 | 155.2 | 63.5 | 91.7 | 0 |
| 1993: \| .... | 910.7 | 982.2 | 199.6 | 782.5 | 84.7 | 633.8 | -71.5 | -216.4 | 67.3 | -283.7 | 144.9 | 64.4 | 80.5 | 0 |
| II .... | 928.0 | 955.1 | 228.9 | 726.2 | 90.6 | 634.6 | -27.1 | -181.6 | 67.7 | -249.2 | 154.5 | 65.3 | 89.1 | 0 |
| III ... | 940.4 | 964.3 | 204.9 | 759.5 | 110.1 | 648.4 | -24.0 | -184.8 | 68.6 | -253.5 | 160.9 | 66.0 | 94.9 |  |
| IV ... | 974.6 | 956.2 | 232.1 | 724.1 | 128.1 | 643.3 | 18.4 | -163.3 | 69.1 | -232.4 | 181.7 | 66.7 | 115.0 | 0 |
| 1994: 1. | 1,034.8 | 1,014.2 | 133.9 | 880.3 | 80.1 | 748.7 | 20.6 | -143.4 | 69.5 | -212.9 | 164.0 | 69.2 | 94.8 | 0 |
| II .... | 1,069.8 | 996.0 | 210.3 | 785.7 | 129.9 | 652.7 | 73.8 | -99.9 | 70.0 | -169.9 | 173.7 | 68.5 | 105.2 | 0 |
| III ... | 1,054.4 | 1,001.1 | 207.4 | 793.7 | 133.9 | 656.7 | 53.3 | -115.9 | 70.4 | -186.3 | 169.2 | 69.6 | 99.6 | 0 |
| IV ... | 1,064.9 | 1,012.8 | 217.8 | 795.0 | 136.8 | 656.6 | 52.0 | -117.8 | 72.7 | -190.4 | 169.8 | 70.5 | 99.3 | 0 |
| 1995: I ... | 1,110.5 | 1,039.9 | 253.3 | 786.6 | 120.6 | 664.6 | 70.5 | -99.9 | 73.5 | -173.3 | 170.4 | 71.4 | 99.0 | 0 |
| II .... | 1,092.3 | 1,007.3 | 211.4 | 795.9 | 122.3 | 673.6 | 85.0 | -86.3 | 74.2 | -160.5 | 171.3 | 72.3 | 99.0 |  |
| III ... | 1,145.7 | 1,064.0 | 220.9 | 843.1 | 161.4 | 681.8 | 81.6 | -84.6 | 73.8 | -158.4 | 166.2 | 73.4 | 92.8 | 0 |

1 Includes private wage accruals less disbursements not shown separately.
2 With inventory valuation and capital consumption adjustments.
${ }^{3}$ Consists mainly of allocations of special drawing rights (SDRs).
See next page for continuation of table.

Table B-28.-Gross saving and investment, 1959-95-Continued
[Billions of dollars except as noted; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Gross investment |  |  |  | Statistical discrepancy | Addenda: |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Gross private domestic investment | Gross government investment ${ }^{4}$ | Net foreign investment ${ }^{5}$ |  | Gross saving as a <br> percent of national product | Personal saving as a percent of disposable personal income |
| 1959 | 106.9 | 78.8 | 29.3 | -1.2 | -2.1 | 21.4 | 7.0 |
| 1960 | 110.2 | 78.8 | 28.2 | 3.2 | -3.7 | 21.5 | 6.4 |
| 1961 | 113.5 | 77.9 | 31.3 | 4.3 | -3.3 | 21.3 | 7.5 |
| 1962 | 125.0 | 87.9 | 33.2 | 3.9 | -2.4 | 21.6 | 7.4 |
| 1963 ............................................................................... | 131.9 | 93.4 | 33.5 | 5.0 | -3.5 | 21.8 | 6.8 |
| 1964 ............................................................................... | 143.8 | 101.7 | 34.5 | 7.5 | -2.1 | 21.8 | 7.7 |
| 1965 | 159.6 | 118.0 | 35.4 | 6.2 | -1.4 | 22.2 | 7.6 |
| 1966 | 174.4 | 130.4 | 40.1 | 3.9 | 2.7 | 21.7 | 7.3 |
| 1967 | 175.1 | 128.0 | 43.5 | 3.5 | . 6 | 20.8 | 8.5 |
| 1968 | 186.0 | 139.9 | 44.3 | 1.7 | . 2 | 20.3 | 7.5 |
| 1969 ................................................................................ | 200.7 | 155.0 | 43.9 | 1.8 | -2.2 | 20.5 | 7.0 |
| 1970 | 199.1 | 150.2 | 44.0 | 4.9 | 1.0 | 19.0 | 8.4 |
| 1971 | 220.4 | 176.0 | 43.1 | 1.3 | 5.1 | 19.0 | 8.7 |
| 1972 | 248.1 | 205.6 | 45.4 | -2.9 | 3.2 | 19.7 | 7.4 |
| 1973 | 299.9 | 242.9 | 48.3 | 8.7 | 2.4 | 21.3 | 9.3 |
| 1974 ..................................................................................... | 306.7 | 245.6 | 56.0 | 5.1 | 4.5 | 20.0 | 9.3 |
| 1975 | 309.5 | 225.4 | 62.7 | 21.4 | 11.2 | 18.1 | 9.0 |
| 1976 | 359.9 | 286.6 | 64.4 | 8.9 | 18.9 | 18.6 | 7.6 |
| 1977 .............................................................................. | 413.0 | 356.6 | 65.4 | -9.0 | 17.5 | 19.3 | 6.6 |
| 1978 ................................................................................ | 494.9 | 430.8 | 74.6 | -10.4 | 17.6 | 20.6 | 7.1 |
| 1979 ............................................................................... | 568.7 | 480.9 | 85.3 | 2.6 | 27.8 | 20.9 | 7.4 |
| 1980 | 574.8 | 465.9 | 96.4 | 12.5 | 27.4 | 19.4 | 8.2 |
| 1981 | 665.7 | 556.2 | 102.1 | 7.4 | 14.6 | 20.7 | 9.1 |
| 1982 ............................................................................... | 601.8 | 501.1 | 106.9 | -6.1 | -2.9 | 18.5 | 8.8 |
| 1983 .............................................................................. | 626.2 | 547.1 | 116.5 | -37.3 | 36.5 | 16.6 | 6.6 |
| 1984 ................................................................................... | 755.7 | 715.6 | 131.7 | -91.5 | 4.2 | 19.1 | 8.4 |
| 1985 | 748.0 | 715.1 | 149.9 | -116.9 | 1.3 | 17.8 | 6.9 |
| 1986 ................................................................................... | 743.1 | 722.5 | 163.5 | -142.9 | 22.1 | 16.3 | 6.2 |
| 1987 | 764.2 | 747.2 | 173.5 | -156.4 | -16.6 | 16.6 | 5.0 |
| 1988 | 828.7 | 773.9 | 172.9 | -118.1 | -48.6 | 17.3 | 5.2 |
| 1989 ......................................................................... | 919.5 | 829.2 | 182.7 | -92.4 | 11.6 | 16.6 | 4.8 |
| 1990 | 920.5 | 799.7 | 199.4 | -78.6 | 16.1 | 15.7 | 5.0 |
| 1991 .............................................................................. | 944.0 | 736.2 | 200.5 | 7.3 | 8.8 | 15.8 | 5.7 |
| 1992 | 949.1 | 790.4 | 209.1 | -50.5 | 43.7 | 14.5 | 5.9 |
| 1993 | 993.5 | 871.1 | 210.6 | -88.2 | 55.1 | 14.3 | 4.5 |
| 1994 | 1,087.2 | 1,014.4 | 212.3 | -139.6 | 31.3 | 15.3 | 3.8 |
| 1990:I ..................................................................................... | 939.2 | 822.5 | 196.0 | -79.4 | 43.0 | 15.8 | 4.9 |
| II ......................................................................... | 958.1 | 835.2 | 196.7 | -73.8 | 17.4 | 16.3 | 5.2 |
| III ................................................................................ | 911.3 | 804.9 | 199.7 | -93.3 | 16.3 | 15.4 | 5.0 |
| IV ................................................................................ | 873.4 | 736.1 | 205.4 | -68.1 | -12.3 | 15.2 | 5.0 |
| 1991:I ............................................................................ | 977.0 | 723.6 | 198.1 | 55.3 | -6.5 | 16.8 | 5.4 |
| II .......................................................................... | 933.7 | 716.2 | 201.5 | 16.0 | 5.6 | 15.7 | 5.7 |
| III .......................................................................... | 922.6 | 743.9 | 201.3 | -22.6 | 17.2 | 15.2 | 5.5 |
| IV .............................................................................. | 942.8 | 760.9 | 201.4 | -19.4 | 18.8 | 15.4 | 6.0 |
| 1992:I ........................................................................... | 944.7 | 755.2 | 209.5 | -19.9 | 23.3 | 15.0 | 5.9 |
| 1 | 951.4 | 790.8 | 209.3 | -48.7 | 36.2 | 14.7 | 6.1 |
| III ............................................................................ | 952.6 | 799.7 | 208.9 | -56.0 | 51.6 | 14.3 | 5.5 |
| IV ......................................................................... | 947.6 | 816.1 | 208.8 | -77.2 | 63.6 | 13.8 | 6.1 |
| 1993:\| .............................................................................. | 991.4 | 843.6 | 207.1 | -59.4 | 80.7 | 14.1 | 4.3 |
| 1 | 983.1 | 855.9 | 210.6 | -83.4 | 55.0 | 14.3 | 4.8 |
| III .......................................................................... | 988.9 | 873.8 | 209.8 | -94.7 | 48.6 | 14.3 | 4.3 |
| IV ........................................................................ | 1,010.7 | 911.2 | 214.7 | -115.2 | 36.0 | 14.6 | 4.7 |
| 1994: 1 | 1,055.9 | 957.6 | 207.3 | -109.0 | 21.1 | 15.3 | 2.8 |
| 1 | 1,087.3 | 1,016.5 | 208.5 | -137.7 | 17.5 | 15.6 | 4.2 |
| III. | 1,101.1 | 1,033.6 | 217.2 | -149.6 | 46.7 | 15.1 | 4.1 |
| IV ........................................................................ | 1,104.5 | 1,050.1 | 216.3 | -161.9 | 39.7 | 15.1 | 4.2 |
| 1995: I | 1,146.7 | 1,072.0 | 219.1 | -144.4 | 36.2 | 15.6 | 4.8 |
|  | 1,113.9 | 1,050.3 | 223.7 | -160.1 | 21.6 | 15.2 | 4.0 |
| III ............................................................................ | 1,143.3 | 1,067.1 | 224.9 | -148.7 | -2.3 | 15.7 | 4.1 |

[^28]Table B-29.-M edian mones income (in 1994 dollars) and povety status of families and persons, by race, selected yerrs, 1976-94

| Year | Families ${ }^{1}$ |  |  |  |  |  | Persons below poverty level |  | Median money income (in 1994 dollars) of persons 15 years old and over with income ${ }^{23}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number (millions) | Median money income (in 1994 dol(ars) ${ }^{2}$ | Below poverty level |  |  |  |  |  |  |  |  |  |
|  |  |  | Total |  | Female householder |  | Number (milIions) | Percent | Males |  | Females |  |
|  |  |  | Number (millions) | Percent | Number (millions) | Percent |  |  | $\begin{aligned} & \text { All } \\ & \text { persons } \end{aligned}$ | Yearround full-time workers | $\begin{gathered} \text { All } \\ \text { persons } \end{gathered}$ | Year- <br> round full-time workers |
| ALL RACES |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 56.7 | \$37,319 | 5.3 | 9.4 | 2.5 | 33.0 | 25.0 | 11.8 | \$23,517 | \$34,577 | \$8,922 | \$20,738 |
| 1977 | 57.2 | 37,540 | 5.3 | 9.3 | 2.6 | 31.7 | 24.7 | 11.6 | 23,738 | 35,338 | 9,241 | 20,668 |
| 1978 | 57.8 | 38,730 | 5.3 | 9.1 | 2.7 | 31.4 | 24.5 | 11.4 | 24,008 | 35,265 | 8,932 | 21,167 |
| 19794 | 59.6 | 39,227 | 5.5 | 9.2 | 2.6 | 30.4 | 26.1 | 11.7 | 23,590 | 35,005 | 8,716 | 21,090 |
| 1980 | 60.3 | 37,857 | 6.2 | 10.3 | 3.0 | 32.7 | 29.3 | 13.0 | 22,563 | 34,525 | 8,860 | 20,872 |
| 1981. | 61.0 | 36,825 | 6.9 | 11.2 | 3.3 | 34.6 | 31.8 | 14.0 | 22,161 | 34,035 | 8,978 | 20,490 |
| 1982 | 61.4 | 36,326 | 7.5 | 12.2 | 3.4 | 36.3 | 34.4 | 15.0 | 21,625 | 33,570 | 9,126 | 21,181 |
| 19835 | 62.0 | 36,714 | 7.6 | 12.3 | 3.6 | 36.0 | 35.3 | 15.2 | 21,815 | 33,454 | 9,530 | 21,525 |
| 1984 | 62.7 | 37,703 | 7.3 | 11.6 | 3.5 | 34.5 | 33.7 | 14.4 | 22,251 | 34,239 | 9,796 | 21,998 |
| 1985 | 63.6 | 38,200 | 7.2 | 11.4 | 3.5 | 34.0 | 33.1 | 14.0 | 22,466 | 34,432 | 9,940 | 22,384 |
| 1986 | 64.5 | 39,833 | 7.0 | 10.9 | 3.6 | 34.6 | 32.4 | 13.6 | 23,141 | 35,014 | 10,290 | 22,775 |
| $1987{ }^{6}$ | 65.2 | 40,403 | 7.0 | 10.7 | 3.7 | 34.2 | 32.2 | 13.4 | 23,203 | 34,807 | 10,821 | 22,914 |
| 1988 | 65.8 | 40,327 | 6.9 | 10.4 | 3.6 | 33.4 | 31.7 | 13.0 | 23,687 | 34,253 | 11,129 | 23,232 |
| 1989 | 66.1 | 40,890 | 6.8 | 10.3 | 3.5 | 32.2 | 31.5 | 12.8 | 23,775 | 33,965 | 11,502 | 23,471 |
| 1990 | 66.3 | 40,087 | 7.1 | 10.7 | 3.8 | 33.4 | 33.6 | 13.5 | 23,010 | 32,859 | 11,418 | 23,348 |
| 1991 | 67.2 | 39,105 | 7.7 | 11.5 | 4.2 | 35.6 | 35.7 | 14.2 | 22,272 | 33,003 | 11,399 | 23,117 |
| 19927 | 68.2 | 38,632 | 8.1 | 11.9 | 4.3 | 35.4 | 38.0 | 14.8 | 21,607 | 32,568 | 11,317 | 23,337 |
| 1993 | 68.5 | 37,905 | 8.4 | 12.3 | 4.4 | 35.6 | 39.3 | 15.1 | 21,642 | 31,873 | 11,329 | 23,044 |
| 1994 | 69.3 | 38,782 | 8.1 | 11.6 | 4.2 | 34.6 | 38.1 | 14.5 | 21,720 | 31,612 | 11,466 | 23,265 |
| WHITE |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 | 50.1 | 38,764 | 3.6 | 7.1 | 1.4 | 25.2 | 16.7 | 9.1 | 24,792 | 35,608 | 8,997 | 20,898 |
| 1977 | 50.5 | 39,254 | 3.5 | 7.0 | 1.4 | 24.0 | 16.4 | 8.9 | 24,863 | 36,060 | 9,382 | 20,800 |
| 1978 | 50.9 | 40,328 | 3.5 | 6.9 | 1.4 | 23.5 | 16.3 | 8.7 | 25,146 | 35,919 | 9,039 | 21,367 |
| 19794 | 52.2 | 40,933 | 3.6 | 6.9 | 1.4 | 22.3 | 17.2 | 9.0 | 24,643 | 36,017 | 8,798 | 21,275 |
| 1980 | 52.7 | 39,443 | 4.2 | 8.0 | 1.6 | 25.7 | 19.7 | 10.2 | 24,000 | 35,510 | 8,908 | 21,074 |
| 1981 | 53.3 | 38,682 | 4.7 | 8.8 | 1.8 | 27.4 | 21.6 | 11.1 | 23,515 | 34,834 | 9,078 | 20,832 |
| 1982 | 53.4 | 38,140 | 5.1 | 9.6 | 1.8 | 27.9 | 23.5 | 12.0 | 22,862 | 34,464 | 9,250 | 21,466 |
| 19835 | 53.9 | 38,444 | 5.2 | 9.7 | 1.9 | 28.3 | 24.0 | 12.1 | 22,950 | 34,343 | 9,697 | 21,812 |
| 1984 | 54.4 | 39,491 | 4.9 | 9.1 | 1.9 | 27.1 | 23.0 | 11.5 | 23,488 | 35,411 | 9,912 | 22,216 |
| 1985 | 55.0 | 40,152 | 5.0 | 9.1 | 2.0 | 27.4 | 22.9 | 11.4 | 23,567 | 35,388 | 10,133 | 22,701 |
| 1986 | 55.7 | 41,660 | 4.8 | 8.6 | 2.0 | 28.2 | 22.2 | 11.0 | 24,421 | 35,991 | 10,493 | 23,124 |
| $1987{ }^{6}$ | 56.1 | 42,249 | 4.6 | 8.1 | 2.0 | 26.9 | 21.2 | 10.4 | 24,663 | 35,619 | 11,098 | 23,338 |
| 1988 | 56.5 | 42,487 | 4.5 | 7.9 | 1.9 | 26.5 | 20.7 | 10.1 | 25,004 | 35,405 | 11,404 | 23,580 |
| 1989 | 56.6 | 42,996 | 4.4 | 7.8 | 1.9 | 25.4 | 20.8 | 10.0 | 24,935 | 35,463 | 11,727 | 23,749 |
| 1990 | 56.8 | 41,858 | 4.6 | 8.1 | 2.0 | 26.8 | 22.3 | 10.7 | 24,005 | 34,109 | 11,698 | 23,629 |
| 1991 | 57.2 | 41,112 | 5.0 | 8.8 | 2.2 | 28.4 | 23.7 | 11.3 | 23,280 | 33,680 | 11,666 | 23,454 |
| $1992{ }^{7}$....................... | 57.7 | 40,847 | 5.3 | 9.1 | 2.2 | 28.5 | 25.3 | 11.9 | 22,611 | 33,342 | 11,580 | 23,607 |
| 1993 ......................... | 57.9 | 40,306 | 5.5 | 9.4 | 2.4 | 29.2 | 26.2 | 12.2 | 22,544 | 32,647 | 11,554 | 23,567 |
| 1994 .......................... | 58.4 | 40,884 | 5.3 | 9.1 | 2.3 | 29.0 | 25.4 | 11.7 | 22,669 | 32,440 | 11,630 | 23,894 |
| BLACK |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976 . | 5.8 | 23,058 | 1.6 | 27.9 | 1.1 | 52.2 | 7.6 | 31.1 | 14,927 | 25,503 | 8,478 | 19,538 |
| 1977. | 5.8 | 22,425 | 1.6 | 28.2 | 1.2 | 51.0 | 7.7 | 31.3 | 14,754 | 24,861 | 8,102 | 19,440 |
| 1978 | 5.9 | 23,885 | 1.6 | 27.5 | 1.2 | 50.6 | 7.6 | 30.6 | 15,064 | 27,510 | 8,139 | 19,804 |
| $1979{ }^{4}$...................... | 6.2 | 23,179 | 1.7 | 27.8 | 1.2 | 49.4 | 8.1 | 31.0 | 15,255 | 25,957 | 8,007 | 19,494 |
| 1980 ........................ | 6.3 | 22,822 | 1.8 | 28.9 | 1.3 | 49.4 | 8.6 | 32.5 | 14,422 | 24,985 | 8,247 | 19,655 |
| 1981. | 6.4 | 21,820 | 2.0 | 30.8 | 1.4 | 52.9 | 9.2 | 34.2 | 13,983 | 24,646 | 8,065 | 18,814 |
| 1982 | 6.5 | 21,080 | 2.2 | 33.0 | 1.5 | 56.2 | 9.7 | 35.6 | 13,701 | 24,478 | 8,159 | 19,185 |
| $1983{ }^{5}$. | 6.7 | 21,666 | 2.2 | 32.3 | 1.5 | 53.7 | 9.9 | 35.7 | 13,421 | 24,502 | 8,286 | 19,361 |
| 1984. | 6.8 | 22,010 | 2.1 | 30.9 | 1.5 | 51.7 | 9.5 | 33.8 | 13,476 | 24,167 | 8,792 | 20,021 |
| 1985. | 6.9 | 23,120 | 2.0 | 28.7 | 1.5 | 50.5 | 8.9 | 31.3 | 14,831 | 24,752 | 8,645 | 20,095 |
| 1986 ......................... | 7.1 | 23,804 | 2.0 | 28.0 | 1.5 | 50.1 | 9.0 | 31.1 | 14,633 | 25,375 | 8,878 | 20,234 |
| $1987{ }^{6}$........................ | 7.2 | 24,012 | 2.1 | 29.4 | 1.6 | 51.1 | 9.5 | 32.4 | 14,631 | 25,468 | 9,066 | 20,845 |
| 1988 .. | 7.4 | 24,214 | 2.1 | 28.2 | 1.6 | 49.0 | 9.4 | 31.3 | 15,088 | 25,952 | 9,206 | 21,130 |
| 1989 ......................... | 7.5 | 24,153 | 2.1 | 27.8 | 1.5 | 46.5 | 9.3 | 30.7 | 15,070 | 24,745 | 9,412 | 21,359 |
| 1990 ........................ | 7.5 | 24,291 | 2.2 | 29.3 | 1.6 | 48.1 | 9.8 | 31.9 | 14,591 | 24,357 | 9,443 | 21,027 |
| 1991 ......................... | 7.7 | 23,447 | 2.3 | 30.4 | 1.8 | 51.2 | 10.2 | 32.7 | 14,104 | 24,622 | 9,593 | 20,820 |
| $1992{ }^{7}$........................ | 8.0 | 22,291 | 2.5 | 31.1 | 1.9 | 50.2 | 10.8 | 33.4 | 13,800 | 24,286 | 9,387 | 21,399 |
| 1993 .......................... | 8.0 | 22,094 | 2.5 | 31.3 | 1.9 | 49.9 | 10.9 | 33.1 | 14,979 | 24,169 | 9,751 | 20,835 |
| 1994 .......................... | 8.1 | 24,698 | 2.2 | 27.3 | 1.7 | 46.2 | 10.2 | 30.6 | 14,982 | 24,405 | 10,544 | 20,628 |

[^29]Note. - Poverty rates (percent of persons below poverty level) for all races for years not shown above are: 1959, 22.4; 1960, 22.2; 1961, $21.9 ; 1962,21.0 ; 1963,19.5 ; 1964,19.0 ; 1965,17.3 ; 1966,14.7 ; 1967,14.2 ; 1968,12.8 ; 1969,12.1 ; 1970,12.6 ; 1971,12.5 ; 1972,11.9$; 1973, 11.1; 1974, 11.2; and 1975, 12.3.

Poverty thresholds are updated each year to reflect changes in the consumer price index (CPI-U).
For details see "Current Population Reports," Series P-60.
Source: Department of Commerce, Bureau of the Census.

## POPULATION, EMPLOYMENT, W AGES, AND PRODUCTIVITY

Table B-30.-Population by age group, 1929-95
[Thousands of persons]

|  | Age (years) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 5 | 5-15 | 16-19 | 20-24 | 25-44 | 45-64 | 65 and over |
| 1929 | 11,734 | 26,800 | 9,127 | 10,694 | 35,862 | 21,076 | 6,474 |
| 1933 | 10,612 | 26,897 | 9,302 | 11,152 | 37,319 | 22,933 | 7,363 |
| 1939 | 10,418 | 25,179 | 9,822 | 11,519 | 39,354 | 25,823 | 8,764 |
| 1940 | 10,579 | 24,811 | 9,895 | 11,690 | 39,868 | 26,249 | 9,031 |
| 1941 | 10,850 | 24,516 | 9,840 | 11,807 | 40,383 | 26,718 | 9,288 |
| 1942 | 11,301 | 24,231 | 9,730 | 11,955 | 40,861 | 27,196 | 9,584 |
| 1943 | 12,016 | 24,093 | 9,607 | 12,064 | 41,420 | 27,671 | 9,867 |
| 1944 | 12,524 | 23,949 | 9,561 | 12,062 | 42,016 | 28,138 | 10,147 |
| 1945 | 12,979 | 23,907 | 9,361 | 12,036 | 42,521 | 28,630 | 10,494 |
| 1946 | 13,244 | 24,103 | 9,119 | 12,004 | 43,027 | 29,064 | 10,828 |
| 1947 | 14,406 | 24,468 | 9,097 | 11,814 | 43,657 | 29,498 | 11,185 |
| 1948 | 14,919 | 25,209 | 8,952 | 11,794 | 44,288 | 29,931 | 11,538 |
| 1949 | 15,607 | 25,852 | 8,788 | 11,700 | 44,916 | 30,405 | 11,921 |
| 1950 | 16,410 | 26,721 | 8,542 | 11,680 | 45,672 | 30,849 | 12,397 |
| 1951 | 17,333 | 27,279 | 8,446 | 11,552 | 46,103 | 31,362 | 12,803 |
| 1952 | 17,312 | 28,894 | 8,414 | 11,350 | 46,495 | 31,884 | 13,203 |
| 1953 | 17,638 | 30,227 | 8,460 | 11,062 | 46,786 | 32,394 | 13,617 |
| 1954 | 18,057 | 31,480 | 8,637 | 10,832 | 47,001 | 32,942 | 14,076 |
| 1955 | 18,566 | 32,682 | 8,744 | 10,714 | 47,194 | 33,506 | 14,525 |
| 1956 | 19,003 | 33,994 | 8,916 | 10,616 | 47,379 | 34,057 | 14,938 |
| 1957 | 19,494 | 35,272 | 9,195 | 10,603 | 47,440 | 34,591 | 15,388 |
| 1958 | 19,887 | 36,445 | 9,543 | 10,756 | 47,337 | 35,109 | 15,806 |
| 1959 | 20,175 | 37,368 | 10,215 | 10,969 | 47,192 | 35,663 | 16,248 |
| 1960 | 20,341 | 38,494 | 10,683 | 11,134 | 47,140 | 36,203 | 16,675 |
| 1961 | 20,522 | 39,765 | 11,025 | 11,483 | 47,084 | 36,722 | 17,089 |
| 1962 | 20,469 | 41,205 | 11,180 | 11,959 | 47,013 | 37,255 | 17,457 |
| 1963 | 20,342 | 41,626 | 12,007 | 12,714 | 46,994 | 37,782 | 17,778 |
| 1964 | 20,165 | 42,297 | 12,736 | 13,269 | 46,958 | 38,338 | 18,127 |
| 1965 | 19,824 | 42,938 | 13,516 | 13,746 | 46,912 | 38,916 | 18,451 |
| 1966 | 19,208 | 43,702 | 14,311 | 14,050 | 47,001 | 39,534 | 18,755 |
| 1967 | 18,563 | 44,244 | 14,200 | 15,248 | 47,194 | 40,193 | 19,071 |
| 1968 | 17,913 | 44,622 | 14,452 | 15,786 | 47,721 | 40,846 | 19,365 |
| 1969 | 17,376 | 44,840 | 14,800 | 16,480 | 48,064 | 41,437 | 19,680 |
| 1970 | 17,166 | 44,816 | 15,289 | 17,202 | 48,473 | 41,999 | 20,107 |
| 1971 | 17,244 | 44,591 | 15,688 | 18,159 | 48,936 | 42,482 | 20,561 |
| 1972 | 17,101 | 44,203 | 16,039 | 18,153 | 50,482 | 42,898 | 21,020 |
| 1973 | 16,851 | 43,582 | 16,446 | 18,521 | 51,749 | 43,235 | 21,525 |
| 1974 | 16,487 | 42,989 | 16,769 | 18,975 | 53,051 | 43,522 | 22,061 |
| 1975 | 16,121 | 42,508 | 17,017 | 19,527 | 54,302 | 43,801 | 22,696 |
| 1976 | 15,617 | 42,099 | 17,194 | 19,986 | 55,852 | 44,008 | 23,278 |
| 1977 | 15,564 | 41,298 | 17,276 | 20,499 | 57,561 | 44,150 | 23,892 |
| 1978 | 15,735 | 40,428 | 17,288 | 20,946 | 59,400 | 44,286 | 24,502 |
| 1979 | 16,063 | 39,552 | 17,242 | 21,297 | 61,379 | 44,390 | 25,134 |
| 1980 | 16,451 | 38,838 | 17,167 | 21,590 | 63,470 | 44,504 | 25,707 |
| 1981 | 16,893 | 38,144 | 16,812 | 21,869 | 65,528 | 44,500 | 26,221 |
| 1982 | 17,228 | 37,784 | 16,332 | 21,902 | 67,692 | 44,462 | 26,787 |
| 1983 | 17,547 | 37,526 | 15,823 | 21,844 | 69,733 | 44,474 | 27,361 |
| 1984 | 17,695 | 37,461 | 15,295 | 21,737 | 71,735 | 44,547 | 27,878 |
| 1985 | 17,842 | 37,450 | 15,005 | 21,478 | 73,673 | 44,602 | 28,416 |
| 1986 | 17,963 | 37,404 | 15,024 | 20,942 | 75,651 | 44,660 | 29,008 |
| 1987 | 18,052 | 37,333 | 15,215 | 20,385 | 77,338 | 44,854 | 29,626 |
| 1988 | 18,195 | 37,593 | 15,198 | 19,846 | 78,595 | 45,471 | 30,124 |
| 1989 | 18,508 | 37,972 | 14,913 | 19,442 | 79,943 | 45,882 | 30,682 |
| 1990 | 18,849 | 38,588 | 14,449 | 19,307 | 81,196 | 46,288 | 31,235 |
| 1991 | 19,198 | 39,197 | 13,929 | 19,356 | 82,449 | 46,758 | 31,763 |
| 1992 | 19,506 | 39,905 | 13,671 | 19,192 | 82,530 | 48,345 | 32,270 |
| 1993 | 19,689 | 40,546 | 13,798 | 18,895 | 82,849 | 49,583 | 32,777 |
| 1994 | 19,734 | 41,223 | 14,032 | 18,451 | 83,180 | 50,887 | 33,152 |
| 1995 | 19,591 | 41,924 | 14,287 | 17,972 | 83,511 | 52,216 | 33,532 |

[^30]Table B-31.- Civilian population and labor force, 1929-95
[Monthly data seasonally adjusted, except as noted]

| Year or month | Civilian noninstitutional population ${ }^{1}$ | Civilian labor force |  |  |  |  | Not in labor force | Civilian labor force par-ticipationrate $^{2}$ | Civilian <br> em- <br> ploy- <br> ment/ <br> pop- <br> ula- <br> tion <br> ratio ${ }^{3}$ | Unem-ployment rate, civilian workers ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Employment |  |  |  | $\begin{aligned} & \text { Un- } \\ & \text { employ- } \\ & \text { ment } \end{aligned}$ |  |  |  |  |
|  |  | Total | Total | Agri-cultural | $\begin{aligned} & \text { Non- } \\ & \text { agri- } \\ & \text { cultural } \end{aligned}$ |  |  |  |  |  |
| $\begin{aligned} & 1929 \\ & 1933 \\ & 1939 \end{aligned}$ | Thousands of persons 14 years of age and over |  |  |  |  |  |  | Percent |  |  |
|  | .............. | $\begin{aligned} & 49,180 \\ & 51,590 \\ & 55,230 \end{aligned}$ | $\begin{aligned} & 47,630 \\ & 38,760 \\ & 45,750 \end{aligned}$ | $\begin{array}{r} 10,450 \\ 10,090 \\ 9,610 \end{array}$ | $\begin{aligned} & 37,180 \\ & 28,670 \\ & 36,140 \end{aligned}$ | $\begin{array}{r} 1,550 \\ 12,830 \\ 9,480 \end{array}$ |  | .......... -...... -...... | .......... -...... ....... | 3.2 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 | 99,900 | 55,910 | 50,350 | 9,100 | 41,250 | 5,560 | 43,990 | 56.0 | 50.4 | 9.9 |
| 1942 | 98,640 | 56,410 | 53,750 | 9,250 | 44,500 | 2,660 | 42,230 | 57.2 | 54.5 | 4.7 |
| 1943 | 94,640 | 55,540 | 54,470 | 9,080 | 45,390 | 1,070 | 39,100 | 58.7 | 57.6 | 1.9 |
| 1944 | 93,220 | 54,630 | 53,960 | 8,950 | 45,010 | 670 | 38,590 | 58.6 | 57.9 | 1.2 |
| 1945 | 94,090 | 53,860 | 52,820 | 8,580 | 44,240 | 1,040 | 40,230 | 57.2 | 56.1 | 1.9 |
| 1946 | 103,070 | 57,520 | 55,250 | 8,320 | 46,930 | 2,270 | 45,550 | 55.8 | 53.6 | 3.9 |
| 1947 | 106,018 | 60,168 | 57,812 | 8,256 | 49,557 | 2,356 | 45,850 | 56.8 | 54.5 |  |
|  | Thousands of persons 16 years of age and over |  |  |  |  |  |  |  |  |  |
| 1947 | 101,827 | 59,350 | 57,038 | 7,890 | 49,148 | 2,311 | 42,477 | 58.3 | 56.0 | 3.9 |
| 1948 | 103,068 | 60,621 | 58,343 | 7,629 | 50,714 | 2,276 | 42,447 | 58.8 | 56.6 | 3.8 |
| 1949 | 103,994 | 61,286 | 57,651 | 7,658 | 49,993 | 3,637 | 42,708 | 58.9 | 55.4 | 5.9 |
| 1950 | 104,995 | 62,208 | 58,918 | 7,160 | 51,758 | 3,288 | 42,787 | 59.2 | 56.1 | 5.3 |
| 1951 | 104,621 | 62,017 | 59,961 | 6,726 | 53,235 | 2,055 | 42,604 | 59.2 | 57.3 | 3.3 |
| 1952 | 105,231 | 62,138 | 60,250 | 6,500 | 53,749 | 1,883 | 43,093 | 59.0 | 57.3 | 3.0 |
| 19535 | 107,056 | 63,015 | 61,179 | 6,260 | 54,919 | 1,834 | 44,041 | 58.9 | 57.1 | 2.9 |
| 1954 | 108,321 | 63,643 | 60,109 | 6,205 | 53,904 | 3,532 | 44,678 | 58.8 | 55.5 | 5.5 |
| 1955 | 109,683 | 65,023 | 62,170 | 6,450 | 55,722 | 2,852 | 44,660 | 59.3 | 56.7 | 4.4 |
| 1956 | 110,954 | 66,552 | 63,799 | 6,283 | 57,514 | 2,750 | 44,402 | 60.0 | 57.5 | 4.1 |
| 1957 | 112,265 | 66,929 | 64,071 | 5,947 | 58,123 | 2,859 | 45,336 | 59.6 | 57.1 | 4.3 |
| 1958 | 113,727 | 67,639 | 63,036 | 5,586 | 57,450 | 4,602 | 46,088 | 59.5 | 55.4 | 6.8 |
| 1959 | 115,329 | 68,369 | 64,630 | 5,565 | 59,065 | 3,740 | 46,960 | 59.3 | 56.0 | 5.5 |
| 19605 | 117,245 | 69,628 | 65,778 | 5,458 | 60,318 | 3,852 | 47,617 | 59.4 | 56.1 | 5.5 |
| 1961 | 118,771 | 70,459 | 65,746 | 5,200 | 60,546 | 4,714 | 48,312 | 59.3 | 55.4 | 6.7 |
| $1962{ }^{5}$ | 120,153 | 70,614 | 66,702 | 4,944 | 61,759 | 3,911 | 49,539 | 58.8 | 55.5 | 5.5 |
| 1963 | 122,416 | 71,833 | 67,762 | 4,687 | 63,076 | 4,070 | 50,583 | 58.7 | 55.4 | 5.7 |
| 1964 | 124,485 | 73,091 | 69,305 | 4,523 | 64,782 | 3,786 | 51,394 | 58.7 | 55.7 | 5.2 |
| 1965 | 126,513 | 74,455 | 71,088 | 4,361 | 66,726 | 3,366 | 52,058 | 58.9 | 56.2 | 4.5 |
| 1966 | 128,058 | 75,770 | 72,895 | 3,979 | 68,915 | 2,875 | 52,288 | 59.2 | 56.9 | 3.8 |
| 1967 | 129,874 | 77,347 | 74,372 | 3,844 | 70,527 | 2,975 | 52,527 | 59.6 | 57.3 | 3.8 |
| 1968 | 132,028 | 78,737 | 75,920 | 3,817 | 72,103 | 2,817 | 53,291 | 59.6 | 57.5 | 3.6 |
| 1969 | 134,335 | 80,734 | 77,902 | 3,606 | 74,296 | 2,832 | 53,602 | 60.1 | 58.0 | 3.5 |
| 1970 | 137,085 | 82,771 | 78,678 | 3,463 | 75,215 | 4,093 | 54,315 | 60.4 | 57.4 | 4.9 |
| 1971 | 140,216 | 84,382 | 79,367 | 3,394 | 75,972 | 5,016 | 55,834 | 60.2 | 56.6 | 5.9 |
| $1972{ }^{5}$ | 144,126 | 87,034 | 82,153 | 3,484 | 78,669 | 4,882 | 57,091 | 60.4 | 57.0 | 5.6 |
| 19735 ..................................................... | 147,096 | 89,429 | 85,064 | 3,470 | 81,594 | 4,365 | 57,667 | 60.8 | 57.8 | 4.9 |
| 1974 | 150,120 | 91,949 | 86,794 | 3,515 | 83,279 | 5,156 | 58,171 | 61.3 | 57.8 | 5.6 |
| 1975 | 153,153 | 93,775 | 85,846 | 3,408 | 82,438 | 7,929 | 59,377 | 61.2 | 56.1 | 8.5 |
| 1976 | 156,150 | 96,158 | 88,752 | 3,331 | 85,421 | 7,406 | 59,991 | 61.6 | 56.8 | 7.7 |
| 1977 | 159,033 | 99,009 | 92,017 | 3,283 | 88,734 | 6,991 | 60,025 | 62.3 | 57.9 | 7.1 |
| 19785 | 161,910 | 102,251 | 96,048 | 3,387 | 92,661 | 6,202 | 59,659 | 63.2 | 59.3 | 6.1 |
| 1979 | 164,863 | 104,962 | 98,824 | 3,347 | 95,477 | 6,137 | 59,900 | 63.7 | 59.9 | 5.8 |
| 1980 | 167,745 | 106,940 | 99,303 | 3,364 | 95,938 | 7,637 | 60,806 | 63.8 | 59.2 | 7.1 |
| 1981 | 170,130 | 108,670 | 100,397 | 3,368 | 97,030 | 8,273 | 61,460 | 63.9 | 59.0 | 7.6 |
| 1982 | 172,271 | 110,204 | 99,526 | 3,401 | 96,125 | 10,678 | 62,067 | 64.0 | 57.8 | 9.7 |
| 1983 | 174,215 | 111,550 | 100,834 | 3,383 | 97,450 | 10,717 | 62,665 | 64.0 | 57.9 | 9.6 |
| 1984 | 176,383 | 113,544 | 105,005 | 3,321 | 101,685 | 8,539 | 62,839 | 64.4 | 59.5 | 7.5 |
| 1985 | 178,206 | 115,461 | 107,150 | 3,179 | 103,971 | 8,312 | 62,744 | 64.8 | 60.1 | 7.2 |
| $1986{ }^{5}$ | 180,587 | 117,834 | 109,597 | 3,163 | 106,434 | 8,237 | 62,752 | 65.3 | 60.7 | 7.0 |
| 1987 | 182,753 | 119,865 | 112,440 | 3,208 | 109,232 | 7,425 | 62,888 | 65.6 | 61.5 | 6.2 |
| 1988 | 184,613 | 121,669 | 114,968 | 3,169 | 111,800 | 6,701 | 62,944 | 65.9 | 62.3 | 5.5 |
| 1989 | 186,393 | 123,869 | 117,342 | 3,199 | 114,142 | 6,528 | 62,523 | 66.5 | 63.0 | 5.3 |
| 1990 | 188,049 | 124,787 | 117,914 | 3,186 | 114,728 | 6,874 | 63,262 | 66.4 | 62.7 | 5.5 |
| 1991 | 189,765 | 125,303 | 116,877 | 3,233 | 113,644 | 8,426 | 64,462 | 66.0 | 61.6 | 6.7 |
| 1992 | 191,576 | 126,982 | 117,598 | 3,207 | 114,391 | 9,384 | 64,593 | 66.3 | 61.4 | 7.4 |
| 1993 | 193,550 | 128,040 | 119,306 | 3,074 | 116,232 | 8,734 | 65,509 | 66.2 | 61.6 | 6.8 |
| 19945 ................................................... | 196,814 | 131,056 | 123,060 | 3,409 | 119,651 | 7,996 | 65,758 | 66.6 | 62.5 | 6.1 |
| 1995 | 198,584 | 132,304 | 124,900 | 3,440 | 121,460 | 7,404 | 66,280 | 66.6 | 62.9 | 5.6 |

[^31]Table B-31.-Civilian population and labor force, 1929-95-Continued
[Monthly data seasonally adjusted, except as noted]

| Year or month | Civilian noninstitutional population ${ }^{1}$ | Civilian labor force |  |  |  |  | Not in labor force | Civilabor force par-ticipation rate ${ }^{2}$ | Civilian em-ployment/ pop-ulation ratio ${ }^{3}$ | Unem-ployment rate, civilian workers ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Employment |  |  |  | Un-employment |  |  |  |  |
|  |  | Total | Total | Agri-cultural | $\begin{aligned} & \text { Non- } \\ & \text { agri- } \\ & \text { cultural } \end{aligned}$ |  |  |  |  |  |
| 1992:Jan ................................................ | Thousands of persons 16 years of age and over |  |  |  |  |  |  | Percent |  |  |
|  | 190,759 | 126,149 | 117,130 | $\begin{aligned} & 3,136 \\ & 3,218 \end{aligned}$ | 113,994 | 9,019 | 64,610 | 66.1 | 61.4 | 7.1 |
| Feb ............................................... | 190,884 | 126,209 | 116,919 |  | 113,701 | 9,290 | 64,675 | 66.1 | 61.3 | 7.4 |
| Mar | 191,022 | 126,545 | 117,255 | 3,208 | 114,047 | 9,290 | 64,477 | 66.2 | 61.4 | 7.3 |
| Apr | 191,168 | 126,917 | 117,670 | 3,220 | 114,450 | 9,247 | 64,251 | 66.4 | 61.6 | 7.3 |
| May | 191,307 | 127,036 | 117,534 | 3,192 | 114,342 | 9,502 | 64,271 | 66.4 | 61.4 | 7.5 |
| June | 191,455 | 127,269 | 117,498 | 3,248 | 114,250 | 9,771 | 64,186 | 66.5 | 61.4 | 7.7 |
| July | 191,622 | 127,358 | 117,763 | 3,217 | 114,546 | 9,595 | 64,264 | 66.5 | 61.5 | 7.5 |
| Aug | 191,790 | 127,339 | 117,749 | 3,237 | 114,512 | 9,590 | 64,451 | 66.4 | 61.4 | 7.5 |
| Sept | 191,947 | 127,306 | 117,772 | 3,211 | 114,561 | 9,534 | 64,641 | 66.3 | 61.4 | 7.5 |
| Oct | 192,131 | 126,933 | 117,723 | 3,188 | 114,535 | 9,210 | 65,198 | 66.1 | 61.3 | 7.3 |
| Nov | 192,316 | 127,287 | 117,974 | 3,170 | 114,804 | 9,313 | 65,029 | 66.2 | 61.3 | 7.3 |
| Dec | 192,509 | 127,469 | 118,155 | 3,222 | 114,933 | 9,314 | 65,040 | 66.2 | 61.4 | 7.3 |
| 1993:Jan | 192,644 | 127,224 | 118,178 | 3,182 | 114,996 | 9,046 | 65,420 | 66.0 | 61.3 | 7.1 |
| Feb | 192,786 | 127,400 | 118,442 | 3,116 | 115,326 | 8,958 | 65,386 | 66.1 | 61.4 | 7.0 |
| Mar | 192,959 | 127,440 | 118,562 | 3,099 | 115,463 | 8,878 | 65,519 | 66.0 | 61.4 | 7.0 |
| Apr | 193,126 | 127,539 | 118,585 | 3,071 | 115,514 | 8,954 | 65,587 | 66.0 | 61.4 | 7.0 |
| May | 193,283 | 128,075 | 119,180 | 3,074 | 116,106 | 8,895 | 65,208 | 66.3 | 61.7 | 6.9 |
| June ............................................... | 193,456 | 128,056 | 119,187 | 3,031 | 116,156 | 8,869 | 65,400 | 66.2 | 61.6 | 6.9 |
| July | 193,633 | 128,102 | 119,370 | 3,043 | 116,327 | 8,732 | 65,531 | 66.2 | 61.6 | 6.8 |
| Aug | 193,793 | 128,334 | 119,692 | 3,005 | 116,687 | 8,642 | 65,459 | 66.2 | 61.8 | 6.7 |
| Sept | 193,971 | 128,108 | 119,568 | 3,093 | 116,475 | 8,540 | 65,863 | 66.0 | 61.6 | 6.7 |
| Oct | 194,151 | 128,580 | 119,941 | 3,021 | 116,920 | 8,639 | 65,571 | 66.2 | 61.8 | 6.7 |
| Nov | 194,321 | 128,662 | 120,332 | 3,114 | 117,218 | 8,330 | 65,659 | 66.2 | 61.9 | 6.5 |
| Dec | 194,472 | 128,898 | 120,661 | 3,096 | 117,565 | 8,237 | 65,574 | 66.3 | 62.0 | 6.4 |
| 1994:Jan ${ }^{5}$.............................................. | 195,953 | 130,643 | 121,903 | 3,328 | 118,575 | 8,740 | 65,310 | 66.7 | 62.2 | 6.7 |
| Feb | 196,090 | 130,784 | 122,208 | 3,368 | 118,840 | 8,576 | 65,306 | 66.7 | 62.3 | 6.6 |
| Mar | 196,213 | 130,706 | 122,160 | 3,396 | 118,764 | 8,546 | 65,507 | 66.6 | 62.3 | 6.5 |
| Apr | 196,363 | 130,787 | 122,402 | 3,438 | 118,964 | 8,385 | 65,576 | 66.6 | 62.3 | 6.4 |
| May ............................................... | 196,510 | 130,699 | 122,703 | 3,413 | 119,290 | 7,996 | 65,811 | 66.5 | 62.4 | 6.1 |
| June .............................................. | 196,693 | 130,538 | 122,635 | 3,294 | 119,341 | 7,903 | 66,155 | 66.4 | 62.3 | 6.1 |
| July ................................................ | 196,859 | 130,774 | 122,781 | 3,333 | 119,448 | 7,993 | 66,085 | 66.4 | 62.4 | 6.1 |
| Aug .................................................. | 197,043 | 131,086 | 123,197 | 3,436 | 119,761 | 7,889 | 65,957 | 66.5 | 62.5 | 6.0 |
| Sept | 197,248 | 131,291 | 123,644 | 3,411 | 120,233 | 7,647 | 65,957 | 66.6 | 62.7 | 5.8 |
| Oct | 197,430 | 131,646 | 124,141 | 3,494 | 120,647 | 7,505 | 65,784 | 66.7 | 62.9 | 5.7 |
| Nov | 197,607 | 131,718 | 124,403 | 3,500 | 120,903 | 7,315 | 65,889 | 66.7 | 63.0 | 5.6 |
| Dec | 197,765 | 131,725 | 124,570 | 3,532 | 121,038 | 7,155 | 66,040 | 66.6 | 63.0 | 5.4 |
| 1995:Jan ............................................... | 197,753 | 132,136 | 124,639 | 3,575 | 121,064 | 7,498 | 65,617 | 66.8 | 63.0 | 5.7 |
| Feb | 197,886 | 132,308 | 125,125 | 3,656 | 121,469 | 7,183 | 65,578 | 66.9 | 63.2 | 5.4 |
| Mar | 198,007 | 132,511 | 125,274 | 3,698 | 121,576 | 7,237 | 65,496 | 66.9 | 63.3 | 5.5 |
| Apr | 198,148 | 132,737 | 125,072 | 3,594 | 121,478 | 7,665 | 65,412 | 67.0 | 63.1 | 5.8 |
| May | 198,286 | 131,811 | 124,319 | 3,357 | 120,962 | 7,492 | 66,476 | 66.5 | 62.7 | 5.7 |
| June ................................................ | 198,453 | 131,869 | 124,485 | 3,451 | 121,034 | 7,384 | 66,583 | 66.4 | 62.7 | 5.6 |
| July .............................................. | 198,615 | 132,519 | 124,959 | 3,409 | 121,550 | 7,559 | 66,096 | 66.7 | 62.9 | 5.7 |
| Aug | 198,801 | 132,211 | 124,779 | 3,362 | 121,417 | 7,431 | 66,590 | 66.5 | 62.8 | 5.6 |
| Sept | 199,005 | 132,591 | 125,140 | 3,273 | 121,867 | 7,451 | 66,414 | 66.6 | 62.9 | 5.6 |
| Oct | 199,192 | 132,648 | 125,399 | 3,455 | 121,944 | 7,249 | 66,544 | 66.6 | 63.0 | 5.5 |
| Nov | 199,355 | 132,442 | 125,010 | 3,276 | 121,734 | 7,432 | 66,913 | 66.4 | 62.7 | 5.6 |
| Dec ............................................... | 199,508 | 132,284 | 124,904 | 3,306 | 121,598 | 7,380 | 67,224 | 66.3 | 62.6 | 5.6 |

${ }^{5}$ Not strictly comparable with earlier data due to population adjustments as follows: Beginning 1953, introduction of 1950 census data added about 600,000 to population and 350,000 to labor force, total employment, and agricultural employment. Beginning 1960, inclusion of Alaska and Hawaii added about 500,000 to population, 300,000 to labor force, and 240,000 to nonagricultural employment. Beginning 1962 introduction of 1960 census data reduced population by about 50,000 and labor force and employment by 200,000 . Beginning 1972, introduction of 1970 census data added about 800,000 to civilian noninstitutional population and 333,000 to labor force and employment. A subsequent adjustment based on 1970 census in March 1973 added 60,000 to labor force and to employment. Beginning 1978, changes in sampling and estimation procedures introduced into the household survey added about 250,000 to labor force and to employment. Unemployment levels and rates were not significantly affected. Beginning 1986, the introduction of revised population controls added about 400,000 to the civilian population and labor force and 350,000 to civilian employment. Unemployment levels and rates were not significantly affected.

Beginning 1994, introduction of adjusted 1990 census-based population controls added about 1.3 million to civilian population, 1.1 million to civilian labor force, 950,000 to civilian employment, and 200,000 to unemployment. Unemployment rates were not significantly affected.

Note.- Labor force data in Tables B-31 through B-40 are based on household interviews and relate to the calendar week including the 12 th of the month. For definitions of terms, area samples used, historical comparability of the data, comparability with other series, etc., see "Employment and Earnings."
Source: Department of Labor, Bureau of Labor Statistics.

Table B-32.-Civilian employment and unemployment by sex and age, 1947-95
[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

| Year or month | Civilian employment |  |  |  |  |  |  | Unemployment |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Males |  |  | Females |  |  | Total | Males |  |  | Females |  |  |
|  |  | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20 \\ & \text { years } \\ & \text { and } \\ & \text { over } \end{aligned}$ | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20 \\ & \text { years } \\ & \text { and } \\ & \text { over } \end{aligned}$ |  | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20 \\ & \text { years } \\ & \text { and } \\ & \text { over } \end{aligned}$ | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20 \\ & \text { years } \\ & \text { and } \\ & \text { over } \end{aligned}$ |
| 1947 | 57,038 | 40,995 | 2,218 | 38,776 | 16,045 | 1,691 | 14,354 | 2,311 | 1,692 | 270 | 1,422 | 619 | 144 | 75 |
| 1948 | 58,343 | 41,725 | 2,344 | 39,382 | 16,617 | 1,682 | 14,936 | 2,276 | 1,559 | 256 | 1,305 | 717 | 153 | 564 |
| 1949 . | 57,651 | 40,925 | 2,124 | 38,803 | 16,723 | 1,588 | 15,137 | 3,637 | 2,572 | 353 | 2,219 | 1,065 | 223 | 841 |
| 1950 | 58,918 | 41,578 | 2,186 | 39,394 | 17,340 | 1,517 | 15,824 | 3,288 | 2,239 | 318 | 1,922 | 1,049 | 195 | 854 |
| 1951 | 59,961 | 41,780 | 2,156 | 39,626 | 18,181 | 1,611 | 16,570 | 2,055 | 1,221 | 191 | 1,029 | 834 | 145 | 689 |
| 1952 | 60,250 | 41,682 | 2,107 | 39,578 | 18,568 | 1,612 | 16,958 | 1,883 | 1,185 | 205 | 980 | 698 | 140 | 559 |
| 1953 | 61,179 | 42,430 | 2,136 | 40,296 | 18,749 | 1,584 | 17,164 | 1,834 | 1,202 | 184 | 1,019 | 632 | 123 | 510 |
| 1954 | 60,109 | 41,619 | 1,985 | 39,634 | 18,490 | 1,490 | 17,000 | 3,532 | 2,344 | 310 | 2,035 | 1,188 | 191 | 997 |
| 1955 | 62,170 | 42,621 | 2,095 | 40,526 | 19,551 | 1,547 | 18,002 | 2,852 | 1,854 | 274 | 1,580 | 998 | 176 | 823 |
| 1956 | 63,799 | 43,379 | 2,164 | 41,216 | 20,419 | 1,654 | 18,767 | 2,750 | 1,711 | 269 | 1,442 | 1,039 | 209 | 832 |
| 1957 | 64,071 | 43,357 | 2,115 | 41,239 | 20,714 | 1,663 | 19,052 | 2,859 | 1,841 | 300 | 1,541 | 1,018 | 197 | 821 |
| 1958 | 63,036 | 42,423 | 2,012 | 40,411 | 20,613 | 1,570 | 19,043 | 4,602 | 3,098 | 416 | 2,681 | 1,504 | 262 | 1,242 |
| 1959 | 64,630 | 43,466 | 2,198 | 41,267 | 21,164 | 1,640 | 19,524 | 3,740 | 2,420 | 398 | 2,022 | 1,320 | 256 | 1,063 |
| 1960 | 65,778 | 43,904 | 2,361 | 41,543 | 21,874 | 1,768 | 20,105 | 3,852 | 2,486 | 426 | 2,060 | 1,366 | 286 | 1,080 |
| 1961 | 65,746 | 43,656 | 2,315 | 41,342 | 22,090 | 1,793 | 20,296 | 4,714 | 2,997 | 479 | 2,518 | 1,717 | 349 | 1,368 |
| 1962 | 66,702 | 44,177 | 2,362 | 41,815 | 22,525 | 1,833 | 20,693 | 3,911 | 2,423 | 408 | 2,016 | 1,488 | 313 | 1,175 |
| 1963 | 67,762 | 44,657 | 2,406 | 42,251 | 23,105 | 1,849 | 21,257 | 4,070 | 2,472 | 501 | 1,971 | 1,598 | 383 | 1,216 |
| 1964 | 69,305 | 45,474 | 2,587 | 42,886 | 23,831 | 1,929 | 21,903 | 3,786 | 2,205 | 487 | 1,718 | 1,581 | 385 | 1,195 |
| 1965 | 71,088 | 46,340 | 2,918 | 43,422 | 24,748 | 2,118 | 22,630 | 3,366 | 1,914 | 479 | 1,435 | 1,452 | 395 | 1,056 |
| 1966 | 72,895 | 46,919 | 3,253 | 43,668 | 25,976 | 2,468 | 23,510 | 2,875 | 1,551 | 432 | 1,120 | 1,324 | 405 | 921 |
| 1967 | 74,372 | 47,479 | 3,186 | 44,294 | 26,893 | 2,496 | 24,397 | 2,975 | 1,508 | 448 | 1,060 | 1,468 | 391 | 1,078 |
| 1968 | 75,920 | 48,114 | 3,255 | 44,859 | 27,807 | 2,526 | 25,281 | 2,817 | 1,419 | 426 | 993 | 1,397 | 412 | 985 |
| 1969 | 77,902 | 48,818 | 3,430 | 45,388 | 29,084 | 2,687 | 26,397 | 2,832 | 1,403 | 440 | 963 | 1,429 | 413 | 1,015 |
| 1970 | 78,678 | 48,990 | 3,409 | 45,581 | 29,688 | 2,735 | 26,952 | 4,093 | 2,238 | 599 | 1,638 | 1,855 | 506 | 1,349 |
| 1971 | 79,367 | 49,390 | 3,478 | 45,912 | 29,976 | 2,730 | 27,246 | 5,016 | 2,789 | 693 | 2,097 | 2,227 | 568 | 1,658 |
| 1972 | 82,153 | 50,896 | 3,765 | 47,130 | 31,257 | 2,980 | 28,276 | 4,882 | 2,659 | 711 | 1,948 | 2,222 | 598 | 1,625 |
| 1973 | 85,064 | 52,349 | 4,039 | 48,310 | 32,715 | 3,231 | 29,484 | 4,365 | 2,275 | 653 | 1,624 | 2,089 | 583 | 1,507 |
| 1974 | 86,794 | 53,024 | 4,103 | 48,922 | 33,769 | 3,345 | 30,424 | 5,156 | 2,714 | 757 | 1,957 | 2,441 | 665 | 1,777 |
| 1975 | 85,846 | 51,857 | 3,839 | 48,018 | 33,989 | 3,263 | 30,726 | 7,929 | 4,442 | 966 | 3,476 | 3,486 | 802 | 2,684 |
| 1976 | 88,752 | 53,138 | 3,947 | 49,190 | 35,615 | 3,389 | 32,226 | 7,406 | 4,036 | 939 | 3,098 | 3,369 | 780 | 2,588 |
| 1977 | 92,017 | 54,728 | 4,174 | 50,555 | 37,289 | 3,514 | 33,775 | 6,991 | 3,667 | 874 | 2,794 | 3,324 | 789 | 2,535 |
| 1978 | 96,048 | 56,479 | 4,336 | 52,143 | 39,569 | 3,734 | 35,836 | 6,202 | 3,142 | 813 | 2,328 | 3,061 | 769 | 2,292 |
| 1979 | 98,824 | 57,607 | 4,300 | 53,308 | 41,217 | 3,783 | 37,434 | 6,137 | 3,120 | 811 | 2,308 | 3,018 | 743 | 2,276 |
| 1980 | 99,303 | 57,186 | 4,085 | 53,101 | 42,117 | 3,625 | 38,492 | 7,637 | 4,267 | 913 | 3,353 | 3,370 | 755 | 2,615 |
| 1981 | 100,397 | 57,397 | 3,815 | 53,582 | 43,000 | 3,411 | 39,590 | 8,273 | 4,577 | 962 | 3,615 | 3,696 | 800 | 2,895 |
| 1982 | 99,526 | 56,271 | 3,379 | 52,891 | 43,256 | 3,170 | 40,086 | 10,678 | 6,179 | 1,090 | 5,089 | 4,499 | 886 | 3,613 |
| 1983 | 100,834 | 56,787 | 3,300 | 53,487 | 44,047 | 3,043 | 41,004 | 10,717 | 6,260 | 1,003 | 5,257 | 4,457 | 825 | 3,632 |
| 1984 | 105,005 | 59,091 | 3,322 | 55,769 | 45,915 | 3,122 | 42,793 | 8,539 | 4,744 | 812 | 3,932 | 3,794 | 687 | 3,107 |
| 1985 | 107,150 | 59,891 | 3,328 | 56,562 | 47,259 | 3,105 | 44,154 | 8,312 | 4,521 | 806 | 3,715 | 3,791 | 661 | 3,129 |
| 1986 | 109,597 | 60,892 | 3,323 | 57,569 | 48,706 | 3,149 | 45,556 | 8,237 | 4,530 | 779 | 3,751 | 3,707 | 675 | 3,032 |
| 1987 | 112,440 | 62,107 | 3,381 | 58,726 | 50,334 | 3,260 | 47,074 | 7,425 | 4,101 | 732 | 3,369 | 3,324 | 616 | 2,709 |
| 1988 | 114,968 | 63,273 | 3,492 | 59,781 | 51,696 | 3,313 | 48,383 | 6,701 | 3,655 | 667 | 2,987 | 3,046 | 558 | 2,487 |
| 1989 | 117,342 | 64,315 | 3,477 | 60,837 | 53,027 | 3,282 | 49,745 | 6,528 | 3,525 | 658 | 2,867 | 3,003 | 536 | 2,467 |
| 1990 | 117,914 | 64,435 | 3,237 | 61,198 | 53,479 | 3,024 | 50,455 | 6,874 | 3,799 | 629 | 3,170 | 3,075 | 519 | 2,555 |
| 1991 | 116,877 | 63,593 | 2,879 | 60,714 | 53,284 | 2,749 | 50,535 | 8,426 | 4,817 | 709 | 4,109 | 3,609 | 581 | 3,028 |
| 1992 | 117,598 | 63,805 | 2,786 | 61,019 | 53,793 | 2,613 | 51,181 | 9,384 | 5,380 | 761 | 4,619 | 4,005 | 591 | 3,413 |
| 1993 | 119,306 | 64,700 | 2,836 | 61,865 | 54,606 | 2,694 | 51,912 | 8,734 | 4,932 | 728 | 4,204 | 3,801 | 568 | 3,234 |
| 1994 | 123,060 | 66,450 | 3,156 | 63,294 | 56,610 | 3,005 | 53,606 | 7,996 | 4,367 | 740 | 3,627 | 3,629 | 580 | 3,049 |
| 1995 | 124,900 | 67,377 | 3,292 | 64,085 | 57,523 | 3,127 | 54,396 | 7,404 | 3,983 | 744 | 3,239 | 3,421 | 602 | 2,819 |
| 1994: Jan | 121,903 | 65,846 | 3,101 | 62,745 | 56,057 | 2,990 | 53,067 | 8,740 | 4,863 | 808 | 4,055 | 3,877 | 571 | 3,306 |
| Feb | 122,208 | 65,887 | 3,120 | 62,767 | 56,321 | 2,966 | 53,355 | 8,576 | 4,752 | 766 | 3,986 | 3,824 | 587 | 3,237 |
| Mar | 122,160 | 65,981 | 3,104 | 62,877 | 56,179 | 3,003 | 53,176 | 8,546 | 4,626 | 755 | 3,871 | 3,920 | 585 | 3,335 |
| Apr | 122,402 | 66,058 | 3,099 | 62,959 | 56,344 | 3,026 | 53,318 | 8,385 | 4,567 | 785 | 3,782 | 3,818 | 670 | 3,148 |
| May . | 122,703 | 66,197 | 3,117 | 63,080 | 56,506 | 3,025 | 53,481 | 7,996 | 4,348 | 776 | 3,572 | 3,648 | 584 | 3,064 |
| June.. | 122,635 | 66,255 | 3,212 | 63,043 | 56,380 | 3,052 | 53,328 | 7,903 | 4,266 | 707 | 3,559 | 3,637 | 581 | 3,056 |
| July ... | 122,781 | 66,226 | 3,150 | 63,076 | 56,555 | 3,014 | 53,541 | 7,993 | 4,429 | 758 | 3,671 | 3,564 | 569 | 2,995 |
| Aug ... | 123,197 | 66,458 | 3,187 | 63,271 | 56,739 | 3,017 | 53,722 | 7,889 | 4,283 | 737 | 3,546 | 3,606 | 581 | 3,025 |
| Sept .. | 123,644 | 66,682 | 3,165 | 63,517 | 56,962 | 2,918 | 54,044 | 7,647 | 4,109 | 717 | 3,392 | 3,538 | 551 | 2,987 |
| Oct | 124,141 | 67,059 | 3,239 | 63,820 | 57,082 | 2,992 | 54,090 | 7,505 | 4,074 | 717 | 3,357 | 3,431 | 570 | 2,861 |
| Nov... | 124,403 | 67,244 | 3,193 | 64,051 | 57,159 | 3,030 | 54,129 | 7,315 | 3,924 | 630 | 3,294 | 3,391 | 536 | 2,855 |
| Dec... | 124,570 | 67,483 | 3,202 | 64,281 | 57,087 | 3,050 | 54,037 | 7,155 | 3,896 | 727 | 3,169 | 3,259 | 571 | 2,688 |
| 1995: Jan . | 124,639 | 67,386 | 3,254 | 64,133 | 57,252 | 3,118 | 54,134 | 7,498 | 4,090 | 684 | 3,406 | 3,408 | 591 | 2,817 |
| Feb ... | 125,125 | 67,709 | 3,231 | 64,478 | 57,416 | 3,082 | 54,334 | 7,183 | 3,849 | 775 | 3,074 | 3,334 | 571 | 2,763 |
| Mar ... | 125,274 | 67,811 | 3,346 | 64,465 | 57,462 | 3,220 | 54,242 | 7,237 | 3,862 | 684 | 3,178 | 3,375 | 575 | 2,800 |
| Apr ........... | 125,072 | 67,588 | 3,364 | 64,224 | 57,484 | 3,082 | 54,403 | 7,665 | 4,067 | 728 | 3,339 | 3,598 | 641 | 2,957 |
| May ........... | 124,319 | 67,110 | 3,270 | 63,841 | 57,208 | 3,112 | 54,097 | 7,492 | 4,145 | 735 | 3,410 | 3,347 | 625 | 2,722 |
| June .......... | 124,485 | 67,390 | 3,396 | 63,994 | 57,095 | 3,180 | 53,915 | 7,384 | 3,955 | 716 | 3,238 | 3,429 | 572 | 2,857 |
| July ... | 124,959 | 67,383 | 3,317 | 64,066 | 57,576 | 3,058 | 54,519 | 7,559 | 3,955 | 763 | 3,192 | 3,604 | 652 | 2,952 |
| Aug ........... | 124,779 | 67,108 | 3,236 | 63,871 | 57,672 | 3,174 | 54,498 | 7,431 | 4,001 | 796 | 3,206 | 3,430 | 581 | 2,849 |
| Sept .......... | 125,140 | 67,408 | 3,347 | 64,061 | 57,732 | 3,132 | 54,600 | 7,451 | 4,029 | 747 | 3,282 | 3,422 | 630 | 2,792 |
| Oct .... | 125,399 | 67,494 | 3,252 | 64,243 | 57,905 | 3,195 | 54,710 | 7,249 | 3,797 | 788 | 3,008 | 3,452 | 544 | 2,908 |
| Nov ... | 125,010 | 67,090 | 3,254 | 63,837 | 57,920 | 3,130 | 54,790 | 7,432 | 4,065 | 764 | 3,301 | 3,367 | 630 | 2,737 |
| Dec ........... | 124,904 | 67,155 | 3,267 | 63,888 | 57,749 | 3,078 | 54,671 | 7,380 | 4,073 | 770 | 3.302 | 3,308 | 649 | 2,658 |

Note.-See footnote 5 and Note, Table B-31.

Table B-33.-Civilian employment by demographic characteristic, 1954-95
[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

| Year or month | All civilian workers | White |  |  |  | Black and other |  |  |  | Black |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Males | Females | $\begin{aligned} & \text { Both } \\ & \text { sexes } \\ & 16-19 \end{aligned}$ | Total | Males | Females | $\begin{aligned} & \text { Both } \\ & \text { sexes } \\ & 16-19 \end{aligned}$ | Total | Males | Females | $\begin{gathered} \text { Both } \\ \text { sexes } \\ 16-19 \end{gathered}$ |
| 1954 | 60,109 | 53,95 | 37,846 | 16,111 | 3,078 | 6,152 | 3,773 | 2,379 | 396 |  |  |  |  |
| 1955. | 62,170 | 55,833 | 38,719 | 17,114 | 3,225 | 6,341 | 3,904 | 2,437 | 418 |  | ............. |  |  |
| 1956. | 63,799 | 57,269 | 39,368 | 17,901 | 3,389 | 6,534 | 4,013 | 2,521 | 430 |  |  |  |  |
| 1957. | 64,071 | 57,465 | 39,349 | 18,116 | 3,374 | 6,604 | 4,006 | 2,598 | 407 |  |  |  |  |
| 1958. | 63,036 | 56,613 | 38,591 | 18,022 | 3,216 | 6,423 | 3,833 | 2,590 | 365 |  | ........ | .......... |  |
| 1959. | 64,630 | 58,006 | 39,494 | 18,512 | 3,475 | 6,623 | 3,971 | 2,652 | 362 |  | ....... | .......... |  |
| 1960 | 65,778 | 58,850 | 39,755 | 19,095 | 3,700 | 6,928 | 4,149 | 2,779 | 430 |  |  |  |  |
| 1961 | 65,746 | 58,913 | 39,588 | 19,325 | 3,693 | 6,833 | 4,068 | 2,765 | 414 |  |  |  |  |
| 1962 | 66,702 | 59,698 | 40,016 | 19,682 | 3,774 | 7,003 | 4,160 | 2,843 | 420 |  |  |  |  |
| 1963 | 67,762 | 60,622 | 40,428 | 20,194 | 3,851 | 7,140 | 4,229 | 2,911 | 404 |  |  |  |  |
| 1964. | 69,305 | 61,922 | 41,115 | 20,807 | 4,076 | 7,383 | 4,359 | 3,024 | 440 |  |  |  |  |
| 1965. | 71,088 | 63,446 | 41,844 | 21,602 | 4,562 | 7,643 | 4,496 | 3,147 | 474 |  |  |  |  |
| 1966 | 72,895 | 65,021 | 42,331 | 22,690 | 5,176 | 7,877 | 4,588 | 3,289 | 545 |  |  |  |  |
| 1967 | 74,372 | 66,361 | 42,833 | 23,528 | 5,114 | 8,011 | 4,646 | 3,365 | 568 |  |  |  |  |
| 1968 | 75,920 | 67,750 | 43,411 | 24,339 | 5,195 | 8,169 | 4,702 | 3,467 | 584 |  |  |  |  |
| 1969 | 77,902 | 69,518 | 44,048 | 25,470 | 5,508 | 8,384 | 4,770 | 3,614 | 609 |  |  |  |  |
| 1970 | 78,678 | 70,217 | 44,178 | 26,039 | 5,571 | 8,464 | 4,813 | 3,650 | 574 |  |  |  |  |
| 1971. | 79,367 | 70,878 | 44,595 | 26,283 | 5,670 | 8,488 | 4,796 | 3,692 | 538 |  |  |  |  |
| 1972. | 82,153 | 73,370 | 45,944 | 27,426 | 6,173 | 8,783 | 4,952 | 3,832 | 573 | 7,802 | 4,368 | 3,433 | 509 |
| 1973. | 85,064 | 75,708 | 47,085 | 28,623 | 6,623 | 9,356 | 5,265 | 4,092 | 647 | 8,128 | 4,527 | 3,601 | 570 |
| 1974 | 86,794 | 77,184 | 47,674 | 29,511 | 6,796 | 9,610 | 5,352 | 4,258 | 652 | 8,203 | 4,527 | 3,677 | 554 |
| 1975 | 85,846 | 76,411 | 46,697 | 29,714 | 6,487 | 9,435 | 5,161 | 4,275 | 615 | 7,894 | 4,275 | 3,618 | 507 |
| 1976 | 88,752 | 78,853 | 47,775 | 31,078 | 6,724 | 9,899 | 5,363 | 4,536 | 611 | 8,227 | 4,404 | 3,823 | 508 |
| 1977 | 92,017 | 81,700 | 49,150 | 32,550 | 7,068 | 10,317 | 5,579 | 4,739 | 619 | 8,540 | 4,565 | 3,975 | 508 |
| 1978. | 96,048 | 84,936 | 50,544 | 34,392 | 7,367 | 11,112 | 5,936 | 5,177 | 703 | 9,102 | 4,796 | 4,307 | 571 |
| 1979 | 98,824 | 87,259 | 51,452 | 35,807 | 7,356 | 11,565 | 6,156 | 5,409 | 727 | 9,359 | 4,923 | 4,436 | 579 |
| 1980 | 99,303 | 87,715 | 51,127 | 36,587 | 7,021 | 11,588 | 6,059 | 5,529 | 689 | 9,313 | 4,798 | 4,515 | 547 |
| 1981. | 100,397 | 88,709 | 51,315 | 37,394 | 6,588 | 11,688 | 6,083 | 5,606 | 637 | 9,355 | 4,794 | 4,561 | 505 |
| 1982 | 99,526 | 87,903 | 50,287 | 37,615 | 5,984 | 11,624 | 5,983 | 5,641 | 565 | 9,189 | 4,637 | 4,552 | 428 |
| 1983 | 100,834 | 88,893 | 50,621 | 38,272 | 5,799 | 11,941 | 6,166 | 5,775 | 543 | 9,375 | 4,753 | 4,622 | 416 |
| 1984 | 105,005 | 92,120 | 52,462 | 39,659 | 5,836 | 12,885 | 6,629 | 6,256 | 607 | 10,119 | 5,124 | 4,995 | 474 |
| 1985 | 107,150 | 93,736 | 53,046 | 40,690 | 5,768 | 13,414 | 6,845 | 6,569 | 666 | 10,501 | 5,270 | 5,231 | 532 |
| 1986 | 109,597 | 95,660 | 53,785 | 41,876 | 5,792 | 13,937 | 7,107 | 6,830 | 681 | 10,814 | 5,428 | 5,386 | 536 |
| 1987 | 112,440 | 97,789 | 54,647 | 43,142 | 5,898 | 14,652 | 7,459 | 7,192 | 742 | 11,309 | 5,661 | 5,648 | 587 |
| 1988 | 114,968 | 99,812 | 55,550 | 44,262 | 6,030 | 15,156 | 7,722 | 7,434 | 774 | 11,658 | 5,824 | 5,834 | 601 |
| 1989 | 117,342 | 101,584 | 56,352 | 45,232 | 5,946 | 15,757 | 7,963 | 7,795 | 813 | 11,953 | 5,928 | 6,025 | 625 |
| 1990 | 117,914 | 102,087 | 56,432 | 45,654 | 5,518 | 15,827 | 8,003 | 7,825 | 743 | 11,966 | 5,915 | 6,051 | 573 |
| 1991 | 116,877 | 101,039 | 55,557 | 45,482 | 4,989 | 15,838 | 8,036 | 7,802 | 639 | 11,863 | 5,880 | 5,983 | 474 |
| 1992 | 117,598 | 101,479 | 55,709 | 45,770 | 4,761 | 16,119 | 8,096 | 8,023 | 637 | 11,933 | 5,846 | 6,087 | 474 |
| 1993 | 119,306 | 102,812 | 56,397 | 46,415 | 4,887 | 16,494 | 8,303 | 8,191 | 642 | 12,146 | 5,957 | 6,189 | 474 |
| 1994 | 123,060 | 105,190 | 57,452 | 47,738 | 5,398 | 17,870 | 8,998 | 8,872 | 763 | 12,835 | 6,241 | 6,595 | 552 |
| 1995 | 124,900 | 106,490 | 58,146 | 48,344 | 5,593 | 18,409 | 9,231 | 9,179 | 826 | 13,279 | 6,422 | 6,857 | 586 |
| 1994:Jan | 121,903 | 104,268 | 57,043 | 47,225 | 5,305 | 17,603 | 8,818 | 8,785 | 809 | 12,544 | 6,044 | 6,500 | 597 |
| Feb | 122,208 | 104,612 | 57,053 | 47,559 | 5,336 | 17,637 | 8,881 | 8,756 | 747 | 12,624 | 6,124 | 6,500 | 537 |
| Mar | 122,160 | 104,412 | 57,042 | 47,370 | 5,355 | 17,689 | 8,921 | 8,768 | 740 | 12,718 | 6,186 | 6,532 | 547 |
| Apr | 122,402 | 104,591 | 57,113 | 47,478 | 5,398 | 17,778 | 8,948 | 8,830 | 742 | 12,775 | 6,199 | 6,576 | 546 |
| May | 122,703 | 104,978 | 57,213 | 47,765 | 5,427 | 17,811 | 9,009 | 8,802 | 718 | 12,810 | 6,271 | 6,539 | 497 |
| June ..... | 122,635 | 104,687 | 57,273 | 47,414 | 5,477 | 17,850 | 8,944 | 8,906 | 774 | 12,838 | 6,214 | 6,624 | 552 |
| July | 122,781 | 105,006 | 57,352 | 47,654 | 5,424 | 17,731 | 8,856 | 8,875 | 759 | 12,767 | 6,150 | 6,617 | 542 |
| Aug | 123,197 | 105,401 | 57,558 | 47,843 | 5,463 | 17,826 | 8,911 | 8,915 | 757 | 12,795 | 6,168 | 6,627 | 541 |
| Sept | 123,644 | 105,740 | 57,650 | 48,090 | 5,254 | 17,997 | 9,053 | 8,944 | 801 | 12,927 | 6,286 | 6,641 | 570 |
| Oct .. | 124,141 | 106,010 | 57,877 | 48,133 | 5,414 | 18,131 | 9,167 | 8,964 | 778 | 13,022 | 6,369 | 6,653 | 569 |
| Nov . | 124,403 | 106,242 | 58,028 | 48,214 | 5,431 | 18,161 | 9,192 | 8,969 | 778 | 13,054 | 6,393 | 6,661 | 579 |
| Dec ..... | 124,570 | 106,352 | 58,185 | 48,167 | 5,493 | 18,202 | 9,260 | 8,942 | 744 | 13,119 | 6,458 | 6,661 | 534 |
| 1995:Jan | 124,639 | 106,366 | 58,165 | 48,201 | 5,658 | 18,219 | 9,212 | 9,007 | 713 | 13,192 | 6,435 | 6,757 | 499 |
| Feb | 125,125 | 106,604 | 58,348 | 48,256 | 5,515 | 18,490 | 9,374 | 9,116 | 803 | 13,362 | 6,558 | 6,804 | 570 |
| Mar | 125,274 | 106,698 | 58,396 | 48,301 | 5,734 | 18,512 | 9,384 | 9,128 | 827 | 13,370 | 6,571 | 6,799 | 591 |
| Apr | 125,072 | 106,500 | 58,187 | 48,312 | 5,653 | 18,546 | 9,403 | 9,143 | 796 | 13,337 | 6,514 | 6,823 | 584 |
| May | 124,319 | 105,935 | 57,863 | 48,072 | 5,575 | 18,482 | 9,259 | 9,223 | 817 | 13,336 | 6,420 | 6,916 | 585 |
| June ..... | 124,485 | 106,145 | 58,139 | 48,006 | 5,797 | 18,264 | 9,223 | 9,041 | 805 | 13,142 | 6,399 | 6,742 | 571 |
| July | 124,959 | 106,770 | 58,245 | 48,525 | 5,634 | 18,184 | 9,144 | 9,040 | 797 | 13,033 | 6,326 | 6,707 | 552 |
| Aug. | 124,779 | 106,567 | 58,005 | 48,562 | 5,617 | 18,307 | 9,192 | 9,115 | 814 | 13,049 | 6,293 | 6,756 | 542 |
| Sept | 125,140 | 106,851 | 58,190 | 48,661 | 5,544 | 18,324 | 9,245 | 9,080 | 905 | 13,147 | 6,397 | 6,750 | 622 |
| Oct | 125,399 | 106,815 | 58,217 | 48,598 | 5,549 | 18,522 | 9,210 | 9,312 | 867 | 13,413 | 6,450 | 6,963 | 610 |
| Nov | 125,010 | 106,331 | 57,889 | 48,442 | 5,453 | 18,697 | 9,179 | 9,518 | 920 | 13,662 | 6,461 | 7,201 | 687 |
| Dec ....... | 124,904 | 106,296 | 58,074 | 48,222 | 5,481 | 18,562 | 9,043 | 9,519 | 865 | 13,481 | 6,326 | 7,155 | 623 |

[^32]Source: Department of Labor, Bureau of Labor Statistics.

Table B-34.-U nemployment by demographic characteristic, 1954-95
[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

| Year or month | All civilian workers | White |  |  |  | Black and other |  |  |  | Black |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Males | $\mathrm{Fe}-$ males | $\begin{gathered} \text { Both } \\ \text { sexes } \\ 16-19 \end{gathered}$ | Total | Males | Females | $\begin{aligned} & \text { Both } \\ & \text { sexes } \\ & 16-19 \end{aligned}$ | Total | Males | Females | $\begin{gathered} \text { Both } \\ \text { sexes } \\ 16-19 \end{gathered}$ |
| 1954 | 3,532 | 2,859 | 1,913 | 946 | 423 | 673 | 431 | 242 | 79 |  |  |  |  |
| 1955 .. | 2,852 | 2,252 | 1,478 | 774 | 373 | 601 | 376 | 225 | 77 |  |  |  |  |
| 1956 ... | 2,750 | 2,159 | 1,366 | 793 | 382 | 591 | 345 | 246 | 95 |  | .... | ... |  |
| 1957 ... | 2,859 | 2,289 | 1,477 | 812 | 401 | 570 | 364 | 206 | 96 |  | ... | ........... |  |
| 1958 .. | 4,602 | 3,680 | 2,489 | 1,191 | 541 | 923 | 610 | 313 | 138 |  | ........... |  |  |
| 1959 .... | 3,740 | 2,946 | 1,903 | 1,043 | 525 | 793 | 517 | 276 | 128 |  |  |  |  |
| 1960 | 3,852 | 3,065 | 1,988 | 1,077 | 575 | 788 | 498 | 290 | 138 |  |  |  |  |
| 1961 ... | 4,714 | 3,743 | 2,398 | 1,345 | 669 | 971 | 599 | 372 | 159 |  | ........... |  |  |
| 1962 | 3,911 | 3,052 | 1,915 | 1,137 | 580 | 861 | 509 | 352 | 142 |  | .......... | ........... |  |
| 1963 .. | 4,070 | 3,208 | 1,976 | 1,232 | 708 | 863 | 496 | 367 | 176 | ..... | .... | .... |  |
| 1964 .... | 3,786 | 2,999 | 1,779 | 1,220 | 708 | 787 | 426 | 361 | 165 | ........... | .......... | ........... |  |
| 1965 | 3,366 | 2,691 | 1,556 | 1,135 | 705 | 678 | 360 | 318 | 171 |  | .......... | ........... |  |
| 1966 | 2,875 | 2,255 | 1,241 | 1,014 | 651 | 622 | 310 | 312 | 186 | .... | .... | ........... | ....... |
| 1967 | 2,975 | 2,338 | 1,208 | 1,130 | 635 | 638 | 300 | 338 | 203 |  |  |  |  |
| 1968 | 2,817 | 2,226 | 1,142 | 1,084 | 644 | 590 | 277 | 313 | 194 |  |  |  |  |
| 1969 | 2,832 | 2,260 | 1,137 | 1,123 | 660 | 571 | 267 | 304 | 193 |  |  |  |  |
| 1970. | 4,093 | 3,339 | 1,857 | 1,482 | 871 | 754 | 380 | 374 | 235 |  |  |  |  |
| 1971. | 5,016 | 4,085 | 2,309 | 1,777 | 1,011 | 930 | 481 | 450 | 249 |  |  |  |  |
| 1972 .. | 4,882 | 3,906 | 2,173 | 1,733 | 1,021 | 977 | 486 | 491 | 288 | 906 | 448 | 458 | 279 |
| 1973. | 4,365 | 3,442 | 1,836 | 1,606 | 955 | 924 | 440 | 484 | 280 | 846 | 395 | 451 | 262 |
| 1974 | 5,156 | 4,097 | 2,169 | 1,927 | 1,104 | 1,058 | 544 | 514 | 318 | 965 | 494 | 470 | 297 |
| 1975 | 7,929 | 6,421 | 3,627 | 2,794 | 1,413 | 1,507 | 815 | 692 | 355 | 1,369 | 741 | 629 | 330 |
| 1976 | 7,406 | 5,914 | 3,258 | 2,656 | 1,364 | 1,492 | 779 | 713 | 355 | 1,334 | 698 | 637 | 330 |
| 1977 | 6,991 | 5,441 | 2,883 | 2,558 | 1,284 | 1,550 | 784 | 766 | 379 | 1,393 | 698 | 695 | 354 |
| 1978 | 6,202 | 4,698 | 2,411 | 2,287 | 1,189 | 1,505 | 731 | 774 | 394 | 1,330 | 641 | 690 | 360 |
| 1979 .. | 6,137 | 4,664 | 2,405 | 2,260 | 1,193 | 1,473 | 714 | 759 | 362 | 1,319 | 636 | 683 | 333 |
| 1980 .. | 7,637 | 5,884 | 3,345 | 2,540 | 1,291 | 1,752 | 922 | 830 | 377 | 1,553 | 815 | 738 | 343 |
| 1981. | 8,273 | 6,343 | 3,580 | 2,762 | 1,374 | 1,930 | 997 | 933 | 388 | 1,731 | 891 | 840 | 357 |
| 1982. | 10,678 | 8,241 | 4,846 | 3,395 | 1,534 | 2,437 | 1,334 | 1,104 | 443 | 2,142 | 1,167 | 975 | 396 |
| 1983. | 10,717 | 8,128 | 4,859 | 3,270 | 1,387 | 2,588 | 1,401 | 1,187 | 441 | 2,272 | 1,213 | 1,059 | 392 |
| 1984. | 8,539 | 6,372 | 3,600 | 2,772 | 1,116 | 2,167 | 1,144 | 1,022 | 384 | 1,914 | 1,003 | 911 | 353 |
| 1985. | 8,312 | 6,191 | 3,426 | 2,765 | 1,074 | 2,121 | 1,095 | 1,026 | 394 | 1,864 | 951 | 913 | 357 |
| 1986. | 8,237 | 6,140 | 3,433 | 2,708 | 1,070 | 2,097 | 1,097 | 999 | 383 | 1,840 | 946 | 894 | 347 |
| 1987. | 7,425 | 5,501 | 3,132 | 2,369 | 995 | 1,924 | 969 | 955 | 353 | 1,684 | 826 | 858 | 312 |
| 1988 .. | 6,701 | 4,944 | 2,766 | 2,177 | 910 | 1,757 | 888 | 869 | 316 | 1,547 | 771 | 776 | 288 |
| 1989 .. | 6,528 | 4,770 | 2,636 | 2,135 | 863 | 1,757 | 889 | 868 | 331 | 1,544 | 773 | 772 | 300 |
| 1990. | 6,874 | 5,091 | 2,866 | 2,225 | 856 | 1,783 | 933 | 850 | 292 | 1,527 | 793 | 734 | 258 |
| 1991. | 8,426 | 6,447 | 3,775 | 2,672 | 977 | 1,979 | 1,043 | 936 | 313 | 1,679 | 874 | 805 | 270 |
| 1992. | 9,384 | 7,047 | 4,121 | 2,926 | 983 | 2,337 | 1,259 | 1,079 | 369 | 1,958 | 1,046 | 912 | 313 |
| 1993 .. | 8,734 | 6,547 | 3,753 | 2,793 | 943 | 2,187 | 1,179 | 1,008 | 353 | 1,796 | 954 | 842 | 302 |
| 1994 ............. | 7,996 | 5,892 | 3,275 | 2,617 | 960 | 2,104 | 1,092 | 1,011 | 360 | 1,666 | 848 | 818 | 300 |
| 1995 ............. | 7,404 | 5,459 | 2,999 | 2,460 | 952 | 1,945 | 984 | 961 | 394 | 1,538 | 762 | 777 | 325 |
| 1994:Jan ....... | 8,740 | 6,401 | 3,607 | 2,794 | 1,023 | 2,274 | 1,207 | 1,067 | 338 | 1,879 | 976 | 903 | 292 |
| Feb .... | 8,576 | 6,284 | 3,540 | 2,744 | 996 | 2,250 | 1,183 | 1,067 | 342 | 1,838 | 954 | 884 | 291 |
| Mar ...... | 8,546 | 6,229 | 3,479 | 2,750 | 986 | 2,258 | 1,116 | 1,142 | 347 | 1,807 | 856 | 951 | 289 |
| Apr ....... | 8,385 | 6,218 | 3,489 | 2,729 | 1,116 | 2,159 | 1,086 | 1,073 | 361 | 1,732 | 868 | 864 | 300 |
| May ..... | 7,996 | 5,851 | 3,244 | 2,607 | 992 | 2,113 | 1,075 | 1,038 | 362 | 1,700 | 868 | 832 | 307 |
| June ..... | 7,903 | 5,836 | 3,191 | 2,645 | 917 | 2,063 | 1,074 | 989 | 372 | 1,643 | 839 | 804 | 312 |
| July ...... | 7,993 | 5,905 | 3,295 | 2,610 | 934 | 2,044 | 1,120 | 924 | 385 | 1,613 | 872 | 741 | 323 |
| Aug ...... | 7,889 | 5,785 | 3,168 | 2,617 | 933 | 2,107 | 1,119 | 988 | 378 | 1,634 | 851 | 783 | 306 |
| Sept ..... | 7,647 | 5,641 | 3,077 | 2,564 | 912 | 2,034 | 1,053 | 981 | 342 | 1,550 | 780 | 770 | 269 |
| Oct ....... | 7,505 | 5,545 | 3,059 | 2,486 | 912 | 2,095 | 1,070 | 1,025 | 404 | 1,627 | 805 | 822 | 341 |
| Nov ...... | 7,315 | 5,395 | 2,950 | 2,445 | 849 | 1,967 | 1,007 | 960 | 339 | 1,524 | 762 | 762 | 285 |
| Dec ...... | 7,155 | 5,363 | 2,987 | 2,376 | 946 | 1,846 | 953 | 893 | 349 | 1,422 | 710 | 712 | 283 |
| 1995:Jan ....... | 7,498 | 5,510 | 3,068 | 2,442 | 928 | 1,910 | 962 | 947 | 333 | 1,505 | 760 | 745 | 275 |
| Feb ...... | 7,183 | 5,226 | 2,878 | 2,348 | 949 | 1,911 | 940 | 971 | 386 | 1,505 | 721 | 784 | 317 |
| Mar ...... | 7,237 | 5,301 | 2,930 | 2,372 | 903 | 1,873 | 899 | 973 | 346 | 1,448 | 658 | 790 | 268 |
| Apr ....... | 7,665 | 5,653 | 3,079 | 2,574 | 966 | 2,004 | 992 | 1,012 | 421 | 1,601 | 766 | 835 | 323 |
| May ..... | 7,492 | 5,633 | 3,158 | 2,475 | 967 | 1,847 | 972 | 876 | 386 | 1,467 | 766 | 701 | 317 |
| June ..... | 7,384 | 5,396 | 2,968 | 2,428 | 877 | 1,983 | 987 | 996 | 415 | 1,565 | 782 | 783 | 347 |
| July ...... | 7,559 | 5,427 | 2,866 | 2,561 | 980 | 2,051 | 1,038 | 1,013 | 430 | 1,623 | 798 | 825 | 353 |
| Aug ...... | 7,431 | 5,404 | 2,970 | 2,435 | 914 | 2,090 | 1,089 | 1,002 | 458 | 1,666 | 846 | 820 | 403 |
| Sept ..... | 7,451 | 5,396 | 3,017 | 2,379 | 955 | 2,087 | 1,033 | 1,054 | 411 | 1,676 | 799 | 877 | 356 |
| Oct ....... | 7,249 | 5,417 | 2,913 | 2,503 | 973 | 1,919 | 918 | 1,001 | 376 | 1,470 | 678 | 792 | 301 |
| Nov ...... | 7,432 | 5,648 | 3,152 | 2,496 | 1,031 | 1,817 | 932 | 886 | 380 | 1,409 | 705 | 704 | 307 |
| Dec ...... | 7,380 | 5,551 | 3,041 | 2,511 | 1,021 | 1,897 | 1,073 | 824 | 396 | 1,536 | 854 | 681 | 341 |

[^33]Source: Department of Labor, Bureau of Labor Statistics.

TABLE B-35.-Civilian labor force participation rate and employment/population ratio, 1948-95
[Percent; ${ }^{1}$ monthly data seasonally adjusted]

| Year or month | Labor force participation rate |  |  |  |  |  |  | Employment/population ratio |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All civilian workers | Males | Females | Both <br> sexes <br> 16-19 <br> years | White | Black and other | Black | All civilian workers | Males | $\mathrm{Fe}-$ males | Both <br> sexes <br> 16-19 <br> years | White | Black and other | Black |
| 1948 | 58.8 | 86.6 | 32.7 | 52.5 |  |  |  | 56.6 | 83.5 | 31.3 | 47.7 |  |  |  |
| 1949 | 58.9 | 86.4 | 33.1 | 52.2 |  |  |  | 55.4 | 81.3 | 31.2 | 45.2 |  | ......... |  |
| 1950 | 59.2 | 86.4 | 33.9 | 51.8 |  |  |  | 56.1 | 82.0 | 32.0 | 45.5 |  |  |  |
| 1951 | 59.2 | 86.3 | 34.6 | 52.2 |  |  |  | 57.3 | 84.0 | 33.1 | 47.9 |  | ..... |  |
| 1952 | 59.0 | 86.3 | 34.7 | 51.3 |  | ....... | ......... | 57.3 | 83.9 | 33.4 | 46.9 |  |  |  |
| 1953 | 58.9 | 86.0 | 34.4 | 50.2 |  |  |  | 57.1 | 83.6 | 33.3 | 46.4 |  |  |  |
| 1954 | 58.8 | 85.5 | 34.6 | 48.3 | 58.2 | 64.0 |  | 55.5 | 81.0 | 32.5 | 42.3 | 55.2 | 58.0 |  |
| 1955 | 59.3 | 85.4 | 35.7 | 48.9 | 58.7 | 64.2 |  | 56.7 | 81.8 | 34.0 | 43.5 | 56.5 | 58.7 |  |
| 1956 | 60.0 | 85.5 | 36.9 | 50.9 | 59.4 | 64.9 |  | 57.5 | 82.3 | 35.1 | 45.3 | 57.3 | 59.5 |  |
| 1957 | 59.6 | 84.8 | 36.9 | 49.6 | 59.1 | 64.4 |  | 57.1 | 81.3 | 35.1 | 43.9 | 56.8 | 59.3 |  |
| 1958 | 59.5 | 84.2 | 37.1 | 47.4 | 58.9 | 64.8 |  | 55.4 | 78.5 | 34.5 | 39.9 | 55.3 | 56.7 |  |
| 1959 | 59.3 | 83.7 | 37.1 | 46.7 | 58.7 | 64.3 |  | 56.0 | 79.3 | 35.0 | 39.9 | 55.9 | 57.5 |  |
| 1960 | 59.4 | 83.3 | 37.7 | 47.5 | 58.8 | 64.5 |  | 56.1 | 78.9 | 35.5 | 40.5 | 55.9 | 57.9 |  |
| 1961 | 59.3 | 82.9 | 38.1 | 46.9 | 58.8 | 64.1 | ......... | 55.4 | 77.6 | 35.4 | 39.1 | 55.3 | 56.2 |  |
| 1962 | 58.8 | 82.0 | 37.9 | 46.1 | 58.3 | 63.2 |  | 55.5 | 77.7 | 35.6 | 39.4 | 55.4 | 56.3 |  |
| 1963 | 58.7 | 81.4 | 38.3 | 45.2 | 58.2 | 63.0 |  | 55.4 | 77.1 | 35.8 | 37.4 | 55.3 | 56.2 |  |
| 1964 | 58.7 | 81.0 | 38.7 | 44.5 | 58.2 | 63.1 |  | 55.7 | 77.3 | 36.3 | 37.3 | 55.5 | 57.0 |  |
| 1965 | 58.9 | 80.7 | 39.3 | 45.7 | 58.4 | 62.9 |  | 56.2 | 77.5 | 37.1 | 38.9 | 56.0 | 57.8 |  |
| 1966 | 59.2 | 80.4 | 40.3 | 48.2 | 58.7 | 63.0 | ......... | 56.9 | 77.9 | 38.3 | 42.1 | 56.8 | 58.4 |  |
| 1967 | 59.6 | 80.4 | 41.1 | 48.4 | 59.2 | 62.8 |  | 57.3 | 78.0 | 39.0 | 42.2 | 57.2 | 58.2 |  |
| 1968 | 59.6 | 80.1 | 41.6 | 48.3 | 59.3 | 62.2 |  | 57.5 | 77.8 | 39.6 | 42.2 | 57.4 | 58.0 |  |
| 1969 | 60.1 | 79.8 | 42.7 | 49.4 | 59.9 | 62.1 |  | 58.0 | 77.6 | 40.7 | 43.4 | 58.0 | 58.1 |  |
| 1970 | 60.4 | 79.7 | 43.3 | 49.9 | 60.2 | 61.8 |  | 57.4 | 76.2 | 40.8 | 42.3 | 57.5 | 56.8 |  |
| 1971 | 60.2 | 79.1 | 43.4 | 49.7 | 60.1 | 60.9 |  | 56.6 | 74.9 | 40.4 | 41.3 | 56.8 | 54.9 |  |
| 1972 | 60.4 | 78.9 | 43.9 | 51.9 | 60.4 | 60.2 | 59.9 | 57.0 | 75.0 | 41.0 | 43.5 | 57.4 | 54.1 | 53.7 |
| 1973 | 60.8 | 78.8 | 44.7 | 53.7 | 60.8 | 60.5 | 60.2 | 57.8 | 75.5 | 42.0 | 45.9 | 58.2 | 55.0 | 54.5 |
| 1974 | 61.3 | 78.7 | 45.7 | 54.8 | 61.4 | 60.3 | 59.8 | 57.8 | 74.9 | 42.6 | 46.0 | 58.3 | 54.3 | 53.5 |
| 1975 | 61.2 | 77.9 | 46.3 | 54.0 | 61.5 | 59.6 | 58.8 | 56.1 | 71.7 | 42.0 | 43.3 | 56.7 | 51.4 | 50.1 |
| 1976 | 61.6 | 77.5 | 47.3 | 54.5 | 61.8 | 59.8 | 59.0 | 56.8 | 72.0 | 43.2 | 44.2 | 57.5 | 52.0 | 50.8 |
| 1977 | 62.3 | 77.7 | 48.4 | 56.0 | 62.5 | 60.4 | 59.8 | 57.9 | 72.8 | 44.5 | 46.1 | 58.6 | 52.5 | 51.4 |
| 1978 | 63.2 | 77.9 | 50.0 | 57.8 | 63.3 | 62.2 | 61.5 | 59.3 | 73.8 | 46.4 | 48.3 | 60.0 | 54.7 | 53.6 |
| 1979 | 63.7 | 77.8 | 50.9 | 57.9 | 63.9 | 62.2 | 61.4 | 59.9 | 73.8 | 47.5 | 48.5 | 60.6 | 55.2 | 53.8 |
| 1980 | 63.8 | 77.4 | 51.5 | 56.7 | 64.1 | 61.7 | 61.0 | 59.2 | 72.0 | 47.7 | 46.6 | 60.0 | 53.6 | 52.3 |
| 1981 | 63.9 | 77.0 | 52.1 | 55.4 | 64.3 | 61.3 | 60.8 | 59.0 | 71.3 | 48.0 | 44.6 | 60.0 | 52.6 | 51.3 |
| 1982 | 64.0 | 76.6 | 52.6 | 54.1 | 64.3 | 61.6 | 61.0 | 57.8 | 69.0 | 47.7 | 41.5 | 58.8 | 50.9 | 49.4 |
| 1983 | 64.0 | 76.4 | 52.9 | 53.5 | 64.3 | 62.1 | 61.5 | 57.9 | 68.8 | 48.0 | 41.5 | 58.9 | 51.0 | 49.5 |
| 1984 | 64.4 | 76.4 | 53.6 | 53.9 | 64.6 | 62.6 | 62.2 | 59.5 | 70.7 | 49.5 | 43.7 | 60.5 | 53.6 | 52.3 |
| 1985 | 64.8 | 76.3 | 54.5 | 54.5 | 65.0 | 63.3 | 62.9 | 60.1 | 70.9 | 50.4 | 44.4 | 61.0 | 54.7 | 53.4 |
| 1986 | 65.3 | 76.3 | 55.3 | 54.7 | 65.5 | 63.7 | 63.3 | 60.7 | 71.0 | 51.4 | 44.6 | 61.5 | 55.4 | 54.1 |
| 1987 | 65.6 | 76.2 | 56.0 | 54.7 | 65.8 | 64.3 | 63.8 | 61.5 | 71.5 | 52.5 | 45.5 | 62.3 | 56.8 | 55.6 |
| 1988 | 65.9 | 76.2 | 56.6 | 55.3 | 66.2 | 64.0 | 63.8 | 62.3 | 72.0 | 53.4 | 46.8 | 63.1 | 57.4 | 56.3 |
| 1989 | 66.5 | 76.4 | 57.4 | 55.9 | 66.7 | 64.7 | 64.2 | 63.0 | 72.5 | 54.3 | 47.5 | 63.8 | 58.2 | 56.9 |
| 1990 | 66.4 | 76.1 | 57.5 | 53.7 | 66.8 | 63.7 | 63.3 | 62.7 | 71.9 | 54.3 | 45.4 | 63.6 | 57.3 | 56.2 |
| 1991 | 66.0 | 75.5 | 57.3 | 51.7 | 66.6 | 63.1 | 62.6 | 61.6 | 70.2 | 53.7 | 42.1 | 62.6 | 56.1 | 54.9 |
| 1992 | 66.3 | 75.6 | 57.8 | 51.3 | 66.7 | 63.8 | 63.3 | 61.4 | 69.7 | 53.8 | 41.0 | 62.4 | 55.7 | 54.3 |
| 1993 | 66.2 | 75.2 | 57.9 | 51.5 | 66.7 | 63.1 | 62.4 | 61.6 | 69.9 | 54.1 | 41.7 | 62.7 | 55.7 | 54.4 |
| 1994 | 66.6 | 75.1 | 58.8 | 52.7 | 67.1 | 63.9 | 63.4 | 62.5 | 70.4 | 55.3 | 43.4 | 63.5 | 57.2 | 56.1 |
| 1995 | 66.6 | 75.0 | 58.9 | 53.5 | 67.1 | 64.3 | 63.7 | 62.9 | 70.8 | 55.6 | 44.2 | 63.8 | 58.1 | 57.1 |
| 1994: Jan | 66.7 | 75.3 | 58.7 | 53.1 | 67.1 | 64.2 | 63.5 | 62.2 | 70.1 | 54.9 | 43.3 | 63.2 | 56.9 | 55.2 |
| Feb | 66.7 | 75.2 | 58.9 | 52.7 | 67.2 | 64.2 | 63.6 | 62.3 | 70.1 | 55.2 | 43.1 | 63.4 | 56.9 | 55.5 |
| Mar | 66.6 | 75.1 | 58.8 | 52.9 | 67.0 | 64.3 | 63.8 | 62.3 | 70.2 | 55.0 | 43.4 | 63.2 | 57.0 | 55.8 |
| Apr ...................... | 66.6 | 75.0 | 58.8 | 53.6 | 67.1 | 64.1 | 63.6 | 62.3 | 70.2 | 55.1 | 43.3 | 63.3 | 57.2 | 56.0 |
| May ..................... | 66.5 | 74.9 | 58.8 | 52.9 | 67.0 | 63.9 | 63.6 | 62.4 | 70.3 | 55.2 | 43.3 | 63.5 | 57.2 | 56.1 |
| June .................... | 66.4 | 74.8 | 58.6 | 53.2 | 66.8 | 63.8 | 63.4 | 62.3 | 70.3 | 55.1 | 44.1 | 63.3 | 57.2 | 56.2 |
| July ....................... | 66.4 | 74.9 | 58.7 | 52.5 | 67.0 | 63.2 | 62.8 | 62.4 | 70.2 | 55.2 | 43.2 | 63.4 | 56.7 | 55.8 |
| Aug ...................... | 66.5 | 74.9 | 58.8 | 52.8 | 67.1 | 63.6 | 63.0 | 62.5 | 70.3 | 55.3 | 43.5 | 63.6 | 56.9 | 55.8 |
| Sept ..................... | 66.6 | 74.9 | 58.9 | 51.5 | 67.2 | 63.8 | 63.1 | 62.7 | 70.5 | 55.5 | 42.6 | 63.8 | 57.3 | 56.3 |
| Oct ....................... | 66.7 | 75.1 | 58.9 | 52.7 | 67.2 | 64.3 | 63.7 | 62.9 | 70.8 | 55.5 | 43.7 | 63.9 | 57.6 | 56.6 |
| Nov ...................... | 66.7 | 75.1 | 58.9 | 51.8 | 67.2 | 63.8 | 63.3 | 63.0 | 71.0 | 55.6 | 43.6 | 64.0 | 57.6 | 56.7 |
| Dec ...................... | 66.6 | 75.3 | 58.6 | 52.9 | 67.2 | 63.5 | 63.1 | 63.0 | 71.1 | 55.5 | 43.8 | 64.0 | 57.6 | 56.9 |
| 1995: Jan |  | 75.4 | 58.9 | 53.6 | 67.2 | 64.1 | 63.7 | 63.0 | 71.1 | 55.6 | 44.7 | 63.9 | 58.0 | 57.1 |
| Feb | 66.9 | 75.5 | 58.9 | 53.6 | 67.2 | 64.9 | 64.3 | 63.2 | 71.4 | 55.7 | 44.2 | 64.0 | 58.8 | 57.8 |
| Mar | 66.9 | 75.5 | 59.0 | 54.5 | 67.3 | 64.7 | 64.0 | 63.3 | 71.5 | 55.7 | 45.8 | 64.1 | 58.8 | 57.8 |
| Apr | 67.0 | 75.5 | 59.2 | 54.3 | 67.3 | 65.2 | 64.5 | 63.1 | 71.2 | 55.7 | 44.8 | 63.9 | 58.8 | 57.6 |
| May ..................... | 66.5 | 75.0 | 58.6 | 53.6 | 66.9 | 64.4 | 63.8 | 62.7 | 70.6 | 55.4 | 44.1 | 63.5 | 58.5 | 57.5 |
| June ..................... | 66.4 | 75.0 | 58.6 | 54.2 | 66.9 | 64.0 | 63.3 | 62.7 | 70.9 | 55.2 | 45.4 | 63.6 | 57.7 | 56.6 |
| July ...................... | 66.7 | 74.9 | 59.2 | 53.6 | 67.2 | 63.9 | 63.0 | 62.9 | 70.8 | 55.7 | 43.9 | 64.0 | 57.4 | 56.1 |
| Aug ...................... | 66.5 | 74.6 | 59.0 | 53.5 | 67.0 | 64.3 | 63.2 | 62.8 | 70.4 | 55.7 | 44.0 | 63.8 | 57.7 | 56.0 |
| Sept ..................... | 66.6 | 74.9 | 59.0 | 53.6 | 67.1 | 64.2 | 63.6 | 62.9 | 70.7 | 55.7 | 44.2 | 63.9 | 57.6 | 56.4 |
| Oct ...................... | 66.6 | 74.7 | 59.2 | 53.0 | 67.1 | 64.1 | 63.7 | 63.0 | 70.7 | 55.8 | 43.9 | 63.8 | 58.1 | 57.4 |
| Nov ...................... | 66.4 | 74.4 | 59.1 | 52.7 | 66.9 | 64.3 | 64.4 | 62.7 | 70.2 | 55.8 | 43.3 | 63.5 | 58.6 | 58.4 |
| Dec ...................... | 66.3 | 74.5 | 58.8 | 52.8 | 66.8 | 64.0 | 64.1 | 62.6 | 70.2 | 55.6 | 43.2 | 63.4 | 58.1 | 57.6 |

${ }^{1}$ 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-31.
Source: Department of Labor, Bureau of Labor Statistics.

TABLE B-36.-Civilian labor force participation rate by demographic characteristic, 1954-95
[Percent;1 monthly data seasonally adjusted]

| Year or month | All civilian workers | White |  |  |  |  |  |  | Black and other or black |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Males |  |  | Females |  |  | Total | Males |  |  | Females |  |  |
|  |  |  | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 20 \\ \text { years } \\ \text { and } \\ \text { over } \end{gathered}$ | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 20 \\ \text { years } \\ \text { and } \\ \text { over } \end{gathered}$ |  | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | 20 <br> years and over | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20 \\ & \text { years } \\ & \text { and } \\ & \text { over } \end{aligned}$ |
|  |  |  |  |  |  |  |  |  | Black and other |  |  |  |  |  |  |
| 1954 | 58.8 | 58.2 | 85.6 | 57.6 | 87.8 | 33.3 | 40.6 | 32.7 | 64.0 | 85.2 | 61.2 | 87.1 | 46.1 | 31.0 | 47.7 |
| 1955 | 59.3 | 58.7 | 85.4 | 58.6 | 87.5 | 34.5 | 40.7 | 34.0 | 64.2 | 85.1 | 60.8 | 87.8 | 46.1 | 32.7 | 47.5 |
| 1956 | 60.0 | 59.4 | 85.6 | 60.4 | 87.6 | 35.7 | 43.1 | 35.1 | 64.9 | 85.1 | 61.5 | 87.8 | 47.3 | 36.3 | 48.4 |
| 1957 | 59.6 | 59.1 | 84.8 | 59.2 | 86.9 | 35.7 | 42.2 | 35.2 | 64.4 | 84.2 | 58.8 | 87.0 | 47.1 | 33.2 | 48.6 |
| 1958 | 59.5 | 58.9 | 84.3 | 56.5 | 86.6 | 35.8 | 40.1 | 35.5 | 64.8 | 84.1 | 57.3 | 87.1 | 48.0 | 31.9 | 49.8 |
| 1959 | 59.3 | 58.7 | 83.8 | 55.9 | 86.3 | 36.0 | 39.6 | 35.6 | 64.3 | 83.4 | 55.5 | 86.7 | 47.7 | 28.2 | 49.8 |
| 1960 | 59.4 | 58.8 | 83.4 | 55.9 | 86.0 | 36.5 | 40.3 | 36.2 | 64.5 | 83.0 | 57.6 | 86.2 | 48.2 | 32.9 | 49.9 |
| 1961 | 59.3 | 58.8 | 83.0 | 54.5 | 85.7 | 36.9 | 40.6 | 36.6 | 64.1 | 82.2 | 55.8 | 85.5 | 48.3 | 32.8 | 50.1 |
| 1962 | 58.8 | 58.3 | 82.1 | 53.8 | 84.9 | 36.7 | 39.8 | 36.5 | 63.2 | 80.8 | 53.5 | 84.2 | 48.0 | 33.1 | 49.6 |
| 1963 | 58.7 | 58.2 | 81.5 | 53.1 | 84.4 | 37.2 | 38.7 | 37.0 | 63.0 | 80.2 | 51.5 | 83.9 | 48.1 | 32.6 | 49.9 |
| 1964 | 58.7 | 58.2 | 81.1 | 52.7 | 84.2 | 37.5 | 37.8 | 37.5 | 63.1 | 80.1 | 49.9 | 84.1 | 48.6 | 31.7 | 50.7 |
| 1965 | 58.9 | 58.4 | 80.8 | 54.1 | 83.9 | 38.1 | 39.2 | 38.0 | 62.9 | 79.6 | 51.3 | 83.7 | 48.6 | 29.5 | 51.1 |
| 1966 | 59.2 | 58.7 | 80.6 | 55.9 | 83.6 | 39.2 | 42.6 | 38.8 | 63.0 | 79.0 | 51.4 | 83.3 | 49.4 | 33.5 | 51.6 |
| 1967 | 59.6 | 59.2 | 80.6 | 56.3 | 83.5 | 40.1 | 42.5 | 39.8 | 62.8 | 78.5 | 51.1 | 82.9 | 49.5 | 35.2 | 51.6 |
| 1968 | 59.6 | 59.3 | 80.4 | 55.9 | 83.2 | 40.7 | 43.0 | 40.4 | 62.2 | 77.7 | 49.7 | 82.2 | 49.3 | 34.8 | 51.4 |
| 1969 | 60.1 | 59.9 | 80.2 | 56.8 | 83.0 | 41.8 | 44.6 | 41.5 | 62.1 | 76.9 | 49.6 | 81.4 | 49.8 | 34.6 | 52.0 |
| 1970 | 60.4 | 60.2 | 80.0 | 57.5 | 82.8 | 42.6 | 45.6 | 42.2 | 61.8 | 76.5 | 47.4 | 81.4 | 49.5 | 34.1 | 51.8 |
| 1971 | 60.2 | 60.1 | 79.6 | 57.9 | 82.3 | 42.6 | 45.4 | 42.3 | 60.9 | 74.9 | 44.7 | 80.0 | 49.2 | 31.2 | 51.8 |
| 1972 | 60.4 | 60.4 | 79.6 | 60.1 | 82.0 | 43.2 | 48.1 | 42.7 | 60.2 | 73.9 | 46.0 | 78.6 | 48.8 | 32.3 | 51.2 |
|  |  |  |  |  |  |  |  |  | Black |  |  |  |  |  |  |
| 1972 | 60.4 | 60.4 | 79.6 | 60.1 | 82.0 | 43.2 | 48.1 | 42.7 | 59.9 | 73.6 | 46.3 | 78.5 | 48.7 | 32.2 | 51.2 |
| 1973 | 60.8 | 60.8 | 79.4 | 62.0 | 81.6 | 44.1 | 50.1 | 43.5 | 60.2 | 73.4 | 45.7 | 78.4 | 49.3 | 34.2 | 51.6 |
| 1974 | 61.3 | 61.4 | 79.4 | 62.9 | 81.4 | 45.2 | 51.7 | 44.4 | 59.8 | 72.9 | 46.7 | 77.6 | 49.0 | 33.4 | 51.4 |
| 1975 | 61.2 | 61.5 | 78.7 | 61.9 | 80.7 | 45.9 | 51.5 | 45.3 | 58.8 | 70.9 | 42.6 | 76.0 | 48.8 | 34.2 | 51.1 |
| 1976 | 61.6 | 61.8 | 78.4 | 62.3 | 80.3 | 46.9 | 52.8 | 46.2 | 59.0 | 70.0 | 41.3 | 75.4 | 49.8 | 32.9 | 52.5 |
| 1977 | 62.3 | 62.5 | 78.5 | 64.0 | 80.2 | 48.0 | 54.5 | 47.3 | 59.8 | 70.6 | 43.2 | 75.6 | 50.8 | 32.9 | 53.6 |
| 1978 | 63.2 | 63.3 | 78.6 | 65.0 | 80.1 | 49.4 | 56.7 | 48.7 | 61.5 | 71.5 | 44.9 | 76.2 | 53.1 | 37.3 | 55.5 |
| 1979 | 63.7 | 63.9 | 78.6 | 64.8 | 80.1 | 50.5 | 57.4 | 49.8 | 61.4 | 71.3 | 43.6 | 76.3 | 53.1 | 36.8 | 55.4 |
| 1980 | 63.8 | 64.1 | 78.2 | 63.7 | 79.8 | 51.2 | 56.2 | 50.6 | 61.0 | 70.3 | 43.2 | 75.1 | 53.1 | 34.9 | 55.6 |
| 1981 | 63.9 | 64.3 | 77.9 | 62.4 | 79.5 | 51.9 | 55.4 | 51.5 | 60.8 | 70.0 | 41.6 | 74.5 | 53.5 | 34.0 | 56.0 |
| 1982 | 64.0 | 64.3 | 77.4 | 60.0 | 79.2 | 52.4 | 55.0 | 52.2 | 61.0 | 70.1 | 39.8 | 74.7 | 53.7 | 33.5 | 56.2 |
| 1983 | 64.0 | 64.3 | 77.1 | 59.4 | 78.9 | 52.7 | 54.5 | 52.5 | 61.5 | 70.6 | 39.9 | 75.2 | 54.2 | 33.0 | 56.8 |
| 1984 | 64.4 | 64.6 | 77.1 | 59.0 | 78.7 | 53.3 | 55.4 | 53.1 | 62.2 | 70.8 | 41.7 | 74.8 | 55.2 | 35.0 | 57.6 |
| 1985 | 64.8 | 65.0 | 77.0 | 59.7 | 78.5 | 54.1 | 55.2 | 54.0 | 62.9 | 70.8 | 44.6 | 74.4 | 56.5 | 37.9 | 58.6 |
| 1986 | 65.3 | 65.5 | 76.9 | 59.3 | 78.5 | 55.0 | 56.3 | 54.9 | 63.3 | 71.2 | 43.7 | 74.8 | 56.9 | 39.1 | 58.9 |
| 1987 | 65.6 | 65.8 | 76.8 | 59.0 | 78.4 | 55.7 | 56.5 | 55.6 | 63.8 | 71.1 | 43.6 | 74.7 | 58.0 | 39.6 | 60.0 |
| 1988 | 65.9 | 66.2 | 76.9 | 60.0 | 78.3 | 56.4 | 57.2 | 56.3 | 63.8 | 71.0 | 43.8 | 74.6 | 58.0 | 37.9 | 60.1 |
| 1989 | 66.5 | 66.7 | 77.1 | 61.0 | 78.5 | 57.2 | 57.1 | 57.2 | 64.2 | 71.0 | 44.6 | 74.4 | 58.7 | 40.4 | 60.6 |
| 1990 | 66.4 | 66.8 | 76.9 | 59.4 | 78.3 | 57.5 | 55.4 | 57.6 | 63.3 | 70.1 | 40.6 | 73.8 | 57.8 | 36.7 | 60.0 |
| 1991 | 66.0 | 66.6 | 76.4 | 57.2 | 77.8 | 57.4 | 54.3 | 57.7 | 62.6 | 69.5 | 37.4 | 73.4 | 57.0 | 33.5 | 59.3 |
| 1992 | 66.3 | 66.7 | 76.4 | 56.7 | 77.8 | 57.8 | 52.6 | 58.1 | 63.3 | 69.7 | 40.7 | 73.1 | 58.0 | 35.2 | 60.1 |
| 1993 | 66.2 | 66.7 | 76.1 | 56.5 | 77.5 | 58.0 | 53.7 | 58.3 | 62.4 | 68.6 | 39.5 | 72.0 | 57.4 | 34.5 | 59.5 |
| 1994 | 66.6 | 67.1 | 75.9 | 57.7 | 77.3 | 58.9 | 55.1 | 59.2 | 63.4 | 69.1 | 40.8 | 72.5 | 58.7 | 36.3 | 60.9 |
| 1995 ................ | 66.6 | 67.1 | 75.7 | 58.5 | 77.1 | 59.0 | 55.5 | 59.2 | 63.7 | 69.0 | 40.1 | 72.5 | 59.5 | 39.8 | 61.4 |
| 1994:Jan .......... | 66.7 | 67.1 | 76.0 | 58.5 | 77.4 | 58.7 | 54.6 | 59.0 | 63.5 | 68.9 | 40.4 | 72.3 | 59.0 | 40.6 | 60.8 |
| Feb ......... | 66.7 | 67.2 | 75.9 | 58.1 | 77.3 | 59.0 | 54.9 | 59.3 | 63.6 | 69.4 | 39.4 | 73.0 | 58.8 | 36.1 | 61.0 |
| Mar ......... | 66.6 | 67.0 | 75.8 | 57.6 | 77.2 | 58.7 | 55.4 | 59.0 | 63.8 | 69.0 | 39.9 | 72.4 | 59.5 | 36.3 | 61.8 |
| Apr .......... | 66.6 | 67.1 | 75.9 | 58.9 | 77.2 | 58.8 | 57.0 | 58.9 | 63.6 | 69.2 | 40.4 | 72.6 | 59.1 | 36.6 | 61.3 |
| May ......... | 66.5 | 67.0 | 75.6 | 58.1 | 77.0 | 59.0 | 56.0 | 59.2 | 63.6 | 69.8 | 39.8 | 73.3 | 58.5 | 33.4 | 61.0 |
| June ........ | 66.4 | 66.8 | 75.6 | 57.5 | 77.0 | 58.6 | 56.0 | 58.8 | 63.4 | 68.8 | 41.8 | 72.0 | 58.9 | 36.6 | 61.1 |
| July ......... | 66.4 | 67.0 | 75.7 | 57.6 | 77.1 | 58.8 | 55.0 | 59.0 | 62.8 | 68.4 | 41.6 | 71.7 | 58.3 | 35.9 | 60.5 |
| Aug ......... | 66.5 | 67.1 | 75.8 | 57.9 | 77.2 | 59.0 | 55.3 | 59.2 | 63.0 | 68.3 | 41.4 | 71.5 | 58.6 | 35.3 | 60.9 |
| Sept ........ | 66.6 | 67.2 | 75.7 | 56.3 | 77.2 | 59.2 | 52.7 | 59.6 | 63.1 | 68.6 | 39.4 | 72.1 | 58.5 | 36.3 | 60.7 |
| Oct .......... | 66.7 | 67.2 | 75.9 | 57.6 | 77.3 | 59.1 | 54.3 | 59.4 | 63.7 | 69.6 | 42.9 | 72.7 | 59.0 | 39.1 | 60.9 |
| Nov ......... | 66.7 | 67.2 | 75.9 | 56.3 | 77.4 | 59.1 | 54.7 | 59.4 | 63.3 | 69.3 | 41.4 | 72.6 | 58.5 | 36.3 | 60.7 |
| Dec ......... | 66.6 | 67.2 | 76.1 | 57.7 | 77.5 | 58.9 | 56.0 | 59.1 | 63.1 | 69.3 | 40.7 | 72.7 | 58.0 | 32.7 | 60.5 |
| 1995:Jan .... | 66.8 | 67.2 | 76.1 | 58.5 | 77.5 | 58.9 | 57.6 | 59.0 | 63.7 | 69.6 | 36.3 | 73.6 | 58.8 | 32.9 | 61.4 |
| Feb ..... | 66.9 | 67.2 | 76.1 | 58.4 | 77.5 | 58.9 | 55.3 | 59.1 | 64.3 | 70.3 | 42.4 | 73.7 | 59.4 | 36.7 | 61.7 |
| Mar .... | 66.9 | 67.3 | 76.2 | 59.5 | 77.5 | 58.9 | 57.0 | 59.1 | 64.0 | 69.8 | 36.3 | 73.8 | 59.4 | 40.0 | 61.3 |
| Apr .......... | 67.0 | 67.3 | 76.0 | 60.0 | 77.3 | 59.1 | 55.9 | 59.4 | 64.5 | 70.2 | 41.0 | 73.7 | 59.8 | 39.4 | 61.9 |
| May ......... | 66.5 | 66.9 | 75.7 | 58.7 | 77.0 | 58.7 | 55.7 | 58.9 | 63.8 | 69.2 | 38.4 | 73.0 | 59.5 | 40.4 | 61.4 |
| June ........ | 66.4 | 66.9 | 75.7 | 60.1 | 77.0 | 58.6 | 56.3 | 58.7 | 63.3 | 69.1 | 41.0 | 72.5 | 58.7 | 39.8 | 60.6 |
| July ......... | 66.7 | 67.2 | 75.7 | 59.6 | 76.9 | 59.3 | 55.6 | 59.5 | 63.0 | 68.4 | 40.9 | 71.7 | 58.7 | 38.7 | 60.6 |
| Aug ......... | 66.5 | 67.0 | 75.5 | 58.2 | 76.8 | 59.1 | 55.4 | 59.4 | 63.2 | 68.5 | 42.2 | 71.6 | 58.9 | 40.8 | 60.7 |
| Sept ........ | 66.6 | 67.1 | 75.7 | 58.1 | 77.0 | 59.1 | 54.6 | 59.4 | 63.6 | 68.9 | 40.6 | 72.4 | 59.2 | 44.1 | 60.7 |
| Oct .......... | 66.6 | 67.1 | 75.5 | 58.1 | 76.9 | 59.2 | 54.8 | 59.5 | 63.7 | 68.1 | 38.3 | 71.8 | 60.1 | 40.5 | 62.1 |
| Nov ......... | 66.4 | 66.9 | 75.3 | 57.0 | 76.8 | 58.9 | 55.0 | 59.2 | 64.4 | 68.4 | 41.9 | 71.8 | 61.2 | 42.1 | 63.1 |
| Dec ......... | 66.3 | 66.8 | 75.4 | 57.8 | 76.8 | 58.7 | 54.2 | 59.0 | 64.1 | 68.4 | 40.4 | 71.9 | 60.6 | 42.8 | 62.4 |

[^34]Note. - Data relate to persons 16 years of age and over.
See footnote 5 and Note, Table B-31.
Source: Department of Labor, Bureau of Labor Statistics.

Table B-37.-Civilian employment/population ratio by demographic characteristic, 1954-95
[Percent;1 monthly data seasonally adjusted]

| Year or month | All civilian workers | White |  |  |  |  |  |  | Black and other or black |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Males |  |  | Females |  |  | Total | Males |  |  | Females |  |  |
|  |  |  | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | 20 <br> years <br> and <br> over | Total | $\begin{aligned} & \text { 16-19 } \\ & \text { years } \end{aligned}$ | 20 <br> years <br> and <br> over |  | Total | $\begin{aligned} & \text { 16-19 } \\ & \text { years } \end{aligned}$ | 20 <br> years and over | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | 20 <br> years and over |
|  |  |  |  |  |  |  |  |  | Black and other |  |  |  |  |  |  |
| 1954 | 55.5 | 55.2 | 81.5 | 49.9 | 84.0 | 31.4 | 36.4 | 31.1 | 58.0 | 76.5 | 52.4 | 79.2 | 41.9 | 24.7 | 43.7 |
| 1955 | 56.7 | 56.5 | 82.2 | 52.0 | 84.7 | 33.0 | 37.0 | 32.7 | 58.7 | 77.6 | 52.7 | 80.4 | 42.2 | 26.4 | 43.9 |
| 1956 | 57.5 | 57.3 | 82.7 | 54.1 | 85.0 | 34.2 | 38.9 | 33.8 | 59.5 | 78.4 | 52.2 | 81.3 | 43.0 | 28.0 | 44.7 |
| 1957 | 57.1 | 56.8 | 81.8 | 52.4 | 84.1 | 34.2 | 38.2 | 33.9 | 59.3 | 77.2 | 48.0 | 80.5 | 43.7 | 26.5 | 45.5 |
| 1958 | 55.4 | 55.3 | 79.2 | 47.6 | 81.8 | 33.6 | 35.0 | 33.5 | 56.7 | 72.5 | 42.0 | 76.0 | 42.8 | 22.8 | 45.0 |
| 1959 | 56.0 | 55.9 | 79.9 | 48.1 | 82.8 | 34.0 | 34.8 | 34.0 | 57.5 | 73.8 | 41.4 | 77.6 | 43.2 | 20.3 | 45.7 |
| 1960 | 56.1 | 55.9 | 79.4 | 48.1 | 82.4 | 34.6 | 35.1 | 34.5 | 57.9 | 74.1 | 43.8 | 77.9 | 43.6 | 24.8 | 45.8 |
| 1961 | 55.4 | 55.3 | 78.2 | 45.9 | 81.4 | 34.5 | 34.6 | 34.5 | 56.2 | 71.7 | 41.0 | 75.5 | 42.6 | 23.2 | 44.8 |
| 1962 | 55.5 | 55.4 | 78.4 | 46.4 | 81.5 | 34.7 | 34.8 | 34.7 | 56.3 | 72.0 | 41.7 | 75.7 | 42.7 | 23.1 | 44.9 |
| 1963 | 55.4 | 55.3 | 77.7 | 44.7 | 81.1 | 35.0 | 32.9 | 35.2 | 56.2 | 71.8 | 37.4 | 76.2 | 42.7 | 21.3 | 45.2 |
| 1964 | 55.7 | 55.5 | 77.8 | 45.0 | 81.3 | 35.5 | 32.2 | 35.8 | 57.0 | 72.9 | 37.8 | 77.7 | 43.4 | 21.8 | 46.1 |
| 1965 | 56.2 | 56.0 | 77.9 | 47.1 | 81.5 | 36.2 | 33.7 | 36.5 | 57.8 | 73.7 | 39.4 | 78.7 | 44.1 | 20.2 | 47.3 |
| 1966 | 56.9 | 56.8 | 78.3 | 50.1 | 81.7 | 37.5 | 37.5 | 37.5 | 58.4 | 74.0 | 40.5 | 79.2 | 45.1 | 23.1 | 48.2 |
| 1967 | 57.3 | 57.2 | 78.4 | 50.2 | 81.7 | 38.3 | 37.7 | 38.3 | 58.2 | 73.8 | 38.8 | 79.4 | 45.0 | 24.8 | 47.9 |
| 1968 | 57.5 | 57.4 | 78.3 | 50.3 | 81.6 | 38.9 | 37.8 | 39.1 | 58.0 | 73.3 | 38.7 | 78.9 | 45.2 | 24.7 | 48.2 |
| 1969 | 58.0 | 58.0 | 78.2 | 51.1 | 81.4 | 40.1 | 39.5 | 40.1 | 58.1 | 72.8 | 39.0 | 78.4 | 45.9 | 25.1 | 48.9 |
| 1970 | 57.4 | 57.5 | 76.8 | 49.6 | 80.1 | 40.3 | 39.5 | 40.4 | 56.8 | 70.9 | 35.5 | 76.8 | 44.9 | 22.4 | 48.2 |
| 1971 | 56.6 | 56.8 | 75.7 | 49.2 | 79.0 | 39.9 | 38.6 | 40.1 | 54.9 | 68.1 | 31.8 | 74.2 | 43.9 | 20.2 | 47.3 |
| 1972 ............... | 57.0 | 57.4 | 76.0 | 51.5 | 79.0 | 40.7 | 41.3 | 40.6 | 54.1 | 67.3 | 32.4 | 73.2 | 43.3 | 19.9 | 46.7 |
|  |  |  |  |  |  |  |  |  | Black |  |  |  |  |  |  |
| 1972 | 57.0 | 57.4 | 76.0 | 51.5 | 79.0 | 40.7 | 41.3 | 40.6 | 53.7 | 66.8 | 31.6 | 73.0 | 43.0 | 19.2 | 46.5 |
| 1973 | 57.8 | 58.2 | 76.5 | 54.3 | 79.2 | 41.8 | 43.6 | 41.6 | 54.5 | 67.5 | 32.8 | 73.7 | 43.8 | 22.0 | 47.2 |
| 1974 | 57.8 | 58.3 | 75.9 | 54.4 | 78.6 | 42.4 | 44.3 | 42.2 | 53.5 | 65.8 | 31.4 | 71.9 | 43.5 | 20.9 | 46.9 |
| 1975 | 56.1 | 56.7 | 73.0 | 50.6 | 75.7 | 42.0 | 42.5 | 41.9 | 50.1 | 60.6 | 26.3 | 66.5 | 41.6 | 20.2 | 44.9 |
| 1976 | 56.8 | 57.5 | 73.4 | 51.5 | 76.0 | 43.2 | 44.2 | 43.1 | 50.8 | 60.6 | 25.8 | 66.8 | 42.8 | 19.2 | 46.4 |
| 1977 | 57.9 | 58.6 | 74.1 | 54.4 | 76.5 | 44.5 | 45.9 | 44.4 | 51.4 | 61.4 | 26.4 | 67.5 | 43.3 | 18.5 | 47.0 |
| 1978 | 59.3 | 60.0 | 75.0 | 56.3 | 77.2 | 46.3 | 48.5 | 46.1 | 53.6 | 63.3 | 28.5 | 69.1 | 45.8 | 22.1 | 49.3 |
| 1979 | 59.9 | 60.6 | 75.1 | 55.7 | 77.3 | 47.5 | 49.4 | 47.3 | 53.8 | 63.4 | 28.7 | 69.1 | 46.0 | 22.4 | 49.3 |
| 1980 | 59.2 | 60.0 | 73.4 | 53.4 | 75.6 | 47.8 | 47.9 | 47.8 | 52.3 | 60.4 | 27.0 | 65.8 | 45.7 | 21.0 | 49.1 |
| 1981 | 59.0 | 60.0 | 72.8 | 51.3 | 75.1 | 48.3 | 46.2 | 48.5 | 51.3 | 59.1 | 24.6 | 64.5 | 45.1 | 19.7 | 48.5 |
| 1982 | 57.8 | 58.8 | 70.6 | 47.0 | 73.0 | 48.1 | 44.6 | 48.4 | 49.4 | 56.0 | 20.3 | 61.4 | 44.2 | 17.7 | 47.5 |
| 1983 | 57.9 | 58.9 | 70.4 | 47.4 | 72.6 | 48.5 | 44.5 | 48.9 | 49.5 | 56.3 | 20.4 | 61.6 | 44.1 | 17.0 | 47.4 |
| 1984 ... | 59.5 | 60.5 | 72.1 | 49.1 | 74.3 | 49.8 | 47.0 | 50.0 | 52.3 | 59.2 | 23.9 | 64.1 | 46.7 | 20.1 | 49.8 |
| 1985 | 60.1 | 61.0 | 72.3 | 49.9 | 74.3 | 50.7 | 47.1 | 51.0 | 53.4 | 60.0 | 26.3 | 64.6 | 48.1 | 23.1 | 50.9 |
| 1986 | 60.7 | 61.5 | 72.3 | 49.6 | 74.3 | 51.7 | 47.9 | 52.0 | 54.1 | 60.6 | 26.5 | 65.1 | 48.8 | 23.8 | 51.6 |
| 1987 | 61.5 | 62.3 | 72.7 | 49.9 | 74.7 | 52.8 | 49.0 | 53.1 | 55.6 | 62.0 | 28.5 | 66.4 | 50.3 | 25.8 | 53.0 |
| 1988 | 62.3 | 63.1 | 73.2 | 51.7 | 75.1 | 53.8 | 50.2 | 54.0 | 56.3 | 62.7 | 29.4 | 67.1 | 51.2 | 25.8 | 53.9 |
| 1989 | 63.0 | 63.8 | 73.7 | 52.6 | 75.4 | 54.6 | 50.5 | 54.9 | 56.9 | 62.8 | 30.4 | 67.0 | 52.0 | 27.1 | 54.6 |
| 1990 | 62.7 | 63.6 | 73.2 | 51.0 | 75.0 | 54.8 | 48.5 | 55.2 | 56.2 | 61.8 | 27.6 | 66.1 | 51.6 | 25.7 | 54.2 |
| 1991 | 61.6 | 62.6 | 71.5 | 47.2 | 73.3 | 54.3 | 46.1 | 54.8 | 54.9 | 60.5 | 23.8 | 64.9 | 50.3 | 21.4 | 53.1 |
| 1992 | 61.4 | 62.4 | 71.1 | 46.3 | 72.9 | 54.3 | 44.3 | 54.9 | 54.3 | 59.1 | 23.6 | 63.3 | 50.4 | 22.1 | 53.1 |
| 1993 | 61.6 | 62.7 | 71.3 | 46.6 | 73.1 | 54.7 | 45.8 | 55.3 | 54.4 | 59.1 | 23.6 | 63.2 | 50.5 | 21.6 | 53.2 |
| 1994 | 62.5 | 63.5 | 71.8 | 48.3 | 73.6 | 55.8 | 47.5 | 56.4 | 56.1 | 60.8 | 25.4 | 65.0 | 52.3 | 24.5 | 55.0 |
| 1995 ............... | 62.9 | 63.8 | 72.0 | 49.4 | 73.8 | 56.1 | 48.1 | 56.7 | 57.1 | 61.7 | 25.2 | 66.1 | 53.4 | 26.1 | 56.1 |
| 1994:Jan .... | 62.2 | 63.2 | 71.5 | 48.0 | 73.3 | 55.4 | 46.9 | 56.0 | 55.2 | 59.4 | 24.5 | 63.5 | 51.8 | 29.8 | 54.0 |
| Feb .......... | 62.3 | 63.4 | 71.5 | 48.3 | 73.3 | 55.8 | 46.9 | 56.4 | 55.5 | 60.1 | 23.7 | 64.4 | 51.8 | 25.2 | 54.4 |
| Mar ......... | 62.3 | 63.2 | 71.4 | 47.9 | 73.3 | 55.5 | 47.6 | 56.1 | 55.8 | 60.6 | 24.5 | 64.9 | 52.0 | 25.3 | 54.6 |
| Apr .......... | 62.3 | 63.3 | 71.5 | 48.1 | 73.3 | 55.6 | 48.0 | 56.1 | 56.0 | 60.7 | 24.4 | 65.0 | 52.3 | 25.3 | 54.9 |
| May ......... | 62.4 | 63.5 | 71.6 | 48.2 | 73.4 | 55.9 | 48.3 | 56.5 | 56.1 | 61.3 | 23.5 | 65.8 | 51.9 | 21.7 | 54.9 |
| June ........ | 62.3 | 63.3 | 71.6 | 48.9 | 73.3 | 55.5 | 48.4 | 56.0 | 56.2 | 60.6 | 25.4 | 64.8 | 52.5 | 24.7 | 55.3 |
| July ......... | 62.4 | 63.4 | 71.6 | 48.3 | 73.4 | 55.7 | 47.8 | 56.3 | 55.8 | 59.9 | 24.4 | 64.2 | 52.4 | 24.2 | 55.2 |
| Aug ......... | 62.5 | 63.6 | 71.8 | 49.0 | 73.6 | 55.9 | 47.7 | 56.5 | 55.8 | 60.0 | 24.9 | 64.2 | 52.4 | 24.0 | 55.2 |
| Sept ........ | 62.7 | 63.8 | 71.9 | 47.2 | 73.8 | 56.2 | 45.7 | 56.9 | 56.3 | 61.1 | 27.3 | 65.1 | 52.5 | 24.2 | 55.2 |
| Oct .......... | 62.9 | 63.9 | 72.1 | 48.8 | 73.9 | 56.2 | 46.9 | 56.8 | 56.6 | 61.8 | 27.5 | 65.8 | 52.5 | 23.8 | 55.3 |
| Nov ......... | 63.0 | 64.0 | 72.2 | 48.3 | 74.1 | 56.2 | 47.8 | 56.8 | 56.7 | 61.9 | 28.2 | 65.9 | 52.5 | 23.9 | 55.3 |
| Dec ......... | 63.0 | 64.0 | 72.4 | 48.5 | 74.2 | 56.2 | 48.6 | 56.7 | 56.9 | 62.4 | 26.7 | 66.7 | 52.4 | 21.2 | 55.5 |
| 1995:Jan .......... | 63.0 | 63.9 | 72.3 | 49.7 | 74.1 | 56.1 | 50.1 | 56.5 | 57.1 | 62.3 | 23.9 | 66.8 | 53.0 | 20.7 | 56.2 |
| Feb .......... | 63.2 | 64.0 | 72.5 | 49.0 | 74.3 | 56.1 | 48.1 | 56.7 | 57.8 | 63.4 | 26.0 | 67.8 | 53.3 | 24.8 | 56.1 |
| Mar ......... | 63.3 | 64.1 | 72.5 | 50.7 | 74.2 | 56.2 | 50.0 | 56.6 | 57.8 | 63.4 | 24.8 | 68.0 | 53.2 | 27.7 | 55.7 |
| Apr ......... | 63.1 | 63.9 | 72.2 | 50.9 | 73.9 | 56.1 | 48.1 | 56.7 | 57.6 | 62.8 | 26.5 | 67.1 | 53.3 | 25.3 | 56.1 |
| May ......... | 62.7 | 63.5 | 71.8 | 49.8 | 73.5 | 55.8 | 47.7 | 56.4 | 57.5 | 61.8 | 23.0 | 66.6 | 54.0 | 28.1 | 56.6 |
| June ........ | 62.7 | 63.6 | 72.1 | 51.4 | 73.7 | 55.7 | 49.8 | 56.1 | 56.6 | 61.5 | 25.1 | 66.0 | 52.6 | 25.1 | 55.3 |
| July ......... | 62.9 | 64.0 | 72.1 | 50.9 | 73.8 | 56.3 | 47.2 | 56.9 | 56.1 | 60.8 | 23.9 | 65.2 | 52.2 | 24.7 | 55.0 |
| Aug ......... | 62.8 | 63.8 | 71.8 | 49.0 | 73.6 | 56.3 | 48.6 | 56.8 | 56.0 | 60.3 | 22.7 | 64.9 | 52.6 | 24.9 | 55.3 |
| Sept ........ | 62.9 | 63.9 | 71.9 | 48.8 | 73.8 | 56.4 | 47.4 | 57.0 | 56.4 | 61.2 | 27.3 | 65.4 | 52.4 | 26.6 | 55.0 |
| Oct .......... | 63.0 | 63.8 | 71.9 | 47.9 | 73.8 | 56.3 | 48.2 | 56.8 | 57.4 | 61.6 | 25.5 | 66.1 | 54.0 | 27.3 | 56.6 |
| Nov ... | 62.7 | 63.5 | 71.4 | 47.5 | 73.3 | 56.1 | 46.8 | 56.7 | 58.4 | 61.7 | 28.5 | 66.0 | 55.8 | 29.6 | 58.4 |
| Dec ......... | 62.6 | 63.4 | 71.6 | 48.5 | 73.4 | 55.8 | 45.9 | 56.5 | 57.6 | 60.3 | 24.0 | 64.7 | 55.4 | 29.7 | 57.9 |

[^35]Note. - Data relate to persons 16 years of age and over.
See footnote 5 and Note, Table B-31.
Source: Department of Labor, Bureau of Labor Statistics.

Table B-38.-Civilian unemployment rate, 1948-95
[Percent; ${ }^{1}$ monthly data seasonally adjusted]

| Year or month | All civilian workers | Males |  |  | Females |  |  | Both sexes 16-19 years | White | Black and other | Black | Experienced wage and salary workers | Married men, spouse present ${ }^{2}$ | Women who maintain families |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | $\begin{gathered} 16- \\ 19 \\ \text { years } \end{gathered}$ | 20 years and over | Total | $\begin{gathered} 16- \\ 19 \\ \text { years } \end{gathered}$ | 20 years and over |  |  |  |  |  |  |  |
| 1948 | 3.8 | 3.6 | 9.8 | 3.2 | 4.1 | 8.3 | 3.6 | 9.2 | 3.5 | 5.9 |  | 4.3 |  |  |
| 1949 ............... | 5.9 | 5.9 | 14.3 | 5.4 | 6.0 | 12.3 | 5.3 | 13.4 | 5.6 | 8.9 |  | 6.8 | 3.5 |  |
| 1950 .... | 5.3 | 5.1 | 12.7 | 4.7 | 5.7 | 11.4 | 5.1 | 12.2 | 4.9 | 9.0 |  | 6.0 | 4.6 |  |
| 1951 | 3.3 | 2.8 | 8.1 | 2.5 | 4.4 | 8.3 | 4.0 | 8.2 | 3.1 | 5.3 |  | 3.7 | 1.5 |  |
| 1952 | 3.0 | 2.8 | 8.9 | 2.4 | 3.6 | 8.0 | 3.2 | 8.5 | 2.8 | 5.4 |  | 3.4 | 1.4 |  |
| 1953 | 2.9 | 2.8 | 7.9 | 2.5 | 3.3 | 7.2 | 2.9 | 7.6 | 2.7 | 4.5 |  | 3.2 | 1.7 |  |
| 1954 | 5.5 | 5.3 | 13.5 | 4.9 | 6.0 | 11.4 | 5.5 | 12.6 | 5.0 | 9.9 |  | 6.2 | 4.0 |  |
| 1955 | 4.4 | 4.2 | 11.6 | 3.8 | 4.9 | 10.2 | 4.4 | 11.0 | 3.9 | 8.7 |  | 4.8 | 2.6 |  |
| 1956 | 4.1 | 3.8 | 11.1 | 3.4 | 4.8 | 11.2 | 4.2 | 11.1 | 3.6 | 8.3 |  | 4.4 | 2.3 |  |
| 1957 | 4.3 | 4.1 | 12.4 | 3.6 | 4.7 | 10.6 | 4.1 | 11.6 | 3.8 | 7.9 |  | 4.6 | 2.8 |  |
| 1958 | 6.8 | 6.8 | 17.1 | 6.2 | 6.8 | 14.3 | 6.1 | 15.9 | 6.1 | 12.6 |  | 7.3 | 5.1 |  |
| 1959 ............... | 5.5 | 5.2 | 15.3 | 4.7 | 5.9 | 13.5 | 5.2 | 14.6 | 4.8 | 10.7 |  | 5.7 | 3.6 |  |
| 1960 | 5.5 | 5.4 | 15.3 | 4.7 | 5.9 | 13.9 | 5.1 | 14.7 | 5.0 | 10.2 |  | 5.7 | 3.7 |  |
| 1961 | 6.7 | 6.4 | 17.1 | 5.7 | 7.2 | 16.3 | 6.3 | 16.8 | 6.0 | 12.4 | ........... | 6.8 | 4.6 |  |
| 1962 | 5.5 | 5.2 | 14.7 | 4.6 | 6.2 | 14.6 | 5.4 | 14.7 | 4.9 | 10.9 | .......... | 5.6 | 3.6 |  |
| 1963 | 5.7 | 5.2 | 17.2 | 4.5 | 6.5 | 17.2 | 5.4 | 17.2 | 5.0 | 10.8 | .......... | 5.6 | 3.4 |  |
| 1964 | 5.2 | 4.6 | 15.8 | 3.9 | 6.2 | 16.6 | 5.2 | 16.2 | 4.6 | 9.6 | ........... | 5.0 | 2.8 |  |
| 1965 | 4.5 | 4.0 | 14.1 | 3.2 | 5.5 | 15.7 | 4.5 | 14.8 | 4.1 | 8.1 |  | 4.3 | 2.4 |  |
| 1966 | 3.8 | 3.2 | 11.7 | 2.5 | 4.8 | 14.1 | 3.8 | 12.8 | 3.4 | 7.3 |  | 3.5 | 1.9 |  |
| 1967 | 3.8 | 3.1 | 12.3 | 2.3 | 5.2 | 13.5 | 4.2 | 12.9 | 3.4 | 7.4 |  | 3.6 | 1.8 | 4.9 |
| 1968 ..... | 3.6 | 2.9 | 11.6 | 2.2 | 4.8 | 14.0 | 3.8 | 12.7 | 3.2 | 6.7 |  | 3.4 | 1.6 | 4.4 |
| 1969 ....... | 3.5 | 2.8 | 11.4 | 2.1 | 4.7 | 13.3 | 3.7 | 12.2 | 3.1 | 6.4 |  | 3.3 | 1.5 | 4.4 |
| 1970 | 4.9 | 4.4 | 15.0 | 3.5 | 5.9 | 15.6 | 4.8 | 15.3 | 4.5 | 8.2 |  | 4.8 | 2.6 | 5.4 |
| 1971 | 5.9 | 5.3 | 16.6 | 4.4 | 6.9 | 17.2 | 5.7 | 16.9 | 5.4 | 9.9 |  | 5.7 | 3.2 | 7.3 |
| 1972 | 5.6 | 5.0 | 15.9 | 4.0 | 6.6 | 16.7 | 5.4 | 16.2 | 5.1 | 10.0 | 10.4 | 5.3 | 2.8 | 7.2 |
| 1973 | 4.9 | 4.2 | 13.9 | 3.3 | 6.0 | 15.3 | 4.9 | 14.5 | 4.3 | 9.0 | 9.4 | 4.5 | 2.3 | 7.1 |
| 1974 | 5.6 | 4.9 | 15.6 | 3.8 | 6.7 | 16.6 | 5.5 | 16.0 | 5.0 | 9.9 | 10.5 | 5.3 | 2.7 | 7.0 |
| 1975 .... | 8.5 | 7.9 | 20.1 | 6.8 | 9.3 | 19.7 | 8.0 | 19.9 | 7.8 | 13.8 | 14.8 | 8.2 | 5.1 | 10.0 |
| 1976 ... | 7.7 | 7.1 | 19.2 | 5.9 | 8.6 | 18.7 | 7.4 | 19.0 | 7.0 | 13.1 | 14.0 | 7.3 | 4.2 | 10.1 |
| 1977 | 7.1 | 6.3 | 17.3 | 5.2 | 8.2 | 18.3 | 7.0 | 17.8 | 6.2 | 13.1 | 14.0 | 6.6 | 3.6 | 9.4 |
| 1978 .... | 6.1 | 5.3 | 15.8 | 4.3 | 7.2 | 17.1 | 6.0 | 16.4 | 5.2 | 11.9 | 12.8 | 5.6 | 2.8 | 8.5 |
| 1979 ..... | 5.8 | 5.1 | 15.9 | 4.2 | 6.8 | 16.4 | 5.7 | 16.1 | 5.1 | 11.3 | 12.3 | 5.5 | 2.8 | 8.3 |
| 1980 | 7.1 | 6.9 | 18.3 | 5.9 | 7.4 | 17.2 | 6.4 | 17.8 | 6.3 | 13.1 | 14.3 | 6.9 | 4.2 | 9.2 |
| 1981 | 7.6 | 7.4 | 20.1 | 6.3 | 7.9 | 19.0 | 6.8 | 19.6 | 6.7 | 14.2 | 15.6 | 7.3 | 4.3 | 10.4 |
| 1982 .... | 9.7 | 9.9 | 24.4 | 8.8 | 9.4 | 21.9 | 8.3 | 23.2 | 8.6 | 17.3 | 18.9 | 9.3 | 6.5 | 11.7 |
| 1983 .... | 9.6 | 9.9 | 23.3 | 8.9 | 9.2 | 21.3 | 8.1 | 22.4 | 8.4 | 17.8 | 19.5 | 9.2 | 6.5 | 12.2 |
| 1984 .... | 7.5 | 7.4 | 19.6 | 6.6 | 7.6 | 18.0 | 6.8 | 18.9 | 6.5 | 14.4 | 15.9 | 7.1 | 4.6 | 10.3 |
| 1985 ... | 7.2 | 7.0 | 19.5 | 6.2 | 7.4 | 17.6 | 6.6 | 18.6 | 6.2 | 13.7 | 15.1 | 6.8 | 4.3 | 10.4 |
| 1986 .... | 7.0 | 6.9 | 19.0 | 6.1 | 7.1 | 17.6 | 6.2 | 18.3 | 6.0 | 13.1 | 14.5 | 6.6 | 4.4 | 9.8 |
| 1987 | 6.2 | 6.2 | 17.8 | 5.4 | 6.2 | 15.9 | 5.4 | 16.9 | 5.3 | 11.6 | 13.0 | 5.8 | 3.9 | 9.2 |
| 1988 | 5.5 | 5.5 | 16.0 | 4.8 | 5.6 | 14.4 | 4.9 | 15.3 | 4.7 | 10.4 | 11.7 | 5.2 | 3.3 | 8.1 |
| 1989 ....... | 5.3 | 5.2 | 15.9 | 4.5 | 5.4 | 14.0 | 4.7 | 15.0 | 4.5 | 10.0 | 11.4 | 5.0 | 3.0 | 8.1 |
| 1990 | 5.5 | 5.6 | 16.3 | 4.9 | 5.4 | 14.7 | 4.8 | 15.5 | 4.7 | 10.1 | 11.3 | 5.3 | 3.4 | 8.2 |
| 1991 .. | 6.7 | 7.0 | 19.8 | 6.3 | 6.3 | 17.4 | 5.7 | 18.6 | 6.0 | 11.1 | 12.4 | 6.5 | 4.4 | 9.1 |
| 1992 | 7.4 | 7.8 | 21.5 | 7.0 | 6.9 | 18.5 | 6.3 | 20.0 | 6.5 | 12.7 | 14.1 | 7.1 | 5.0 | 9.9 |
| 1993 | 6.8 | 7.1 | 20.4 | 6.4 | 6.5 | 17.4 | 5.9 | 19.0 | 6.0 | 11.7 | 12.9 | 6.5 | 4.4 | 9.5 |
| 1994 | 6.1 | 6.2 | 19.0 | 5.4 | 6.0 | 16.2 | 5.4 | 17.6 | 5.3 | 10.5 | 11.5 | 5.9 | 3.7 | 8.9 |
| 1995 .......... | 5.6 | 5.6 | 18.4 | 4.8 | 5.6 | 16.1 | 4.9 | 17.3 | 4.9 | 9.6 | 10.4 | 5.4 | 3.3 | 8.0 |
| 1994:Jan ........ | 6.7 | 6.9 | 20.7 | 6.1 | 6.5 | 16.0 | 5.9 | 18.5 | 5.8 | 11.4 | 13.0 | 6.6 | 4.2 | 9.3 |
| Feb ........ | 6.6 | 6.7 | 19.7 | 6.0 | 6.4 | 16.5 | 5.7 | 18.2 | 5.7 | 11.3 | 12.7 | 6.4 | 4.3 | 9.5 |
| Mar ....... | 6.5 | 6.6 | 19.6 | 5.8 | 6.5 | 16.3 | 5.9 | 18.0 | 5.6 | 11.3 | 12.4 | 6.4 | 4.1 | 9.4 |
| Apr ........ | 6.4 | 6.5 | 20.2 | 5.7 | 6.3 | 18.1 | 5.6 | 19.2 | 5.6 | 10.8 | 11.9 | 6.2 | 3.9 | 9.1 |
| May ....... | 6.1 | 6.2 | 19.9 | 5.4 | 6.1 | 16.2 | 5.4 | 18.1 | 5.3 | 10.6 | 11.7 | 5.9 | 3.7 | 8.9 |
| June ...... | 6.1 | 6.0 | 18.0 | 5.3 | 6.1 | 16.0 | 5.4 | 17.1 | 5.3 | 10.4 | 11.3 | 5.9 | 3.6 | 8.8 |
| July ....... | 6.1 | 6.3 | 19.4 | 5.5 | 5.9 | 15.9 | 5.3 | 17.7 | 5.3 | 10.3 | 11.2 | 6.0 | 3.6 | 7.9 |
| Aug ....... | 6.0 | 6.1 | 18.8 | 5.3 | 6.0 | 16.1 | 5.3 | 17.5 | 5.2 | 10.6 | 11.3 | 5.8 | 3.5 | 8.8 |
| Sept ...... | 5.8 | 5.8 | 18.5 | 5.1 | 5.8 | 15.9 | 5.2 | 17.2 | 5.1 | 10.2 | 10.7 | 5.7 | 3.4 | 8.9 |
| Oct ........ | 5.7 | 5.7 | 18.1 | 5.0 | 5.7 | 16.0 | 5.0 | 17.1 | 5.0 | 10.4 | 11.1 | 5.5 | 3.3 | 8.9 |
| Nov ........ | 5.6 | 5.5 | 16.5 | 4.9 | 5.6 | 15.0 | 5.0 | 15.8 | 4.8 | 9.8 | 10.5 | 5.4 | 3.2 | 8.7 |
| Dec ........ | 5.4 | 5.5 | 18.5 | 4.7 | 5.4 | 15.8 | 4.7 | 17.2 | 4.8 | 9.2 | 9.8 | 5.3 | 3.2 | 8.8 |
| 1995:Jan ........ | 5.7 | 5.7 | 17.4 | 5.0 | 5.6 | 15.9 | 4.9 | 16.7 | 4.9 | 9.5 | 10.2 | 5.4 | 3.4 | 8.9 |
| Feb ........ | 5.4 | 5.4 | 19.4 | 4.6 | 5.5 | 15.6 | 4.8 | 17.6 | 4.7 | 9.4 | 10.1 | 5.1 | 3.0 | 8.1 |
| Mar ....... | 5.5 | 5.4 | 17.0 | 4.7 | 5.5 | 15.2 | 4.9 | 16.1 | 4.7 | 9.2 | 9.8 | 5.2 | 3.2 | 7.6 |
| Apr ........ | 5.8 | 5.7 | 17.8 | 4.9 | 5.9 | 17.2 | 5.2 | 17.5 | 5.0 | 9.8 | 10.7 | 5.6 | 3.4 | 9.0 |
| May ....... | 5.7 | 5.8 | 18.4 | 5.1 | 5.5 | 16.7 | 4.8 | 17.6 | 5.0 | 9.1 | 9.9 | 5.6 | 3.4 | 8.0 |
| June ...... | 5.6 | 5.5 | 17.4 | 4.8 | 5.7 | 15.2 | 5.0 | 16.4 | 4.8 | 9.8 | 10.6 | 5.4 | 3.4 | 8.4 |
| July ....... | 5.7 | 5.5 | 18.7 | 4.7 | 5.9 | 17.6 | 5.1 | 18.2 | 4.8 | 10.1 | 11.1 | 5.5 | 3.4 | 8.5 |
| Aug ....... | 5.6 | 5.6 | 19.7 | 4.8 | 5.6 | 15.5 | 5.0 | 17.7 | 4.8 | 10.2 | 11.3 | 5.4 | 3.3 | 7.0 |
| Sept ...... | 5.6 | 5.6 | 18.3 | 4.9 | 5.6 | 16.8 | 4.9 | 17.5 | 4.8 | 10.2 | 11.3 | 5.5 | 3.5 | 8.0 |
| Oct ........ | 5.5 | 5.3 | 19.5 | 4.5 | 5.6 | 14.5 | 5.0 | 17.1 | 4.8 | 9.4 | 9.9 | 5.4 | 3.1 | 7.9 |
| Nov ....... | 5.6 | 5.7 | 19.0 | 4.9 | 5.5 | 16.8 | 4.8 | 17.9 | 5.0 | 8.9 | 9.4 | 5.4 | 3.3 | 7.7 |
| Dec ........ | 5.6 | 5.7 | 19.1 | 4.9 | 5.4 | 17.4 | 4.6 | 18.3 | 5.0 | 9.3 | 10.2 | 5.5 | 3.1 | 6.6 |

1 Unemployed as percent of civilian labor force in group specified.
${ }^{2}$ Data for 1949 and 1951-54 are for April; 1950, for March.
Note. - Data relate to persons 16 years of age and over.
See footnote 5 and Note, Table B-31.

Table B-39.-Civilian unemployment rate by demographic characteristic, 1954-95
[Percent; ${ }^{1}$ monthly data seasonally adjusted]

| Year or month | All <br> civilian workers | White |  |  |  |  |  |  | Black and other or black |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Males |  |  | Females |  |  | Total | Males |  |  | Females |  |  |
|  |  |  | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20 \\ & \text { years } \\ & \text { and } \\ & \text { over } \end{aligned}$ | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{gathered} 20 \\ \text { years } \\ \text { and } \\ \text { over } \end{gathered}$ |  | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | $\begin{aligned} & 20 \\ & \text { years } \\ & \text { and } \\ & \text { over } \end{aligned}$ | Total | $\begin{aligned} & 16-19 \\ & \text { years } \end{aligned}$ | 20 years and over |
|  |  |  |  |  |  |  |  |  | Black and other |  |  |  |  |  |  |
| 1954 | 5.5 | 5.0 | 4.8 | 13.4 | 4.4 | 5.5 | 10.4 | 5.1 | 9.9 | 10.3 | 14.4 | 9.9 | 9.2 | 20.6 | 8.4 |
| 1955 | 4.4 | 3.9 | 3.7 | 11.3 | 3.3 | 4.3 | 9.1 | 3.9 | 8.7 | 8.8 | 13.4 | 8.4 | 8.5 | 19.2 | 7.7 |
| 1956 | 4.1 | 3.6 | 3.4 | 10.5 | 3.0 | 4.2 | 9.7 | 3.7 | 8.3 | 7.9 | 15.0 | 7.4 | 8.9 | 22.8 | 7.8 |
| 1957 | 4.3 | 3.8 | 3.6 | 11.5 | 3.2 | 4.3 | 9.5 | 3.8 | 7.9 | 8.3 | 18.4 | 7.6 | 7.3 | 20.2 | 6.4 |
| 1958 | 6.8 | 6.1 | 6.1 | 15.7 | 5.5 | 6.2 | 12.7 | 5.6 | 12.6 | 13.7 | 26.8 | 12.7 | 10.8 | 28.4 | 9.5 |
| 1959 | 5.5 | 4.8 | 4.6 | 14.0 | 4.1 | 5.3 | 12.0 | 4.7 | 10.7 | 11.5 | 25.2 | 10.5 | 9.4 | 27.7 | 8.3 |
| 1960 | 5.5 | 5.0 | 4.8 | 14.0 | 4.2 | 5.3 | 12.7 | 4.6 | 10.2 | 10.7 | 24.0 | 9.6 | 9.4 | 24.8 | 8.3 |
| 1961 | 6.7 | 6.0 | 5.7 | 15.7 | 5.1 | 6.5 | 14.8 | 5.7 | 12.4 | 12.8 | 26.8 | 11.7 | 11.9 | 29.2 | 10.6 |
| 1962 | 5.5 | 4.9 | 4.6 | 13.7 | 4.0 | 5.5 | 12.8 | 4.7 | 10.9 | 10.9 | 22.0 | 10.0 | 11.0 | 30.2 | 9.6 |
| 1963 | 5.7 | 5.0 | 4.7 | 15.9 | 3.9 | 5.8 | 15.1 | 4.8 | 10.8 | 10.5 | 27.3 | 9.2 | 11.2 | 34.7 | 9.4 |
| 1964 | 5.2 | 4.6 | 4.1 | 14.7 | 3.4 | 5.5 | 14.9 | 4.6 | 9.6 | 8.9 | 24.3 | 7.7 | 10.7 | 31.6 | 9.0 |
| 1965 | 4.5 | 4.1 | 3.6 | 12.9 | 2.9 | 5.0 | 14.0 | 4.0 | 8.1 | 7.4 | 23.3 | 6.0 | 9.2 | 31.7 | 7.5 |
| 1966 | 3.8 | 3.4 | 2.8 | 10.5 | 2.2 | 4.3 | 12.1 | 3.3 | 7.3 | 6.3 | 21.3 | 4.9 | 8.7 | 31.3 | 6.6 |
| 1967 | 3.8 | 3.4 | 2.7 | 10.7 | 2.1 | 4.6 | 11.5 | 3.8 | 7.4 | 6.0 | 23.9 | 4.3 | 9.1 | 29.6 | 7.1 |
| 1968 | 3.6 | 3.2 | 2.6 | 10.1 | 2.0 | 4.3 | 12.1 | 3.4 | 6.7 | 5.6 | 22.1 | 3.9 | 8.3 | 28.7 | 6.3 |
| 1969 | 3.5 | 3.1 | 2.5 | 10.0 | 1.9 | 4.2 | 11.5 | 3.4 | 6.4 | 5.3 | 21.4 | 3.7 | 7.8 | 27.6 | 5.8 |
| 1970 | 4.9 | 4.5 | 4.0 | 13.7 | 3.2 | 5.4 | 13.4 | 4.4 | 8.2 | 7.3 | 25.0 | 5.6 | 9.3 | 34.5 | 6.9 |
| 1971 | 5.9 | 5.4 | 4.9 | 15.1 | 4.0 | 6.3 | 15.1 | 5.3 | 9.9 | 9.1 | 28.8 | 7.3 | 10.9 | 35.4 | 8.7 |
| 1972 | 5.6 | 5.1 | 4.5 | 14.2 | 3.6 | 5.9 | 14.2 | 4.9 | 10.0 | 8.9 | 29.7 | 6.9 | 11.4 | 38.4 | 8.8 |
|  |  |  |  |  |  |  |  |  | Black |  |  |  |  |  |  |
| 1972 | 5.6 | 5.1 | 4.5 | 14.2 | 3.6 | 5.9 | 14.2 | 4.9 | 10.4 | 9.3 | 31.7 | 7.0 | 11.8 | 40.5 | 9.0 |
| 1973 | 4.9 | 4.3 | 3.8 | 12.3 | 3.0 | 5.3 | 13.0 | 4.3 | 9.4 | 8.0 | 27.8 | 6.0 | 11.1 | 36.1 | 8.6 |
| 1974 | 5.6 | 5.0 | 4.4 | 13.5 | 3.5 | 6.1 | 14.5 | 5.1 | 10.5 | 9.8 | 33.1 | 7.4 | 11.3 | 37.4 | 8.8 |
| 1975 | 8.5 | 7.8 | 7.2 | 18.3 | 6.2 | 8.6 | 17.4 | 7.5 | 14.8 | 14.8 | 38.1 | 12.5 | 14.8 | 41.0 | 12.2 |
| 1976 | 7.7 | 7.0 | 6.4 | 17.3 | 5.4 | 7.9 | 16.4 | 6.8 | 14.0 | 13.7 | 37.5 | 11.4 | 14.3 | 41.6 | 11.7 |
| 1977 | 7.1 | 6.2 | 5.5 | 15.0 | 4.7 | 7.3 | 15.9 | 6.2 | 14.0 | 13.3 | 39.2 | 10.7 | 14.9 | 43.4 | 12.3 |
| 1978 | 6.1 | 5.2 | 4.6 | 13.5 | 3.7 | 6.2 | 14.4 | 5.2 | 12.8 | 11.8 | 36.7 | 9.3 | 13.8 | 40.8 | 11.2 |
| 1979 | 5.8 | 5.1 | 4.5 | 13.9 | 3.6 | 5.9 | 14.0 | 5.0 | 12.3 | 11.4 | 34.2 | 9.3 | 13.3 | 39.1 | 10.9 |
| 1980 | 7.1 | 6.3 | 6.1 | 16.2 | 5.3 | 6.5 | 14.8 | 5.6 | 14.3 | 14.5 | 37.5 | 12.4 | 14.0 | 39.8 | 11.9 |
| 1981 | 7.6 | 6.7 | 6.5 | 17.9 | 5.6 | 6.9 | 16.6 | 5.9 | 15.6 | 15.7 | 40.7 | 13.5 | 15.6 | 42.2 | 13.4 |
| 1982 | 9.7 | 8.6 | 8.8 | 21.7 | 7.8 | 8.3 | 19.0 | 7.3 | 18.9 | 20.1 | 48.9 | 17.8 | 17.6 | 47.1 | 15.4 |
| 1983 | 9.6 | 8.4 | 8.8 | 20.2 | 7.9 | 7.9 | 18.3 | 6.9 | 19.5 | 20.3 | 48.8 | 18.1 | 18.6 | 48.2 | 16.5 |
| 1984 | 7.5 | 6.5 | 6.4 | 16.8 | 5.7 | 6.5 | 15.2 | 5.8 | 15.9 | 16.4 | 42.7 | 14.3 | 15.4 | 42.6 | 13.5 |
| 1985 | 7.2 | 6.2 | 6.1 | 16.5 | 5.4 | 6.4 | 14.8 | 5.7 | 15.1 | 15.3 | 41.0 | 13.2 | 14.9 | 39.2 | 13.1 |
| 1986 | 7.0 | 6.0 | 6.0 | 16.3 | 5.3 | 6.1 | 14.9 | 5.4 | 14.5 | 14.8 | 39.3 | 12.9 | 14.2 | 39.2 | 12.4 |
| 1987 | 6.2 | 5.3 | 5.4 | 15.5 | 4.8 | 5.2 | 13.4 | 4.6 | 13.0 | 12.7 | 34.4 | 11.1 | 13.2 | 34.9 | 11.6 |
| 1988 | 5.5 | 4.7 | 4.7 | 13.9 | 4.1 | 4.7 | 12.3 | 4.1 | 11.7 | 11.7 | 32.7 | 10.1 | 11.7 | 32.0 | 10.4 |
| 1989 | 5.3 | 4.5 | 4.5 | 13.7 | 3.9 | 4.5 | 11.5 | 4.0 | 11.4 | 11.5 | 31.9 | 10.0 | 11.4 | 33.0 | 9.8 |
| 1990 | 5.5 | 4.7 | 4.8 | 14.2 | 4.3 | 4.6 | 12.6 | 4.1 | 11.3 | 11.8 | 32.1 | 10.4 | 10.8 | 30.0 | 9.6 |
| 1991 | 6.7 | 6.0 | 6.4 | 17.5 | 5.7 | 5.5 | 15.2 | 4.9 | 12.4 | 12.9 | 36.5 | 11.5 | 11.9 | 36.1 | 10.5 |
| 1992 | 7.4 | 6.5 | 6.9 | 18.4 | 6.3 | 6.0 | 15.7 | 5.4 | 14.1 | 15.2 | 42.0 | 13.4 | 13.0 | 37.2 | 11.7 |
| 1993 | 6.8 | 6.0 | 6.2 | 17.6 | 5.6 | 5.7 | 14.6 | 5.1 | 12.9 | 13.8 | 40.1 | 12.1 | 12.0 | 37.5 | 10.6 |
| 1994 | 6.1 | 5.3 | 5.4 | 16.3 | 4.8 | 5.2 | 13.8 | 4.6 | 11.5 | 12.0 | 37.6 | 10.3 | 11.0 | 32.6 | 9.8 |
| 1995 ...................... | 5.6 | 4.9 | 4.9 | 15.6 | 4.3 | 4.8 | 13.4 | 4.3 | 10.4 | 10.6 | 37.1 | 8.8 | 10.2 | 34.3 | 8.6 |
| 1994:Jan | 6.7 | 5.8 | 5.9 | 18.0 | 5.2 | 5.6 | 14.1 | 5.0 | 13.0 | 13.9 | 39.3 | 12.2 | 12.2 | 26.7 | 11.3 |
| Feb | 6.6 | 5.7 | 5.8 | 16.9 | 5.2 | 5.5 | 14.4 | 4.9 | 12.7 | 13.5 | 39.9 | 11.8 | 12.0 | 30.2 | 10.9 |
| Mar ................ | 6.5 | 5.6 | 5.7 | 16.8 | 5.1 | 5.5 | 14.2 | 4.9 | 12.4 | 12.2 | 38.6 | 10.4 | 12.7 | 30.3 | 11.7 |
| Apr ................. | 6.4 | 5.6 | 5.8 | 18.3 | 5.0 | 5.4 | 15.9 | 4.7 | 11.9 | 12.3 | 39.7 | 10.5 | 11.6 | 31.0 | 10.5 |
| May ................ | 6.1 | 5.3 | 5.4 | 17.0 | 4.7 | 5.2 | 13.7 | 4.6 | 11.7 | 12.2 | 40.9 | 10.3 | 11.3 | 35.0 | 10.0 |
| June ............... | 6.1 | 5.3 | 5.3 | 15.1 | 4.7 | 5.3 | 13.6 | 4.7 | 11.3 | 11.9 | 39.3 | 10.0 | 10.8 | 32.6 | 9.5 |
| July ................ | 6.1 | 5.3 | 5.4 | 16.1 | 4.8 | 5.2 | 13.1 | 4.7 | 11.2 | 12.4 | 41.4 | 10.4 | 10.1 | 32.7 | 8.8 |
| Aug ................. | 6.0 | 5.2 | 5.2 | 15.4 | 4.6 | 5.2 | 13.7 | 4.6 | 11.3 | 12.1 | 39.9 | 10.2 | 10.6 | 31.9 | 9.4 |
| Sept ............... | 5.8 | 5.1 | 5.1 | 16.2 | 4.4 | 5.1 | 13.3 | 4.6 | 10.7 | 11.0 | 30.8 | 9.8 | 10.4 | 33.4 | 9.0 |
| Oct ................. | 5.7 | 5.0 | 5.0 | 15.2 | 4.4 | 4.9 | 13.5 | 4.4 | 11.1 | 11.2 | 35.9 | 9.5 | 11.0 | 39.1 | 9.2 |
| Nov ................. | 5.6 | 4.8 | 4.8 | 14.3 | 4.3 | 4.8 | 12.6 | 4.3 | 10.5 | 10.6 | 32.0 | 9.2 | 10.3 | 34.1 | 8.9 |
| Dec ................ | 5.4 | 4.8 | 4.9 | 16.0 | 4.2 | 4.7 | 13.2 | 4.1 | 9.8 | 9.9 | 34.3 | 8.3 | 9.7 | 35.0 | 8.3 |
| 1995:Jan | 5.7 | 4.9 | 5.0 | 15.0 | 4.4 | 4.8 | 13.1 | 4.3 | 10.2 | 10.6 | 34.0 | 9.2 | 9.9 | 37.1 | 8.5 |
| Feb ................. | 5.4 | 4.7 | 4.7 | 16.1 | 4.0 | 4.6 | 13.1 | 4.1 | 10.1 | 9.9 | 38.7 | 7.9 | 10.3 | 32.4 | 9.0 |
| Mar ................ | 5.5 | 4.7 | 4.8 | 14.7 | 4.2 | 4.7 | 12.4 | 4.2 | 9.8 | 9.1 | 31.7 | 7.8 | 10.4 | 30.7 | 9.1 |
| Apr ................. | 5.8 | 5.0 | 5.0 | 15.3 | 4.4 | 5.1 | 13.8 | 4.5 | 10.7 | 10.5 | 35.4 | 8.9 | 10.9 | 35.8 | 9.3 |
| May ............... | 5.7 | 5.0 | 5.2 | 15.2 | 4.6 | 4.9 | 14.3 | 4.3 | 9.9 | 10.7 | 40.0 | 8.8 | 9.2 | 30.5 | 7.8 |
| June ............... | 5.6 | 4.8 | 4.9 | 14.5 | 4.3 | 4.8 | 11.6 | 4.4 | 10.6 | 10.9 | 38.7 | 9.0 | 10.4 | 36.8 | 8.7 |
| July ................ | 5.7 | 4.8 | 4.7 | 14.6 | 4.1 | 5.0 | 15.0 | 4.4 | 11.1 | 11.2 | 41.6 | 9.1 | 11.0 | 36.3 | 9.4 |
| Aug ................. | 5.6 | 4.8 | 4.9 | 15.7 | 4.2 | 4.8 | 12.1 | 4.3 | 11.3 | 11.9 | 46.3 | 9.4 | 10.8 | 38.9 | 9.0 |
| Sept ............... | 5.6 | 4.8 | 4.9 | 16.0 | 4.3 | 4.7 | 13.3 | 4.1 | 11.3 | 11.1 | 32.7 | 9.6 | 11.5 | 39.7 | 9.5 |
| Oct ................. | 5.5 | 4.8 | 4.8 | 17.6 | 4.0 | 4.9 | 12.0 | 4.4 | 9.9 | 9.5 | 33.6 | 7.9 | 10.2 | 32.6 | 8.8 |
| Nov ................. | 5.6 | 5.0 | 5.2 | 16.8 | 4.5 | 4.9 | 15.0 | 4.2 | 9.4 | 9.8 | 32.0 | 8.2 | 8.9 | 29.8 | 7.5 |
| Dec ................. | 5.6 | 5.0 | 5.0 | 16.0 | 4.3 | 4.9 | 15.4 | 4.3 | 10.2 | 11.9 | 40.6 | 9.9 | 8.7 | 30.4 | 7.2 |

[^36]Note.- See Note, Table B-38.

Table B-40.-U nemployment by duration and reason, 1950-95
[Thousands of persons, except as noted; monthly data seasonally adjusted ${ }^{1}$ ]

| Year or month | Unem-ployment | Duration of unemployment |  |  |  |  |  | Reason for unemployment |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Less |  |  | 27 | Average | Median | Job losers ${ }^{3}$ |  |  | $\begin{aligned} & \text { Job } \\ & \text { leav- } \\ & \text { ers } \end{aligned}$ | Reentrants | $\begin{aligned} & \text { New } \\ & \text { en- } \\ & \text { trants } \end{aligned}$ |
|  |  | than 5 weeks | $\begin{gathered} 5-14 \\ \text { weeks } \end{gathered}$ | $\begin{aligned} & 15-26 \\ & \text { weeks } \end{aligned}$ | weeks and over | $\begin{aligned} & \text { dura- } \\ & \text { tion } \\ & \text { (weeks) } \end{aligned}$ | $\begin{gathered} \text { dura- } \\ \text { tion } \\ \text { (weeks) } \end{gathered}$ | Total | On layoff | Other |  |  |  |
| 1950 | 3,288 | 1,450 | 1,055 | 425 | 357 | 12.1 |  | .......... | .......... | .......... |  |  |  |
| 1951 | 2,055 | 1,177 | 574 | 166 | 137 | 9.7 |  |  |  | .... |  |  |  |
| 1952 | 1,883 | 1,135 | 516 | 148 | 84 | 8.4 |  | .......... |  | .... |  | .......... |  |
| 1953 | 1,834 | 1,142 | 482 | 132 | 78 | 8.0 |  |  |  |  |  |  |  |
| 1954 | 3,532 | 1,605 | 1,116 | 495 | 317 | 11.8 |  |  | .... |  |  | ....... |  |
| 1955 | 2,852 | 1,335 | 815 | 366 | 336 | 13.0 | ..... | ....... | ...... | ..... | ...... | ...... |  |
| 1956 | 2,750 | 1,412 | 805 | 301 | 232 | 11.3 | ..... | ....... | ....... | ...... | ...... | ........ |  |
| 1957 | 2,859 | 1,408 | 891 | 321 | 239 | 10.5 |  | .......... | ...... | ..... | ...... | ...... |  |
| 1958 | 4,602 | 1,753 | 1,396 | 785 | 667 | 13.9 |  | .......... | .......... | .......... | .......... | ........... |  |
| 1959 | 3,740 | 1,585 | 1,114 | 469 | 571 | 14.4 |  |  |  |  |  | .......... |  |
| 1960 | 3,852 | 1,719 | 1,176 | 503 | 454 | 12.8 |  | .......... |  | .......... |  |  |  |
| 1961 | 4,714 | 1,806 | 1,376 | 728 | 804 | 15.6 |  | .......... | .......... | .... | ....... | .......... |  |
| 1962 | 3,911 | 1,663 | 1,134 | 534 | 585 | 14.7 |  | .... | ...... | ..... | .......... | ..... |  |
| 1963 | 4,070 | 1,751 | 1,231 | 535 | 553 | 14.0 | .... | ......... | ....... | ..... | .......... | ...... | .......... |
| 1964 | 3,786 | 1,697 | 1,117 | 491 | 482 | 13.3 |  | .......... | ....... | ..... | .......... | ..... | .......... |
| 1965 | 3,366 | 1,628 | 983 | 404 | 351 | 11.8 |  | .......... | ..... | .... | .......... | ... |  |
| 1966 | 2,875 | 1,573 | 779 | 287 | 239 | 10.4 |  |  |  |  |  |  |  |
| $1967{ }^{2}$ | 2,975 | 1,634 | 893 | 271 | 177 | 8.7 | 2.3 | 1,229 | 394 | 836 | 438 | 945 | 396 |
| 1968 | 2,817 | 1,594 | 810 | 256 | 156 | 8.4 | 4.5 | 1,070 | 334 | 736 | 431 | 909 | 407 |
| 1969 | 2,832 | 1,629 | 827 | 242 | 133 | 7.8 | 4.4 | 1,017 | 339 | 678 | 436 | 965 | 413 |
| 1970 | 4,093 | 2,139 | 1,290 | 428 | 235 | 8.6 | 4.9 | 1,811 | 675 | 1,137 | 550 | 1,228 | 504 |
| 1971 | 5,016 | 2,245 | 1,585 | 668 | 519 | 11.3 | 6.3 | 2,323 | 735 | 1,588 | 590 | 1,472 | 630 |
| 1972 | 4,882 | 2,242 | 1,472 | 601 | 566 | 12.0 | 6.2 | 2,108 | 582 | 1,526 | 641 | 1,456 | 677 |
| 1973 | 4,365 | 2,224 | 1,314 | 483 | 343 | 10.0 | 5.2 | 1,694 | 472 | 1,221 | 683 | 1,340 | 649 |
| 1974 | 5,156 | 2,604 | 1,597 | 574 | 381 | 9.8 | 5.2 | 2,242 | 746 | 1,495 | 768 | 1,463 | 681 |
| 1975 | 7,929 | 2,940 | 2,484 | 1,303 | 1,203 | 14.2 | 8.4 | 4,386 | 1,671 | 2,714 | 827 | 1,892 | 823 |
| 1976 | 7,406 | 2,844 | 2,196 | 1,018 | 1,348 | 15.8 | 8.2 | 3,679 | 1,050 | 2,628 | 903 | 1,928 | 895 |
| 1977 | 6,991 | 2,919 | 2,132 | 913 | 1,028 | 14.3 | 7.0 | 3,166 | 865 | 2,300 | 909 | 1,963 | 953 |
| 1978 | 6,202 | 2,865 | 1,923 | 766 | 648 | 11.9 | 5.9 | 2,585 | 712 | 1,873 | 874 | 1,857 | 885 |
| 1979 | 6,137 | 2,950 | 1,946 | 706 | 535 | 10.8 | 5.4 | 2,635 | 851 | 1,784 | 880 | 1,806 | 817 |
| 1980 | 7,637 | 3,295 | 2,470 | 1,052 | 820 | 11.9 | 6.5 | 3,947 | 1,488 | 2,459 | 891 | 1,927 | 872 |
| 1981 | 8,273 | 3,449 | 2,539 | 1,122 | 1,162 | 13.7 | 6.9 | 4,267 | 1,430 | 2,837 | 923 | 2,102 | 981 |
| 1982 | 10,678 | 3,883 | 3,311 | 1,708 | 1,776 | 15.6 | 8.7 | 6,268 | 2,127 | 4,141 | 840 | 2,384 | 1,185 |
| 1983 | 10,717 | 3,570 | 2,937 | 1,652 | 2,559 | 20.0 | 10.1 | 6,258 | 1,780 | 4,478 | 830 | 2,412 | 1,216 |
| 1984 | 8,539 | 3,350 | 2,451 | 1,104 | 1,634 | 18.2 | 7.9 | 4,421 | 1,171 | 3,250 | 823 | 2,184 | 1,110 |
| 1985 | 8,312 | 3,498 | 2,509 | 1,025 | 1,280 | 15.6 | 6.8 | 4,139 | 1,157 | 2,982 | 877 | 2,256 | 1,039 |
| 1986 | 8,237 | 3,448 | 2,557 | 1,045 | 1,187 | 15.0 | 6.9 | 4,033 | 1,090 | 2,943 | 1,015 | 2,160 | 1,029 |
| 1987 | 7,425 | 3,246 | 2,196 | 943 | 1,040 | 14.5 | 6.5 | 3,566 | 943 | 2,623 | 965 | 1,974 | 920 |
| 1988 | 6,701 | 3,084 | 2,007 | 801 | 809 | 13.5 | 5.9 | 3,092 | 851 | 2,241 | 983 | 1,809 | 816 |
| 1989 | 6,528 | 3,174 | 1,978 | 730 | 646 | 11.9 | 4.8 | 2,983 | 850 | 2,133 | 1,024 | 1,843 | 677 |
| 1990 | 6,874 | 3,169 | 2,201 | 809 | 695 | 12.1 | 5.4 | 3,322 | 1,018 | 2,305 | 1,014 | 1,883 | 654 |
| 1991 | 8,426 | 3,380 | 2,724 | 1,225 | 1,098 | 13.8 | 6.9 | 4,608 | 1,279 | 3,329 | 979 | 2,087 | 753 |
| 1992 | 9,384 | 3,270 | 2,760 | 1,424 | 1,930 | 17.9 | 8.8 | 5,291 | 1,246 | 4,045 | 975 | 2,228 | 890 |
| 1993 | 8,734 | 3,160 | 2,522 | 1,274 | 1,778 | 18.1 | 8.4 | 4,769 | 1,104 | 3,664 | 946 | 2,145 | 874 |
| 1994 | 7,996 | 2,728 | 2,408 | 1,237 | 1,623 | 18.8 | 9.2 | 3,815 | 977 | 2,838 | 791 | 2,786 | 604 |
| 1995 | 7,404 | 2,700 | 2,342 | 1,085 | 1,278 | 16.6 | 8.3 | 3,476 | 1,030 | 2,446 | 824 | 2,525 | 579 |
| 1994:Jan ................... | 8,740 | 3,319 | 2,351 | 1,308 | 1,738 | 18.4 | 8.5 | 4,395 | 1,149 | 3,246 | 817 | 2,824 | 644 |
| Feb .................... | 8,576 | 2,677 | 2,670 | 1,318 | 1,748 | 18.8 | 8.9 | 4,163 | 1,091 | 3,072 | 852 | 2,936 | 636 |
| Mar | 8,546 | 2,749 | 2,574 | 1,264 | 1,792 | 19.2 | 9.1 | 4,068 | 1,011 | 3,057 | 823 | 2,989 | 630 |
| Apr | 8,385 | 2,772 | 2,482 | 1,237 | 1,735 | 19.1 | 9.2 | 3,880 | 979 | 2,901 | 810 | 3,164 | 679 |
| May ................... | 7,996 | 2,651 | 2,461 | 1,160 | 1,693 | 19.4 | 9.2 | 3,640 | 811 | 2,829 | 796 | 2,863 | 611 |
| June .................. | 7,903 | 2,754 | 2,452 | 1,193 | 1,547 | 18.4 | 9.1 | 3,734 | 931 | 2,803 | 788 | 2,785 | 498 |
| July ................... | 7,993 | 2,768 | 2,365 | 1,234 | 1,589 | 19.0 | 9.2 | 3,863 | 1,031 | 2,832 | 770 | 2,766 | 594 |
| Aug ................... | 7,889 | 2,655 | 2,572 | 1,198 | 1,575 | 18.9 | 9.2 | 3,706 | 1,012 | 2,694 | 786 | 2,758 | 621 |
| Sept .................. | 7,647 | 2,675 | 2,294 | 1,213 | 1,555 | 18.8 | 9.5 | 3,574 | 824 | 2,750 | 874 | 2,620 | 600 |
| Oct ................... | 7,505 | 2,434 | 2,256 | 1,344 | 1,590 | 19.3 | 10.1 | 3,513 | 848 | 2,665 | 755 | 2,626 | 614 |
| Nov... | 7,315 | 2,599 | 2,163 | 1,187 | 1,474 | 18.2 | 9.1 | 3,495 | 881 | 2,614 | 710 | 2,575 | 578 |
| Dec ................... | 7,155 | 2,587 | 2,149 | 1,088 | 1,368 | 17.8 | 8.7 | 3,442 | 930 | 2,512 | 704 | 2,525 | 555 |
| 1995:Jan ................... | 7,498 | 2,937 | 2,122 | 1,033 | 1,353 | 16.7 | 7.9 | 3,658 | 1,061 | 2,598 | 694 | 2,488 | 597 |
| Feb .................... | 7,183 | 2,600 | 2,165 | 1,090 | 1,207 | 16.9 | 7.8 | 3,339 | 1,025 | 2,314 | 773 | 2,474 | 582 |
| Mar . | 7,237 | 2,523 | 2,319 | 920 | 1,347 | 17.5 | 7.9 | 3,352 | 1,032 | 2,320 | 811 | 2,430 | 604 |
| Apr ................... | 7,665 | 2,629 | 2,430 | 1,115 | 1,390 | 17.7 | 8.5 | 3,532 | 1,145 | 2,387 | 817 | 2,779 | 637 |
| May ................... | 7,492 | 2,598 | 2,304 | 1,282 | 1,303 | 16.9 | 9.0 | 3,614 | 958 | 2,657 | 870 | 2,458 | 522 |
| June .................. | 7,384 | 2,742 | 2,348 | 1,096 | 1,203 | 15.6 | 7.5 | 3,423 | 1,066 | 2,357 | 834 | 2,526 | 540 |
| July ................... | 7,559 | 2,600 | 2,621 | 1,023 | 1,297 | 16.5 | 9.1 | 3,615 | 1,184 | 2,431 | 832 | 2,593 | 571 |
| Aug ................... | 7,431 | 2,713 | 2,434 | 1,150 | 1,230 | 16.3 | 8.7 | 3,426 | 1,036 | 2,390 | 871 | 2,537 | 574 |
| Sept | 7,451 | 2,868 | 2,272 | 1,071 | 1,281 | 16.3 | 8.0 | 3,367 | 874 | 2,492 | 887 | 2,578 | 614 |
| Oct | 7,249 | 2,740 | 2,348 | 1,068 | 1,228 | 16.2 | 8.1 | 3,452 | 972 | 2,480 | 753 | 2,502 | 550 |
| Nov ................... | 7,432 | 2,812 | 2,376 | 1,048 | 1,249 | 16.5 | 7.9 | 3,516 | 1,062 | 2,455 | 856 | 2,509 | 573 |
| Dec ................... | 7,380 | 2,712 | 2,434 | 1,082 | 1,224 | 16.2 | 8.2 | 3,495 | 1,001 | 2,494 | 937 | 2,431 | 609 |

${ }^{1}$ Because of independent seasonal adjustment of the various series, detail will not add to totals.
${ }^{2}$ Data for 1967 by reason for unemployment are not equal to total unemployment.
${ }^{3}$ Beginning January 1994, job losers and persons who completed temporary jobs.
Note.- Data relate to persons 16 years of age and over.
See footnote 5 and Note, Table B-31.

Table B-41. - U nemployment insurance programs, selected data, 1963-95

| Year or month | All programs |  |  | State programs |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Covered employment ${ }^{1}$ | Insured unemployment (weekly average) ${ }^{23}$ | Total benefits paid (millions of dollars) ${ }^{24}$ | Insured unemployment | Initial claims | Exhaustions ${ }^{5}$ | Insured unemployment as percent of covered employment | Benefits paid |  |
|  |  |  |  |  |  |  |  | Total (millions of dollars) ${ }^{4}$ | Average weekly check (dollars) ${ }^{6}$ |
|  | Thousands |  | 3,026 | Weekly average; thousands |  |  |  | 2,775 | 35.27 |
| 1963 | 48,434 | 71,973 |  | 71,806 | ${ }^{7} 298$ | 30 |  |  |  |
| 1964 | 49,637 | 1,753 | 2,749 | 1,605 | 268 | 26 | 3.8 | 2,522 | 35.92 |
| 1965 | 51,580 | 1,450 | 2,360 | 1,328 | 232 | 21 | 3.0 | 2,166 | 37.19 |
| 1966 | 54,739 | 1,129 | 1,891 | 1,061 | 203 | 15 | 2.3 | 1,771 | 39.75 |
| 1967 | 56,342 | 1,270 | 2,222 | 1,205 | 226 | 17 | 2.5 | 2,092 | 41.25 |
| 1968 | 57,977 | 1,187 | 2,191 | 1,111 | 201 | 16 | 2.2 | 2,032 | 43.43 |
| 1969 | 59,999 | 1,177 | 2,299 | 1,101 | 200 | 16 | 2.1 | 2,128 | 46.17 |
| 1970 | 59,526 | 2,070 | 4,209 | 1,805 | 296 | 25 | 3.4 | 3,849 | 50.34 |
| 1971 | 59,375 | 2,608 | 6,154 | 2,150 | 295 | 39 | 4.1 | 4,957 | 54.02 |
| 1972 | 66,458 | 2,192 | 5,491 | 1,848 | 261 | 35 | 3.5 | 4,471 | 56.76 |
| 1973 | 69,897 | 1,793 | 4,517 | 1,632 | 247 | 29 | 2.7 | 4,008 | 59.00 |
| 1974 | 72,451 | 2,558 | 6,934 | 2,262 | 363 | 37 | 3.5 | 5,975 | 64.25 |
| 1975 | 71,037 | 4,937 | 16,802 | 3,986 | 478 | 81 | 6.0 | 11,755 | 70.23 |
| 1976 | 73,459 | 3,846 | 12,345 | 2,991 | 386 | 63 | 4.6 | 8,975 | 75.16 |
| 1977 | 76,419 | 3,308 | 10,999 | 2,655 | 375 | 55 | 3.9 | 8,357 | 78.79 |
| 1978 | 88,804 | 2,645 | 9,007 | 2,359 | 346 | 39 | 3.3 | 7,717 | 83.67 |
| 1979 | 92,062 | 2,592 | 9,401 | 2,434 | 388 | 39 | 2.9 | 8,613 | 89.67 |
| 1980 | 92,659 | 3,837 | 16,175 | 3,350 | 488 | 59 | 3.9 | 13,761 | 98.95 |
| 1981 | 93,300 | 3,410 | 15,287 | 3,047 | 460 | 57 | 3.5 | 13,262 | 106.70 |
| 1982 | 91,628 | 4,592 | 24,491 | 4,059 | 583 | 80 | 4.6 | 20,649 | 119.34 |
| 1983 | 91,898 | 3,774 | 21,000 | 3,395 | 438 | 80 | 3.9 | 17,787 | 123.59 |
| 1984 | 96,474 | 2,560 | 13,838 | 2,475 | 377 | 50 | 2.8 | 12,610 | 123.47 |
| 1985 | 99,186 | 2,699 | 15,283 | 2,617 | 397 | 49 | 2.9 | 14,131 | 128.14 |
| 1986 | 101,099 | 2,739 | 16,670 | 2,643 | 378 | 52 | 2.8 | 15,329 | 135.65 |
| 1987 | 103,936 | 2,369 | 14,929 | 2,300 | 328 | 46 | 2.4 | 13,607 | 140.55 |
| 1988 | 107,157 | 2,135 | 13,694 | 2,081 | 310 | 38 | 2.0 | 12,565 | 144.97 |
| 1989 | 109,925 | 2,205 | 14,948 | 2,158 | 330 | 37 | 2.1 | 13,760 | 151.73 |
| 1990 | 111,498 | 2,575 | 18,721 | 2,522 | 388 | 45 | 2.4 | 17,356 | 161.56 |
| 1991 | 109,613 | 3,406 | 26,717 | 3,342 | 447 | 67 | 3.2 | 24,526 | 169.88 |
| 1992 | 110,167 | 3,348 | ${ }^{9}$ 26,460 | 3,245 | 408 | 74 | 3.1 | 23,869 | 173.64 |
| 1993 | 112,147 | 2,845 | ${ }^{9} 22,950$ | 2,751 | 341 | 62 | 2.6 | 20,539 | 179.62 |
| 1994 | ${ }^{8} 115,255$ | 2,746 | 22,844 | 2,670 | 340 | 57 | 2.5 | 20,401 | 182.16 |
| 1995 p .......................... |  | 2,641 | 21,909 | 2,575 | ${ }_{* *}^{356}$ | 51 | 2.3 | 19,700 | 187.30 |
| 1994: Jan ........................ | ................ | 3,521 | 2,281.1 | 2,737 | 368 | 64 | 2.6 | 2,170.7 | 181.46 |
| Feb ......................... |  | 3,517 | 2,292.7 | 2,794 | 351 | 60 | 2.6 | 2,195.4 | 183.95 |
| Mar ...................... |  | 3,406 | 2,547.5 | 2,739 | 340 | 61 | 2.6 | 2,458.9 | 183.72 |
| Apr ....................... |  | 2,880 | 1,961.8 | 2,713 | 349 | 64 | 2.5 | 1,891.6 | 183.68 |
| May ...................... |  | 2,631 | 1,811.5 | 2,743 | 365 | 60 | 2.6 | 1,743.9 | 182.45 |
| June ...................... |  | 2,638 | 1,856.1 | 2,745 | 350 | 59 | 2.6 | 1,770.7 | 181.44 |
| July ........................ | ................ | 2,581 | 1,691.0 | 2,717 | 348 | 60 | 2.5 | 1,610.8 | 179.80 |
| Aug ....................... |  | 2,579 | 1,849.0 | 2,667 | 328 | 57 | 2.5 | 1,757.1 | 178.61 |
| Sept ...................... |  | 2,185 | 1,522.6 | 2,614 | 323 | 49 | 2.4 | 1,459.8 | 181.76 |
| Oct ....................... |  | 2,205 | 1,427.2 | 2,569 | 328 | 51 | 2.4 | 1,366.0 | 182.40 |
| Nov ....................... | ................ | 2,344 | 1,585.3 | 2,531 | 329 | 51 | 2.3 | 1,517.6 | 181.70 |
| Dec ....................... |  | 2,515 | 1,768.3 | 2,533 | 326 | 50 | 2.3 | 1,700.8 | 183.91 |
| 1995: Jan ........................ | ................ | 3,283 | 2,220.9 | 2,515 | 335 | 57 | 2.3 | 2,146.9 | 186.19 |
| Feb ........................ | ................ | 3,182 | 2,098.0 | 2,518 | 338 | 52 | 2.3 | 2,030.4 | 189.50 |
| Mar ....................... |  | 2,957 | 2,317.2 | 2,498 | 342 | 52 | 2.3 | 2,244.1 | 189.92 |
| Apr ....................... |  | 2,728 | 1,788.4 | 2,488 | 352 | 57 | 2.3 | 1,730.0 | 188.46 |
| May ...................... |  | 2,481 | 1,815.7 | 2,552 | 374 | 52 | 2.3 | 1,753.0 | 187.64 |
| June ..................... | .............. | 2,402 | 1,718.3 | 2,633 | 377 | 49 | 2.4 | 1,660.4 | 186.74 |
| July ........................ | ................ | 2,638 | 1,723.0 | 2,685 | 375 | 54 | 2.4 | 1,668.0 | 184.92 |
| Aug ........................ | ................ | 2,465 | 1,807.5 | 2,626 | 342 | 50 | 2.4 | 1,745.9 | 183.31 |
| Sept ....................... | ................ | 2,201 | 1,483.5 | 2,613 | 351 | 45 | 2.4 | 1,430.5 | 186.58 |
| Oct ......................... | ................ | 2,297 | 1,567.1 | 2,658 | 362 | 48 | 2.4 | 1,508.1 | 187.48 |
| Nov ....................... |  | 2,427 | 1,670.6 | 2,634 | 374 | 48 | 2.4 | 1,604.3 | 187.07 |
| $\operatorname{Dec}^{P}$...................... |  | 2,674 | 1,822.0 | 2,665 | 365 | 50 | 2.4 | 1,756.8 | 188.95 |

[^37]${ }^{1}$ Includes persons under the State, UCFE (Federal employee, effective January 1955), RRB (Railroad Retirement Board) programs, and UCX (unemployment compensation for ex-servicemembers, effective October 1958) programs.
${ }^{2}$ Includes State, UCFE, RR, UCX, UCV (unemployment compensation for veterans, October 1952-January 1960), and SRA (Servicemen's Readjustment Act, September 1944-September 1951) programs. Also includes Federal and State extended benefit programs. Does not include FSB (Federal supplemental benefits), SUA (special unemployment assistance), Federal Supplemental Compensation, and Emergency Unemployment Compensation programs, except as noted in footnote 9.
${ }^{3}$ Covered workers who have completed at least 1 week of unemployment.
${ }^{4}$ Annual data are net amounts and monthly data are gross amounts.
${ }^{5}$ Individuals receiving final payments in benefit year.
${ }^{6}$ For total unemployment only.
${ }^{7}$ Programs include Puerto Rican sugarcane workers for initial claims and insured unemployment beginning July 1963.
${ }^{8}$ Latest data available for all programs combined. Workers covered by State programs account for about 97 percent of wage and salary earners.
${ }^{9}$ Including Emergency Unemployment Compensation and Federal Supplemental Compensation, total benefits paid for 1992 and 1993 would be approximately (in millions of dollars): for 1992, 39,990 and for 1993, 34,876.

Source: Department of Labor, Employment and Training Administration.

Table B-42.-Employees on nonagricultural payrolls, by major industry, 1946-95
[Thousands of persons; monthly data seasonally adjusted]

| Year or month | Total | Goods-producing industries |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Mining | Construction | Manufacturing |  |  |
|  |  |  |  |  | Total | $\begin{aligned} & \text { Durable } \\ & \text { goods } \end{aligned}$ | Nondurable goods |
| 1946 | 41,652 | 17,248 | 862 | 1,683 | 14,703 | 7,785 | 6,918 |
| 1947 .... | 43,857 | 18,509 | 955 | 2,009 | 15,545 | 8,358 | 7,187 |
| 1948. | 44,866 | 18,774 | 994 | 2,198 | 15,582 | 8,298 | 7,285 |
| 1949 ................................................... | 43,754 | 17,565 | 930 | 2,194 | 14,441 | 7,462 | 6,979 |
| 1950. | 45,197 | 18,506 | 901 | 2,364 | 15,241 | 8,066 | 7,175 |
| 1951. | 47,819 | 19,959 | 929 | 2,637 | 16,393 | 9,059 | 7,334 |
| 1952 .... | 48,793 | 20,198 | 898 | 2,668 | 16,632 | 9,320 | 7,313 |
| 1953 ... | 50,202 | 21,074 | 866 | 2,659 | 17,549 | 10,080 | 7,468 |
|  | 48,990 | 19,751 | 791 | 2,646 | 16,314 | 9,101 | 7,213 |
|  | 50,641 | 20,513 | 792 | 2,839 | 16,882 | 9,511 | 7,370 |
| 1956. | 52,369 | 21,104 | 822 | 3,039 | 17,243 | 9,802 | 7,442 |
| 1957 ... | 52,855 | 20,967 | 828 | 2,962 | 17,176 | 9,825 | 7,351 |
| 1958. | 51,322 | 19,513 | 751 | 2,817 | 15,945 | 8,801 | 7,144 |
| 1959 ............................................. | 53,270 | 20,411 | 732 | 3,004 | 16,675 | 9,342 | 7,333 |
| 1960. | 54,189 | 20,434 | 712 | 2,926 | 16,796 | 9,429 | 7,367 |
| 1961 ........................................................ | 53,999 | 19,857 | 672 | 2,859 | 16,326 | 9,041 | 7,285 |
| 1962 ................................................... | 55,549 | 20,451 | 650 | 2,948 | 16,853 | 9,450 | 7,403 |
| 1963 ..................................................... | 56,653 | 20,640 | 635 | 3,010 | 16,995 | 9,586 | 7,410 |
| 1964 .... | 58,283 | 21,005 | 634 | 3,097 | 17,274 | 9,785 | 7,489 |
| 1965 ................................................... | 60,763 | 21,926 | 632 | 3,232 | 18,062 | 10,374 | 7,688 |
| 1966. | 63,901 | 23,158 | 627 | 3,317 | 19,214 | 11,250 | 7,963 |
| 1967 | 65,803 | 23,308 | 613 | 3,248 | 19,447 | 11,408 | 8,039 |
| 1968 ....................................................... | 67,897 | 23,737 | 606 | 3,350 | 19,781 | 11,594 | 8,187 |
| 1969 .................................................... | 70,384 | 24,361 | 619 | 3,575 | 20,167 | 11,862 | 8,304 |
| 1970. | 70,880 | 23,578 | 623 | 3,588 | 19,367 | 11,176 | 8,190 |
| 1971 ....................................................... | 71,211 | 22,935 | 609 | 3,704 | 18,623 | 10,604 | 8,019 |
| 1972 ... | 73,675 | 23,668 | 628 | 3,889 | 19,151 | 11,022 | 8,129 |
| 1973 .................................................... | 76,790 | 24,893 | 642 | 4,097 | 20,154 | 11,863 | 8,291 |
| 1974. | 78,265 | 24,794 | 697 | 4,020 | 20,077 | 11,897 | 8,181 |
| 1975. | 76,945 | 22,600 | 752 | 3,525 | 18,323 | 10,662 | 7,661 |
| 1976 .................................................... | 79,382 | 23,352 | 779 | 3,576 | 18,997 | 11,051 | 7,946 |
| 1977 .... | 82,471 | 24,346 | 813 | 3,851 | 19,682 | 11,570 | 8,112 |
| 1978 | 86,697 | 25,585 | 851 | 4,229 | 20,505 | 12,245 | 8,259 |
| 1979 ..................................................... | 89,823 | 26,461 | 958 | 4,463 | 21,040 | 12,730 | 8,310 |
| 1980 | 90,406 | 25,658 | 1,027 | 4,346 | 20,285 | 12,159 | 8,127 |
| 1981 | 91,152 | 25,497 | 1,139 | 4,188 | 20,170 | 12,082 | 8,089 |
| 1982 ... | 89,544 | 23,812 | 1,128 | 3,904 | 18,780 | 11,014 | 7,766 |
| 1983 ... | 90,152 | 23,330 | 952 | 3,946 | 18,432 | 10,707 | 7,725 |
| 1984 ..................................................... | 94,408 | 24,718 | 966 | 4,380 | 19,372 | 11,476 | 7,896 |
| 1985 ............................................................ | 97,387 | 24,842 | 927 | 4,668 | 19,248 | 11,458 | 7,790 |
| 1986 | 99,344 | 24,533 | 777 | 4,810 | 18,947 | 11,195 | 7,752 |
| 1987. | 101,958 | 24,674 | 717 | 4,958 | 18,999 | 11,154 | 7,845 |
| 1988 ... | 105,210 | 25,125 | 713 | 5,098 | 19,314 | 11,363 | 7,951 |
| 1989 .................................................... | 107,895 | 25,254 | 692 | 5,171 | 19,391 | 11,394 | 7,997 |
| 1990 ..... | 109,419 | 24,905 | 709 | 5,120 | 19,076 | 11,109 | 7,968 |
| 1991 ..... | 108,256 | 23,745 | 689 | 4,650 | 18,406 | 10,569 | 7,837 |
| 1992 | 108,604 | 23,231 | 635 | 4,492 | 18,104 | 10,277 | 7,827 |
| 1993. | 110,730 | 23,352 | 610 | 4,668 | 18,075 | 10,221 | 7,854 |
|  | 114,034 | 23,913 | 600 | 5,010 | 18,303 | 10,431 | 7,872 |
| 1995 P ........ | 116,609 | 24,228 | 579 | 5,246 | 18,404 | 10,595 | 7,809 |
| 1994:Jan .................................................. | 112,301 | 23,583 | 612 | 4,820 | 18,151 | 10,307 | 7,844 |
| Feb | 112,576 | 23,631 | 609 | 4,846 | 18,176 | 10,321 | 7,855 |
| Mar | 113,087 | 23,725 | 606 | 4,904 | 18,215 | 10,351 | 7,864 |
| Apr ...................................................... | 113,363 | 23,816 | 603 | 4,969 | 18,244 | 10,377 | 7,867 |
| May | 113,638 | 23,837 | 599 | 4,981 | 18,257 | 10,388 | 7,869 |
| June .......................................... | 113,943 | 23,905 | 602 | 5,006 | 18,297 | 10,426 | 7,871 |
| July ............................................ | 114,171 | 23,922 | 596 | 5,029 | 18,297 | 10,422 | 7,875 |
| Aug .................................................... | 114,510 | 23,981 | 597 598 | 5,038 | 18,346 | 10,465 | 7,881 |
| Sept ... | 114,762 | 24,030 | 598 | 5,077 | 18,355 | 10,481 | 7,874 |
| Oct | 114,935 | 24,081 | 595 | 5,088 | 18,398 | 10,513 | 7,885 |
| Nov | 115,427 | 24,175 | 592 | 5,144 | 18,439 | 10,550 | 7,889 |
| Dec ............................................... | 115,624 | 24,230 | 592 | 5,166 | 18,472 | 10,574 | 7,898 |
| 1995:Jan .... | 115,810 | 24,293 | 590 | 5,201 | 18,502 | 10,596 | 7,906 |
| Feb ................................................... | 116,123 | 24,324 | 588 | 5,213 | 18,523 | 10,622 | 7,901 |
| Mar ................................................. | 116,302 | 24,370 | 589 | 5,256 | 18,525 | 10,633 | 7,892 |
| Apr ................................................. | 116,310 | 24,331 | 583 | 5,242 | 18,506 | 10,632 | 7,874 |
| May | 116,248 | 24,228 | 582 | 5,190 | 18,456 | 10,611 | 7,845 |
| June ................................................. | 116,547 | 24,240 | 582 | 5,230 | 18,428 | 10,597 | 7,831 |
| July ................................................... | 116,575 | 24,156 | 577 | 5,226 |  | 10,569 | 7,784 |
| Aug ................................................... | 116,838 | 24,165 | 575 | 5,233 | 18,357 | 10,587 | 7,770 |
| Sept ............................................ | 116,932 | 24,157 | 573 | 5,262 | 18,322 | 10,572 | 7,750 |
| Oct | 117,000 | 24,159 | 571 | 5,287 | 18,301 | 10,565 | 7,736 |
|  | 117,212 | 24,134 | 567 | 5,295 | 18,272 | 10,553 | 7,719 |
| Dec $p$.......................................... | 117,373 | 24,184 | 566 | 5,302 | 18,316 | 10,613 | 7,703 |

Note- - Data in Tables B-42 and B-43 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 which includes the 12 th of the month. Not

TABLE B-42.-Employes on nonagricultural payrolls, by major industry, 1946-95-Continued
[Thousands of persons; monthly data seasonally adjusted]

| Year or month | Service-producing industries |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Transportation and public utilities | Wholesale trade | Retail trade | Finance, insurance, and real estate | Services | Government |  |  |
|  |  |  |  |  |  |  | Total | Federal | State and local |
| 1946 | 24,404 | 4,061 | 2,298 | 6,077 | 1,675 | 4,697 | 5,595 | 2,254 | 3,341 |
| 1947 | 25,348 | 4,166 | 2,478 | 6,477 | 1,728 | 5,025 | 5,474 | 1,892 | 3,582 |
| 1948 ... | 26,092 | 4,189 | 2,612 | 6,659 | 1,800 | 5,181 | 5,650 | 1,863 | 3,787 |
| 1949 ................. | 26,189 | 4,001 | 2,610 | 6,654 | 1,828 | 5,239 | 5,856 | 1,908 | 3,948 |
| 1950 | 26,691 | 4,034 | 2,643 | 6,743 | 1,888 | 5,356 | 6,026 | 1,928 | 4,098 |
| 1951 | 27,860 | 4,226 | 2,735 | 7,007 | 1,956 | 5,547 | 6,389 | 2,302 | 4,087 |
| 1952 .. | 28,595 | 4,248 | 2,821 | 7,184 | 2,035 | 5,699 | 6,609 | 2,420 | 4,188 |
| 1953 | 29,128 | 4,290 | 2,862 | 7,385 | 2,111 | 5,835 | 6,645 | 2,305 | 4,340 |
| 1954 | 29,239 | 4,084 | 2,875 | 7,360 | 2,200 | 5,969 | 6,751 | 2,188 | 4,563 |
| 1955 | 30,128 | 4,141 | 2,934 | 7,601 | 2,298 | 6,240 | 6,914 | 2,187 | 4,727 |
| 1956 | 31,264 | 4,244 | 3,027 | 7,831 | 2,389 | 6,497 | 7,278 | 2,209 | 5,069 |
| 1957 | 31,889 | 4,241 | 3,037 | 7,848 | 2,438 | 6,708 | 7,616 | 2,217 | 5,399 |
| 1958 | 31,811 | 3,976 | 2,989 | 7,761 | 2,481 | 6,765 | 7,839 | 2,191 | 5,648 |
| 1959 .................. | 32,857 | 4,011 | 3,092 | 8,035 | 2,549 | 7,087 | 8,083 | 2,233 | 5,850 |
| 1960 | 33,755 | 4,004 | 3,153 | 8,238 | 2,628 | 7,378 | 8,353 | 2,270 | 6,083 |
| 1961 | 34,142 | 3,903 | 3,142 | 8,195 | 2,688 | 7,619 | 8,594 | 2,279 | 6,315 |
| 1962 | 35,098 | 3,906 | 3,207 | 8,359 | 2,754 | 7,982 | 8,890 | 2,340 | 6,550 |
| 1963 | 36,013 | 3,903 | 3,258 | 8,520 | 2,830 | 8,277 | 9,225 | 2,358 | 6,868 |
| 1964 | 37,278 | 3,951 | 3,347 | 8,812 | 2,911 | 8,660 | 9,596 | 2,348 | 7,248 |
| 1965 | 38,839 | 4,036 | 3,477 | 9,239 | 2,977 | 9,036 | 10,074 | 2,378 | 7,696 |
| 1966 | 40,743 | 4,158 | 3,608 | 9,637 | 3,058 | 9,498 | 10,784 | 2,564 | 8,220 |
| 1967 | 42,495 | 4,268 | 3,700 | 9,906 | 3,185 | 10,045 | 11,391 | 2,719 | 8,672 |
| 1968 | 44,158 | 4,318 | 3,791 | 10,308 | 3,337 | 10,567 | 11,839 | 2,737 | 9,102 |
| 1969 ................... | 46,023 | 4,442 | 3,919 | 10,785 | 3,512 | 11,169 | 12,195 | 2,758 | 9,437 |
| 1970 | 47,302 | 4,515 | 4,006 | 11,034 | 3,645 | 11,548 | 12,554 | 2,731 | 9,823 |
| 1971 ... | 48,276 | 4,476 | 4,014 | 11,338 | 3,772 | 11,797 | 12,881 | 2,696 | 10,185 |
| 1972. | 50,007 | 4,541 | 4,127 | 11,822 | 3,908 | 12,276 | 13,334 | 2,684 | 10,649 |
| 1973 ... | 51,897 | 4,656 | 4,291 | 12,315 | 4,046 | 12,857 | 13,732 | 2,663 | 11,068 |
| 1974 ... | 53,471 | 4,725 | 4,447 | 12,539 | 4,148 | 13,441 | 14,170 | 2,724 | 11,446 |
| 1975 ... | 54,345 | 4,542 | 4,430 | 12,630 | 4,165 | 13,892 | 14,686 | 2,748 | 11,937 |
| 1976 ... | 56,030 | 4,582 | 4,562 | 13,193 | 4,271 | 14,551 | 14,871 | 2,733 | 12,138 |
| 1977 ... | 58,125 | 4,713 | 4,723 | 13,792 | 4,467 | 15,302 | 15,127 | 2,727 | 12,399 |
| 1978 ... | 61,113 | 4,923 | 4,985 | 14,556 | 4,724 | 16,252 | 15,672 | 2,753 | 12,919 |
| 1979 | 63,363 | 5,136 | 5,221 | 14,972 | 4,975 | 17,112 | 15,947 | 2,773 | 13,174 |
| 1980 | 64,748 | 5,146 | 5,292 | 15,018 | 5,160 | 17,890 | 16,241 | 2,866 | 13,375 |
| 1981 | 65,655 | 5,165 | 5,375 | 15,171 | 5,298 | 18,615 | 16,031 | 2,772 | 13,259 |
| 1982 | 65,732 | 5,081 | 5,295 | 15,158 | 5,340 | 19,021 | 15,837 | 2,739 | 13,098 |
| 1983 | 66,821 | 4,952 | 5,283 | 15,587 | 5,466 | 19,664 | 15,869 | 2,774 | 13,096 |
| 1984 | 69,690 | 5,156 | 5,568 | 16,512 | 5,684 | 20,746 | 16,024 | 2,807 | 13,216 |
| 1985 | 72,544 | 5,233 | 5,727 | 17,315 | 5,948 | 21,927 | 16,394 | 2,875 | 13,519 |
| 1986 | 74,811 | 5,247 | 5,761 | 17,880 | 6,273 | 22,957 | 16,693 | 2,899 | 13,794 |
| 1987 | 77,284 | 5,362 | 5,848 | 18,422 | 6,533 | 24,110 | 17,010 | 2,943 | 14,067 |
| 1988 | 80,086 | 5,514 | 6,030 | 19,023 | 6,630 | 25,504 | 17,386 | 2,971 | 14,415 |
| 1989 | 82,642 | 5,625 | 6,187 | 19,475 | 6,668 | 26,907 | 17,779 | 2,988 | 14,791 |
| 1990 | 84,514 | 5,793 | 6,173 | 19,601 | 6,709 | 27,934 | 18,304 | 3,085 | 15,219 |
| 1991. | 84,511 | 5,762 | 6,081 | 19,284 | 6,646 | 28,336 | 18,402 | 2,966 | 15,436 |
| 1992. | 85,373 | 5,721 | 5,997 | 19,356 | 6,602 | 29,052 | 18,645 | 2,969 | 15,676 |
| 1993. | 87,378 | 5,829 | 5,981 | 19,773 | 6,757 | 30,197 | 18,841 | 2,915 | 15,926 |
| 1994 | 90,121 | 6,006 | 6,140 | 20,437 | 6,933 | 31,488 | 19,118 | 2,870 | 16,247 |
| 1995 p | 92,381 | 6,194 | 6,323 | 20,840 | 6,949 | 32,796 | 19,279 | 2,821 | 16,457 |
| 1994: Jan ............. | 88,718 | 5,904 | 6,053 | 20,086 | 6,895 | 30,798 | 18,982 | 2,896 | 16,086 |
| Feb .............. | 88,945 | 5,929 | 6,069 | 20,170 | 6,912 | 30,880 | 18,985 | 2,892 | 16,093 |
| Mar ............. | 89,362 | 5,952 | 6,090 | 20,305 | 6,929 | 31,057 | 19,029 | 2,884 | 16,145 |
| Apr ............. | 89,547 | 5,903 | 6,106 | 20,339 | 6,937 | 31,207 | 19,055 | 2,881 | 16,174 |
| May ............. | 89,801 | 5,994 | 6,118 | 20,356 | 6,935 | 31,305 | 19,093 | 2,873 | 16,220 |
| June ............ | 90,038 | 6,008 | 6,131 | 20,408 | 6,946 | 31,442 | 19,103 | 2,866 | 16,237 |
| July ............. | 90,249 | 6,022 | 6,138 | 20,459 | 6,947 | 31,573 | 19,110 | 2,864 | 16,246 |
| Aug ............. | 90,529 | 6,045 | 6,163 | 20,497 | 6,948 | 31,693 | 19,183 | 2,861 | 16,322 |
| Sept ............ | 90,732 | 6,048 | 6,181 | 20,565 | 6,942 | 31,789 | 19,207 | 2,863 | 16,344 |
| Oct ............. | 90,854 | 6,061 | 6,195 | 20,580 | 6,935 | 31,888 | 19,195 | 2,858 | 16,337 |
| Nov ............ | 91,252 | 6,092 | 6,210 | 20,703 | 6,937 | 32,035 | 19,275 | 2,854 | 16,421 |
| Dec ............. | 91,394 | 6,121 | 6,229 | 20,759 | 6,931 | 32,135 | 19,219 | 2,853 | 16,366 |
| 1995:Jan ............. | 91,517 | 6,129 | 6,251 | 20,760 | 6,927 | 32,228 | 19,222 | 2,838 | 16,384 |
| Feb .............. | 91,799 | 6,156 | 6,275 | 20,794 | 6,929 | 32,404 | 19,241 | 2,831 | 16,410 |
| Mar ............. | 91,932 | 6,175 | 6,287 | 20,760 | 6,938 | 32,524 | 19,248 | 2,828 | 16,420 |
| Apr .............. | 91,979 | 6,184 | 6,300 | 20,762 | 6,924 | 32,548 | 19,261 | 2,826 | 16,435 |
| May ............ | 92,020 | 6,177 | 6,298 | 20,747 | 6,925 | 32,630 | 19,243 | 2,831 | 16,412 |
| June ............ | 92,307 | 6,192 | 6,320 | 20,798 | 6,930 | 32,784 | 19,283 | 2,838 | 16,445 |
| July ............ | 92,419 | 6,195 | 6,333 | 20,851 | 6,938 | 32,820 | 19,282 | 2,834 | 16,448 |
| Aug ............ | 92,673 | 6,217 | 6,340 | 20,837 | 6,947 | 32,986 | 19,346 | 2,825 | 16,521 |
| Sept ........... | 92,775 | 6,206 | 6,346 | 20,899 | 6,957 | 33,047 | 19,320 | 2,812 | 16,508 |
| Oct .............. | 92,841 | 6,217 | 6,359 | 20,897 | 6,977 | 33,076 | 19,315 | 2,801 | 16,514 |
| Nov $p$........... | 93,078 | 6,240 | 6,373 | 20,989 | 6,991 | 33,185 | 19,300 | 2,800 | 16,500 |
| Dec $P^{P}$........... | 93,189 | 6,251 | 6,393 | 20,969 | 7,001 | 33,250 | 19,325 | 2,794 | 16,531 |

Note (cont'd). - 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; and which are based on a sample of the working-age population. For description and details of the various establishment data, see "Employment and Earnings."
Source: Department of Labor, Bureau of Labor Statistics.

Table B-43.-Hours and earnings in private nonagricultural industries, 1959-951
[Monthly data seasonally adjusted, except as noted]

| Year or month | Average weekly hours |  |  | Average hourly earnings |  |  | Average weekly earnings, total private |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total private | Manufacturing |  | Total private |  | Manu-facturing (current dollars) | Level |  | Percent change from year earlier ${ }^{3}$ |  |
|  |  | Total | Overtime | Current dollars | $\begin{gathered} 1982 \\ \text { dollars }^{2} \end{gathered}$ |  | Current dollars | $\begin{gathered} 1982 \\ \text { dollars }^{2} \end{gathered}$ | Current dollars | $\begin{gathered} 1982 \\ \text { dollars }{ }^{2} \end{gathered}$ |
| 1959 | 39.0 | 40.3 | 2.7 | \$2.02 | \$6.69 | \$2.19 | \$78.78 | \$260.86 | 4.9 | 4.2 |
| 1960 | 38.6 | 39.7 | 2.5 | 2.09 | 6.79 | 2.26 | 80.67 | 261.92 | 2.4 | . 4 |
| 1961 | 38.6 | 39.8 | 2.4 | 2.14 | 6.88 | 2.32 | 82.60 | 265.59 | 2.4 | 1.4 |
| 1962 | 38.7 | 40.4 | 2.8 | 2.22 | 7.07 | 2.39 | 85.91 | 273.60 | 4.0 | 3.0 |
| 1963 | 38.8 | 40.5 | 2.8 | 2.28 | 7.17 | 2.45 | 88.46 | 278.18 | 3.0 | 1.7 |
| 1964 | 38.7 | 40.7 | 3.1 | 2.36 | 7.33 | 2.53 | 91.33 | 283.63 | 3.2 | 2.0 |
| 1965 | 38.8 | 41.2 | 3.6 | 2.46 | 7.52 | 2.61 | 95.45 | 291.90 | 4.5 | 2.9 |
| 1966 | 38.6 | 41.4 | 3.9 | 2.56 | 7.62 | 2.71 | 98.82 | 294.11 | 3.5 | . 8 |
| 1967 | 38.0 | 40.6 | 3.4 | 2.68 | 7.72 | 2.82 | 101.84 | 293.49 | 3.1 | -. 2 |
| 1968 | 37.8 | 40.7 | 3.6 | 2.85 | 7.89 | 3.01 | 107.73 | 298.42 | 5.8 | 1.7 |
| 1969 | 37.7 | 40.6 | 3.6 | 3.04 | 7.98 | 3.19 | 114.61 | 300.81 | 6.4 | . 8 |
| 1970 | 37.1 | 39.8 | 3.0 | 3.23 | 8.03 | 3.35 | 119.83 | 298.08 | 4.6 | -. 9 |
| 1971 | 36.9 | 39.9 | 2.9 | 3.45 | 8.21 | 3.57 | 127.31 | 303.12 | 6.2 | 1.7 |
| 1972 | 37.0 | 40.5 | 3.5 | 3.70 | 8.53 | 3.82 | 136.90 | 315.44 | 7.5 | 4.1 |
| 1973 | 36.9 | 40.7 | 3.8 | 3.94 | 8.55 | 4.09 | 145.39 | 315.38 | 6.2 | -. 0 |
| 1974 | 36.5 | 40.0 | 3.3 | 4.24 | 8.28 | 4.42 | 154.76 | 302.27 | 6.4 | -4.2 |
| 1975 | 36.1 | 39.5 | 2.6 | 4.53 | 8.12 | 4.83 | 163.53 | 293.06 | 5.7 | -3.0 |
| 1976 | 36.1 | 40.1 | 3.1 | 4.86 | 8.24 | 5.22 | 175.45 | 297.37 | 7.3 | 1.5 |
| 1977 | 36.0 | 40.3 | 3.5 | 5.25 | 8.36 | 5.68 | 189.00 | 300.96 | 7.7 | 1.2 |
| 1978 | 35.8 | 40.4 | 3.6 | 5.69 | 8.40 | 6.17 | 203.70 | 300.89 | 7.8 | -. 0 |
| 1979 | 35.7 | 40.2 | 3.3 | 6.16 | 8.17 | 6.70 | 219.91 | 291.66 | 8.0 | -3.1 |
| 1980 | 35.3 | 39.7 | 2.8 | 6.66 | 7.78 | 7.27 | 235.10 | 274.65 | 6.9 | -5.8 |
| 1981 | 35.2 | 39.8 | 2.8 | 7.25 | 7.69 | 7.99 | 255.20 | 270.63 | 8.5 | -1.5 |
| 1982 | 34.8 | 38.9 | 2.3 | 7.68 | 7.68 | 8.49 | 267.26 | 267.26 | 4.7 | -1.2 |
| 1983 | 35.0 | 40.1 | 3.0 | 8.02 | 7.79 | 8.83 | 280.70 | 272.52 | 5.0 | 2.0 |
| 1984 | 35.2 | 40.7 | 3.4 | 8.32 | 7.80 | 9.19 | 292.86 | 274.73 | 4.3 | . 8 |
| 1985 | 34.9 | 40.5 | 3.3 | 8.57 | 7.77 | 9.54 | 299.09 | 271.16 | 2.1 | -1.3 |
| 1986 | 34.8 | 40.7 | 3.4 | 8.76 | 7.81 | 9.73 | 304.85 | 271.94 | 1.9 | . 3 |
| 1987 | 34.8 | 41.0 | 3.7 | 8.98 | 7.73 | 9.91 | 312.50 | 269.16 | 2.5 | -1.0 |
| 1988 ............................................ | 34.7 | 41.1 | 3.9 | 9.28 | 7.69 | 10.19 | 322.02 | 266.79 | 3.0 | -. 9 |
| 1989 ............................................ | 34.6 | 41.0 | 3.8 | 9.66 | 7.64 | 10.48 | 334.24 | 264.22 | 3.8 | -1.0 |
| 1990 | 34.5 | 40.8 | 3.6 | 10.01 | 7.52 | 10.83 | 345.35 | 259.47 | 3.3 | -1.8 |
| 1991 | 34.3 | 40.7 | 3.6 | 10.32 | 7.45 | 11.18 | 353.98 | 255.40 | 2.5 | -1.6 |
| 1992 | 34.4 | 41.0 | 3.8 | 10.57 | 7.41 | 11.46 | 363.61 | 254.99 | 2.7 | -. 2 |
| 1993 ............................................. | 34.5 | 41.4 | 4.1 | 10.83 | 7.39 | 11.74 | 373.64 | 254.87 | 2.8 | -. 0 |
| 1994 ............................................ | 34.7 | 42.0 | 4.7 | 11.13 | 7.41 | 12.06 | 386.21 | 256.96 | 3.4 | . 8 |
| 1995 p ........................................... | 34.5 | 41.5 | 4.4 | 11.46 | 7.42 | 12.35 | 395.37 | 255.90 | 2.4 | -. 4 |
| 1994:Jan ........................................ | 34.7 | 41.7 | 4.4 | 11.00 | 7.41 | 11.94 | 381.70 | 257.21 | 4.0 | 1.6 |
| Feb ...................................... | 34.4 | 41.3 | 4.5 | 11.02 | 7.41 | 12.00 | 379.09 | 254.94 | 2.5 | . 1 |
| Mar .......................................... | 34.7 | 42.2 | 4.7 | 11.03 | 7.40 | 11.99 | 382.74 | 256.87 | 3.5 | 1.2 |
| Apr ........................................ | 34.7 | 42.1 | 4.7 | 11.05 | 7.40 | 12.00 | 383.44 | 256.83 | 3.5 | 1.3 |
| May ........................................ | 34.7 | 42.0 | 4.6 | 11.08 | 7.41 | 12.00 | 384.48 | 257.18 | 2.8 | . 7 |
| June ....................................... | 34.7 | 42.0 | 4.7 | 11.09 | 7.39 | 12.03 | 384.82 | 256.55 | 3.1 | . 6 |
| July ...................................... | 34.7 | 42.0 | 4.7 | 11.13 | 7.39 | 12.06 | 386.21 | 256.45 | 3.3 | . 6 |
| Aug ......................................... | 34.6 | 42.0 | 4.7 | 11.14 | 7.37 | 12.09 | 385.44 | 255.09 | 2.2 | -. 6 |
| Sept ..................................... | 34.7 | 42.1 | 4.8 | 11.18 | 7.38 | 12.12 | 387.95 | 256.24 | 3.7 | . 7 |
| Oct | 34.9 | 42.1 | 4.7 | 11.25 | 7.42 | 12.14 | 392.63 | 258.99 | 4.3 | 1.7 |
| Nov ........................................ | 34.6 | 42.1 | 4.8 | 11.24 | 7.40 | 12.17 | 388.90 | 256.02 | 3.1 | . 4 |
| Dec ...................................... | 34.7 | 42.1 | 4.8 | 11.27 | 7.40 | 12.18 | 391.07 | 256.94 | 3.1 | . 4 |
| 1995:Jan ....................................... | 34.8 | 42.2 | 4.9 | 11.29 | 7.39 | 12.21 | 392.89 | 257.30 | 2.7 | -. 2 |
| Feb ......................................... | 34.6 | 42.1 | 4.8 | 11.32 | 7.39 | 12.24 | 391.67 | 255.83 | 3.3 | . 3 |
| Mar | 34.6 | 42.0 | 4.7 | 11.34 | 7.38 | 12.25 | 392.36 | 255.44 | 2.6 | -. 4 |
| Apr ......................................... | 34.6 | 41.5 | 4.5 | 11.40 | 7.40 | 12.28 | 394.44 | 255.96 | 2.5 | -. 7 |
| May ........................................ | 34.2 | 41.4 | 4.4 | 11.37 | 7.36 | 12.28 | 388.85 | 251.85 | 1.1 | -2.1 |
| June ...................................... | 34.4 | 41.5 | 4.2 | 11.43 | 7.39 | 12.32 | 393.19 | 254.33 | 2.4 | -. 6 |
| July ...................................... | 34.6 | 41.3 | 4.3 | 11.50 | 7.43 | 12.40 | 397.90 | 257.21 | 3.0 | . 2 |
| Aug ...................................... | 34.4 | 41.5 | 4.3 | 11.48 | 7.41 | 12.41 | 394.91 | 254.95 | 2.5 | -. 0 |
| Sept ........................................ | 34.5 | 41.7 | 4.5 | 11.54 | 7.44 | 12.43 | 398.13 | 256.53 | 2.5 | . 0 |
| Oct | 34.6 | 41.5 | 4.4 | 11.59 | 7.45 | 12.45 | 401.01 | 257.72 | 2.0 | -. 6 |
| Novp ...................................... | 34.4 | 41.5 | 4.4 | 11.58 | 7.44 | 12.47 | 398.35 | 256.01 | 2.3 | -. 1 |
| Dec ${ }^{p}$..................................... | 34.3 | 41.2 | 4.3 | 11.62 | 7.45 | 12.49 | 398.57 | 255.49 | 2.2 | -. 3 |

${ }^{1}$ For production or nonsupervisory workers; total includes private industry groups shown in Table B-42.
${ }^{2}$ Current dollars divided by the consumer price index for urban wage earners and clerical workers on a 1982=100 base
${ }^{3}$ Percent changes are based on data that are not seasonally adjusted.
Note- - See Note, Table B-42.
Source: Department of Labor, Bureau of Labor Statistics.

Table B-44.-Employment cost index, private industry, 1980-95

| Year and month | Total private |  |  | Goods-producing |  |  | Service-producing |  |  | Manufacturing |  |  | Nonmanufacturing |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total com-pensation | Wages and salaries | Benefits ${ }^{1}$ | Total com-pensation | Wages and salaries | Benefits ${ }^{1}$ | Total <br> com-pensation | Wages and salaries | Benefits 1 | Total com-pensation | Wages and salaries | Benefits ${ }^{1}$ | Total com-pensation | Wages and salaries | Benefits ${ }^{1}$ |



Index, June 1989=100; not seasonally adjusted

| December: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1980 | 64.8 | 67.1 | 59.4 | 66.7 | 69.7 | 60.5 | 63.3 | 65.3 | 58.4 | 66.0 | 68.9 | 59.9 | 64.2 | 66.2 | 59.1 |
| 1981 | 71.2 | 73.0 | 66.6 | 73.3 | 75.7 | 68.2 | 69.5 | 71.1 | 65.1 | 72.5 | 74.9 | 67.5 | 70.4 | 72.1 | 66.1 |
| 1982 | 75.8 | 77.6 | 71.4 | 77.8 | 80.0 | 73.2 | 74.1 | 75.9 | 69.6 | 76.9 | 79.1 | 72.4 | 75.1 | 76.8 | 70.6 |
| 1983 | 80.1 | 81.4 | 76.7 | 81.6 | 83.2 | 78.3 | 78.9 | 80.2 | 75.2 | 80.8 | 82.5 | 77.5 | 79.6 | 81.0 | 76.2 |
| 1984 | 84.0 | 84.8 | 81.7 | 85.4 | 86.4 | 83.2 | 82.9 | 83.7 | 80.4 | 85.0 | 86.1 | 82.7 | 83.4 | 84.2 | 81.1 |
| 1985 | 87.3 | 88.3 | 84.6 | 88.2 | 89.4 | 85.7 | 86.6 | 87.7 | 83.6 | 87.8 | 89.2 | 85.0 | 87.0 | 88.0 | 84.4 |
| 1986 | 90.1 | 91.1 | 87.5 | 91.0 | 92.3 | 88.3 | 89.3 | 90.3 | 86.8 | 90.7 | 92.1 | 87.5 | 89.7 | 90.6 | 87.5 |
| 1987 | 93.1 | 94.1 | 90.5 | 93.8 | 95.2 | 90.9 | 92.6 | 93.4 | 90.2 | 93.4 | 95.2 | 89.8 | 92.9 | 93.7 | 91.0 |
| 1988 | 97.6 | 98.0 | 96.7 | 97.9 | 98.2 | 97.3 | 97.3 | 97.8 | 96.1 | 97.6 | 98.1 | 96.6 | 97.5 | 97.8 | 96.8 |
| 1989 | 102.3 | 102.0 | 102.6 | 102.1 | 102.0 | 102.6 | 102.3 | 102.2 | 102.6 | 102.0 | 101.9 | 102.3 | 102.3 | 102.2 | 102.8 |
| 1990 | 107.0 | 106.1 | 109.4 | 107.0 | 105.8 | 109.9 | 107.0 | 106.3 | 109.0 | 107.2 | 106.2 | 109.5 | 106.9 | 106.1 | 109.3 |
| 1991 | 111.7 | 110.0 | 116.2 | 111.9 | 109.7 | 116.7 | 111.6 | 110.2 | 115.7 | 112.2 | 110.3 | 116.1 | 111.5 | 109.8 | 116.2 |
| 1992 | 115.6 | 112.9 | 122.2 | 116.1 | 112.8 | 123.4 | 115.2 | 113.0 | 121.2 | 116.5 | 113.7 | 122.6 | 115.1 | 112.6 | 122.0 |
| 1993 | 119.8 | 116.4 | 128.3 | 120.6 | 116.1 | 130.3 | 119.3 | 116.6 | 126.7 | 121.3 | 117.3 | 130.0 | 119.0 | 116.0 | 127.4 |
| 1994 | 123.5 | 119.7 | 133.0 | 124.3 | 119.6 | 134.8 | 122.8 | 119.7 | 131.5 | 125.1 | 120.8 | 134.3 | 122.6 | 119.1 | 132.3 |
| 1994: Mar | 121.0 | 117.2 | 130.7 | 121.8 | 116.9 | 132.7 | 120.4 | 117.3 | 128.9 | 122.5 | 118.0 | 132.0 | 120.3 | 116.8 | 129.9 |
| June | 122.0 | 118.1 | 131.7 | 123.0 | 118.0 | 133.9 | 121.2 | 118.2 | 129.7 | 123.5 | 119.0 | 133.0 | 121.2 | 117.7 | 130.8 |
| Sept | 123.0 | 119.1 | 132.8 | 123.9 | 118.9 | 134.8 | 122.3 | 119.2 | 131.2 | 124.4 | 120.0 | 133.9 | 122.3 | 118.7 | 132.2 |
| Dec | 123.5 | 119.7 | 133.0 | 124.3 | 119.6 | 134.8 | 122.8 | 119.7 | 131.5 | 125.1 | 120.8 | 134.3 | 122.6 | 119.1 | 132.3 |
| 1995: Mar | 124.5 | 120.6 | 134.5 | 125.3 | 120.4 | 135.9 | 123.9 | 120.7 | 133.2 | 126.2 | 121.9 | 135.4 | 123.7 | 120.0 | 133.9 |
| June . | 125.4 | 121.5 | 135.1 | 125.9 | 121.4 | 135.9 | 124.9 | 121.6 | 134.1 | 126.9 | 122.9 | 135.2 | 124.6 | 120.9 | 134,7 |
| Sept. | 126.2 | 122.4 | 135.6 | 126.5 | 122.1 | 136.2 | 125.8 | 122.6 | 134.8 | 127.3 | 123.5 | 135.5 | 125.5 | 121.9 | 135.4 |

Index, June 1989=100; seasonally adjusted

| 120.8 | 117.3 | 130.2 | 121.5 | 116.9 | 132.2 | 120.2 | 117.4 | 128.5 | 122.3 | 118.0 | 131.3 | 120.2 | 116.8 | 129.5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| . | 121.8 | 118.3 | 131.5 | 122.7 | 118.0 | 133.5 | 121.1 | 118.2 | 129.6 | 123.4 | 119.0 | 132.7 | 121.2 | 117.7 |
| 130.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| .122 .8 | 119.1 | 132.8 | 123.7 | 118.9 | 134.7 | 122.1 | 119.1 | 131.2 | 124.5 | 120.0 | 133.9 | 122.2 | 118.6 | 132.2 |
| 123.6 | 119.8 | 133.8 | 124.5 | 119.6 | 135.8 | 122.9 | 119.7 | 132.0 | 125.4 | 120.8 | 135.3 | 122.8 | 119.2 | 132.9 |
|  | 124.3 | 120.6 | 134.0 | 125.1 | 120.4 | 135.4 | 123.8 | 120.8 | 132.8 | 126.0 | 121.9 | 134.7 | 123.6 | 120.0 |
| 133.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 125.2 | 121.5 | 134.7 | 125.8 | 121.4 | 135.5 | 124.8 | 121.6 | 134.1 | 126.9 | 122.9 | 134.9 | 124.6 | 120.9 |
| 125.9 | 122.3 | 135.4 | 126.5 | 122.1 | 136.1 | 125.6 | 122.4 | 134.7 | 127.4 | 123.5 | 135.5 | 125.3 | 121.8 | 135.4 |

Percent change from 12 months earlier, not seasonally adjusted

| December: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1980 | 9.6 | 9.1 | 11.7 | 9.9 | 9.4 | 10.8 | 9.7 | 8.8 | 12.5 | 9.8 | 9.4 | 10.5 | 9.7 | 8.9 | 12.6 |
| 1981 | 9.9 | 8.8 | 12.1 | 9.9 | 8.6 | 12.7 | 9.8 | 8.9 | 11.5 | 9.8 | 8.7 | 12.7 | 9.7 | 8.9 | 11.8 |
| 1982 | 6.5 | 6.3 | 7.2 | 6.1 | 5.7 | 7.3 | 6.6 | 6.8 | 6.9 | 6.1 | 5.6 | 7.3 | 6.7 | 6.5 | 6.8 |
| 1983 | 5.7 | 4.9 | 7.4 | 4.9 | 4.0 | 7.0 | 6.5 | 5.7 | 8.0 | 5.1 | 4.3 | 7.0 | 6.0 | 5.5 | 7.9 |
| 1984 | 4.9 | 4.2 | 6.5 | 4.7 | 3.8 | 6.3 | 5.1 | 4.4 | 6.9 | 5.2 | 4.4 | 6.7 | 4.8 | 4.0 | 6.4 |
| 1985 | 3.9 | 4.1 | 3.5 | 3.3 | 3.5 | 3.0 | 4.5 | 4.8 | 4.0 | 3.3 | 3.6 | 2.8 | 4.3 | 4.5 | 4.1 |
| 1986 | 3.2 | 3.2 | 3.4 | 3.2 | 3.2 | 3.0 | 3.1 | 3.0 | 3.8 | 3.3 | 3.3 | 2.9 | 3.1 | 3.0 | 3.7 |
| 1987 | 3.3 | 3.3 | 3.4 | 3.1 | 3.1 | 2.9 | 3.7 | 3.4 | 3.9 | 3.0 | 3.4 | 2.6 | 3.6 | 3.4 | 4.0 |
| 1988 | 4.8 | 4.1 | 6.9 | 4.4 | 3.2 | 7.0 | 5.1 | 4.7 | 6.5 | 4.5 | 3.0 | 7.6 | 5.0 | 4.4 | 6.4 |
| 1989 .................. | 4.8 | 4.1 | 6.1 | 4.3 | 3.9 | 5.4 | 5.1 | 4.5 | 6.8 | 4.5 | 3.9 | 5.9 | 4.9 | 4.5 | 6.2 |
| 1990. | 4.6 | 4.0 | 6.6 | 4.8 | 3.7 | 7.1 | 4.6 | 4.0 | 6.2 | 5.1 | 4.2 | 7.0 | 4.5 | 3.8 | 6.3 |
| 1991 ...................... | 4.4 | 3.7 | 6.2 | 4.6 | 3.7 | 6.2 | 4.3 | 3.7 | 6.1 | 4.7 | 3.9 | 6.0 | 4.3 | 3.5 | 6.3 |
| 1992 | 3.5 | 2.6 | 5.2 | 3.8 | 2.8 | 5.7 | 3.2 | 2.5 | 4.8 | 3.8 | 3.1 | 5.6 | 3.2 | 2.6 | 5.0 |
| 1993 .................. | 3.6 | 3.1 | 5.0 | 3.9 | 2.9 | 5.6 | 3.6 | 3.2 | 4.5 | 4.1 | 3.2 | 6.0 | 3.4 | 3.0 | 4.4 |
| 1994 .................. | 3.1 | 2.8 | 3.7 | 3.1 | 3.0 | 3.5 | 2.9 | 2.7 | 3.8 | 3.1 | 3.0 | 3.3 | 3.0 | 2.7 | 3.8 |
| 1994:Mar ............... | 3.3 | 2.9 | 4.4 | 3.2 | 2.7 | 4.2 | 3.4 | 3.0 | 4.5 | 3.3 | 2.9 | 4.1 | 3.4 | 3.0 | 4.6 |
| June ............... | 3.4 | 3.1 | 3.9 | 3.3 | 3.1 | 3.8 | 3.3 | 3.1 | 4.1 | 3.2 | 3.0 | 3.4 | 3.4 | 3.1 | 4.2 |
| Sept ............... | 3.3 | 2.9 | 4.0 | 3.3 | 3.1 | 3.7 | 3.2 | 2.8 | 4.4 | 3.2 | 3.2 | 3.2 | 3.3 | 2.9 | 4.5 |
| Dec ............... | 3.1 | 2.8 | 3.7 | 3.1 | 3.0 | 3.5 | 2.9 | 2.7 | 3.8 | 3.1 | 3.0 | 3.3 | 3.0 | 2.7 | 3.8 |
| 1995:Mar | 2.9 | 2.9 | 2.9 | 2.9 | 3.0 | 2.4 | 2.9 | 2.9 | 3.3 | 3.0 | 3.3 | 2.6 | 2.8 | 2.7 | 3.1 |
| June ... | 2.8 | 2.9 | 2.6 | 2.4 | 2.9 | 1.5 | 3.1 | 2.9 | 3.4 | 2.8 | 3.3 | 1.7 | 2.8 | 2.7 | 3.0 |
| Sept ................ | 2.6 | 2.8 | 2.1 | 2.1 | 2.7 | 1.0 | 2.9 | 2.9 | 2.7 | 2.3 | 2.9 | 1.2 | 2.6 | 2.7 | 2.4 |

Percent change from 3 months earlier, seasonally adjusted

| 1994: Mar | 0.8 | 0.8 | 0.9 | 0.7 | 0.7 | 0.8 | 0.7 | 0.6 | 1.0 | 0.6 | 0.6 | 0.2 | 0.8 | 0.6 | 1.3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June ............... | . 8 | . 9 | 1.0 | 1.0 | . 9 | 1.0 | . 7 | . 7 | . 9 | . 9 | . 8 | 1.1 | . 8 | . 8 | . 9 |
| Sept ............... | . 8 | . 7 | 1.0 | . 8 | . 8 | . 9 | . 8 | . 8 | 1.2 | . 9 | . 8 | . 9 | . 8 | . 8 | 1.1 |
| Dec ................ | . 7 | .6 | . 8 | . 6 | . 6 | . 8 | . 7 | . 5 | . 6 | . 7 | . 7 | 1.0 | . 5 | . 5 | . 5 |
| 1995:Mar ................ | . 6 | . 7 | . 1 | . 5 | . 7 | -. 3 | . 7 | . 9 | . 6 | . 5 | . 9 | -. 4 | . 7 | . 7 | . 5 |
| June ................ | . 7 | . 7 | . 5 | . 6 | . 8 | . 1 | . 8 | . 7 | 1.0 | . 7 | . 8 | . 1 | . 8 | . 8 | . 8 |
| Sept ............... | . 6 | . 7 | . 5 | . 6 | . 6 | . 4 | . 6 | . 7 | . 4 | . 4 | . 5 | . 4 | . 6 | . 7 | . 6 |

[^38]Note. - The employment cost index is a measure of the change in the cost of labor, free from the influence of employment shifts among occupations and industries.
Data exclude farm and household workers.
Through December 1981, percent changes are based on unrounded data; thereafter changes are based on indexes as published.
Source: Department of Labor, Bureau of Labor Statistics.

Table B-45.- Produdivity and related data, business sector, 1959-95
[Index numbers, 1992=100; quarterly data seasonally adjusted]

| Year or quarter | Output per hour of all persons |  | Output ${ }^{1}$ |  | Hours of all persons ${ }^{2}$ |  | Compensation per hour ${ }^{3}$ |  | Real compensation per hour ${ }^{4}$ |  | Unit labor costs |  | Implicit price deflator ${ }^{5}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Business sector | Nonfarm business sector | Busi- <br> ness sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector |
| 1959 | 49.8 | 54.1 | 33.8 | 33.5 | 67.8 | 61.9 | 12.9 | 13.7 | 62.1 | 65.8 | 25.9 | 25.3 | 25.5 | 25.0 |
| 1960 | 50.5 | 54.7 | 34.3 | 34.0 | 67.9 | 62.3 | 13.4 | 14.3 | 63.7 | 67.6 | 26.6 | 26.1 | 25.8 | 25.3 |
| 1961 | 52.2 | 56.4 | 34.9 | 347 | 66.8 | 61.5 | 14.0 | 14.7 | 65.5 | 69.2 | 26.7 | 26.2 | 26.1 | 25.5 |
| 1962 | 54.8 | 59.0 | 37.1 | 37.1 | 67.8 | 62.8 | 14.6 | 15.3 | 67.9 | 71.3 | 26.7 | 26.0 | 26.4 | 25.8 |
| 1963 | 56.9 | 61.0 | 38.8 | 38.7 | 68.2 | 63.5 | 15.2 | 15.9 | 69.6 | 72.9 | 26.7 | 26.1 | 26.5 | 26.0 |
| 1964 ... | 59.6 | 63.7 | 41.3 | 41.4 | 69.2 | 65.0 | 16.0 | 16.6 | 72.3 | 75.3 | 26.8 | 26.1 | 26.8 | 26.3 |
| 1965 | 61.8 | 65.7 | 44.2 | 44.3 | 71.4 | 67.4 | 16.6 | 17.2 | 73.9 | 76.5 | 26.8 | 26.2 | 27.3 | 26.7 |
| 1966 | 64.4 | 68.0 | 47.1 | 47.4 | 73.1 | 69.7 | 17.7 | 18.2 | 76.8 | 78.7 | 27.5 | 26.7 | 28.0 | 27.3 |
| 1967 | 65.9 | 69.2 | 48.0 | 48.2 | 72.9 | 69.7 | 18.7 | 19.2 | 78.7 | 80.8 | 28.4 | 27.8 | 28.8 | 28.2 |
| 1968 | 68.2 | 71.6 | 50.4 | 50.8 | 73.9 | 70.9 | 20.3 | 20.8 | 81.7 | 83.7 | 29.7 | 29.0 | 29.9 | 29.3 |
| 1969 ... | 68.7 | 71.7 | 52.0 | 52.3 | 75.7 | 72.9 | 21.7 | 22.2 | 83.1 | 84.8 | 31.7 | 30.9 | 31.1 | 30.5 |
| 1970 | 69.8 | 72.6 | 51.8 | 52.2 | 74.3 | 71.8 | 23.4 | 23.8 | 84.6 | 86.0 | 33.5 | 32.7 | 32.6 | 31.9 |
| 1971 .. | 72.7 | 75.6 | 53.8 | 54.1 | 74.0 | 71.6 | 24.9 | 25.3 | 86.2 | 87.7 | 34.2 | 33.5 | 34.9 | 33.3 |
| 1972 .. | 75.2 | 78.2 | 57.4 | 57.9 | 76.3 | 74.0 | 26.5 | 27.0 | 88.9 | 90.5 | 35.2 | 34.5 | 35.2 | 34.3 |
| 1973 ... | 77.6 | 80.7 | 61.3 | 62.1 | 79.0 | 76.9 | 28.8 | 29.2 | 90.9 | 92.2 | 37.1 | 36,.1 | 37.0 | 35.5 |
| 1974 ... | 76.6 | 79.4 | 60.6 | 61.1 | 79.1 | 77.0 | 31.6 | 32.1 | 89.9 | 91.2 | 41.2 | 40.4 | 40.4 | 39.1 |
| 1975 | 79.0 | 81.5 | 59.9 | 60.1 | 75.8 | 73.7 | 34.8 | 35.3 | 90.7 | 92.1 | 44.1 | 43.3 | 44.3 | 43.2 |
| 1976 | 82.2 | 84.5 | 64.0 | 64.3 | 77.9 | 76.1 | 38.0 | 38.4 | 93.6 | 94.6 | 46.2 | 45.4 | 46.6 | 45.6 |
| 1977 | 83.8 | 85.8 | 67.8 | 68.0 | 80.9 | 79.2 | 41.0 | 41.4 | 95.0 | 95.9 | 48.9 | 48.3 | 49.3 | 48.6 |
| 1978 ... | 84.5 | 87.0 | 71.6 | 72.3 | 84.8 | 83.2 | 44.7 | 45.2 | 96.3 | 97.3 | 53.0 | 52.0 | 53.1 | 51.9 |
| 1979 ..... | 84.3 | 86.4 | 73.8 | 74.3 | 87.5 | 86.1 | 49.1 | 49.5 | 94.9 | 95.7 | 58.3 | 57.3 | 57.7 | 56.4 |
| 1980 | 84.1 | 86.0 | 72.9 | 73.5 | 86.8 | 85.4 | 54.4 | 54.8 | 92.7 | 93.4 | 64.7 | 63.8 | 62.9 | 61.9 |
| 1981 | 85.8 | 87.0 | 74.9 | 74.8 | 87.3 | 86.0 | 59.6 | 60.2 | 92.0 | 92.9 | 69.5 | 69.1 | 68.6 | 67.9 |
| 1982 | 85.2 | 86.3 | 72.6 | 72.4 | 85.2 | 83.9 | 64.1 | 64.6 | 93.1 | 93.9 | 75.2 | 74.9 | 72.6 | 72.2 |
| 1983 | 88.0 | 89.9 | 76.2 | 76.8 | 86.6 | 85.4 | 66.7 | 76.3 | 93.9 | 94.9 | 75.7 | 74.9 | 75.3 | 74.7 |
| 1984 ..... | 90.2 | 91.5 | 82.5 | 82.8 | 91.5 | 90.5 | 69.6 | 70.2 | 94.0 | 94.8 | 77.2 | 76.8 | 77.7 | 77.0 |
| 1985 | 91.9 | 92.4 | 85.9 | 85.8 | 93.4 | 92.8 | 73.1 | 73.5 | 95.3 | 95.8 | 79.5 | 79.5 | 79.9 | 79.7 |
| 1986 .. | 94.2 | 94.9 | 88.6 | 88.7 | 94.0 | 93.5 | 76.9 | 77.3 | 98.4 | 98.9 | 81.6 | 81.4 | 81.6 | 81.4 |
| 1987 | 94.1 | 94.7 | 91.1 | 91.4 | 96.8 | 96.5 | 79.9 | 80.2 | 98.6 | 99.0 | 84.9 | 84.7 | 83.8 | 83.5 |
| 1988 ... | 94.6 | 95.3 | 94.6 | 95.1 | 100.0 | 99.8 | 83.5 | 83.6 | 99.0 | 99.2 | 88.2 | 87.8 | 86.8 | 86.4 |
| 1989 ..... | 95.4 | 95.8 | 97.8 | 98.1 | 102.5 | 102.4 | 85.8 | 85.8 | 97.1 | 97.1 | 89.9 | 89.6 | 90.5 | 90.0 |
| 1990 | 96.2 | 96.3 | 98.7 | 98.8 | 102.6 | 102.7 | 90.8 | 90.6 | 97.4 | 97.3 | 94.3 | 94.1 | 94.0 | 93.8 |
| 1991. | 96.7 | 96.9 | 96.9 | 97.1 | 100.3 | 109.2 | 95.1 | 95.1 | 97.9 | 97.9 | 98.3 | 98.1 | 97.7 | 97.6 |
| 1992 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1993 ... | 100.2 | 100.2 | 102.6 | 102.9 | 102.4 | 102.7 | 102.6 | 102.3 | 99.6 | 99.3 | 102.4 | 102.1 | 102.5 | 102.5 |
| 1994 ....... | 101.0 | 100.7 | 106.9 | 106.9 | 105.9 | 106.2 | 104.8 | 104.5 | 99.2 | 98.9 | 103.8 | 103.8 | 104.8 | 104.9 |
| 1990:1. | 96.3 | 96.4 | 99.3 | 99.6 | 103.2 | 103.2 | 88.6 | 88.5 | 97.1 | 96.9 | 92.1 | 91.8 | 92.5 | 92.2 |
| 11. | 96.7 | 96.7 | 99.5 | 99.7 | 102.9 | 103.1 | 90.4 | 90.1 | 98.0 | 97.7 | 93.5 | 93.2 | 93.7 | 93.4 |
| III .... | 96.3 | 96.3 | 98.7 | 98.8 | 102.4 | 102.6 | 91.5 | 91.3 | 97.6 | 97.4 | 95.0 | 94.8 | 94.5 | 94.3 |
| IV ..... | 95.5 | 95.5 | 97.2 | 97.2 | 101.8 | 101.8 | 92.4 | 92.3 | 96.9 | 96.8 | 96.8 | 96.7 | 95.5 | 95.4 |
| 1991: \| ....... | 95.8 | 96.0 | 96.3 | 96.5 | 100.5 | 100.5 | 93.3 | 93.3 | 97.1 | 97.1 | 97.4 | 97.2 | 96.7 | 96.7 |
| 11. | 96.6 | 96.8 | 96.9 | 97.0 | 100.2 | 100.2 | 94.7 | 94.7 | 97.9 | 97.9 | 98.0 | 97.8 | 97.4 | 97.3 |
| III. | 97.0 | 97.3 | 97.2 | 97.4 | 100.2 | 100.1 | 95.7 | 95.7 | 98.2 | 98.2 | 98.6 | 98.4 | 98.1 | 98.0 |
| IV ..... | 97.4 | 97.5 | 97.3 | 97.5 | 99.9 | 100.0 | 96.8 | 96.7 | 98.5 | 98.5 | 99.4 | 99.2 | 98.6 | 98.5 |
| 1992: I ....... | 99.3 | 99.3 | 98.8 | 98.8 | 99.5 | 99.6 | 98.6 | 98.5 | 99.7 | 99.6 | 99.3 | 99.3 | 99.3 | 99.2 |
| II...... | 99.9 | 100.0 | 99.6 | 99.6 | 99.7 | 99.6 | 99.5 | 99.6 | 99.8 | 99.9 | 99.6 | 99.6 | 99.7 | 99.8 |
| III .... | 99.7 | 99.6 | 99.8 | 99.8 | 100.1 | 100.1 | 100.7 | 100.7 | 100.3 | 100.2 | 101.0 | 101.0 | 100.1 | 100.1 |
| IV ..... | 101.1 | 101.1 | 101.7 | 101.8 | 100.6 | 100.7 | 101.2 | 101.2 | 99.9 | 99.9 | 100.1 | 100.1 | 100.9 | 100.9 |
| 1993: \| ....... | 100.2 | 100.1 | 101.4 | 101.6 | 101.3 | 101.5 | 101.6 | 101.4 | 99.6 | 99.4 | 101.4 | 101.3 | 101.7 | 101.8 |
| II ...... | 99.8 | 99.7 | 102.0 | 102.2 | 102.2 | 102.5 | 102.5 | 102.1 | 99.7 | 99.3 | 102.6 | 102.4 | 102.3 | 102.4 |
| III .... | 100.1 | 100.2 | 102.8 | 103.2 | 102.6 | 103.0 | 103.0 | 102.6 | 99.8 | 99.4 | 102.9 | 102.4 | 102.7 | 102.7 |
| IV ..... | 100.8 | 100.6 | 104.3 | 104.6 | 103.5 | 103.9 | 103.3 | 102.9 | 99.2 | 98.9 | 102.5 | 102.3 | 103.3 | 103.3 |
| 1994:I ....... | 100.3 | 100.0 | 104.8 | 104.8 | 104.5 | 104.8 | 104.2 | 103.7 | 99.6 | 99.1 | 103.8 | 103.7 | 103.9 | 103.9 |
| II...... | 100.7 | 100.4 | 106.5 | 106.6 | 105.8 | 106.1 | 104.5 | 104.3 | 99.3 | 99.0 | 103.9 | 103.8 | 104.4 | 104.5 |
| III .... | 101.4 | 101.1 | 107.6 | 107.7 | 106.2 | 106.5 | 104.9 | 104.6 | 98.8 | 98.5 | 103.5 | 103.4 | 105.1 | 105.3 |
| IV ..... | 101.5 | 101.3 | 108.7 | 108.8 | 107.1 | 107.4 | 105.7 | 105.4 | 99.0 | 98.7 | 104.1 | 104.1 | 105.6 | 105.7 |
| 1995: I ....... | 101.1 | 101.0 | 108.8 | 109.0 | 107.6 | 107.9 | 106.6 | 106.4 | 99.0 | 98.9 | 105.4 | 105.3 | 106.3 | 106.5 |
| II ...... | 101.9 | 101.8 | 108.9 | 109.1 | 106.9 | 107.2 | 108.0 | 107.8 | 99.6 | 99.3 | 106.0 | 105.9 | 106.9 | 107.0 |
| III .... | 102.2 | 102.1 | 110.1 | 110.3 | 107.7 | 108.0 | 109.1 | 108.8 | 100.0 | 99.8 | 106.8 | 106.5 | 107.6 | 107.6 |

${ }^{1}$ Output refers to real gross domestic product originating in the sector.
${ }^{2}$ Hours at work of all persons engaged in the 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.
${ }^{4}$ Hourly compensation divided by the consumer price index for all urban consumers.
${ }^{5}$ Current dollar output divided by the output index.
Note.- Data shown in this table reflect the January 1996 comprehensive revisions of the national income and product accounts released by the Department of Commerce and are computed using chain-type output indexes. The data also reflect the incorporation of the 1994 Hours at Work Survey.

Table B-46.-Changes in productivity and related data, business sector, 1960-95
[Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Output per hour of all persons |  | Output ${ }^{1}$ |  | Hours of all persons ${ }^{2}$ |  | Compensation per hour ${ }^{3}$ |  | Real compensation per hour ${ }^{4}$ |  | Unit labor costs |  | Implicit price deflator ${ }^{5}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector | Business sector | Nonfarm business sector |
| 1960 | 1.5 | 1.1 | 1.6 | 1.6 | 0.1 | 0.6 | 4.4 | 4.4 | 2.6 | 2.7 | 2.8 | 3.3 | 1.3 | 1.1 |
| 1961 .......... | 3.4 | 3.1 | 1.7 | 1.9 | -1.7 | -1.2 | 4.0 | 3.4 | 2.9 | 2.3 | . 5 | . 2 | 1.0 | . 9 |
| 1962 .......... | 4.8 | 4.7 | 6.4 | 6.9 | 1.6 | 2.1 | 4.7 | 4.1 | 3.6 | 3.1 | -. 1 | -. 5 | . 9 | . 8 |
| 1963 .......... | 4.0 | 3.4 | 4.5 | 4.5 | . 5 | 1.0 | 3.8 | 3.6 | 2.5 | 2.2 | -. 2 | . 1 | . 7 | 9 |
| 1964 .......... | 4.8 | 4.4 | 6.4 | 6.8 | 1.6 | 2.3 | 5.2 | 4.6 | 3.9 | 3.3 | . 5 | . 2 | 1.0 | 1.2 |
| 1965 ... | 3.7 | 3.1 | 7.0 | 7.0 | 3.2 | 3.8 | 3.8 | 3.3 | 2.2 | 1.7 | . 2 | . 2 | 1.7 | 1.5 |
| 1966 .... | 4.2 | 3.5 | 6.6 | 7.1 | 2.4 | 3.5 | 6.9 | 5.8 | 3.9 | 2.9 | 2.6 | 2.2 | 2.6 | 2.3 |
| 1967 .... | 2.4 | 1.8 | 2.0 | 1.7 | -. 3 | -. 1 | 5.7 | 5.9 | 2.6 | 2.7 | 3.3 | 4.0 | 2.8 | 3.3 |
| 1968 .... | 3.6 | 3.5 | 5.0 | 5.2 | 1.4 | 1.7 | 8.2 | 7.9 | 3.8 | 3.5 | 4.4 | 4.3 | 3.8 | 3.9 |
| 1969 .......... | . 6 | . 1 | 3.0 | 3.0 | 2.4 | 2.9 | 7.3 | 6.8 | 1.7 | 1.3 | 6.6 | 6.7 | 4.3 | 4.2 |
| 1970 ... | 1.6 | 1.4 | -. 3 | -. 2 | -1.8 | -1.6 | 7.5 | 7.2 | 1.7 | 1.4 | 5.8 | 5.8 | 4.6 | 4.5 |
| 1971 .......... | 4.3 | 4.0 | 3.8 | 3.8 | -. 4 | -. 3 | 6.5 | 6.5 | 2.0 | 2.0 | 2.1 | 2.3 | 4.5 | 4.6 |
| 1972 .......... | 3.4 | 3.5 | 6.6 | 6.9 | 3.2 | 3.3 | 6.3 | 6.5 | 3.0 | 3.2 | 2.9 | 2.9 | 3.4 | 2.9 |
| 1973 ..... | 3.2 | 3.2 | 6.9 | 7.3 | 3.6 | 3.9 | 8.6 | 8.2 | 2.3 | 1.9 | 5.2 | 4.9 | 5.2 | 3.6 |
| 1974 .......... | -1.3 | -1.6 | -1.2 | -1.5 | . 1 | . 1 | 9.9 | 9.9 | -1.1 | -1.0 | 11.3 | 11.7 | 9.0 | 10.0 |
| 1975 ... | 3.1 | 2.7 | -1.2 | -1.7 | -4.2 | -4.3 | 10.2 | 10.1 | . 9 | . 9 | 6.8 | 7.3 | 9.8 | 10.6 |
| 1976 .......... | 4.0 | 3.7 | 6.9 | 7.1 | 2.8 | 3.2 | 9.1 | 8.7 | 3.2 | 2.7 | 4.9 | 4.7 | 5.1 | 5.6 |
| 1977 .......... | 2.0 | 1.5 | 5.9 | 5.7 | 3.8 | 4.1 | 8.1 | 8.0 | 1.5 | 1.4 | 5.9 | 6.4 | 5.9 | 6.4 |
| 1978 .......... | . 7 | 1.3 | 5.6 | 6.4 | 4.8 | 5.0 | 9.1 | 9.1 | 1.4 | 1.4 | 8.2 | 7.7 | 7.8 | 6.9 |
| 1979 .......... | -. 2 | -. 7 | 3.0 | 2.8 | 3.2 | 3.5 | 9.8 | 9.5 | -1.4 | -1.7 | 10.0 | 10.3 | 8.6 | 8.6 |
| 1980 ... | -. 3 | -. 4 | -1.1 | -1.2 | -. 9 | -. 8 | 10.8 | 10.8 | -2.4 | -2.4 | 11.1 | 11.2 | 9.0 | 9.8 |
| 1981 .......... | 2.0 | 1.2 | 2.7 | 1.9 | . 6 | . 7 | 9.5 | 9.7 | -. 7 | -. 6 | 7.3 | 8.4 | 9.0 | 9.6 |
| 1982 .......... | -. 7 | -. 9 | -3.1 | -3.3 | -2.4 | -2.4 | 7.5 | 7.4 | 1.2 | 1.2 | 8.2 | 8.3 | 5.9 | 6.4 |
| 1983 .......... | 3.3 | 4.2 | 5.0 | 6.1 | 1.7 | 1.8 | 4.1 | 4.2 | + 8 | 1.0 | . 8 | 0 | 3.7 | 3.4 |
| 1984 .......... | 2.5 | 1.8 | 8.2 | 7.9 | 5.6 | 5.9 | 4.5 | 4.3 | . 2 | -. 0 | 2.0 | 2.4 | 3.2 | 3.1 |
| 1985 ... | 1.9 | 1.0 | 4.1 | 3.6 | 2.1 | 2.5 | 4.9 | 4.6 | 1.3 | 1.0 | 3.0 | 3.6 | 2.8 | 3.4 |
| 1986 .......... | 2.6 | 2.7 | 3.2 | 3.4 | . 6 | . 7 | 5.2 | 5.2 | 3.3 | 3.3 | 2.6 | 2.5 | 2.2 | 2.2 |
| 1987 .......... | -. 1 | -. 2 | 2.9 | 3.0 | 3.0 | 3.2 | 3.9 | 3.7 | . 2 | . 1 | 4.0 | 4.0 | 2.7 | 2.6 |
| 1988 .......... | . 5 | . 6 | 3.8 | 4.1 | 3.3 | 3.5 | 4.5 | 4.3 | . 4 | . 1 | 4.0 | 3.7 | 3.5 | 3.4 |
| 1989 .......... | . 8 | . 5 | 3.4 | 3.2 | 2.5 | 2.6 | 2.8 | 2.7 | -1.9 | -2.1 | 1.9 | 2.1 | 4.2 | 4.2 |
| 1990 ... | . 8 | . 5 | 9 | 7 | . 1 | 2 | 5.8 | 5.5 | . 4 | . 1 | 4.9 | 5.0 | 4.0 | 4.2 |
| 1991 .......... | . 5 | . 7 | -1.8 | -1.8 | -2.3 | -2.4 | 4.8 | 4.9 | . 5 | . 7 | 4.2 | 4.3 | 3.9 | 4.1 |
| 1992 ........... | 3.4 | 3.2 | 3.2 | 3.0 | -. 3 | -. 2 | 5.2 | 5.2 | 2.1 | 2.1 | 1.7 | 1.9 | 2.4 | 2.4 |
| 1993 .......... | . 2 | . 2 | 2.6 | 2.9 | 2.4 | 2.7 | 2.6 | 2.3 | -. 4 | -. 7 | 2.4 | 2.1 | 2.5 | 2.5 |
| 1994 .......... | 7 | . 5 | 4.2 | 4.0 | 3.4 | 3.4 | 2.2 | 2.2 | -. 4 | -. 4 | 1.4 | 1.6 | 2.2 | 2.3 |
| 1990: I ....... | 2.4 | 1.4 | 4.5 | 4.2 | 2.1 | 2.7 | 7.0 | 6.1 | 0 | -. 9 | 4.6 | 4.6 | 4.3 | 4.6 |
| II...... | 1.7 | 1.1 | . 9 | . 4 | -. 8 | -. 6 | 8.0 | 7.6 | 3.7 | 3.4 | 6.2 | 6.5 | 5.1 | 5.3 |
| III .... | -1.5 | -1.6 | -3.4 | -3.4 | -2.0 | -1.8 | 5.3 | 5.4 | -1.7 | -1.6 | 6.9 | 7.1 | 3.7 | 3.9 |
| IV ..... | -3.5 | -3.2 | -6.0 | -6.3 | -2.5 | -3.2 | 4.0 | 4.4 | -2.8 | -2.4 | 7.8 | 7.9 | 4.3 | 4.8 |
| 1991: I ....... | 1.5 | 2.0 | -3.4 | -3.0 | -4.8 | -5.0 | 4.0 | 4.2 | . 9 | 1.1 | 2.4 | 2.1 | 5.2 | 5.5 |
| II..... | 3.5 | 3.4 | 2.3 | 2.1 | -1.2 | -1.3 | 5.8 | 6.0 | 3.3 | 3.5 | 2.2 | 2.5 | 2.8 | 2.5 |
| III .... | 1.5 | 1.9 | 1.3 | 1.7 | -. 2 | -. 2 | 4.4 | 4.5 | 1.2 | 1.4 | 2.8 | 2.6 | 2.8 | 3.0 |
| IV ..... | 1.7 | 1.2 | . 7 | . 5 | -. 9 | -. 6 | 4.7 | 4.4 | 1.3 | 1.0 | 3.0 | 3.2 | 2.1 | 2.1 |
| 1992: I ....... | 8.1 | 7.3 | 6.2 | 5.6 | -1.7 | -1.5 | 7.8 | 7.7 | 4.9 | 4.8 | -. 3 | . 4 | 2.8 | 3.0 |
| II ...... | 2.5 | 2.8 | 3.2 | 3.1 | . 7 | . 3 | 3.7 | 4.2 | . 5 | 1.1 | 1.2 | 1.4 | 1.9 | 2.1 |
| III .... | -. 7 | -1.2 | . 8 | . 7 | 1.6 | 2.0 | 4.8 | 4.4 | 1.7 | 1.3 | 5.6 | 5.7 | 1.5 | 1.4 |
| IV ..... | 5.6 | 6.1 | 7.9 | 8.4 | 2.2 | 2.2 | 2.1 | 2.1 | -1.3 | -1.3 | -3.3 | -3.7 | 3.0 | 3.2 |
| 1993: I ....... | -3.7 | -3.9 | -1.1 | -. 9 | 2.6 | 3.1 | 1.6 | 1.0 | -1.4 | -2.0 | 5.4 | 5.1 | 3.4 | 3.8 |
| $11 . . . .$. | -1.3 | -1.7 | 2.2 | 2.4 | 3.6 | 4.2 | 3.4 | 2.7 | . 3 | -. 3 | 4.8 | 4.5 | 2.5 | 2.1 |
| III .... | 1.3 | 2.1 | 3.0 | 4.1 | 1.7 | 2.0 | 2.2 | 2.0 | . 5 | . 3 | . 9 | -. 1 | 1.4 | 1.2 |
| IV ..... | 2.7 | 1.6 | 6.3 | 5.3 | 3.5 | 3.6 | 1.1 | 1.1 | -2.1 | -2.1 | -1.6 | -. 5 | 2.4 | 2.6 |
| 1994: I ....... | -1.9 | -2.5 | 1.8 | . 9 | 3.7 | 3.5 | 3.4 | 3.3 | 1.3 | 1.1 | 5.4 | 5.9 | 2.4 | 2.5 |
| II...... | 1.4 | 1.9 | 6.7 | 6.8 | 5.3 | 4.8 | 1.5 | 2.1 | -1.0 | -. 4 | . 1 | . 2 | 1.8 | 2.2 |
| III .... | 2.8 | 2.6 | 4.1 | 4.2 | 1.3 | 1.6 | 1.5 | 1.2 | -2.0 | -2.3 | -1.3 | -1.4 | 2.6 | 2.9 |
| IV ..... | . 7 | . 9 | 4.0 | 4.2 | 3.3 | 3.3 | 2.9 | 3.3 | . 7 | 1.0 | 2.3 | 2.4 | 2.0 | 1.8 |
| 1995: I ....... | -1.6 | -1.1 | . 6 | . 8 | 2.2 | 1.9 | 3.4 | 3.7 | . 3 | . 6 | 5.0 | 4.9 | 2.8 | 2.9 |
| II...... | 3.0 | 3.0 | . 3 | . 5 | -2.5 | -2.4 | 5.6 | 5.4 | 2.1 | 2.0 | 2.5 | 2.3 | 2.1 | 1.9 |
| III .... | 1.2 | 1.4 | 4.1 | 4.4 | 2.8 | 2.9 | 3.9 | 3.9 | 1.9 | 1.8 | 2.7 | 2.4 | 2.6 | 2.3 |

[^39]Source: Department of Labor, Bureau of Labor Statistics.

PRODUCTION AND BUSINESS ACTIVITY
Table B-47.-Industrial production indexes, major industry divisions, 1947-95
[1987=100; monthly data seasonally adjusted]


Source: Board of Governors of the Federal Reserve System.

Table B-48.—Industrial production indexes, market groupings, 1947-95
[1987=100; monthly data seasonally adjusted]

| Year or month | Total industrial pro-duction | Final products |  |  |  |  |  |  |  | Intermediate products | Materials |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Consumer goods |  |  |  | Equipment |  |  |  |  |  |  |  |
|  |  | Total | Total | Automotive products | Other durable goods | Nondurable goods | Total ${ }^{1}$ | Business | Defense and space |  | Total | Durable | Non-durable | Energy |
| 1947 | 22.7 | 20.8 | 25.4 | 21.7 | 22.8 | 27.0 | 15.0 | 14.7 | 7.5 | 22.4 | 25.1 | 21.5 |  |  |
| 1948 | 23.6 | 21.5 | 26.2 | 22.6 | 23.8 | 27.7 | 15.8 | 15.3 | 8.8 | 23.6 | 26.2 | 22.1 |  |  |
| 1949 | 22.3 | 20.9 | 26.1 | 22.5 | 22.0 | 27.9 | 14.1 | 13.4 | 9.2 | 22.4 | 23.9 | 19.8 |  |  |
| 1950 | 25.8 | 23.5 | 29.7 | 28.3 | 30.4 | 30.3 | 15.3 | 14.3 | 10.8 | 26.1 | 28.6 | 24.9 |  |  |
| 1951 | 28.0 | 25.4 | 29.4 | 25.0 | 26.2 | 31.3 | 21.2 | 17.5 | 26.5 | 27.4 | 31.6 | 28.3 |  |  |
| 1952 | 29.1 | 27.3 | 30.1 | 22.5 | 26.2 | 32.6 | 25.5 | 19.8 | 37.2 | 27.2 | 32.1 | 28.9 |  |  |
| 1953 | 31.6 | 29.1 | 31.9 | 28.4 | 29.6 | 33.5 | 27.6 | 20.6 | 44.6 | 29.1 | 35.6 | 33.8 |  |  |
| 1954 | 29.9 | 27.6 | 31.7 | 26.5 | 27.3 | 33.9 | 24.2 | 18.1 | 39.3 | 29.0 | 32.9 | 29.2 | 25.2 | 52.7 |
| 1955 | 33.7 | 29.8 | 35.4 | 35.2 | 32.2 | 36.5 | 24.7 | 19.6 | 35.9 | 32.9 | 38.9 | 35.7 | 28.9 | 59.3 |
| 1956 | 35.1 | 31.6 | 36.7 | 28.9 | 33.9 | 38.8 | 27.1 | 22.7 | 35.1 | 34.4 | 39.9 | 35.8 | 30.2 | 62.7 |
| 1957 | 35.6 | 32.5 | 37.6 | 30.3 | 33.2 | 40.1 | 28.2 | 23.6 | 36.7 | 34.4 | 39.9 | 35.8 | 30.1 | 63.4 |
| 1958 | 33.3 | 31.0 | 37.2 | 24.1 | 31.3 | 41.3 | 25.2 | 19.9 | 36.8 | 33.6 | 35.9 | 30.1 | 29.9 | 58.8 |
| 1959 | 37.3 | 34.0 | 40.9 | 30.2 | 36.0 | 44.1 | 27.7 | 22.4 | 38.8 | 37.1 | 41.4 | 35.9 | 34.2 | 62.3 |
| 1960 | 38.1 | 35.1 | 42.4 | 34.6 | 36.2 | 45.5 | 28.5 | 23.0 | 39.9 | 37.4 | 42.0 | 36.3 | 34.8 | 63.1 |
| 1961 | 38.4 | 35.4 | 43.3 | 31.6 | 37.3 | 47.0 | 28.1 | 22.3 | 40.6 | 38.1 | 42.0 | 35.5 | 36.2 | 63.6 |
| 1962 | 41.6 | 38.4 | 46.2 | 38.3 | 40.5 | 49.2 | 31.3 | 24.3 | 46.9 | 40.4 | 45.8 | 39.4 | 39.2 | 65.8 |
| 1963 | 44.0 | 40.6 | 48.8 | 41.9 | 43.7 | 51.4 | 33.1 | 25.5 | 50.6 | 42.7 | 48.7 | 42.1 | 41.6 | 69.7 |
| 1964 | 47.0 | 42.9 | 51.5 | 43.9 | 47.7 | 54.0 | 35.0 | 28.5 | 49.0 | 45.5 | 52.6 | 45.9 | 45.2 | 72.5 |
| 1965 | 51.7 | 47.1 | 55.5 | 54.1 | 54.1 | 56.3 | 39.6 | 32.6 | 54.3 | 48.4 | 58.7 | 52.6 | 49.6 | 75.8 |
| 1966 | 56.3 | 51.6 | 58.4 | 53.9 | 59.6 | 59.0 | 46.1 | 37.8 | 63.7 | 51.4 | 63.9 | 57.9 | 53.6 | 80.6 |
| 1967 | 57.5 | 53.7 | 59.8 | 47.4 | 60.4 | 62.0 | 49.0 | 38.6 | 72.7 | 53.5 | 63.3 | 55.9 | 54.5 | 83.4 |
| 1968 | 60.7 | 56.3 | 63.4 | 56.4 | 64.7 | 64.5 | 50.4 | 40.3 | 72.9 | 56.6 | 67.5 | 59.2 | 59.9 | 87.2 |
| 1969 | 63.5 | 58.1 | 65.8 | 56.7 | 69.0 | 66.7 | 51.8 | 42.9 | 69.4 | 59.6 | 71.5 | 62.3 | 64.9 | 91.7 |
| 1970 | 61.4 | 56.0 | 65.0 | 47.7 | 66.9 | 67.8 | 48.1 | 41.3 | 58.7 | 58.7 | 69.0 | 56.5 | 65.2 | 96.2 |
| 1971 | 62.2 | 56.5 | 68.8 | 60.8 | 70.8 | 69.7 | 45.0 | 39.3 | 52.8 | 60.5 | 70.0 | 56.8 | 68.0 | 97.1 |
| 1972 | 68.3 | 61.3 | 74.3 | 65.6 | 81.0 | 74.2 | 49.3 | 44.8 | 51.3 | 67.6 | 77.2 | 64.2 | 74.9 | 100.8 |
| 1973 | 73.8 | 65.9 | 77.6 | 72.4 | 85.7 | 76.5 | 55.0 | 52.4 | 50.1 | 71.9 | 84.5 | 73.3 | 80.4 | 101.5 |
| 1974 | 72.7 | 65.7 | 75.2 | 62.6 | 79.3 | 76.5 | 56.8 | 54.7 | 49.4 | 69.4 | 82.8 | 71.2 | 80.8 | 98.8 |
| 1975 | 66.3 | 61.8 | 72.3 | 59.0 | 69.8 | 74.9 | 52.0 | 48.8 | 48.5 | 62.6 | 72.6 | 59.3 | 71.9 | 96.7 |
| 1976 | 72.4 | 66.2 | 79.4 | 73.2 | 78.2 | 80.4 | 53.8 | 50.6 | 49.2 | 69.0 | 81.2 | 68.4 | 81.4 | 99.0 |
| 1977 | 78.2 | 71.6 | 85.1 | 84.0 | 87.4 | 84.4 | 58.8 | 56.7 | 49.2 | 74.9 | 87.3 | 75.3 | 86.7 | 101.1 |
| 1978 | 82.6 | 76.1 | 88.4 | 86.3 | 91.2 | 87.8 | 64.2 | 63.1 | 49.5 | 79.1 | 91.8 | 81.4 | 89.7 | 102.2 |
| 1979 | 85.7 | 79.0 | 87.3 | 78.5 | 89.8 | 87.7 | 71.0 | 71.5 | 51.5 | 81.2 | 95.4 | 85.3 | 92.9 | 105.0 |
| 1980 | 84.1 | 80.0 | 85.3 | 59.5 | 85.1 | 89.1 | 74.6 | 73.5 | 57.4 | 77.0 | 91.3 | 79.3 | 88.7 | 106.2 |
| 1981 | 85.7 | 82.1 | 85.8 | 59.2 | 86.3 | 89.6 | 78.2 | 76.1 | 58.5 | 77.0 | 92.8 | 82.1 | 90.5 | 104.3 |
| 1982 | 81.9 | 80.8 | 84.5 | 57.5 | 78.1 | 89.7 | 77.0 | 72.9 | 65.7 | 75.1 | 85.1 | 73.4 | 82.1 | 100.7 |
| 1983 | 84.9 | 83.0 | 88.8 | 71.9 | 86.2 | 91.9 | 76.8 | 71.9 | 71.8 | 80.3 | 88.3 | 79.2 | 89.2 | 98.9 |
| 1984 | 92.8 | 91.0 | 92.8 | 86.6 | 94.6 | 93.4 | 89.2 | 85.4 | 78.9 | 86.2 | 96.6 | 92.1 | 93.0 | 103.8 |
| 1985 | 94.4 | 94.2 | 93.7 | 92.7 | 90.6 | 94.4 | 94.8 | 91.1 | 89.4 | 88.3 | 96.6 | 92.9 | 91.7 | 103.4 |
| 1986 | 95.3 | 95.7 | 96.8 | 95.3 | 93.9 | 97.6 | 94.5 | 93.1 | 96.0 | 91.9 | 95.9 | 93.7 | 94.4 | 99.5 |
| 1987 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1988 | 104.4 | 104.8 | 102.9 | 106.4 | 103.0 | 102.4 | 107.6 | 110.7 | 99.7 | 101.8 | 105.0 | 106.8 | 104.4 | 102.2 |
| 1989 | 106.0 | 106.8 | 104.0 | 108.2 | 105.2 | 103.2 | 110.9 | 115.5 | 100.1 | 102.0 | 106.7 | 108.4 | 107.1 | 103.1 |
| 1990 | 106.0 | 107.0 | 103.4 | 100.7 | 103.6 | 103.8 | 112.1 | 116.9 | 98.8 | 101.2 | 106.8 | 107.6 | 108.0 | 104.2 |
| 1991 | 104.2 | 105.4 | 103.0 | 91.1 | 100.3 | 105.0 | 108.8 | 115.9 | 90.8 | 96.8 | 105.5 | 105.6 | 106.6 | 104.4 |
| 1992 | 107.7 | 108.7 | 106.0 | 100.9 | 104.9 | 106.9 | 112.5 | 123.4 | 84.8 | 99.3 | 109.7 | 112.8 | 110.1 | 103.7 |
| 1993 | 111.5 | 112.7 | 109.5 | 115.1 | 111.8 | 108.6 | 117.5 | 131.8 | 79.3 | 101.8 | 113.8 | 120.1 | 111.6 | 103.5 |
| 1994 | 118.1 | 118.3 | 113.7 | 130.8 | 118.5 | 111.2 | 125.3 | 144.9 | 71.9 | 107.3 | 122.0 | 132.3 | 118.0 | 105.3 |
| 1995 p | 121.9 | 121.4 | 115.0 | 130.6 | 118.7 | 112.8 | 131.5 | 155.8 | 66.0 | 109.0 | 127.5 | 141.5 | 119.9 | 106.7 |
| 1994:Jan | 114.6 | 115.6 | 111.8 | 129.3 | 114.7 | 109.5 | 121.5 | 138.2 | 75.8 | 104.1 | 117.3 | 126.0 | 112.8 | 104.1 |
| Feb | 115.5 | 116.6 | 112.6 | 133.7 | 115.4 | 109.9 | 122.6 | 140.1 | 74.9 | 104.7 | 118.3 | 127.1 | 114.5 | 104.3 |
| Mar | 116.4 | 117.1 | 113.1 | 130.0 | 116.3 | 110.8 | 123.2 | 140.8 | 74.9 | 105.4 | 119.8 | 129.2 | 116.1 | 104.9 |
| Apr | 116.8 | 117.3 | 113.1 | 130.1 | 117.9 | 110.6 | 123.7 | 141.6 | 74.7 | 106.1 | 120.3 | 130.1 | 116.2 | 104.8 |
| May | 117.5 | 117.7 | 113.5 | 127.9 | 117.6 | 111.4 | 124.0 | 142.4 | 73.3 | 106.8 | 121.2 | 131.2 | 117.9 | 104.8 |
| June .................... | 118.1 | 118.2 | 114.1 | 128.9 | 119.1 | 111.8 | 124.5 | 143.4 | 72.1 | 107.4 | 122.0 | 131.5 | 118.6 | 106.6 |
| July ..................... | 118.4 | 118.4 | 114.1 | 127.1 | 121.8 | 111.7 | 124.9 | 144.7 | 70.5 | 108.1 | 122.2 | 132.4 | 118.8 | 105.3 |
| Aug ..................... | 118.9 | 118.8 | 114.2 | 131.1 | 120.4 | 111.5 | 126.0 | 146.8 | 69.6 | 107.7 | 123.3 | 133.7 | 120.1 | 105.9 |
| Sept ..................... | 119.1 | 118.6 | 113.4 | 130.1 | 119.9 | 110.7 | 126.7 | 147.6 | 69.5 | 108.1 | 123.7 | 134.7 | 119.8 | 105.9 |
| Oct. | 119.9 | 119.6 | 114.4 | 130.9 | 120.3 | 111.8 | 127.9 | 149.5 | 69.6 | 109.5 | 124.1 | 135.8 | 119.6 | 105.2 |
| Nov ..................... | 120.5 | 120.1 | 114.8 | 131.5 | 120.0 | 112.3 | 128.3 | 150.2 | 69.4 | 109.6 | 125.2 | 137.3 | 120.6 | 105.6 |
| Dec ..................... | 121.5 | 120.9 | 115.5 | 133.9 | 121.8 | 112.6 | 129.3 | 151.5 | 69.2 | 109.9 | 126.6 | 139.2 | 122.1 | 106.0 |
| 1995:Jan | 121.8 | 121.3 | 115.5 | 134.4 | 120.8 | 112.7 | 130.4 | 153.2 | 68.9 | 109.5 | 127.1 | 140.0 | 122.2 | 106.2 |
| Feb | 121.7 | 121.1 | 114.9 | 135.3 | 120.4 | 111.9 | 131.0 | 154.3 | 68.2 | 109.5 | 127.1 | 140.2 | 121.5 | 106.4 |
| Mar ... | 121.9 | 121.5 | 115.3 | 134.4 | 118.6 | 112.7 | 131.4 | 155.1 | 67.8 | 109.2 | 127.2 | 140.3 | 121.5 | 106.4 |
| Apr | 121.4 | 120.9 | 114.4 | 131.7 | 119.0 | 111.8 | 131.3 | 155.0 | 67.1 | 108.2 | 127.0 | 139.8 | 121.7 | 106.6 |
| May .................... | 121.3 | 120.6 | 114.1 | 127.1 | 116.7 | 112.4 | 130.8 | 154.3 | 66.8 | 108.2 | 127.2 | 139.8 | 122.2 | 107.2 |
| June ..................... | 121.4 | 121.1 | 114.8 | 129.1 | 116.3 | 113.1 | 131.2 | 155.1 | 66.8 | 108.2 | 126.8 | 139.7 | 120.4 | 107.2 |
| July ...................... | 121.5 | 121.2 | 114.6 | 125.3 | 118.1 | 113.0 | 131.6 | 155.7 | 66.5 | 108.5 | 126.8 | 140.2 | 118.9 | 107.5 |
| Aug ....................... | 122.7 | 122.4 | 115.9 | 130.7 | 118.1 | 113.9 | 132.9 | 157.5 | 66.1 | 109.4 | 128.1 | 142.3 | 118.8 | 108.5 |
| Sept | 122.8 | 122.6 | 116.0 | 132.9 | 119.6 | 113.7 | 133.1 | 158.2 | 65.2 | 109.5 | 128.1 | 144.1 | 117.8 | 105.8 |
| Oct $p$ | 122.3 | 121.5 | 115.2 | 128.5 | 118.9 | 113.2 | 131.5 | 156.5 | 64.3 | 109.4 | 128.2 | 143.9 | 119.0 | 105.6 |
| Nov $p$. | 122.7 | 121.8 | 115.5 | 130.3 | 120.3 | 113.3 | 131.8 | 157.4 | 63.1 | 109.3 | 128.7 | 145.4 | 117.4 | 106.0 |
| $\operatorname{Dec}^{p}$...... | 122.8 | 122.1 | 115.4 | 132.5 | 121.2 | 112.7 | 132.7 | 158.8 | 62.5 | 109.6 | 128.6 | 145.0 | 117.7 | 106.2 |

${ }^{1}$ Two components- oil and gas well drilling and manufactured homes- are included in total equipment, but not in detail shown.

Table B-49.-Industrial production indexes, selected manufactures, 1947-95
[1987=100; monthly data seasonally adjusted]

| Year or month | Durable manufactures |  |  |  |  |  |  |  | Nondurable manufactures |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary metals |  | Fabri- <br> cated <br> metal <br> prod- <br> ucts | Industrial ma-chinery and equipment | Electrical machinery | Transportation equipment |  | Lumber and products | Apparel products | Textile mill products | Printing and publishing | Chemicals and products | Foods |
|  | Total | $\begin{aligned} & \text { Iron } \\ & \text { and } \\ & \text { steel } \end{aligned}$ |  |  |  | Total | Motor vehicles and parts |  |  |  |  |  |  |
| 1947 | 70.2 | 102.1 | 37.5 | 12.0 | 8.5 | 19.6 | 27.3 | 38.8 | 43.1 | 35.2 | 22.1 | 8.7 | 33.1 |
| 1948 | 73.0 | 106.8 | 38.2 | 12.1 | 8.8 | 21.4 | 29.6 | 40.4 | 45.0 | 37.7 | 23.2 | 9.4 | 32.8 |
| 1949 ................... | 61.4 | 91.2 | 34.4 | 10.3 | 8.3 | 21.5 | 30.4 | 35.7 | 44.5 | 34.8 | 23.8 | 9.3 | 33.1 |
| 1950 | 77.3 | 112.4 | 42.2 | 11.6 | 11.3 | 25.7 | 39.0 | 43.4 | 47.9 | 39.6 | 24.9 | 11.6 | 34.3 |
| 1951 | 84.1 | 125.7 | 45.1 | 14.7 | 11.4 | 28.7 | 35.8 | 43.2 | 47.0 | 39.2 | 25.4 | 13.1 | 35.0 |
| 1952 | 76.8 | 110.6 | 44.0 | 16.0 | 13.0 | 33.3 | 30.7 | 42.7 | 49.5 | 38.9 | 25.3 | 13.7 | 35.7 |
| 1953 | 87.0 | 127.5 | 49.6 | 16.7 | 14.9 | 41.8 | 38.7 | 45.1 | 50.1 | 39.9 | 26.5 | 14.8 | 36.4 |
| 1954 .. | 70.4 | 99.1 | 44.7 | 14.2 | 13.3 | 36.4 | 33.3 | 44.8 | 49.5 | 37.3 | 27.6 | 15.0 | 37.2 |
| 1955 .. | 91.5 | 131.8 | 51.0 | 15.6 | 15.3 | 41.9 | 44.6 | 50.1 | 54.7 | 42.5 | 30.3 | 17.6 | 39.3 |
| 1956 .. | 90.9 | 129.3 | 51.8 | 17.9 | 16.5 | 40.6 | 36.2 | 49.5 | 56.0 | 43.7 | 32.3 | 18.9 | 41.5 |
| 1957. | 87.1 | 124.6 | 53.1 | 17.9 | 16.4 | 43.5 | 38.0 | 45.4 | 55.8 | 41.6 | 33.4 | 19.9 | 42.2 |
| $1958$ | 69.0 | 93.9 | 47.6 | 15.0 | 15.0 | 34.3 | 28.0 | 46.1 | 54.3 | 41.1 | 32.6 | 20.6 | 43.2 |
| 1959 | 80.7 | 108.1 | 53.4 | 17.5 | 18.2 | 38.9 | 36.4 | 52.3 | 59.7 | 46.4 | 34.8 | 24.0 | 45.4 |
| 1960 | 80.4 | 109.9 | 53.4 | 17.6 | 19.8 | 40.3 | 41.1 | 49.3 | 60.9 | 45.6 | 36.2 | 24.9 | 46.6 |
| 1961 | 78.9 | 104.9 | 52.1 | 17.1 | 21.0 | 37.8 | 36.0 | 51.6 | 61.3 | 46.9 | 36.4 | 26.1 | 47.9 |
| 1962 | 84.6 | 109.3 | 56.7 | 19.2 | 24.1 | 43.7 | 43.9 | 54.4 | 63.8 | 50.1 | 37.7 | 29.0 | 49.5 |
| 1963 | 91.2 | 119.1 | 58.5 | 20.5 | 24.8 | 48.0 | 48.6 | 56.9 | 66.4 | 51.9 | 39.7 | 31.7 | 51.2 |
| 1964 | 102.9 | 135.5 | 62.1 | 23.3 | 26.2 | 49.2 | 49.9 | 61.1 | 68.7 | 56.0 | 42.1 | 34.8 | 53.6 |
| 1965 | 113.2 | 148.7 | 68.3 | 26.2 | 31.3 | 58.5 | 63.7 | 63.5 | 72.6 | 61.0 | 44.8 | 38.7 | 54.8 |
| 1966 | 120.2 | 153.1 | 73.1 | 30.5 | 37.5 | 62.7 | 62.6 | 65.9 | 74.5 | 64.7 | 48.3 | 42.2 | 56.9 |
| 1967 | 111.1 | 141.5 | 76.5 | 31.1 | 37.7 | 61.3 | 55.1 | 65.3 | 74.1 | 64.8 | 50.9 | 44.2 | 59.4 |
| 1968 | 115.1 | 146.1 | 80.6 | 31.3 | 39.8 | 66.6 | 66.0 | 67.2 | 76.0 | 72.3 | 51.7 | 49.6 | 61.0 |
| 1969 | 123.8 | 159.2 | 81.9 | 33.9 | 42.3 | 66.1 | 66.3 | 67.1 | 78.4 | 76.0 | 54.2 | 53.7 | 63.0 |
| 1970 | 115.2 | 148.2 | 75.9 | 32.8 | 40.5 | 55.5 | 53.3 | 66.7 | 75.3 | 74.4 | 52.7 | 55.9 | 64.0 |
| 1971 | 109.2 | 135.5 | 75.6 | 30.5 | 40.7 | 60.1 | 66.9 | 68.5 | 76.2 | 78.5 | 53.2 | 59.5 | 66.0 |
| 1972 | 122.4 | 150.6 | 82.9 | 35.4 | 46.5 | 64.1 | 73.0 | 78.4 | 80.9 | 86.0 | 56.7 | 66.9 | 69.5 |
| 1973 | 138.9 | 171.5 | 92.1 | 41.4 | 53.0 | 73.0 | 85.0 | 78.7 | 81.5 | 89.6 | 58.3 | 73.1 | 70.9 |
| 1974 | 134.5 | 166.1 | 88.4 | 44.1 | 52.4 | 66.4 | 73.4 | 71.4 | 77.9 | 81.5 | 57.4 | 75.8 | 71.9 |
| 1975 | 107.2 | 133.5 | 76.7 | 38.1 | 45.1 | 59.7 | 62.2 | 66.5 | 71.1 | 77.7 | 53.7 | 69.1 | 71.4 |
| 1976 | 119.9 | 147.1 | 84.9 | 40.0 | 50.7 | 68.0 | 81.9 | 75.6 | 83.9 | 86.3 | 58.7 | 77.3 | 75.5 |
| 1977 | 121.5 | 145.1 | 92.7 | 45.1 | 58.4 | 73.7 | 94.7 | 82.3 | 91.6 | 91.6 | 64.3 | 83.3 | 79.0 |
| 1978 | 130.7 | 155.3 | 96.2 | 50.2 | 64.0 | 79.5 | 99.2 | 83.6 | 93.9 | 92.0 | 68.1 | 88.0 | 81.8 |
| 1979 | 133.0 | 156.5 | 99.5 | 56.9 | 71.3 | 81.0 | 91.0 | 82.4 | 89.0 | 95.0 | 69.9 | 91.3 | 82.6 |
| 1980 | 110.8 | 126.0 | 92.5 | 60.6 | 73.3 | 72.3 | 67.0 | 76.9 | 89.2 | 92.1 | 70.3 | 87.8 | 84.6 |
| 1981 | 117.5 | 135.1 | 91.1 | 65.9 | 75.4 | 68.7 | 64.4 | 74.7 | 91.0 | 89.4 | 72.1 | 89.2 | 86.5 |
| 1982 | 83.2 | 86.2 | 83.2 | 63.9 | 75.9 | 64.8 | 58.8 | 67.3 | 90.1 | 83.0 | 75.2 | 81.8 | 87.7 |
| 1983 | 91.0 | 96.1 | 85.5 | 64.3 | 80.3 | 72.7 | 74.5 | 79.9 | 93.8 | 93.2 | 79.0 | 87.5 | 90.1 |
| 1984 | 102.4 | 105.9 | 93.3 | 80.8 | 94.1 | 83.1 | 90.6 | 86.0 | 95.7 | 93.7 | 84.5 | 91.4 | 92.1 |
| 1985 | 101.8 | 104.5 | 94.5 | 86.8 | 93.1 | 91.8 | 99.0 | 88.0 | 92.6 | 89.7 | 87.6 | 91.4 | 94.9 |
| 1986 | 93.7 | 90.8 | 93.8 | 90.3 | 94.3 | 96.9 | 98.5 | 95.1 | 96.3 | 93.9 | 90.6 | 94.6 | 97.4 |
| 1987 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1988 | 108.7 | 112.7 | 104.2 | 113.0 | 108.5 | 105.2 | 105.7 | 100.1 | 98.1 | 98.6 | 100.9 | 106.0 | 101.5 |
| 1989 | 107.2 | 111.2 | 102.8 | 117.3 | 111.0 | 109.6 | 106.9 | 99.4 | 95.0 | 100.3 | 101.1 | 109.2 | 102.5 |
| 1990 | 106.5 | 111.5 | 99.5 | 117.6 | 111.4 | 107.0 | 101.0 | 97.1 | 92.2 | 97.1 | 100.8 | 111.8 | 103.7 |
| 1991 | 98.6 | 100.5 | 94.5 | 114.7 | 113.9 | 101.1 | 94.4 | 90.2 | 92.7 | 96.5 | 97.0 | 110.5 | 105.3 |
| 1992 | 101.9 | 104.7 | 99.0 | 124.0 | 123.5 | 104.8 | 107.4 | 95.2 | 95.0 | 104.0 | 98.1 | 114.4 | 106.9 |
| 1993 | 107.7 | 111.9 | 103.1 | 138.1 | 134.1 | 109.2 | 122.9 | 97.1 | 97.1 | 109.9 | 98.8 | 115.4 | 109.5 |
| 1994 | 116.4 | 119.3 | 110.5 | 157.7 | 154.3 | 115.3 | 141.2 | 104.0 | 100.1 | 113.5 | 100.1 | 121.3 | 113.2 |
| 1995 p | 119.3 | 122.2 | 114.0 | 177.6 | 175.0 | 113.3 | 141.9 | 104.5 | 95.8 | 112.7 | 99.4 | 125.0 | 115.2 |
| 1994:Jan | 110.1 | 110.9 | 106.4 | 148.3 | 142.1 | 114.8 | 138.9 | 101.8 | 97.0 | 110.9 | 98.1 | 116.4 | 111.3 |
| Feb | 113.3 | 117.0 | 106.6 | 149.3 | 144.5 | 116.3 | 143.0 | 101.2 | 97.7 | 110.5 | 99.1 | 118.7 | 110.3 |
| Mar .. | 113.4 | 116.8 | 108.3 | 151.8 | 147.3 | 115.0 | 139.8 | 101.6 | 98.9 | 111.7 | 100.3 | 119.9 | 113.2 |
| Apr .............. | 116.8 | 122.3 | 109.0 | 152.9 | 149.7 | 115.0 | 139.6 | 102.4 | 99.6 | 113.7 | 100.0 | 120.1 | 113.1 |
| May ............ | 117.8 | 123.3 | 109.5 | 154.8 | 151.2 | 114.1 | 137.3 | 104.1 | 100.1 | 112.3 | 100.0 | 122.5 | 113.0 |
| June ............ | 115.6 | 118.3 | 110.2 | 155.8 | 153.3 | 114.2 | 138.0 | 104.6 | 100.7 | 113.0 | 100.5 | 122.6 | 112.9 |
| July ............ | 116.7 | 119.6 | 111.3 | 158.2 | 156.2 | 112.1 | 134.8 | 105.4 | 101.0 | 116.1 | 100.5 | 122.0 | 113.8 |
| Aug ............ | 113.6 | 112.4 | 111.7 | 161.2 | 158.1 | 115.6 | 142.5 | 104.2 | 100.8 | 113.3 | 99.7 | 122.3 | 113.5 |
| Sept ............ | 118.1 | 120.3 | 111.9 | 162.7 | 159.0 | 114.8 | 141.5 | 105.7 | 101.1 | 114.1 | 100.2 | 120.6 | 113.7 |
| Oct .............. | 119.7 | 122.9 | 112.3 | 164.7 | 161.1 | 115.7 | 142.9 | 105.1 | 101.9 | 115.5 | 100.9 | 122.1 | 113.8 |
| Nov ............. | 120.0 | 122.6 | 113.3 | 165.9 | 162.8 | 116.3 | 144.1 | 104.3 | 101.0 | 115.9 | 101.3 | 123.2 | 114.8 |
| Dec ............ | 122.8 | 127.4 | 114.8 | 167.5 | 166.3 | 117.3 | 145.9 | 108.6 | 101.6 | 116.6 | 100.7 | 124.7 | 114.9 |
| 1995: Jan | 121.5 | 125.5 | 114.3 | 171.4 | 166.7 | 117.8 | 147.3 | 107.1 | 100.6 | 117.2 | 100.1 | 126.2 | 115.9 |
| Feb .............. | 120.8 | 124.9 | 115.0 | 171.8 | 167.7 | 118.5 | 148.4 | 105.0 | 99.8 | 115.9 | 100.3 | 124.7 | 114.2 |
| Mar ............ | 121.3 | 125.8 | 114.3 | 172.4 | 169.4 | 118.0 | 147.6 | 103.9 | 99.3 | 116.2 | 99.3 | 125.0 | 115.0 |
| Apr .............. | 120.2 | 123.5 | 112.3 | 174.3 | 169.6 | 115.7 | 143.0 | 103.9 | 97.4 | 117.2 | 99.2 | 123.5 | 115.1 |
| May ............ | 119.5 | 123.0 | 113.7 | 174.6 | 171.1 | 113.2 | 138.8 | 101.7 | 97.5 | 113.6 | 99.0 | 124.0 | 115.9 |
| June .... | 117.5 | 119.2 | 113.7 | 174.4 | 173.0 | 113.4 | 139.7 | 103.0 | 95.5 | 110.4 | 98.6 | 124.4 | 116.1 |
| July | 118.3 | 119.3 | 112.4 | 176.0 | 175.7 | 111.6 | 136.7 | 103.7 | 94.8 | 109.9 | 99.0 | 124.0 | 115.3 |
| Aug | 115.4 | 117.7 | 114.3 | 179.5 | 178.7 | 114.1 | 142.1 | 103.7 | 94.5 | 112.4 | 100.5 | 124.4 | 115.5 |
| Sept | 121.0 | 127.0 | 115.1 | 181.3 | 180.8 | 114.1 | 143.3 | 106.2 | 94.5 | 110.5 | 99.8 | 125.3 | 115.5 |
| Oct $p$ | 115.8 | 115.5 | 114.1 | 183.9 | 182.3 | 109.3 | 139.7 | 105.5 | 93.0 | 111.2 | 99.2 | 126.9 | 115.3 |
| Nov ${ }^{\text {p }}$........... | 121.8 | 125.0 | 114.8 | 186.3 | 183.8 | 108.4 | 140.6 | 105.2 | 92.6 | 110.1 | 99.5 | 125.8 | 114.8 |
| $\operatorname{Dec}^{p} \ldots . . . . . . . .$. | 119.8 | 121.7 | 114.9 | 187.7 | 183.7 | 109.5 | 141.0 | 105.6 | 92.6 | 109.2 | 98.7 | 125.9 | 114.4 |

Table B-50.-C Capacity utilization rates, 1948-95
[Percent;1 monthly data seasonally adjusted]

| Year or month | $\begin{aligned} & \text { Total } \\ & \text { industry } \end{aligned}$ | Manufacturing |  |  |  |  | Mining | Utilities |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Durable goods | Nondurable goods | Primary processing | Advanced processing |  |  |
|  | ................. | 82.5 |  | $\qquad$ | $\begin{aligned} & 87.3 \\ & 76.2 \end{aligned}$ | $\begin{aligned} & 80.0 \\ & 73.2 \end{aligned}$ |  | ..................$\cdots . . . . . . . . . . . . . . ~$ |
| 1950 .. |  | 82.8 |  |  | 88.5 | 79.8 |  |  |
| 1951 | ........ | 85.8 | ..... | .-.............. | 90.2 | 83.4 | ...... | ${ }^{\text {and................. }}$ |
| 1952 .................................... | ................ | 85.4 | ............ | .............. | 84.9 | 85.9 | .............. | ........... |
| 1953 ....................................... | ..... | 89.3 | .... | ............. | 89.4 | 89.3 | ……......... | ................ |
| 1954 .................................. | ............. | 887.1 | ............ | .............. | 80.6 | 80.0 | ....... | ...... |
| 1956 ......................... | .... | 86.1 | $\ldots$ | ............... | 89.4 | 884 | ....... | ............... |
| 1957 .................................... | .............. | 83.6 | ............ | ................ | 84.7 | 83.1 | ....... | ........ |
| 1958 ..................................... | .... | 75.0 | .... | ............. | 75.4 | 74.9 | -...)............. | ${ }_{\text {a }}$ |
| 1959 ..................................... |  | 81.6 |  | ............... | 83.0 | 81.1 |  |  |
| 1960 ... |  | 80.1 |  |  | 79.8 | 80.5 |  |  |
| 1961 .................................... | .............. | 71.3 | .... | ........ | 77.9 | 71.2 | ....... | ..... |
| 1963 ............................................. | ................ | 83.5 | ................... | ................. | ${ }_{8}^{81.8}$ | 883.4 | ....... |  |
| 1964 ...................................... | .... | 85.6 | ......... | ........... | 87.8 | 84.6 | ........ | ..... |
| 1965 .................................. | ................. | 89.5 | ................. | ................. | 91.0 | 88.8 | ................. |  |
| 1967 .... | 86.4 | 87.2 | 87.1 | 86.3 | 85.4 | 88.0 | 81.2 | 93.4 |
| 1968 ............................. | 86.8 | 87.2 | 86.8 | 86.6 | 86.3 | 87.4 | 83.5 | 94.1 |
| 1969 ................................... | 86.9 | 86.8 | 86.3 | 86.6 | 86.9 | 86.5 | 86.6 | 95.8 |
| 1970 ..... | 80.8 | 79.7 | 76.7 | 82.9 | 80.4 | 79.1 | 88.9 | 95.4 |
| 1971 ..... | 79.2 | 78.2 | 74.3 | 82.8 | 79.3 | 77.4 | 87.4 | 93.9 |
| 1972 .................................... | 84.3 | 83.7 | 80.9 | 86.6 | 86.4 | 82.5 | 90.4 | 94.6 |
| 1973 ..................................... | 88.4 | 88.1 | 87.5 | 87.5 | 91.5 | 86.5 | 92.5 | 92.9 |
| 1974 ..................................... | 84.2 | 83.8 | 82.7 | 84.0 | 86.0 | 82.8 | 92.5 | 86.8 |
| 1975 .................................. | 74.6 | 73.2 | 70.2 | 76.4 | 72.9 | 73.5 | 89.9 | 84.0 |
| 1976 ....................................... | 79.3 | 78.5 | 75.4 | 81.8 | 80.1 | 77.8 | 90.0 | 84.8 |
| 1977 ................................. | 83.3 | 82.8 | 80.3 | 85.2 | 84.0 | 81.9 | 90.9 | 84.6 |
| 1978 ....................................... | 85.5 | 85.1 | 83.5 | 86.2 | 86.3 | 84.3 | 91.3 | 84.8 |
| 1979 ....................................... | 86.2 | 85.4 | 84.9 | 85.1 | 86.4 | 84.8 | 91.9 | 85.9 |
|  | 82.1 80.9 | 80.2 78.8 | 78.6 76.6 | 81.4 81.0 | 78.0 78.0 | 81.3 79.1 | 94.0 94.6 | 85.5 82.8 |
| 1982 ...................... | 75.0 | 72.8 | 69.0 | 78.0 | 69.0 | 74.6 | 86.5 | 79.5 |
| 1983 ................................... | 75.8 | 74.9 | 70.5 | 81.1 | 74.8 | 74.9 | 79.9 | 80.3 |
| $1984 . . . .$. | 81.1 | 80.4 | 78.3 | 83.1 | 80.4 | 80.3 | 84.4 | 82.5 |
| 1985 ..................................... | 80.3 | 79.5 | 77.8 | 81.9 | 79.8 | 79.4 | 82.9 | 83.5 |
| 1986 ........................................ | 79.2 | 79.1 | 76.2 | 83.0 | 80.9 | 78.3 | 78.2 | 80.2 |
| 1987 ...................................... | 81.5 | 81.6 | 78.6 | 85.6 | 84.9 | 80.1 | 79.9 | 82.0 |
|  | 83.7 83.7 | 83.6 83.2 | 81.9 81.6 | 85.9 85.3 | 86.9 86.2 | 82.2 82.0 | 88.1 | 84.2 86.0 |
| 1990 ...................................... | 82.1 | 81.3 | 79.1 | 84.0 | 84.1 | 80.1 | 88.4 |  |
| 1991 ...................................... | 79.2 | 78.0 | 75.0 | 81.6 | 79.8 | 77.2 | 87.4 | 85.8 |
| 1992 ....................................... | 80.3 | 79.5 | 76.9 | 82.5 | 82.4 | 78.2 | 86.9 | 84.7 |
| 1993 ................................... | 81.4 | 80.6 83 | 79.1 826 | 82.3 | 84.1 | 79.0 | 87.0 | 87.0 |
| $1995 p$............................................... | 883.7 | 883.0 | 82.9 | 883.0 | 87.4 | 81.1 | 89.1 | 90.4 |
| 1994:Jan ................................. |  |  |  |  |  | 80.0 |  |  |
| Feb ............................... | 83.0 | 82.2 | 81.7 | 82.7 | 86.0 | 80.5 | 88.9 | 89.0 |
| Mar .............................. | 83.5 | 82.8 | 81.9 | 83.8 | 86.8 | 81.0 | 90.1 | 87.5 |
|  | 83.6 83.8 | 83.0 83.2 | 82.3 82.3 | 83.8 <br> 84.3 | 87.4 88.1 | 81.1 81.1 | 89.9 90.1 | 86.1 86.1 |
| June ............................ | 84.0 | 83.2 | 82.3 | 84.2 | 87.9 | 81.2 | 90.3 | 89.6 |
| July .... |  |  |  |  |  |  |  |  |
| Aug .............................. | 84.2 | 83.6 | 83.0 | 84.1 | 88.2 | 81.6 | 89.8 | 88.0 |
| Sept ................................ | 84.0 | 83.5 | 83.1 | 83.9 | 88.5 | 81.4 | 89.8 | 87.2 |
| Oct ................................. | 84.4 | 83.9 | 83.5 | 84.4 | 88.6 | 82.0 | 88.9 | 87.4 |
| NoV ............................ | 84.6 | 84.2 | 83.7 | 84.8 | 89.1 | 82.1 | 89.2 | ${ }_{86}^{87.0}$ |
| Dec ............................ | 85.1 | 84.7 | 84.4 | 85.0 | 90.2 | 82.4 | 89.9 | 86.8 |
| 1995:Jan ..... | 85.1 | 84.6 |  |  |  |  |  |  |
| Feb ............................. | 84.7 84.6 | 84.2 | 84.2 | 84.1 | 89.3 | 82.0 | 90.0 | 88.2 |
|  | 84.6 84.0 | 84.0 83.3 | 83.2 | 83.5 | 888.2 | 81.3 | 89.8 | 88.2 |
| May .............................. | 83.7 | 82.8 | 82.5 | 83.2 | 87.7 | 80.8 | 89.7 | 90.6 |
| June ................................ | 83.5 | 82.6 | 82.3 | 83.0 | 86.9 | 80.8 | 90.1 | 89.7 |
| July .............................. | 83.3 | 82.3 | 82.0 | 82.7 | 86.6 | 80.5 | 89.9 | 90.8 |
| Aug .............................. | 83.8 | 82.6 | 82.6 | 82.6 | 86.1 | 81.2 | 89.2 | 95.3 |
| Sept .......................... | 83.6 83 | 82.8 | 83.0 | 82.4 | 86.8 | 81.1 | 89.2 | 90.7 |
| Oct $p$........................... | 83.0 83.0 | 82.2 82.1 | 82.0 82.3 | 82.3 81.7 | ${ }_{86.1}^{86.1}$ | 80.5 80.3 | 87.5 87.2 | 91.0 92.3 |
| $\operatorname{Dec} p$............................ | 82.8 | 81.8 | 82.2 | 81.3 | 86.0 | 80.1 | 87.0 | 92.5 |

## ${ }^{1}$ Output as percent of capacity.

Source: Board of Governors of the Federal Reserve System.

Table B-51.-N ew construction activity, 1959-95
[Value put in place, billions of dollars; monthly data at seasonally adjusted annual rates]

| Year or month | $\begin{aligned} & \text { Total } \\ & \text { new } \\ & \text { construc- } \\ & \text { tion } \end{aligned}$ | Private construction |  |  |  |  |  |  | Public construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Residential buildings ${ }^{1}$ |  | Nonresidential buildings and other construction ${ }^{1}$ |  |  |  | Total | Federal | State and local ${ }^{5}$ |
|  |  |  | Total ${ }^{2}$ | New housing units | Total | Com- <br> mer- <br> cial ${ }^{3}$ | Industrial | Other ${ }^{4}$ |  |  |  |
| 1959 | 55.4 | 39.3 | 24.3 | 19.2 | 15.1 | 3.9 | 2.1 | 9.0 | 16.1 | 3.7 | 12.3 |
| 1960 | 54.7 | 38.9 | 23.0 | 17.3 | 15.9 | 4.2 | 2.9 | 8.9 | 15.9 | 3.6 | 12.2 |
| 1961 | 56.4 | 39.3 | 23.1 | 17.1 | 16.2 | 4.7 | 2.8 | 8.7 | 17.1 | 3.9 | 13.3 |
| 1962 | 60.2 | 42.3 | 25.2 | 19.4 | 17.2 | 5.1 | 2.8 | 9.2 | 17.9 | 3.9 | 14.0 |
| 1963 | 64.8 | 45.5 | 27.9 | 21.7 | 17.6 | 5.0 | 2.9 | 9.7 | 19.4 | 4.0 | 15.4 |
| New series |  |  |  |  |  |  |  |  |  |  |  |
| 1964 | 72.1 | 51.9 | 30.5 | 24.1 | 21.4 | 6.8 | 3.6 | 11.0 | 20.2 | 3.7 | 16.5 |
| 1965 | 78.0 | 56.1 | 30.2 | 23.8 | 25.8 | 8.1 | 5.1 | 12.6 | 21.9 | 3.9 | 18.0 |
| 1966 | 81.2 | 57.4 | 28.6 | 21.8 | 28.8 | 8.1 | 6.6 | 14.1 | 23.8 | 3.8 | 20.0 |
| 1967 | 83.0 | 57.6 | 28.7 | 21.5 | 28.8 | 8.0 | 6.0 | 14.9 | 25.4 | 3.3 | 22.1 |
| 1968 | 92.4 | 65.0 | 34.2 | 26.7 | 30.8 | 9.0 | 6.0 | 15.8 | 27.4 | 3.2 | 24.2 |
| 1969 | 99.8 | 72.0 | 37.2 | 29.2 | 34.8 | 10.8 | 6.8 | 17.2 | 27.8 | 3.2 | 24.6 |
| 1970 | 100.7 | 72.8 | 35.9 | 27.1 | 37.0 | 11.2 | 6.6 | 19.2 | 27.9 | 3.1 | 24.8 |
| 1971 | 117.3 | 87.6 | 48.5 | 38.7 | 39.1 | 13.1 | 5.5 | 20.5 | 29.7 | 3.8 | 25.9 |
| 1972 | 133.3 | 103.3 | 60.7 | 50.1 | 42.6 | 15.7 | 4.8 | 22.1 | 30.0 | 4.2 | 25.8 |
| 1973 | 146.8 | 114.5 | 65.1 | 54.6 | 49.4 | 18.1 | 6.4 | 24.9 | 32.3 | 4.7 | 27.6 |
| 1974 | 147.5 | 109.3 | 56.0 | 43.4 | 53.4 | 18.1 | 8.1 | 27.2 | 38.1 | 5.1 | 33.0 |
| 1975 | 145.6 | 102.3 | 51.6 | 36.3 | 50.7 | 14.3 | 8.3 | 28.2 | 43.3 | 6.1 | 37.2 |
| 1976 | 165.4 | 121.5 | 68.3 | 50.8 | 53.2 | 14.1 | 7.4 | 31.6 | 44.0 | 6.8 | 37.2 |
| 1977 | 193.1 | 150.0 | 92.0 | 72.2 | 58.0 | 16.4 | 8.0 | 33.7 | 43.1 | 7.1 | 36.0 |
| 1978 | 230.2 | 180.0 | 109.8 | 85.6 | 70.2 | 20.6 | 11.5 | 38.2 | 50.1 | 8.1 | 42.0 |
| 1979 | 259.8 | 203.2 | 116.4 | 89.3 | 86.8 | 28.3 | 15.6 | 42.8 | 56.6 | 8.6 | 48.1 |
| 1980 | 259.7 | 196.1 | 100.4 | 69.6 | 95.7 | 34.6 | 14.6 | 46.6 | 63.6 | 9.6 | 54.0 |
| 1981 | 272.0 | 207.3 | 99.2 | 69.4 | 108.0 | 40.2 | 18.0 | 49.8 | 64.7 | 10.4 | 54.3 |
| 1982 | 260.6 | 197.5 | 84.7 | 57.0 | 112.9 | 44.1 | 18.5 | 50.2 | 63.1 | 10.0 | 53.1 |
| 1983 | 294.9 | 231.5 | 125.5 | 94.6 | 106.0 | 43.9 | 13.8 | 48.2 | 63.5 | 10.6 | 52.9 |
| 1984 | 348.8 | 278.6 | 153.8 | 113.8 | 124.8 | 59.1 | 14.8 | 50.8 | 70.2 | 11.2 | 59.0 |
| 1985 | 377.4 | 299.5 | 158.5 | 114.7 | 141.1 | 72.6 | 17.1 | 51.3 | 77.8 | 12.0 | 65.8 |
| 1986 | 407.7 | 323.1 | 187.1 | 133.2 | 136.0 | 69.5 | 14.9 | 51.6 | 84.6 | 12.4 | 72.2 |
| 1987 | 419.4 | 328.7 | 194.7 | 139.9 | 134.1 | 68.9 | 15.0 | 50.1 | 90.6 | 14.1 | 76.6 |
| 1988 | 432.3 | 337.5 | 198.1 | 138.9 | 139.4 | 71.5 | 16.5 | 51.5 | 94.7 | 12.3 | 82.5 |
| 1989 | 443.7 | 345.5 | 196.6 | 139.2 | 148.9 | 73.9 | 20.4 | 54.6 | 98.2 | 12.2 | 86.0 |
| 1990 | 442.2 | 334.7 | 182.9 | 128.0 | 151.8 | 72.5 | 23.8 | 55.4 | 107.5 | 12.1 | 95.4 |
| 1991 | 403.4 | 293.3 | 157.8 | 110.6 | 135.5 | 54.8 | 22.3 | 58.4 | 110.1 | 12.8 | 97.3 |
| 1992 | 435.0 | 315.7 | 187.9 | 129.6 | 127.8 | 45.0 | 20.7 | 62.1 | 119.3 | 14.4 | 104.9 |
| 1993 | 464.5 | 339.2 | 210.5 | 144.1 | 128.7 | 46.9 | 19.5 | 62.3 | 125.3 | 14.4 | 110.9 |
| 1994 | 506.9 | 376.6 | 238.9 | 167.9 | 137.7 | 52.7 | 21.1 | 63.9 | 130.3 | 14.4 | 116.0 |
| 1994: Jan ........................ | 487.2 | 360.2 | 228.7 | 159.8 | 131.5 | 48.2 | 19.2 | 64.1 | 127.0 | 14.1 | 112.9 |
| Feb .......................... | 488.9 | 363.0 | 232.5 | 163.4 | 130.5 | 46.6 | 19.7 | 64.2 | 125.9 | 15.0 | 110.9 |
| Mar ....................... | 493.9 | 369.5 | 235.4 | 165.7 | 134.1 | 50.4 | 20.1 | 63.6 | 124.4 | 12.5 | 111.9 |
| Apr ......................... | 495.6 | 371.1 | 237.5 | 167.9 | 133.6 | 52.0 | 20.5 | 61.0 | 124.5 | 13.0 | 111.5 |
| May ........................ | 501.2 | 374.8 | 239.9 | 169.7 | 135.0 | 53.0 | 20.4 | 61.5 | 126.3 | 13.3 | 113.0 |
| June ...................... | 505.8 | 377.0 | 239.8 | 169.1 | 137.2 | 52.6 | 20.1 | 64.5 | 128.8 | 14.0 | 114.8 |
| July ....................... | 509.6 | 378.4 | 240.5 | 170.0 | 137.9 | 52.0 | 20.2 | 65.7 | 131.2 | 13.6 | 117.6 |
| Aug ........................ | 509.9 | 379.7 | 240.1 | 169.3 | 139.6 | 52.1 | 21.3 | 66.2 | 130.2 | 14.0 | 116.2 |
| Sept ....................... | 518.3 | 384.5 | 242.2 | 170.6 | 142.2 | 54.5 | 21.9 | 65.9 | 133.9 | 14.5 | 119.4 |
| Oct ........................ | 521.3 | 382.9 | 240.5 | 168.3 | 142.5 | 55.0 | 21.9 | 65.6 | 138.3 | 16.4 | 121.9 |
| Nov ........................ | 520.2 | 387.1 | 242.4 | 169.3 | 144.6 | 56.3 | 25.1 | 63.2 | 133.1 | 15.4 | 117.7 |
| Dec ....................... | 521.8 | 386.1 | 243.6 | 169.7 | 142.5 | 58.1 | 22.8 | 61.7 | 135.7 | 16.9 | 118.8 |
| 1995: Jan ....................... | 521.1 | 384.8 | 241.9 | 168.6 | 142.9 | 58.6 | 22.7 | 61.5 | 136.2 | 16.0 | 120.3 |
| Feb ....................... | 521.4 | 383.7 | 240.2 | 167.2 | 143.4 | 59.3 | 23.4 | 60.7 | 137.8 | 16.0 | 121.8 |
| Mar ....................... | 523.5 | 383.3 | 237.9 | 163.9 | 145.4 | 60.8 | 23.9 | 60.7 | 140.2 | 16.5 | 123.6 |
| Apr ....................... | 522.1 | 382.2 | 234.1 | 159.8 | 148.1 | 60.3 | 24.7 | 63.1 | 139.9 | 14.8 | 125.1 |
| May ........................ | 514.5 | 376.1 | 231.3 | 156.4 | 144.8 | 57.1 | 24.8 | 62.9 | 138.4 | 15.5 | 122.9 |
| June ...................... | 518.9 | 377.5 | 228.4 | 153.2 | 149.1 | 61.5 | 24.4 | 63.2 | 141.4 | 14.7 | 126.8 |
| July ........................ | 528.2 | 385.2 | 232.4 | 157.6 | 152.8 | 63.5 | 24.4 | 64.9 | 143.0 | 14.6 | 128.3 |
| Aug ....................... | 526.5 | 383.6 | 232.3 | 161.0 | 151.3 | 63.0 | 24.2 | 64.1 | 143.0 | 16.0 | 127.0 |
| Sept $p$..................... | 532.3 | 384.9 | 235.6 | 163.9 | 149.3 | 61.5 | 24.1 | 63.7 | 147.4 | 15.8 | 131.5 |
| Oct $p$...................... | 546.9 | 390.9 | 237.4 | 166.3 | 153.5 | 64.9 | 25.3 | 63.3 | 155.9 | 18.2 | 137.7 |

[^40]TAble B-52.-N ew housing units started and authorized, 1959-95
[Thousands of units]

| Year or month | New housing units started |  |  |  |  |  | New private housing units authorized ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Private and public ${ }^{1}$ |  | Private (farm and nonfarm) ${ }^{1}$ |  |  |  | Total | Type of structure |  |  |
|  | Total (farm and nonfarm) |  | Total | Type of structure |  |  |  | 1 unit | 2 to 4 units | 5 units or more |
|  |  | Nonfarm |  | 1 unit | 2 to 4 units | 5 units or more |  |  |  |  |
| 1959 | 1,553.7 | 1,531.3 | 1,517.0 | 1,234.0 | 282.9 |  | 1,208.3 | 938.3 | 77.1 | 192.9 |
| 1960 | 1,296.1 | 1,274.0 | 1,252.2 | 994.7 | 257.5 |  | 998.0 | 746.1 | 64.6 | 187.4 |
| 1961 | 1,365.0 | 1,336.8 | 1,313.0 | 974.3 | 338.7 |  | 1,064.2 | 722.8 | 67.6 | 273.8 |
| 1962 | 1,492.5 | 1,468.7 | 1,462.9 | 991.4 | 471.5 |  | 1,186.6 | 716.2 | 87.1 | 383.3 |
| 1963 | 1,634.9 | 1,614.8 | 1,603.2 | 1,012.4 | 590.7 |  | 1,334.7 | 750.2 | 118.9 | 465.6 |
| 1964 | 1,561.0 | 1,534.0 | 1,528.8 | 970.5 | 108.4 | 450.0 | 1,285.8 | 720.1 | 100.8 | 464.9 |
| 1965 | 1,509.7 | 1,487.5 | 1,472.8 | 963.7 | 86.6 | 422.5 | 1,239.8 | 709.9 | 84.8 | 445.1 |
| 1966 | 1,195.8 | 1,172.8 | 1,164.9 | 778.6 | 61.1 | 325.1 | 971.9 | 563.2 | 61.0 | 347.7 |
| 1967 | 1,321.9 | 1,298.8 | 1,291.6 | 843.9 | 71.6 | 376.1 | 1,141.0 | 650.6 | 73.0 | 417.5 |
| 1968 | 1,545.4 | 1,521.4 | 1,507.6 | 899.4 | 80.9 | 527.3 | 1,353.4 | 694.7 | 84.3 | 574.4 |
| 1969 | 1,499.5 | 1,482.3 | 1,466.8 | 810.6 | 85.0 | 571.2 | 1,323.7 | 625.9 | 85.2 | 612.7 |
| 1970 | 1,469.0 | $\left.{ }^{3}\right)$ | 1,433.6 | 812.9 | 84.8 | 535.9 | 1,351.5 | 646.8 | 88.1 | 616.7 |
| 1971 | 2,084.5 | (3) | 2,052.2 | 1,151.0 | 120.3 | 780.9 | 1,924.6 | 906.1 | 132.9 | 885.7 |
| 1972 | 2,378.5 | (3) | 2,356.6 | 1,309.2 | 141.3 | 906.2 | 2,218.9 | 1,033.1 | 148.6 | 1,037.2 |
| 1973 | 2,057.5 | (3) | 2,045.3 | 1,132.0 | 118.3 | 795.0 | 1,819.5 | 882.1 | 117.0 | 820.5 |
| 1974 .......................... | 1,352.5 | (3) | 1,337.7 | 888.1 | 68.1 | 381.6 | 1,074.4 | 643.8 | 64.3 | 366.2 |
| 1975 | 1,171.4 | $\left.{ }^{3}\right)$ | 1,160.4 | 892.2 | 64.0 | 204.3 | 939.2 | 675.5 | 63.9 | 199.8 |
| 1976 | 1,547.6 | (3) | 1,537.5 | 1,162.4 | 85.9 | 289.2 | 1,296.2 | 893.6 | 93.1 | 309.5 |
| 1977 | 2,001.7 | (3) | 1,987.1 | 1,450.9 | 121.7 | 414.4 | 1,690.0 | 1,126.1 | 121.3 | 442.7 |
| 1978 | 2,036.1 | (3) | 2,020.3 | 1,433.3 | 125.0 | 462.0 | 1,800.5 | 1,182.6 | 130.6 | 487.3 |
| 1979 | 1,760.0 | (3) | 1,745.1 | 1,194.1 | 122.0 | 429.0 | 1,551.8 | 981.5 | 125.4 | 444.8 |
| 1980 | 1,312.6 | (3) | 1,292.2 | 852.2 | 109.5 | 330.5 | 1,190.6 | 710.4 | 114.5 | 365.7 |
| 1981 | 1,100.3 | (3) | 1,084.2 | 705.4 | 91.1 | 287.7 | 985.5 | 564.3 | 101.8 | 319.4 |
| 1982 | 1,072.1 | (3) | 1,062.2 | 662.6 | 80.0 | 319.6 | 1,000.5 | 546.4 | 88.3 | 365.8 |
| 1983 | 1,712.5 | (3) | 1,703.0 | 1,067.6 | 113.5 | 522.0 | 1,605.2 | 901.5 | 133.6 | 570.1 |
| 1984 | 1,755.8 | (3) | 1,749.5 | 1,084.2 | 121.4 | 544.0 | 1,681.8 | 922.4 | 142.6 | 616.8 |
| 1985 | 1,745.0 | (3) | 1,741.8 | 1,072.4 | 93.4 | 576.1 | 1,733.3 | 956.6 | 120.1 | 656.6 |
| 1986 | 1,807.1 | (3) | 1,805.4 | 1,179.4 | 84.0 | 542.0 | 1,769.4 | 1,077.6 | 108.4 | 583.5 |
| 1987 | 1,622.7 | (3) | 1,620.5 | 1,146.4 | 65.3 | 408.7 | 1,534.8 | 1,024.4 | 89.3 | 421.1 |
| 1988 | (4) | (3) | 1,488.1 | 1,081.3 | 58.8 | 348.0 | 1,455.6 | 993.8 | 75.7 | 386.1 |
| 1989 | (4) | (3) | 1,376.1 | 1,003.3 | 55.2 | 317.6 | 1,338.4 | 931.7 | 67.0 | 339.8 |
| 1990 | (4) | (3) | 1,192.7 | 894.8 | 37.5 | 260.4 | 1,110.8 | 793.9 | 54.3 | 262.6 |
| 1991 | (4) | (3) | 1,013.9 | 840.4 | 35.6 | 137.9 | 948.8 | 753.5 | 43.1 | 152.1 |
| 1992 | (4) | (3) | 1,199.7 | 1,029.9 | 30.7 | 139.0 | 1,094.9 | 910.7 | 45.8 | 138.4 |
| 1993 | (4) | (3) | 1,287.6 | 1,125.7 | 29.4 | 132.6 | 1,199.1 | 986.5 | 52.3 | 160.2 |
| 1994 ......................... | (4) | (3) | 1,457.0 | 1,198.4 | 35.0 | 223.5 | 1,371.6 | 1,068.5 | 62.2 | 241.0 |
|  |  |  | Seasonally adjusted annual rates |  |  |  |  |  |  |  |
| 1994:Jan .................................. | (4) | (3) | 1,266 | 1,122 | 23 | 121 | 1,386 | 1,113 | 68 | 205 |
|  | (4) | (3) | 1,318 | 1,112 | 32 | 174 | 1,271 | 1,063 | 56 | 152 |
| Mar ...................... | (4) | (3) | 1,499 | 1,259 | 30 | 210 | 1,335 | 1,074 | 61 | 200 |
| Apr .................... | $\left.{ }^{4}\right)$ | (3) | 1,463 | 1,209 | 31 | 223 | 1,375 | 1,067 | 61 | 247 |
| May ................... | $\left.{ }^{4}\right)$ | (3) | 1,489 | 1,197 | 31 36 | 256 | 1,377 | 1,101 | 65 | 211 |
| June .................... | (4) | (3) | 1,370 | 1,174 | 18 | 178 | 1,350 | 1,062 | 60 | 228 |
| July ..................... | (4) | (3) | 1,440 | 1,219 | 32 | 2189 | 1,347 | 1,049 | 61 | 237 |
| Aug ...................... | (4) | (3) | 1,463 | 1,174 | 40 | 249 | 1,386 | 1,063 | 59 | 264 |
| Sept .................... | (4) | (3) | 1,511 | 1,235 | 42 | 234 | 1,426 | 1,066 | 61 | 299 |
| Oct .................... | (4) | (3) | 1,451 | 1,164 | 39 | 248 | 1,401 | 1,046 | 69 | 286 |
| Nov ...................... | (4) | (3) | 1,536 | 1,186 | 62 | 288 | 1,358 | 1,025 | 68 | 265 |
| Dec ..................... | (4) | (3) | 1,545 | 1,250 | 33 | 262 | 1,420 | 1,105 | 61 | 254 |
| 1995:Jan ....................... | (4) | (3) | 1,366 | 1,055 | $38 \quad 273$ |  | 1,293 | 990 | 66 | 237 |
| Feb | (4) | (3) | 1,319 | 1,048 | 42 | 229 | 1,282 | 931 | 54 | 297 |
| Mar ..................... | (4) | (3) | 1,238 | 987 | 35 | 216 | 1,235 | 911 | 67 | 257 |
| Apr .................... | $\left.{ }^{4}\right)$ | (3) | 1,269 | 1,009 | 26 | 234 | 1,243 | 905 | 61 | 277 |
| May .................... | (4) | (3) | 1,282 | 988 |  | 258 | 1,243 | 930 | 63 | 250 |
| June .................... | (4) | (3) | 1,298 | 1,034 | 36 33 | 231 | 1,275 | 958 | 65 | 252 |
| July ..................... | (4) | (3) | 1,432 | 1,107 | $40 \quad 285$ |  | 1,355 | 1,011 | 61 | 283 |
| Aug ..................... | (4) | (3) | 1,392 | 1,126 | 28 | 238 | 1,368 | 1,044 | 63 | 261 |
| Sept .................... | (4) | (3) | 1,410 | 1,139 | 40 | 231 | 1,405 | 1,073 | 72 | 260 |
| Oct $p$................... | (4) | (3) | 1,343 | 1,102 | 33 | 208 | 1,384 | 1,051 | 68 | 265 |
| Nov $p$................... | (4) | (3) | 1,420 | 1,102 | 36 | 282 | 1,448 | 1,069 | 73 | 306 |

[^41]Table B-53.-M anufaduring and trade sales and inventories, 1954-95
[Amounts in millions of dollars; monthly data seasonally adjusted]

| Year or month | Total manufacturing and trade |  |  | Manufacturing |  |  | Merchant wholesalers |  |  | Retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sales ${ }^{1}$ | Inventories ${ }^{2}$ | Ratio ${ }^{3}$ | Sales ${ }^{1}$ | Inventories ${ }^{2}$ | Ratio ${ }^{3}$ | Sales ${ }^{1}$ | Inventories ${ }^{2}$ | Ratio ${ }^{3}$ | Sales ${ }^{1}$ | Inventories ${ }^{2}$ | Ratio ${ }^{3}$ |
| 1954 | 46,443 | 73,175 | 1.60 | 23,355 | 41,612 | 1.81 | 8,993 | 10,637 | 1.18 | 14,095 | 20,926 | 1.51 |
| 1955 | 51,694 | 79,516 | 1.47 | 26,480 | 45,069 | 1.62 | 9,893 | 11,678 | 1.13 | 15,321 | 22,769 | 1.43 |
| 1956 | 54,063 | 87,304 | 1.55 | 27,740 | 50,642 | 1.73 | 10,513 | 13,260 | 1.19 | 15,811 | 23,402 | 1.47 |
| 1957 | 55,879 | 89,052 | 1.59 | 28,736 | 51,871 | 1.80 | 10,475 | 12,730 | 1.23 | 16,667 | 24,451 | 1.44 |
| 1958 | 54,201 | 87,055 | 1.61 | 27,248 | 50,203 | 1.84 | 10,257 | 12,739 | 1.24 | 16,696 | 24,113 | 1.44 |
| 1959 | 59,729 | 92,097 | 1.54 | 30,286 | 52,913 | 1.75 | 11,491 | 13,879 | 1.21 | 17,951 | 25,305 | 1.41 |
| 1960 | 60,827 | 94,719 | 1.56 | 30,878 | 53,786 | 1.74 | 11,656 | 14,120 | 1.21 | 18,294 | 26,813 | 1.47 |
| 1961 | 61,159 | 95,580 | 1.56 | 30,922 | 54,871 | 1.77 | 11,988 | 14,488 | 1.21 | 18,249 | 26,221 | 1.44 |
| 1962 | 65,662 | 101,049 | 1.54 | 33,358 | 58,172 | 1.74 | 12,674 | 14,936 | 1.18 | 19,630 | 27,941 | 1.42 |
| 1963 | 68,995 | 105,463 | 1.53 | 35,058 | 60,029 | 1.71 | 13,382 | 16,048 | 1.20 | 20,556 | 29,386 | 1.43 |
| 1964 | 73,682 | 111,504 | 1.51 | 37,331 | 63,410 | 1.70 | 14,529 | 17,000 | 1.17 | 21,823 | 31,094 | 1.42 |
| 1965 | 80,283 | 120,929 | 1.51 | 40,995 | 68,207 | 1.66 | 15,611 | 18,317 | 1.17 | 23,677 | 34,405 | 1.45 |
| 1966 | 87,187 | 136,824 | 1.57 | 44,870 | 77,986 | 1.74 | 16,987 | 20,765 | 1.22 | 25,330 | 38,073 | 1.50 |
| 1967 | 90,820 | 145,681 | 1.60 | 46,486 | 84,646 | 1.82 | 19,576 | 25,786 | 1.32 | 24,757 | 35,249 | 1.42 |
| 1968 | 98,685 | 156,611 | 1.59 | 50,229 | 90,560 | 1.80 | 21,012 | 27,166 | 1.29 | 27,445 | 38,885 | 1.42 |
| 1969 | 105,690 | 170,400 | 1.61 | 53,501 | 98,145 | 1.83 | 22,818 | 29,800 | 1.31 | 29,371 | 42,455 | 1.45 |
| 1970 | 108,221 | 178,594 | 1.65 | 52,805 | 101,599 | 1.92 | 24,167 | 33,354 | 1.38 | 31,249 | 43,641 | 1.40 |
| 1971 | 116,895 | 188,991 | 1.62 | 55,906 | 102,567 | 1.83 | 26,492 | 36,568 | 1.38 | 34,497 | 49,856 | 1.45 |
| 1972 | 131,081 | 203,227 | 1.55 | 63,027 | 108,121 | 1.72 | 29,866 | 40,297 | 1.35 | 38,189 | 54,809 | 1.44 |
| 1973 | 153,677 | 234,406 | 1.53 | 72,931 | 124,499 | 1.71 | 38,115 | 46,918 | 1.23 | 42,631 | 62,989 | 1.48 |
| 1974 | 177,912 | 287,144 | 1.61 | 84,790 | 157,625 | 1.86 | 47,982 | 58,667 | 1.22 | 45,141 | 70,852 | 1.57 |
| 1975 | 182,198 | 288,992 | 1.59 | 86,589 | 159,708 | 1.84 | 46,634 | 57,774 | 1.24 | 48,975 | 71,510 | 1.46 |
| 1976 | 204,150 | 318,345 | 1.56 | 98,797 | 174,636 | 1.77 | 50,698 | 64,622 | 1.27 | 54,655 | 79,087 | 1.45 |
| 1977 | 229,513 | 350,706 | 1.53 | 113,201 | 188,378 | 1.66 | 56,136 | 73,179 | 1.30 | 60,176 | 89,149 | 1.48 |
| 1978 | 260,320 | 400,931 | 1.54 | 126,905 | 211,691 | 1.67 | 66,413 | 86,934 | 1.31 | 67,002 | 102,306 | 1.53 |
| 1979 | 297,701 | 452,640 | 1.52 | 143,936 | 242,157 | 1.68 | 79,051 | 99,679 | 1.26 | 74,713 | 110,804 | 1.48 |
| 1980 | 327,233 | 508,924 | 1.56 | 154,391 | 265,215 | 1.72 | 93,099 | 122,631 | 1.32 | 79,743 | 121,078 | 1.52 |
| 1981 | 355,822 | 545,786 | 1.53 | 168,129 | 283,413 | 1.69 | 101,180 | 129,654 | 1.28 | 86,514 | 132,719 | 1.53 |
| 1982 | 347,625 | 573,908 | 1.67 | 163,351 | 311,852 | 1.95 | 95,211 | 127,428 | 1.36 | 89,062 | 134,628 | 1.49 |
| 1983 | 369,286 | 590,287 | 1.56 | 172,547 | 312,379 | 1.78 | 99,225 | 130,075 | 1.28 | 97,514 | 147,833 | 1.44 |
| 1984 | 410,124 | 649,780 | 1.53 | 190,682 | 339,516 | 1.73 | 112,199 | 142,452 | 1.23 | 107,243 | 167,812 | 1.49 |
| 1985 | 422,583 | 664,089 | 1.56 | 194,538 | 334,799 | 1.73 | 113,459 | 147,409 | 1.28 | 114,586 | 181,881 | 1.52 |
| 1986 | 430,419 | 662,753 | 1.55 | 194,657 | 322,669 | 1.68 | 114,960 | 153,574 | 1.32 | 120,803 | 186,510 | 1.56 |
| 1987 | 457,735 | 709,814 | 1.50 | 206,326 | 338,075 | 1.59 | 122,968 | 163,903 | 1.29 | 128,442 | 207,836 | 1.55 |
| 1988 | 496,079 | 765,270 | 1.49 | 223,541 | 367,422 | 1.58 | 134,521 | 178,801 | 1.30 | 138,017 | 219,047 | 1.54 |
| 1989 | 523,065 | 811,154 | 1.52 | 232,724 | 386,911 | 1.64 | 143,760 | 187,009 | 1.28 | 146,581 | 237,234 | 1.58 |
| 1990 | 542,682 | 834,391 | 1.52 | 239,459 | 399,068 | 1.65 | 149,506 | 195,550 | 1.29 | 153,718 | 239,773 | 1.55 |
| 1991 | 538,485 | 829,685 | 1.54 | 235,518 | 386,348 | 1.67 | 148,306 | 200,062 | 1.33 | 154,661 | 243,275 | 1.54 |
| 1992 | 561,293 | 838,895 | 1.49 | 244,511 | 379,238 | 1.57 | 154,150 | 207,663 | 1.32 | 162,632 | 251,994 | 1.52 |
| 1993 | 593,076 | 860,979 | 1.44 | 258,520 | 377,425 | 1.47 | 161,681 | 215,878 | 1.31 | 172,875 | 267,676 | 1.51 |
| 1994 ....... | 639,770 | 916,550 | 1.39 | 280,835 | 391,810 | 1.37 | 172,521 | 234,722 | 1.30 | 186,414 | 290,018 | 1.50 |
| 1994: Jan | 611,246 | 862,844 | 1.41 | 268,330 | 378,908 | 1.41 | 164,963 | 216,890 | 1.31 | 177,953 | 267,046 | 1.50 |
| Feb | 619,760 | 867,093 | 1.40 | 271,815 | 380,068 | 1.40 | 166,382 | 218,326 | 1.31 | 181,563 | 268,699 | 1.48 |
| Mar . | 627,790 | 866,214 | 1.38 | 274,497 | 379,772 | 1.38 | 169,411 | 217,295 | 1.28 | 183,882 | 269,147 | 1.46 |
| Apr | 626,577 | 870,731 | 1.39 | 274,243 | 380,645 | 1.39 | 168,757 | 219,270 | 1.30 | 183,577 | 270,816 | 1.48 |
| May .. | 628,646 | 880,441 | 1.40 | 276,232 | 382,382 | 1.38 | 169,257 | 223,145 | 1.32 | 183,157 | 274,914 | 1.50 |
| June.. | 634,614 | 885,082 | 1.39 | 278,566 | 383,106 | 1.38 | 170,884 | 222,970 | 1.30 | 185,164 | 279,006 | 1.51 |
| July | 632,993 | 890,318 | 1.41 | 275,485 | 386,645 | 1.40 | 172,073 | 225,908 | 1.31 | 185,435 | 277,765 | 1.50 |
| Aug | 652,773 | 896,946 | 1.37 | 288,080 | 387,012 | 1.34 | 176,743 | 226,815 | 1.28 | 187,950 | 283,119 | 1.51 |
| Sept | 650,790 | 902,022 | 1.39 | 286,134 | 386,531 | 1.35 | 175,759 | 228,619 | 1.30 | 188,897 | 286,872 | 1.52 |
| Oct ... | 653,389 | 908,519 | 1.39 | 283,975 | 388,063 | 1.37 | 177,903 | 231,982 | 1.30 | 191,511 | 288,474 | 1.51 |
| Nov ... | 661,571 | 913,799 | 1.38 | 291,191 | 389,988 | 1.34 | 178,711 | 233,824 | 1.31 | 191,669 | 289,987 | 1.51 |
| Dec... | 670,968 | 916,550 | 1.37 | 296,053 | 391,810 | 1.32 | 182,830 | 234,772 | 1.28 | 192,085 | 290,018 | 1.51 |
| 1995:Jan .. | 673,918 | 928,672 | 1.38 | 297,790 | 396,104 | 1.33 | 182,829 | 238,272 | 1.30 | 193,299 | 294,296 | 1.52 |
| Feb ... | 675,480 | 936,091 | 1.39 | 298,556 | 399,726 | 1.34 | 185,056 | 240,365 | 1.30 | 191,868 | 296,000 | 1.54 |
| Mar . | 674,797 | 942,743 | 1.40 | 298,437 | 402,081 | 1.35 | 183,207 | 243,462 | 1.33 | 193,153 | 297,200 | 1.54 |
| Apr | 672,912 | 952,235 | 1.42 | 295,293 | 405,678 | 1.37 | 184,597 | 246,867 | 1.34 | 193,022 | 299,690 | 1.55 |
| May ......... | 678,444 | 956,516 | 1.41 | 297,093 | 408,289 | 1.37 | 186,244 | 247,702 | 1.33 | 195,107 | 300,525 | 1.54 |
| June ........ | 682,958 | 960,157 | 1.41 | 298,712 | 410,011 | 1.37 | 187,472 | 249,813 | 1.33 | 196,774 | 300,333 | 1.53 |
| July .. | 675,776 | 964,894 | 1.43 | 293,474 | 412,423 | 1.41 | 186,232 | 253,060 | 1.36 | 196,070 | 299,411 | 1.53 |
| Aug. | 687,610 | 968,658 | 1.41 | 303,021 | 413,146 | 1.36 | 187,203 | 253,017 | 1.35 | 197,386 | 302,495 | 1.53 |
| Sept .. | 689,804 | 973,482 | 1.41 | 304,280 | 416,177 | 1.37 | 188,303 | 254,063 | 1.35 | 197,221 | 303,242 | 1.54 |
| Oct .......... | 688,407 | 979,840 | 1.42 | 303,155 | 417,816 | 1.38 | 188,517 | 256,134 | 1.36 | 196,735 | 305,890 | 1.55 |
| Nov $p$....... |  |  |  |  |  |  | 189,353 | 255,146 | 1.35 | 198,019 |  |  |

[^42]Source: Department of Commerce, Bureau of the Census

Table B-54.-M anufacturers' shipments and inventories, 1954-95
[Millions of dollars; monthly data seasonally adjusted]

| Year or month | Shipments ${ }^{1}$ |  |  | Inventories ${ }^{2}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Durable goods industries | Nondur- <br> able <br> goods <br> indus- <br> tries | Total | Durable goods industries |  |  |  | Nondurable goods industries |  |  |  |
|  |  |  |  |  | Total | Materials and supplies | Work in process | Finished goods | Total | Materials and supplies | Work <br> in <br> process | Finished goods |
| 1954 | 23,355 | 11,828 | 11,527 | 41,612 | 23,710 | 7,894 | 9,721 | 6,040 | 17,902 | 8,167 | 2,440 | 7,415 |
| 1955 | 26,480 | 14,071 | 12,409 | 45,069 | 26,405 | 9,194 | 10,756 | 6,348 | 18,664 | 8,556 | 2,571 | 7,666 |
| 1956 | 27,740 | 14,715 | 13,025 | 50,642 | 30,447 | 10,417 | 12,317 | 7,565 | 20,195 | 8,971 | 2,721 | 8,622 |
| 1957 | 28,736 | 15,237 | 13,499 | 51,871 | 31,728 | 10,608 | 12,837 | 8,125 | 20,143 | 8,775 | 2,864 | 8,624 |
| 1958 | 27,248 | 13,553 | 13,695 | 50,203 | 30,194 | 9,970 | 12,408 | 7,816 | 20,009 | 8,676 | 2,827 | 8,506 |
| 1959 | 30,286 | 15,597 | 14,689 | 52,913 | 32,012 | 10,709 | 13,086 | 8,217 | 20,901 | 9,094 | 2,942 | 8,865 |
| 1960 | 30,878 | 15,870 | 15,008 | 53,786 | 32,337 | 10,306 | 12,809 | 9,222 | 21,449 | 9,097 | 2,947 | 9,405 |
| 1961 | 30,922 | 15,601 | 15,321 | 54,871 | 32,496 | 10,246 | 13,211 | 9,039 | 22,375 | 9,505 | 3,108 | 9,762 |
| 1962 | 33,358 | 17,247 | 16,111 | 58,172 | 34,565 | 10,794 | 14,124 | 9,647 | 23,607 | 9,836 | 3,304 | 10,467 |
| 1963 | 35,058 | 18,255 | 16,803 | 60,029 | 35,776 | 11,053 | 14,835 | 9,888 | 24,253 | 10,009 | 3,420 | 10,824 |
| 1964 | 37,331 | 19,611 | 17,720 | 63,410 | 38,421 | 11,946 | 16,158 | 10,317 | 24,989 | 10,167 | 3,531 | 11,291 |
| 1965 | 40,995 | 22,193 | 18,802 | 68,207 | 42,189 | 13,298 | 18,055 | 10,836 | 26,018 | 10,487 | 3,825 | 11,706 |
| 1966 | 44,870 | 24,617 | 20,253 | 77,986 | 49,852 | 15,464 | 21,908 | 12,480 | 28,134 | 11,197 | 4,226 | 12,711 |
| 1967 | 46,486 | 25,233 | 21,253 | 84,646 | 54,896 | 16,423 | 24,933 | 13,540 | 29,750 | 11,760 | 4,431 | 13,559 |
| 1968 | 50,229 | 27,624 | 22,605 | 90,560 | 58,732 | 17,344 | 27,213 | 14,175 | 31,828 | 12,328 | 4,852 | 14,648 |
| 1969 | 53,501 | 29,403 | 24,098 | 98,145 | 64,598 | 18,636 | 30,282 | 15,680 | 33,547 | 12,753 | 5,120 | 15,674 |
| 1970 | 52,805 | 28,156 | 24,649 | 101,599 | 66,651 | 19,149 | 29,745 | 17,757 | 34,948 | 13,168 | 5,271 | 16,509 |
| 1971 | 55,906 | 29,924 | 25,982 | 102,567 | 66,136 | 19,679 | 28,550 | 17,907 | 36,431 | 13,686 | 5,678 | 17,067 |
| 1972 | 63,027 | 33,987 | 29,040 | 108,121 | 70,067 | 20,807 | 30,713 | 18,547 | 38,054 | 14,677 | 5,998 | 17,379 |
| 1973 | 72,931 | 39,635 | 33,296 | 124,499 | 81,192 | 25,944 | 35,490 | 19,758 | 43,307 | 18,147 | 6,729 | 18,431 |
| 1974 | 84,790 | 44,173 | 40,617 | 157,625 | 101,493 | 35,070 | 42,530 | 23,893 | 56,132 | 23,744 | 8,189 | 24,199 |
| 1975 | 86,589 | 43,598 | 42,991 | 159,708 | 102,590 | 33,903 | 43,227 | 25,460 | 57,118 | 23,565 | 8,834 | 24,719 |
| 1976 | 98,797 | 50,623 | 48,174 | 174,636 | 111,988 | 37,457 | 46,074 | 28,457 | 62,648 | 25,847 | 9,929 | 26,872 |
| 1977 | 113,201 | 59,168 | 54,033 | 188,378 | 120,877 | 40,186 | 50,226 | 30,465 | 67,501 | 27,387 | 10,961 | 29,153 |
| 1978 | 126,905 | 67,731 | 59,174 | 211,691 | 138,181 | 45,198 | 58,848 | 34,135 | 73,510 | 29,619 | 12,085 | 31,806 |
| 1979 | 143,936 | 75,927 | 68,009 | 242,157 | 160,734 | 52,670 | 69,325 | 38,739 | 81,423 | 32,814 | 13,910 | 34,699 |
| 1980 | 154,391 | 77,419 | 76,972 | 265,215 | 174,788 | 55,173 | 76,945 | 42,670 | 90,427 | 36,606 | 15,884 | 37,937 |
| 1981 | 168,129 | 83,727 | 84,402 | 283,413 | 186,443 | 57,998 | 80,998 | 47,447 | 96,970 | 38,165 | 16,194 | 42,611 |
| 1982 | 163,351 | 79,212 | 84,139 | 311,852 | 200,444 | 59,136 | 86,707 | 54,601 | 111,408 | 44,039 | 18,612 | 48,757 |
| 1983 | 172,547 | 85,481 | 87,066 | 312,379 | 199,854 | 60,325 | 86,899 | 52,630 | 112,525 | 44,816 | 18,691 | 49,018 |
| 1984 | 190,682 | 97,940 | 92,742 | 339,516 | 221,330 | 66,031 | 98,251 | 57,048 | 118,186 | 45,692 | 19,328 | 53,166 |
| 1985 | 194,538 | 101,279 | 93,259 | 334,799 | 218,212 | 64,005 | 98,085 | 56,122 | 116,587 | 44,087 | 19,445 | 53,055 |
| 1986 | 194,657 | 103,238 | 91,419 | 322,669 | 212,006 | 61,409 | 96,926 | 53,671 | 110,663 | 42,309 | 18,124 | 50,230 |
| 1987 | 206,326 | 108,128 | 98,198 | 338,075 | 220,776 | 63,614 | 102,328 | 54,834 | 117,299 | 45,287 | 19,279 | 52,733 |
| 1988 | 223,541 | 117,993 | 105,549 | 367,422 | 241,402 | 69,388 | 112,380 | 59,634 | 126,020 | 49,030 | 20,446 | 56,544 |
| 1989 | 232,724 | 121,703 | 111,022 | 386,911 | 256,065 | 71,942 | 121,919 | 62,204 | 130,846 | 49,632 | 21,261 | 59,953 |
| 1990 | 239,459 | 122,387 | 117,072 | 399,068 | 259,988 | 72,788 | 122,520 | 64,680 | 139,080 | 51,606 | 22,447 | 65,027 |
| 1991 | 235,518 | 119,151 | 116,367 | 386,348 | 249,117 | 69,987 | 115,107 | 64,023 | 137,231 | 51,556 | 21,886 | 63,789 |
| 1992 | 244,511 | 125,553 | 118,958 | 379,238 | 237,717 | 68,165 | 107,140 | 62,412 | 141,521 | 52,194 | 22,887 | 66,440 |
| 1993 | 258,520 | 135,981 | 122,539 | 377,425 | 236,303 | 68,434 | 105,358 | 62,511 | 141,122 | 51,866 | 23,347 | 65,909 |
| 1994 | 280,835 | 151,060 | 129,775 | 391,810 | 247,644 | 74,965 | 105,136 | 67,543 | 144,166 | 52,987 | 23,869 | 67,310 |
| 1994:Jan | 268,330 | 144,709 | 123,621 | 378,908 | 238,172 | 68,157 | 105,770 | 64,245 | 140,736 | 51,434 | 23,349 | 65,953 |
| Feb | 271,815 | 146,260 | 125,555 | 380,068 | 238,832 | 68,803 | 105,305 | 64,724 | 141,236 | 51,485 | 23,278 | 66,473 |
| Mar | 274,497 | 147,388 | 127,109 | 379,772 | 238,195 | 68,780 | 105,075 | 64,340 | 141,577 | 51,785 | 23,417 | 66,375 |
| Apr | 274,243 | 146,932 | 127,311 | 380,645 | 239,164 | 69,576 | 104,959 | 64,629 | 141,481 | 51,705 | 23,205 | 66,571 |
| May | 276,232 | 148,510 | 127,722 | 382,382 | 240,539 | 70,231 | 105,506 | 64,802 | 141,843 | 51,953 | 23,403 | 66,487 |
| June .. | 278,566 | 150,010 | 128,556 | 383,106 | 241,039 | 70,763 | 106,108 | 64,168 | 142,067 | 52,001 | 23,652 | 66,414 |
| July | 275,485 | 146,472 | 129,013 | 386,645 | 243,392 | 71,732 | 106,531 | 65,129 | 143,253 | 52,044 | 23,888 | 67,321 |
| Aug | 288,080 | 155,619 | 132,461 | 387,012 | 244,116 | 72,238 | 106,207 | 65,671 | 142,896 | 52,093 | 23,752 | 67,051 |
| Sept | 286,134 | 154,350 | 131,784 | 386,531 | 243,814 | 72,713 | 105,458 | 65,643 | 142,717 | 52,571 | 23,905 | 66,241 |
| Oct | 283,975 | 152,586 | 131,389 | 388,063 | 244,925 | 73,367 | 105,215 | 66,343 | 143,138 | 52,536 | 24,026 | 66,576 |
| Nov | 291,191 | 157,292 | 133,899 | 389,988 | 246,374 | 74,404 | 104,954 | 67,016 | 143,614 | 52,600 | 24,198 | 66,816 |
| Dec | 296,053 | 159,299 | 136,754 | 391,810 | 247,644 | 74,965 | 105,136 | 67,543 | 144,166 | 52,987 | 23,869 | 67,310 |
| 1995:Jan | 297,790 | 161,079 | 136,711 | 396,104 | 250,251 | 75,524 | 106,765 | 67,962 | 145,853 | 53,554 | 24,014 | 68,285 |
| Feb | 298,556 | 161,206 | 137,350 | 399,726 | 252,124 | 76,486 | 107,115 | 68,523 | 147,602 | 54,315 | 24,223 | 69,064 |
| Mar | 298,437 | 161,571 | 136,866 | 402,081 | 253,237 | 76,627 | 106,903 | 69,707 | 148,844 | 55,255 | 24,183 | 69,406 |
| Apr | 295,293 | 157,970 | 137,323 | 405,678 | 255,334 | 77,494 | 107,840 | 70,000 | 150,344 | 55,714 | 24,283 | 70,347 |
| May | 297,093 | 159,612 | 137,481 | 408,289 | 256,787 | 77,927 | 108,408 | 70,452 | 151,502 | 56,220 | 24,498 | 70,784 |
| June | 298,712 | 160,828 | 137,884 | 410,011 | 257,442 | 78,441 | 107,902 | 71,099 | 152,569 | 56,727 | 24,708 | 71,134 |
| July | 293,474 | 155,919 | 137,555 | 412,423 | 259,532 | 79,171 | 108,897 | 71,464 | 152,891 | 56,852 | 24,790 | 71,249 |
| Aug | 303,021 | 164,196 | 138,825 | 413,146 | 260,091 | 79,903 | 108,762 | 71,426 | 153,055 | 57,007 | 24,737 | 71,311 |
| Sept $p$ | 304,280 | 165,939 | 138,341 | 416,177 | 261,706 | 80,231 | 109,370 | 72,105 | 154,471 | 57,381 | 24,924 | 72,166 |
| Oct $p$.... | 303,155 | 164,629 | 138,526 | 417,816 | 263,508 | 81,459 | 109,490 | 72,559 | 154,308 | 57,124 | 24,836 | 72,348 |

[^43]Note.- Data beginning 1958 are not strictly comparable with earlier data.
Source: Department of Commerce, Bureau of the Census.

Table B-55.-M anufacturers' new and unfilled ordes, 1954-95
[Amounts in millions of dollars; monthly data seasonally adjusted]

| Year or month | New orders ${ }^{1}$ |  |  |  | Unfilled orders ${ }^{2}$ |  |  | Unfilled orders- shipments ratio ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Durable goods industries |  | Nondurable goods industries | Total | Durable goods industries | Nondurable goods industries |  |  |  |
|  |  |  |  | Total |  |  |  | Durable goods industries | Nondurable goods industries |
|  |  | Total | Capital goods industries, nondefense |  |  |  |  |  |  |
| 1954 | 22,335 | 10,768 |  | 11,566 | 48,266 | 45,250 | 3,016 | 3.42 | 4.12 | 0.96 |
| 1955 | 27,465 | 14,996 |  | 12,469 | 60,004 | 56,241 | 3,763 | 3.63 | 4.27 | 1.12 |
| 1956 | 28,368 | 15,365 | ................ | 13,003 | 67,375 | 63,880 | 3,495 | 3.87 | 4.55 | 1.04 |
| 1957 | 27,559 | 14,111 | ................ | 13,448 | 53,183 | 50,352 | 2,831 | 3.35 | 4.00 | . 85 |
| 1958 | 27,193 | 13,387 |  | 13,805 | 46,609 | 43,807 | 2,802 | 3.02 | 3.62 | . 85 |
| 1959 .................. | 30,711 | 15,979 |  | 14,732 | 51,717 | 48,369 | 3,348 | 2.94 | 3.47 | . 92 |
| 1960 | 30,232 | 15,288 |  | 14,944 | 44,213 | 41,650 | 2,563 | 2.71 | 3.29 | . 71 |
| 1961 | 31,112 | 15,753 | ................. | 15,359 | 46,624 | 43,582 | 3,042 | 2.58 | 3.08 | . 78 |
| 1962 | 33,440 | 17,363 | ................ | 16,078 | 47,798 | 45,170 | 2,628 | 2.64 | 3.18 | . 68 |
| 1963 | 35,511 | 18,671 | ................. | 16,840 | 53,417 | 50,346 | 3,071 | 2.74 | 3.31 | . 72 |
| 1964 | 38,240 | 20,507 | ................ | 17,732 | 64,518 | 61,315 | 3,203 | 2.99 | 3.59 | . 71 |
| 1965 | 42,137 | 23,286 | ................. | 18,851 | 78,249 | 74,459 | 3,790 | 3.25 | 3.86 | . 79 |
| 1966 | 46,420 | 26,163 | ................. | 20,258 | 96,846 | 93,002 | 3,844 | 3.74 | 4.48 | . 75 |
| 1967 | 47,067 | 25,803 |  | 21,265 | 103,711 | 99,735 | 3,976 | 3.66 | 4.37 | . 73 |
| 1968 | 50,657 | 28,051 | 6,314 | 22,606 | 108,377 | 104,393 | 3,984 | 3.79 | 4.58 | . 69 |
| 1969 | 53,990 | 29,876 | 7,046 | 24,114 | 114,341 | 110,161 | 4,180 | 3.71 | 4.45 | . 69 |
| 1970 | 52,022 | 27,340 | 6,072 | 24,682 | 105,008 | 100,412 | 4,596 | 3.61 | 4.36 | . 76 |
| 1971 | 55,921 | 29,905 | 6,682 | 26,016 | 105,247 | 100,225 | 5,022 | 3.32 | 4.00 | . 76 |
| 1972 | 64,182 | 35,038 | 7,745 | 29,144 | 119,349 | 113,034 | 6,315 | 3.26 | 3.85 | . 86 |
| 1973 | 76,003 | 42,627 | 9,926 | 33,376 | 156,561 | 149,204 | 7,357 | 3.80 | 4.51 | . 91 |
| 1974 | 87,327 | 46,862 | 11,594 | 40,465 | 187,043 | 181,519 | 5,524 | 4.09 | 4.93 | . 62 |
| 1975 | 85,139 | 41,957 | 9,886 | 43,181 | 169,546 | 161,664 | 7,882 | 3.69 | 4.45 | . 82 |
| 1976 | 99,513 | 51,307 | 11,490 | 48,206 | 178,128 | 169,857 | 8,271 | 3.24 | 3.88 | . 74 |
| 1977 | 115,109 | 61,035 | 13,681 | 54,073 | 202,024 | 193,323 | 8,701 | 3.24 | 3.85 | . 71 |
| 1978 | 131,629 | 72,278 | 17,588 | 59,351 | 259,169 | 248,281 | 10,888 | 3.57 | 4.20 | . 81 |
| 1979 ................. | 147,604 | 79,483 | 21,154 | 68,121 | 303,593 | 291,321 | 12,272 | 3.89 | 4.62 | . 82 |
| 1980 | 156,359 | 79,392 | 21,135 | 76,967 | 327,416 | 315,202 | 12,214 | 3.85 | 4.58 | . 75 |
| 1981 | 168,025 | 83,654 | 21,806 | 84,371 | 326,547 | 314,707 | 11,840 | 3.87 | 4.68 | . 69 |
| 1982 | 162,140 | 78,064 | 19,213 | 84,077 | 311,887 | 300,798 | 11,089 | 3.84 | 4.74 | . 62 |
| 1983 | 175,451 | 88,140 | 19,624 | 87,311 | 347,273 | 333,114 | 14,159 | 3.53 | 4.29 | . 69 |
| 1984 | 192,879 | 100,164 | 23,669 | 92,715 | 373,529 | 359,651 | 13,878 | 3.60 | 4.37 | . 64 |
| 1985 | 195,706 | 102,356 | 24,545 | 93,351 | 387,095 | 372,027 | 15,068 | 3.67 | 4.46 | . 68 |
| 1986 | 195,204 | 103,647 | 23,983 | 91,557 | 393,412 | 376,622 | 16,790 | 3.59 | 4.40 | . 70 |
| 1987 | 209,389 | 110,809 | 26,095 | 98,579 | 430,288 | 408,602 | 21,686 | 3.63 | 4.42 | . 83 |
| 1988 | 227,026 | 121,445 | 30,729 | 105,581 | 471,951 | 450,002 | 21,949 | 3.64 | 4.45 | . 76 |
| 1989 | 235,932 | 124,933 | 32,725 | 110,999 | 510,459 | 488,780 | 21,679 | 4.00 | 4.91 | . 78 |
| 1990 | 240,646 | 123,556 | 32,254 | 117,090 | 524,846 | 502,914 | 21,932 | 4.14 | 5.13 | . 76 |
| 1991 | 234,354 | 117,878 | 29,468 | 116,476 | 511,122 | 487,892 | 23,230 | 4.08 | 5.06 | . 81 |
| 1992 | 241,545 | 122,614 | 29,653 | 118,932 | 475,304 | 452,383 | 22,921 | 3.46 | 4.21 | . 77 |
| 1993 | 255,701 | 133,273 | 31,889 | 122,428 | 441,947 | 420,288 | 21,659 | 3.04 | 3.65 | . 72 |
| 1994 .................. | 281,953 | 151,878 | 37,530 | 130,074 | 456,838 | 431,305 | 25,533 | 2.87 | 3.43 | . 76 |
| 1994:Jan ............ | 272,616 | 148,549 | 36,630 | 124,067 | 446,233 | 424,128 | 22,105 | 3.11 | 3.73 | . 74 |
| Feb ............ | 271,786 | 145,882 | 36,382 | 125,904 | 446,204 | 423,750 | 22,454 | 3.07 | 3.69 | . 74 |
| Mar .... | 274,691 | 146,906 | 36,127 | 127,785 | 446,398 | 423,268 | 23,130 | 3.03 | 3.63 | . 76 |
| Apr ............ | 275,182 | 147,345 | 35,815 | 127,837 | 447,337 | 423,681 | 23,656 | 3.04 | 3.64 | . 77 |
| May ........... | 277,441 | 149,412 | 35,498 | 128,029 | 448,546 | 424,583 | 23,963 | 3.01 | 3.60 | . 76 |
| June .......... | 279,788 | 151,212 | 38,055 | 128,576 | 449,767 | 425,784 | 23,983 | 2.98 | 3.58 | . 76 |
| July ........... | 274,305 | 145,251 | 36,310 | 129,054 | 448,587 | 424,563 | 24,024 | 2.99 | 3.60 | . 75 |
| Aug ........... | 287,222 | 154,675 | 37,595 | 132,547 | 447,729 | 423,619 | 24,110 | 2.89 | 3.47 | . 73 |
| Sept .......... | 287,248 | 155,433 | 39,056 | 131,815 | 448,843 | 424,702 | 24,141 | 2.90 | 3.48 | . 74 |
| Oct ............ | 285,985 | 154,150 | 38,276 | 131,835 | 450,853 | 426,266 | 24,587 | 2.94 | 3.52 | . 76 |
| Nov ........... | 293,716 | 159,321 | 40,781 | 134,395 | 453,378 | 428,295 | 25,083 | 2.88 | 3.45 | . 76 |
| Dec ........... | 299,514 | 162,310 | 37,759 | 137,204 | 456,838 | 431,305 | 25,533 | 2.87 | 3.43 | . 76 |
| 1995:Jan ............ | 301,724 | 164,507 | 41,785 | 137,217 | 460,772 | 434,733 | 26,039 | 2.85 | 3.41 | . 76 |
| Feb ........... | 300,804 | 163,338 | 42,055 | 137,466 | 463,020 | 436,865 | 26,155 | 2.86 | 3.42 | . 76 |
| Mar ........... | 299,625 | 163,042 | 42,628 | 136,583 | 464,208 | 438,336 | 25,872 | 2.85 | 3.41 | . 75 |
| Apr ............ | 293,069 | 155,553 | 40,072 | 137,516 | 461,984 | 435,919 | 26,065 | 2.86 | 3.44 | . 75 |
| May ........... | 297,046 | 159,502 | 43,115 | 137,544 | 461,937 | 435,809 | 26,128 | 2.82 | 3.38 | . 75 |
| June .......... | 296,754 | 159,031 | 42,964 | 137,723 | 459,979 | 434,012 | 25,967 | 2.78 | 3.34 | . 72 |
| July ........... | 293,863 | 156,130 | 40,233 | 137,733 | 460,368 | 434,223 | 26,145 | 2.84 | 3.42 | . 74 |
| Aug ........... | 301,903 | 164,082 | 41,676 | 137,821 | 459,250 | 434,109 | 25,141 | 2.74 | 3.30 | . 70 |
| Sept $p$........ | 306,123 | 168,951 | 46,941 | 137,172 | 461,093 | 437,121 | 23,972 | 2.74 | 3.30 | . 67 |
| Oct $p$......... | 305,143 | 167,068 | 43,488 | 138,075 | 463,081 | 439,560 | 23,521 | 2.77 | 3.34 | . 66 |

${ }^{1}$ Annual data are averages of monthly not seasonally adjusted figures.
${ }^{2}$ Seasonally adjusted, end of period.
${ }^{3}$ Ratio of unfilled orders at end of period to shipments for period; excludes industries with no unfilled orders. Annual figures relate to seasonally adjusted data for December.

Note. - Data beginning 1958 are not strictly comparable with earlier data.
Source: Department of Commerce, Bureau of the Census.

## PRICES

Table B-56. - Consumer price indexes for major expenditure dasses, 1950-95
[For all urban consumers; 1982-84=100]

| Year or month | All items(CPI-U) | Food and beverages |  | Housing |  |  |  | Apparel and upkeep | Trans-por-tation | Medical care | Entertainment | Other goods and services | Energy ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Hous |  |  |  |  |  |  |
|  |  | Total ${ }^{1}$ | Food | Total | Shelter | Fuel and other utilities | furnishings and operation |  |  |  |  |  |  |
| 1950 | 24.1 |  | 25.4 |  |  |  |  | 40.3 | 22.7 | 15.1 |  |  |  |
| 1951 | 26.0 | ........... | 28.2 |  |  |  |  | 43.9 | 24.1 | 15.9 |  |  |  |
| 1952 | 26.5 | ........... | 28.7 |  |  |  |  | 43.5 | 25.7 | 16.7 |  |  |  |
| 1953 | 26.7 | ........... | 28.3 |  | 22.0 | 22.5 |  | 43.1 | 26.5 | 17.3 |  |  |  |
| 1954 | 26.9 | ........... | 28.2 |  | 22.5 | 22.6 |  | 43.1 | 26.1 | 17.8 |  |  |  |
| 1955 | 26.8 | ........... | 27.8 |  | 22.7 | 23.0 |  | 42.9 | 25.8 | 18.2 |  |  |  |
| 1956 | 27.2 |  | 28.0 |  | 23.1 | 23.6 |  | 43.7 | 26.2 | 18.9 |  |  |  |
| 1957 | 28.1 |  | 28.9 |  | 24.0 | 24.3 |  | 44.5 | 27.7 | 19.7 |  |  | 21.5 |
| 1958 | 28.9 |  | 30.2 |  | 24.5 | 24.8 |  | 44.6 | 28.6 | 20.6 |  |  | 21.5 |
| 1959 | 29.1 | ............ | 29.7 |  | 24.7 | 25.4 |  | 45.0 | 29.8 | 21.5 |  |  | 21.9 |
| 1960 | 29.6 |  | 30.0 |  | 25.2 | 26.0 |  | 45.7 | 29.8 | 22.3 |  |  | 22.4 |
| 1961 | 29.9 |  | 30.4 |  | 25.4 | 26.3 |  | 46.1 | 30.1 | 22.9 |  |  | 22.5 |
| 1962 | 30.2 |  | 30.6 |  | 25.8 | 26.3 |  | 46.3 | 30.8 | 23.5 |  |  | 22.6 |
| 1963 | 30.6 |  | 31.1 |  | 26.1 | 26.6 |  | 46.9 | 30.9 | 24.1 |  |  | 22.6 |
| 1964 | 31.0 |  | 31.5 |  | 26.5 | 26.6 |  | 47.3 | 31.4 | 24.6 |  |  | 22.5 |
| 1965 | 31.5 |  | 32.2 |  | 27.0 | 26.6 |  | 47.8 | 31.9 | 25.2 |  |  | 22.9 |
| 1966 | 32.4 |  | 33.8 |  | 27.8 | 26.7 |  | 49.0 | 32.3 | 26.3 |  |  | 23.3 |
| 1967 | 33.4 | 35.0 | 34.1 | 30.8 | 28.8 | 27.1 | 42.0 | 51.0 | 33.3 | 28.2 | 40.7 | 35.1 | 23.8 |
| 1968 | 34.8 | 36.2 | 35.3 | 32.0 | 30.1 | 27.4 | 43.6 | 53.7 | 34.3 | 29.9 | 43.0 | 36.9 | 24.2 |
| 1969 | 36.7 | 38.1 | 37.1 | 34.0 | 32.6 | 28.0 | 45.2 | 56.8 | 35.7 | 31.9 | 45.2 | 38.7 | 24.8 |
| 1970 | 38.8 | 40.1 | 39.2 | 36.4 | 35.5 | 29.1 | 46.8 | 59.2 | 37.5 | 34.0 | 47.5 | 40.9 | 25.5 |
| 1971 | 40.5 | 41.4 | 40.4 | 38.0 | 37.0 | 31.1 | 48.6 | 61.1 | 39.5 | 36.1 | 50.0 | 42.9 | 26.5 |
| 1972 | 41.8 | 43.1 | 42.1 | 39.4 | 38.7 | 32.5 | 49.7 | 62.3 | 39.9 | 37.3 | 51.5 | 44.7 | 27.2 |
| 1973 | 44.4 | 48.8 | 48.2 | 41.2 | 40.5 | 34.3 | 51.1 | 64.6 | 41.2 | 38.8 | 52.9 | 46.4 | 29.4 |
| 1974 | 49.3 | 55.5 | 55.1 | 45.8 | 44.4 | 40.7 | 56.8 | 69.4 | 45.8 | 42.4 | 56.9 | 49.8 | 38.1 |
| 1975 | 53.8 | 60.2 | 59.8 | 50.7 | 48.8 | 45.4 | 63.4 | 72.5 | 50.1 | 47.5 | 62.0 | 53.9 | 42.1 |
| 1976 | 56.9 | 62.1 | 61.6 | 53.8 | 51.5 | 49.4 | 67.3 | 75.2 | 55.1 | 52.0 | 65.1 | 57.0 | 45.1 |
| 1977 | 60.6 | 65.8 | 65.5 | 57.4 | 54.9 | 54.7 | 70.4 | 78.6 | 59.0 | 57.0 | 68.3 | 60.4 | 49.4 |
| 1978 | 65.2 | 72.2 | 72.0 | 62.4 | 60.5 | 58.5 | 74.7 | 81.4 | 61.7 | 61.8 | 71.9 | 64.3 | 52.5 |
| 1979 | 72.6 | 79.9 | 79.9 | 70.1 | 68.9 | 64.8 | 79.9 | 84.9 | 70.5 | 67.5 | 76.7 | 68.9 | 65.7 |
| 1980 | 82.4 | 86.7 | 86.8 | 81.1 | 81.0 | 75.4 | 86.3 | 90.9 | 83.1 | 74.9 | 83.6 | 75.2 | 86.0 |
| 1981 | 90.9 | 93.5 | 93.6 | 90.4 | 90.5 | 86.4 | 93.0 | 95.3 | 93.2 | 82.9 | 90.1 | 82.6 | 97.7 |
| 1982 | 96.5 | 97.3 | 97.4 | 96.9 | 96.9 | 94.9 | 98.0 | 97.8 | 97.0 | 92.5 | 96.0 | 91.1 | 99.2 |
| 1983 | 99.6 | 99.5 | 99.4 | 99.5 | 99.1 | 100.2 | 100.2 | 100.2 | 99.3 | 100.6 | 100.1 | 101.1 | 99.9 |
| 1984 | 103.9 | 103.2 | 103.2 | 103.6 | 104.0 | 104.8 | 101.9 | 102.1 | 103.7 | 106.8 | 103.8 | 107.9 | 100.9 |
| 1985 | 107.6 | 105.6 | 105.6 | 107.7 | 109.8 | 106.5 | 103.8 | 105.0 | 106.4 | 113.5 | 107.9 | 114.5 | 101.6 |
| 1986 | 109.6 | 109.1 | 109.0 | 110.9 | 115.8 | 104.1 | 105.2 | 105.9 | 102.3 | 122.0 | 111.6 | 121.4 | 88.2 |
| 1987 | 113.6 | 113.5 | 113.5 | 114.2 | 121.3 | 103.0 | 107.1 | 110.6 | 105.4 | 130.1 | 115.3 | 128.5 | 88.6 |
| 1988 | 118.3 | 118.2 | 118.2 | 118.5 | 127.1 | 104.4 | 109.4 | 115.4 | 108.7 | 138.6 | 120.3 | 137.0 | 89.3 |
| 1989 | 124.0 | 124.9 | 125.1 | 123.0 | 132.8 | 107.8 | 111.2 | 118.6 | 114.1 | 149.3 | 126.5 | 147.7 | 94.3 |
| 1990 | 130.7 | 132.1 | 132.4 | 128.5 | 140.0 | 111.6 | 113.3 | 124.1 | 120.5 | 162.8 | 132.4 | 159.0 | 102.1 |
| 1991 | 136.2 | 136.8 | 136.3 | 133.6 | 146.3 | 115.3 | 116.0 | 128.7 | 123.8 | 177.0 | 138.4 | 171.6 | 102.5 |
| 1992 | 140.3 | 138.7 | 137.9 | 137.5 | 151.2 | 117.8 | 118.0 | 131.9 | 126.5 | 190.1 | 142.3 | 183.3 | 103.0 |
| 1993 | 144.5 | 141.6 | 140.9 | 141.2 | 155.7 | 121.3 | 119.3 | 133.7 | 130.4 | 201.4 | 145.8 | 192.9 | 104.2 |
| 1994 | 148.2 | 144.9 | 144.3 | 144.8 | 160.5 | 122.8 | 121.0 | 133.4 | 134.3 | 211.0 | 150.1 | 198.5 | 104.6 |
| 1995 ........ | 152.4 | 148.9 | 148.4 | 148.5 | 165.7 | 123.7 | 123.0 | 132.0 | 139.1 | 220.5 | 153.9 | 206.9 | 105.2 |
| 1994:Jan ......... | 146.2 | 144.3 | 143.7 | 142.9 | 158.1 | 121.6 | 120.5 | 130.4 | 131.6 | 206.4 | 148.5 | 195.1 | 101.3 |
| Feb .... | 146.7 | 143.6 | 142.9 | 143.7 | 159.1 | 122.4 | 120.4 | 132.4 | 131.9 | 207.7 | 149.1 | 195.2 | 102.0 |
| Mar ........ | 147.2 | 143.9 | 143.2 | 144.1 | 159.8 | 122.4 | 120.6 | 136.1 | 132.2 | 208.3 | 149.6 | 195.5 | 101.9 |
| Apr ......... | 147.4 | 144.0 | 143.4 | 143.9 | 159.6 | 121.6 | 120.6 | 136.4 | 132.6 | 209.2 | 149.7 | 196.4 | 102.0 |
| May ........ | 147.5 | 144.1 | 143.5 | 144.1 | 159.6 | 122.2 | 121.1 | 135.6 | 132.8 | 209.7 | 149.9 | 197.1 | 102.9 |
| June ....... | 148.0 | 144.2 | 143.5 | 144.9 | 160.1 | 124.2 | 121.4 | 133.8 | 133.8 | 210.4 | 149.8 | 197.6 | 105.7 |
| July ........ | 148.4 | 144.8 | 144.2 | 145.4 | 160.8 | 124.3 | 121.5 | 130.9 | 134.6 | 211.5 | 150.2 | 198.0 | 106.8 |
| Aug ........ | 149.0 | 145.3 | 144.8 | 145.9 | 161.7 | 124.3 | 121.4 | 131.1 | 135.9 | 212.2 | 150.2 | 199.4 | 108.5 |
| Sept .... | 149.4 | 145.6 | 145.0 | 145.8 | 161.6 | 124.2 | 121.4 | 134.2 | 135.9 | 212.8 | 150.7 | 201.4 | 108.2 |
| Oct .... | 149.5 | 145.6 | 145.0 | 145.7 | 162.0 | 122.4 | 121.4 | 135.2 | 136.1 | 214.0 | 151.0 | 201.9 | 105.8 |
| Nov ......... | 149.7 | 145.9 | 145.3 | 145.5 | 162.1 | 121.8 | 121.1 | 134.2 | 137.1 | 214.7 | 151.6 | 202.3 | 105.7 |
| Dec ......... | 149.7 | 147.2 | 146.8 | 145.4 | 161.8 | 122.0 | 120.8 | 130.5 | 137.1 | 215.3 | 151.2 | 202.4 | 104.7 |
| 1995:Jan ......... | 150.3 | 147.9 | 147.5 | 146.4 | 162.9 | 122.9 | 121.8 | 129.4 | 137.3 | 216.6 | 152.1 | 203.0 | 104.2 |
| Feb ..... | 150.9 | 147.8 | 147.4 | 147.0 | 163.8 | 122.6 | 122.4 | 131.1 | 137.5 | 217.9 | 152.5 | 204.1 | 103.7 |
| Mar ........ | 151.4 | 147.9 | 147.4 | 147.4 | 164.5 | 122.3 | 122.6 | 134.4 | 138.0 | 218.4 | 152.6 | 204.0 | 103.2 |
| Apr ......... | 151.9 | 148.9 | 148.4 | 147.4 | 164.7 | 122.1 | 122.6 | 134.8 | 139.1 | 218.9 | 153.3 | 204.3 | 103.9 |
| May ........ | 152.2 | 148.7 | 148.3 | 147.6 | 164.8 | 122.5 | 122.7 | 133.4 | 140.3 | 219.3 | 153.6 | 204.9 | 106.3 |
| June ....... | 152.5 | 148.4 | 147.9 | 148.5 | 165.5 | 125.0 | 122.5 | 130.5 | 141.1 | 219.8 | 153.2 | 205.3 | 109.3 |
| July ........ | 152.5 | 148.6 | 148.1 | 149.2 | 166.4 | 125.1 | 123.0 | 128.3 | 140.1 | 220.8 | 153.6 | 205.7 | 108.1 |
| Aug ........ | 152.9 | 148.9 | 148.4 | 149.6 | 166.8 | 125.7 | 123.4 | 130.1 | 139.2 | 221.6 | 154.1 | 207.7 | 107.4 |
| Sept ....... | 153.2 | 149.4 | 148.9 | 149.5 | 166.8 | 124.9 | 123.8 | 132.7 | 138.8 | 222.1 | 154.9 | 210.2 | 106.2 |
| Oct ......... | 153.7 | 149.8 | 149.4 | 149.7 | 167.3 | 123.9 | 123.9 | 134.5 | 139.4 | 222.9 | 155.2 | 210.7 | 104.5 |
| Nov ......... | 153.6 | 149.8 | 149.4 | 149.4 | 167.3 | 123.1 | 123.6 | 133.7 | 139.4 | 223.5 | 156.0 | 211.2 | 102.8 |
| Dec ......... | 153.5 | 150.3 | 149.9 | 149.7 | 167.4 | 123.7 | 123.8 | 130.6 | 139.1 | 223.8 | 156.2 | 211.1 | 103.3 |

[^44]Table B-57.-Consumer price indexes for selected expenditure dasses, 1950-95
[For all urban consumers; 1982-84=100, except as noted]

| Year or month | Food and beverages |  |  |  | Shelter |  |  |  |  | Fuel and other utilities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Food |  |  |  | Renters' costs |  | Homeowners' costs ${ }^{2}$ | Maintenance and repairs | Fuels |  |  |  | Other utilities and public services |
|  | Total ${ }^{1}$ | Total | At home | Away from home | Total | Total ${ }^{2}$ | Rent, residential |  |  | Total | Total | Fuel oil and other household fuel com- modities | $\begin{aligned} & \text { Gas } \\ & \text { (piped) } \\ & \text { and } \\ & \text { elec- } \\ & \text { tricity } \\ & \text { (energy } \\ & \text { serv- } \\ & \text { ices) } \end{aligned}$ |  |
| 1950 |  | 25.4 | 27.3 |  |  |  | 29.7 |  |  |  |  | 11.3 | 19.2 |  |
| 1951 |  | 28.2 | 30.3 |  |  |  | 30.9 |  |  |  |  | 11.8 | 19.3 |  |
| 1952 |  | 28.7 | 30.8 |  |  |  | 32.2 |  |  |  |  | 12.1 | 19.5 |  |
| 1953 | ....... | 28.3 | 30.3 | 21.5 | 22.0 |  | 33.9 |  | 20.5 | 22.5 |  | 12.6 | 19.9 |  |
| 1954 .. | .......... | 28.2 | 30.1 | 21.9 | 22.5 |  | 35.1 |  | 20.9 | 22.6 |  | 12.6 | 20.2 |  |
| 1955 | .......... | 27.8 | 29.5 | 22.1 | 22.7 |  | 35.6 |  | 21.4 | 23.0 |  | 12.7 | 20.7 |  |
| 1956 |  | 28.0 | 29.6 | 22.6 | 23.1 |  | 36.3 |  | 22.3 | 23.6 |  | 13.3 | 20.9 |  |
| 1957 |  | 28.9 | 30.6 | 23.4 | 24.0 |  | 37.0 |  | 23.2 | 24.3 |  | 14.0 | 21.1 |  |
| 1958 | .......... | 30.2 | 32.0 | 24.1 | 24.5 |  | 37.6 |  | 23.6 | 24.8 | ......... | 13.7 | 21.9 |  |
| 1959 ... | .......... | 29.7 | 31.2 | 24.8 | 24.7 |  | 38.2 |  | 24.0 | 25.4 |  | 13.9 | 22.4 |  |
| 1960 |  | 30.0 | 31.5 | 25.4 | 25.2 |  | 38.7 |  | 24.4 | 26.0 |  | 13.8 | 23.3 |  |
| 1961. | .......... | 30.4 | 31.8 | 26.0 | 25.4 |  | 39.2 |  | 24.8 | 26.3 |  | 14.1 | 23.5 |  |
| 1962 |  | 30.6 | 32.0 | 26.7 | 25.8 |  | 39.7 |  | 25.0 | 26.3 |  | 14.2 | 23.5 |  |
| 1963 |  | 31.1 | 32.4 | 27.3 | 26.1 |  | 40.1 |  | 25.3 | 26.6 |  | 14.4 | 23.5 |  |
| 1964 |  | 31.5 | 32.7 | 27.8 | 26.5 |  | 40.5 |  | 25.8 | 26.6 |  | 14.4 | 23.5 |  |
| 1965 |  | 32.2 | 33.5 | 28.4 | 27.0 |  | 40.9 |  | 26.3 | 26.6 |  | 14.6 | 23.5 |  |
| 1966 |  | 33.8 | 35.2 | 29.7 | 27.8 |  | 41.5 |  | 27.5 | 26.7 |  | 15.0 | 23.6 |  |
| 1967 | 35.0 | 34.1 | 35.1 | 31.3 | 28.8 |  | 42.2 |  | 28.9 | 27.1 | 21.4 | 15.5 | 23.7 | 46.6 |
| 1968 .. | 36.2 | 35.3 | 36.3 | 32.9 | 30.1 |  | 43.3 |  | 30.6 | 27.4 | 21.7 | 16.0 | 23.9 | 47.1 |
| 1969 .... | 38.1 | 37.1 | 38.0 | 34.9 | 32.6 |  | 44.7 |  | 33.2 | 28.0 | 22.1 | 16.3 | 24.3 | 48.4 |
| 1970 | 40.1 | 39.2 | 39.9 | 37.5 | 35.5 |  | 46.5 |  | 35.8 | 29.1 | 23.1 | 17.0 | 25.4 | 50.0 |
| 1971 | 41.4 | 40.4 | 40.9 | 39.4 | 37.0 |  | 48.7 |  | 38.6 | 31.1 | 24.7 | 18.2 | 27.1 | 53.4 |
| 1972 | 43.1 | 42.1 | 42.7 | 41.0 | 38.7 |  | 50.4 |  | 40.6 | 32.5 | 25.7 | 18.3 | 28.5 | 56.2 |
| 1973 ... | 48.8 | 48.2 | 49.7 | 44.2 | 40.5 |  | 52.5 |  | 43.6 | 34.3 | 27.5 | 21.1 | 29.9 | 57.8 |
| 1974. | 55.5 | 55.1 | 57.1 | 49.8 | 44.4 |  | 55.2 |  | 49.5 | 40.7 | 34.4 | 33.2 | 34.5 | 60.7 |
| 1975 .. | 60.2 | 59.8 | 61.8 | 54.5 | 48.8 |  | 58.0 |  | 54.1 | 45.4 | 39.4 | 36.4 | 40.1 | 63.9 |
| 1976 .. | 62.1 | 61.6 | 63.1 | 58.2 | 51.5 | ........... | 61.1 |  | 57.6 | 49.4 | 43.3 | 38.8 | 44.7 | 67.7 |
| 1977 .... | 65.8 | 65.5 | 66.8 | 62.6 | 54.9 |  | 64.8 |  | 62.0 | 54.7 | 49.0 | 43.9 | 50.5 | 70.8 |
| 1978 ..... | 72.2 | 72.0 | 73.8 | 68.3 | 60.5 |  | 69.3 |  | 67.2 | 58.5 | 53.0 | 46.2 | 55.0 | 73.7 |
| 1979 .. | 79.9 | 79.9 | 81.8 | 75.9 | 68.9 |  | 74.3 |  | 74.0 | 64.8 | 61.3 | 62.4 | 61.0 | 74.3 |
| 1980 | 86.7 | 86.8 | 88.4 | 83.4 | 81.0 |  | 80.9 |  | 82.4 | 75.4 | 74.8 | 86.1 | 71.4 | 77.0 |
| 1981 | 93.5 | 93.6 | 94.8 | 90.9 | 90.5 |  | 87.9 |  | 90.7 | 86.4 | 87.2 | 104.6 | 81.9 | 84.3 |
| 1982 | 97.3 | 97.4 | 98.1 | 95.8 | 96.9 |  | 94.6 |  | 96.4 | 94.9 | 95.6 | 103.4 | 93.2 | 93.3 |
| 1983 | 99.5 | 99.4 | 99.1 | 100.0 | 99.1 | 103.0 | 100.1 | 102.5 | 99.9 | 100.2 | 100.5 | 97.2 | 101.5 | 99.5 |
| 1984 | 103.2 | 103.2 | 102.8 | 104.2 | 104.0 | 108.6 | 105.3 | 107.3 | 103.7 | 104.8 | 104.0 | 99.4 | 105.4 | 107.2 |
| 1985 | 105.6 | 105.6 | 104.3 | 108.3 | 109.8 | 115.4 | 111.8 | 113.1 | 106.5 | 106.5 | 104.5 | 95.9 | 107.1 | 112.1 |
| 1986 | 109.1 | 109.0 | 107.3 | 112.5 | 115.8 | 121.9 | 118.3 | 119.4 | 107.9 | 104.1 | 99.2 | 77.6 | 105.7 | 117.9 |
| 1987 | 113.5 | 113.5 | 111.9 | 117.0 | 121.3 | 128.1 | 123.1 | 124.8 | 111.8 | 103.0 | 97.3 | 77.9 | 103.8 | 120.1 |
| 1988 | 118.2 | 118.2 | 116.6 | 121.8 | 127.1 | 133.6 | 127.8 | 131.1 | 114.7 | 104.4 | 98.0 | 78.1 | 104.6 | 122.9 |
| 1989 ......... | 124.9 | 125.1 | 124.2 | 127.4 | 132.8 | 138.9 | 132.8 | 137.3 | 118.0 | 107.8 | 100.9 | 81.7 | 107.5 | 127.1 |
| 1990 | 132.1 | 132.4 | 132.3 | 133.4 | 140.0 | 146.7 | 138.4 | 144.6 | 122.2 | 111.6 | 104.5 | 99.3 | 109.3 | 131.7 |
| 1991 | 136.8 | 136.3 | 135.8 | 137.9 | 146.3 | 155.6 | 143.3 | 150.2 | 126.3 | 115.3 | 106.7 | 94.6 | 112.6 | 137.9 |
| 1992 | 138.7 | 137.9 | 136.8 | 140.7 | 151.2 | 160.9 | 146.9 | 155.3 | 128.6 | 117.8 | 108.1 | 90.7 | 114.8 | 142.5 |
| 1993 | 141.6 | 140.9 | 140.1 | 143.2 | 155.7 | 165.0 | 150.3 | 160.2 | 130.6 | 121.3 | 111.2 | 90.3 | 118.5 | 147.0 |
| 1994 | 144.9 | 144.3 | 144.1 | 145.7 | 160.5 | 169.4 | 154.0 | 165.5 | 130.8 | 122.8 | 111.7 | 88.8 | 119.2 | 150.2 |
| 1995 ............ | 148.9 | 148.4 | 148.8 | 149.0 | 165.7 | 174.3 | 157.8 | 171.0 | 135.0 | 123.7 | 111.5 | 88.1 | 119.2 | 152.8 |
| 1994: Jan .. | 144.3 | 143.7 | 143.8 | 144.5 | 158.1 | 166.8 | 152.2 | 162.9 | 128.9 | 121.6 | 110.6 | 88.9 | 118.0 | 148.9 |
| Feb | 143.6 | 142.9 | 142.6 | 144.6 | 159.1 | 168.9 | 152.8 | 163.7 | 129.4 | 122.4 | 111.1 | 93.6 | 117.9 | 150.0 |
| Mar .. | 143.9 | 143.2 | 142.8 | 144.8 | 159.8 | 170.1 | 153.2 | 164.1 | 129.3 | 122.4 | 111.1 | 92.5 | 118.1 | 150.1 |
| Apr ...... | 144.0 | 143.4 | 143.0 | 145.1 | 159.6 | 169.1 | 153.3 | 164.2 | 130.2 | 121.6 | 109.8 | 90.2 | 116.9 | 150.0 |
| May ...... | 144.1 | 143.5 | 143.0 | 145.3 | 159.6 | 168.5 | 153.3 | 164.5 | 131.0 | 122.2 | 110.6 | 88.7 | 118.0 | 150.4 |
| June ...... | 144.2 | 143.5 | 142.9 | 145.5 | 160.1 | 169.6 | 153.4 | 164.8 | 131.5 | 124.2 | 113.9 | 87.7 | 122.1 | 150.4 |
| July ....... | 144.8 | 144.2 | 144.0 | 145.6 | 160.8 | 171.0 | 153.9 | 165.3 | 131.3 | 124.3 | 114.1 | 87.1 | 122.3 | 150.4 |
| Aug ....... | 145.3 | 144.8 | 144.7 | 145.9 | 161.7 | 172.1 | 154.5 | 166.1 | 131.2 | 124.3 | 114.0 | 86.8 | 122.2 | 150.6 |
| Sept ...... | 145.6 | 145.0 | 145.0 | 146.2 | 161.6 | 169.4 | 155.0 | 167.1 | 131.6 | 124.2 | 113.8 | 86.8 | 122.1 | 150.3 |
| Oct ........ | 145.6 | 145.0 | 144.8 | 146.4 | 162.0 | 169.8 | 155.2 | 167.5 | 130.8 | 122.4 | 110.8 | 87.0 | 118.5 | 150.4 |
| Nov ....... | 145.9 | 145.3 | 145.1 | 146.8 | 162.1 | 168.9 | 155.6 | 167.9 | 131.2 | 121.8 | 109.9 | 87.7 | 117.3 | 150.5 |
| Dec ....... | 147.2 | 146.8 | 147.3 | 147.1 | 161.8 | 168.2 | 155.7 | 167.8 | 132.7 | 122.0 | 110.1 | 88.4 | 117.4 | 150.6 |
| 1995: Jan | 147.9 | 147.5 | 148.2 | 147.4 | 162.9 | 170.7 | 156.1 | 168.4 | 133.1 | 122.9 | 110.7 | 89.4 | 118.0 | 152.1 |
| Feb | 147.8 | 147.4 | 147.9 | 147.6 | 163.8 | 172.9 | 156.4 | 168.9 | 133.8 | 122.6 | 110.4 | 89.6 | 117.6 | 151.8 |
| Mar ... | 147.9 | 147.4 | 147.6 | 148.1 | 164.5 | 174.6 | 156.7 | 169.2 | 134.2 | 122.3 | 109.8 | 89.0 | 117.1 | 151.9 |
| Apr ..... | 148.9 | 148.4 | 149.2 | 148.3 | 164.7 | 174.1 | 157.0 | 169.6 | 134.2 | 122.1 | 109.3 | 88.4 | 116.6 | 152.2 |
| May ...... | 148.7 | 148.3 | 148.7 | 148.6 | 164.8 | 173.7 | 157.2 | 170.0 | 134.6 | 122.5 | 109.8 | 88.3 | 117.2 | 152.3 |
| June ...... | 148.4 | 147.9 | 148.1 | 148.8 | 165.5 | 174.7 | 157.5 | 170.6 | 135.0 | 125.0 | 113.8 | 87.9 | 121.9 | 152.7 |
| July .... | 148.6 | 148.1 | 148.2 | 149.1 | 166.4 | 176.7 | 157.9 | 171.2 | 135.1 | 125.1 | 113.7 | 87.1 | 121.9 | 153.0 |
| Aug | 148.9 | 148.4 | 148.4 | 149.4 | 166.8 | 176.9 | 158.2 | 171.6 | 135.4 | 125.7 | 114.6 | 86.6 | 123.0 | 153.1 |
| Sept ...... | 149.4 | 148.9 | 149.2 | 149.6 | 166.8 | 175.1 | 158.5 | 172.4 | 135.4 | 124.9 | 113.4 | 86.6 | 121.6 | 153.2 |
| Oct ... | 149.8 | 149.4 | 149.7 | 150.0 | 167.3 | 175.3 | 158.9 | 173.0 | 136.3 | 123.9 | 111.5 | 86.9 | 119.3 | 153.5 |
| Nov ... | 149.8 | 149.4 | 149.5 | 150.2 | 167.3 | 173.8 | 159.3 | 173.5 | 136.2 | 123.1 | 110.1 | 87.7 | 117.6 | 153.6 |
| Dec ....... | 150.3 | 149.9 | 150.3 | 150.4 | 167.4 | 173.2 | 159.6 | 174.0 | 136.6 | 123.7 | 110.9 | 89.6 | 118.3 | 153.9 |

[^45]Table B-57.- Consumer price indexes for selected expenditure classes, 1950-95-Continued
[For all urban consumers; 1982-84=100, except as noted]

| Year or month | Transportation |  |  |  |  |  |  |  | Medical care |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Private transportation |  |  |  |  |  | Public transportation | Total | Medical care commodities | Medical care services |
|  |  | Total ${ }^{3}$ | New cars | Used cars | Motor fuel ${ }^{4}$ | Automobile maintenance and repair | Other |  |  |  |  |
| 1950 | 22.7 | 24.5 | 41.1 |  | 19.0 | 18.9 |  | 13.4 | 15.1 | 39.7 | 12.8 |
| 1951 | 24.1 | 25.6 | 43.1 | ............... | 19.5 | 20.4 | .................. | 14.8 | 15.9 | 40.8 | 13.4 |
| 1952 | 25.7 | 27.3 | 46.8 |  | 20.0 | 20.8 | ... | 15.8 | 16.7 | 41.2 | 14.3 |
| 1953 | 26.5 | 27.8 | 47.2 | 26.7 | 21.2 | 22.0 | ............ | 16.8 | 17.3 | 41.5 | 14.8 |
| 1954 | 26.1 | 27.1 | 46.5 | 22.7 | 21.8 | 22.7 | ...... | 18.0 | 17.8 | 42.0 | 15.3 |
| 1955 | 25.8 | 26.7 | 44.8 | 21.5 | 22.1 | 23.2 | ..... | 18.5 | 18.2 | 42.5 | 15.7 |
| 1956 | 26.2 | 27.1 | 46.1 | 20.7 | 22.8 | 24.2 | .... | 19.2 | 18.9 | 43.4 | 16.3 |
| 1957 | 27.7 | 28.6 | 48.5 | 23.2 | 23.8 | 25.0 | ..... | 19.9 | 19.7 | 44.6 | 17.0 |
| 1958 | 28.6 | 29.5 | 50.0 | 24.0 | 23.4 | 25.4 | .... | 20.9 | 20.6 | 46.1 | 17.9 |
| 1959 | 29.8 | 30.8 | 52.2 | 26.8 | 23.7 | 26.0 |  | 21.5 | 21.5 | 46.8 | 18.7 |
| 1960 | 29.8 | 30.6 | 51.5 | 25.0 | 24.4 | 26.5 |  | 22.2 | 22.3 | 46.9 | 19.5 |
| 1961 | 30.1 | 30.8 | 51.5 | 26.0 | 24.1 | 27.1 | ............. | 23.2 | 22.9 | 46.3 | 20.2 |
| 1962 | 30.8 | 31.4 | 51.3 | 28.4 | 24.3 | 27.5 | ............ | 24.0 | 23.5 | 45.6 | 20.9 |
| 1963 | 30.9 | 31.6 | 51.0 | 28.7 | 24.2 | 27.8 | .... | 24.3 | 24.1 | 45.2 | 21.5 |
| 1964 | 31.4 | 32.0 | 50.9 | 30.0 | 24.1 | 28.2 | .............. | 24.7 | 24.6 | 45.1 | 22.0 |
| 1965 | 31.9 | 32.5 | 49.7 | 29.8 | 25.1 | 28.7 | ............ | 25.2 | 25.2 | 45.0 | 22.7 |
| 1966 | 32.3 | 32.9 | 48.8 | 29.0 | 25.6 | 29.2 |  | 26.1 | 26.3 | 45.1 | 23.9 |
| 1967 | 33.3 | 33.8 | 49.3 | 29.9 | 26.4 | 30.4 | 37.9 | 27.4 | 28.2 | 44.9 | 26.0 |
| 1968 | 34.3 | 34.8 | 50.7 |  | 26.8 | 32.1 | 39.2 | 28.7 | 29.9 | 45.0 | 27.9 |
| 1969 | 35.7 | 36.0 | 51.5 | 30.9 | 27.6 | 34.1 | 41.6 | 30.9 | 31.9 | 45.4 | 30.2 |
| 1970 | 37.5 | 37.5 | 53.0 | 31.2 | 27.9 | 36.6 | 45.2 | 35.2 | 34.0 | 46.5 | 32.3 |
| 1971 | 39.5 | 39.4 | 55.2 | 33.0 | 28.1 | 39.3 | 48.6 | 37.8 | 36.1 | 47.3 | 34.7 |
| 1972 | 39.9 | 39.7 | 54.7 | 33.1 | 28.4 | 41.1 | 48.9 | 39.3 | 37.3 | 47.4 | 35.9 |
| 1973 | 41.2 | 41.0 | 54.8 | 35.2 | 31.2 | 43.2 | 48.4 | 39.7 | 38.8 | 47.5 | 37.5 |
| 1974 | 45.8 | 46.2 | 57.9 | 36.7 | 42.2 | 47.6 | 50.2 | 40.6 | 42.4 | 49.2 | 41.4 |
| 1975 | 50.1 | 50.6 | 62.9 | 43.8 | 45.1 | 53.7 | 53.5 | 43.5 | 47.5 | 53.3 | 46.6 |
| 1976 | 55.1 | 55.6 | 66.9 | 50.3 | 47.0 | 57.6 | 61.8 | 47.8 | 52.0 | 56.5 | 51.3 |
| 1977 | 59.0 | 59.7 | 70.4 | 54.7 | 49.7 | 61.9 | 67.2 | 50.0 | 57.0 | 60.2 | 56.4 |
| 1978 | 61.7 | 62.5 | 75.8 | 55.8 | 51.8 | 67.0 | 69.9 | 51.5 | 61.8 | 64.4 | 61.2 |
| 1979 | 70.5 | 71.7 | 81.8 | 60.2 | 70.1 | 73.7 | 75.2 | 54.9 | 67.5 | 69.0 | 67.2 |
| 1980 | 83.1 | 84.2 | 88.4 | 62.3 | 97.4 | 81.5 | 84.3 | 69.0 | 74.9 | 75.4 | 74.8 |
| 1981 | 93.2 | 93.8 | 93.7 | 76.9 | 108.5 | 89.2 | 91.4 | 85.6 | 82.9 | 83.7 | 82.8 |
| 1982 | 97.0 | 97.1 | 97.4 | 88.8 | 102.8 | 96.0 | 97.7 | 94.9 | 92.5 | 92.3 | 92.6 |
| 1983 | 99.3 | 99.3 | 99.9 | 98.7 | 99.4 | 100.3 | 98.8 | 99.5 | 100.6 | 100.2 | 100.7 |
| 1984 | 103.7 | 103.6 | 102.8 | 112.5 | 97.9 | 103.8 | 103.5 | 105.7 | 106.8 | 107.5 | 106.7 |
| 1985 | 106.4 | 106.2 | 106.1 | 113.7 | 98.7 | 106.8 | 109.0 | 110.5 | 113.5 | 115.2 | 113.2 |
| 1986 | 102.3 | 101.2 | 110.6 | 108.8 | 77.1 | 110.3 | 115.1 | 117.0 | 122.0 | 122.8 | 121.9 |
| 1987 | 105.4 | 104.2 | 114.6 | 113.1 | 80.2 | 114.8 | 120.8 | 121.1 | 130.1 | 131.0 | 130.0 |
| 1988 | 108.7 | 107.6 | 116.9 | 118.0 | 80.9 | 119.7 | 127.9 | 123.3 | 138.6 | 139.9 | 138.3 |
| 1989 | 114.1 | 112.9 | 119.2 | 120.4 | 88.5 | 124.9 | 135.8 | 129.5 | 149.3 | 150.8 | 148.9 |
| 1990 | 120.5 | 118.8 | 121.0 | 117.6 | 101.2 | 130.1 | 142.5 | 142.6 | 162.8 | 163.4 | 162.7 |
| 1991 | 123.8 | 121.9 | 125.3 | 118.1 | 99.4 | 136.0 | 149.1 | 148.9 | 177.0 | 176.8 | 177.1 |
| 1992 | 126.5 | 124.6 | 128.4 | 123.2 | 99.0 | 141.3 | 153.2 | 151.4 | 190.1 | 188.1 | 190.5 |
| 1993 | 130.4 | 127.5 | 131.5 | 133.9 | 98.0 | 145.9 | 156.8 | 167.0 | 201.4 | 195.0 | 202.9 |
| 1994 | 134.3 | 131.4 | 136.0 | 141.7 | 98.5 | 150.2 | 162.1 | 172.0 | 211.0 | 200.7 | 213.4 |
| 1995 | 139.1 | 136.3 | 139.0 | 156.5 | 100.0 | 154.0 | 170.6 | 175.9 | 220.5 | 204.5 | 224.2 |
| 1994: Jan ....................... |  | 128.2 | 134.7 | 136.8 | 92.6 | 148.1 | 159.5 | 175.3 | 206.4 | 197.8 | 208.4 |
| 1994. Jab ................................ | 131.9 | 128.5 | 135.0 | 134.1 | 93.6 | 148.6 | 159.7 | 175.9 | 207.7 | 198.7 | 209.8 |
| Mar ...................... | 132.2 | 128.6 | 135.3 | 133.6 | 93.3 | 149.0 | 160.2 | 178.5 | 208.3 | 199.1 | 210.4 |
| Apr ...................... | 132.6 | 129.2 | 135.4 | 135.3 | 94.8 | 149.4 | 160.4 | 176.5 | 209.2 | 199.7 | 211.4 |
| May ..................... | 132.8 | 130.0 | 135.7 | 137.9 | 96.0 | 149.7 | 160.8 | 169.9 | 209.7 | 200.1 | 212.0 |
| June ..................... | 133.8 | 131.0 | 135.8 | 140.9 | 98.2 | 149.8 | 161.3 | 169.9 | 210.4 | 200.5 | 212.6 |
| July ....................... | 134.6 | 131.8 | 135.8 | 142.6 | 100.5 | 150.0 | 161.5 | 171.4 | 211.5 | 201.3 | 213.8 |
| Aug ...................... | 135.9 | 133.0 | 135.6 | 144.0 | 104.1 | 150.7 | 162.0 | 173.2 | 212.2 | 201.7 | 214.7 |
| Sept | 135.9 | 133.1 | 135.7 | 145.4 | 103.7 | 151.2 | 162.1 | 171.7 | 212.8 | 201.7 | 215.4 |
| Oct | 136.1 | 133.6 | 136.6 | 147.7 | 101.8 | 151.7 | 164.1 | 168.4 | 214.0 | 202.2 | 216.8 |
| Nov ...................... | 137.1 | 134.8 | 137.7 | 150.1 | 102.7 | 151.8 | 166.2 | 167.2 | 214.7 | 202.7 | 217.5 |
| Dec ...................... | 137.1 | 134.9 | 138.5 | 151.5 | 100.4 | 151.9 | 167.6 | 165.6 | 215.3 | 202.9 | 218.2 |
| 1995: Jan ....................... | 137.3 | 134.9 | 139.0 | 152.4 | 98.7 | 152.0 | 168.8 | 168.4 | 216.6 | 203.1 | 219.8 |
| Feb ........................... | 137.5 | 135.0 | 139.1 | 153.3 | 98.0 | 152.5 | 169.4 | 169.9 | 217.9 | 203.5 | 221.3 |
| Mar .. | 138.0 | 135.2 | 139.0 | 154.8 | 97.5 | 152.7 | 170.2 | 174.5 | 218.4 | 203.7 | 221.8 |
| Apr ...................... | 139.1 | 136.2 | 139.3 | 156.7 | 99.5 | 153.2 | 170.9 | 176.7 | 218.9 | 203.6 | 222.4 |
| May ..................... | 140.3 | 137.5 | 139.3 | 157.7 | 104.2 | 153.8 | 170.5 | 176.7 | 219.3 | 203.4 | 223.0 |
| June. | 141.1 | 137.9 | 139.1 | 158.3 | 106.1 | 153.6 | 169.9 | 182.5 | 219.8 | 203.8 | 223.5 |
| July ....................... | 140.1 | 136.9 | 138.3 | 157.5 | 103.6 | 154.0 | 169.6 | 181.8 | 220.8 | 204.4 | 224.6 |
| Aug ...................... | 139.2 | 136.3 | 137.9 | 157.0 | 101.1 | 154.5 | 170.3 | 177.1 | 221.6 | 204.7 | 225.6 |
| Sept ...................... | 138.8 | 135.9 | 137.8 | 156.5 | 99.8 | 155.1 | 170.1 | 176.1 | 222.1 | 204.8 | 226.1 |
| Oct ....................... | 139.4 | 136.3 | 138.6 | 157.2 | 98.3 | 155.4 | 172.0 | 178.7 | 222.9 | 205.7 | 226.9 |
| Nov ...................... | 139.4 | 136.5 | 140.1 | 157.8 | 96.4 | 155.7 | 172.7 | 177.5 | 223.5 | 206.3 | 227.4 |
| Dec ...................... | 139.1 | 136.6 | 140.7 | 158.2 | 96.4 | 155.7 | 172.4 | 170.7 | 223.8 | 206.6 | 227.8 |

[^46]Note.- See Note, Table B-56.

Table B-58.-Consumer price indexes for commodities, services, and special groups, 1950-95
[For all urban consumers; 1982-84=100, except as noted]

| Year or month | All items (CPI-U) | Commodities |  |  | Services |  |  | Special indexes |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { All } \\ \text { com- } \\ \text { modities } \end{gathered}$ | Food | Com- modities less food | $\begin{array}{\|c\|} \text { All } \\ \text { services } \end{array}$ | Medical care services | Services less medical care services | All items less food | All items less energy | All items less food and energy | All items less medical care | $\begin{gathered} \text { CPI-U-X1 } \\ \text { (all items) } \\ \text { (Dec. 1982 } \\ =97.6)^{1} \end{gathered}$ |
| 1950 | 24.1 | 29.0 | 25.4 | 31.4 | 16.9 | 12.8 |  | 23.8 |  |  |  | 26.2 |
| 1951 | 26.0 | 31.6 | 28.2 | 33.8 | 17.8 | 13.4 |  | 25.3 |  |  |  | 28.3 |
| 1952 | 26.5 | 32.0 | 28.7 | 34.1 | 18.6 | 14.3 |  | 25.9 |  |  | ........... | 28.8 |
| 1953 | 26.7 | 31.9 | 28.3 | 34.2 | 19.4 | 14.8 |  | 26.4 |  |  |  | 29.0 |
| 1954 | 26.9 | 31.6 | 28.2 | 33.8 | 20.0 | 15.3 |  | 26.6 |  |  |  | 29.2 |
| 1955 | 26.8 | 31.3 | 27.8 | 33.6 | 20.4 | 15.7 |  | 26.6 |  |  |  | 29.1 |
| 1956 | 27.2 | 31.6 | 28.0 | 33.9 | 20.9 | 16.3 |  | 27.1 |  |  |  | 29.6 |
| 1957 | 28.1 | 32.6 | 28.9 | 34.9 | 21.8 | 17.0 | 22.8 | 28.0 | 28.9 | 28.9 | 28.7 | 30.5 |
| 1958 | 28.9 | 33.3 | 30.2 | 35.3 | 22.6 | 17.9 | 23.6 | 28.6 | 29.7 | 29.6 | 29.5 | 31.4 |
| 1959 .................. | 29.1 | 33.3 | 29.7 | 35.8 | 23.3 | 18.7 | 24.2 | 29.2 | 29.9 | 30.2 | 29.8 | 31.6 |
| 1960 | 29.6 | 33.6 | 30.0 | 36.0 | 24.1 | 19.5 | 25.0 | 29.7 | 30.4 | 30.6 | 30.2 | 32.2 |
| 1961 | 29.9 | 33.8 | 30.4 | 36.1 | 24.5 | 20.2 | 25.4 | 30.0 | 30.7 | 31.0 | 30.5 | 32.5 |
| 1962 | 30.2 | 34.1 | 30.6 | 36.3 | 25.0 | 20.9 | 25.9 | 30.3 | 31.1 | 31.4 | 30.8 | 32.8 |
| 1963 | 30.6 | 34.4 | 31.1 | 36.6 | 25.5 | 21.5 | 26.3 | 30.7 | 31.5 | 31.8 | 31.1 | 33.3 |
| 1964 | 31.0 | 34.8 | 31.5 | 36.9 | 26.0 | 22.0 | 26.8 | 31.1 | 32.0 | 32.3 | 31.5 | 33.7 |
| 1965 | 31.5 | 35.2 | 32.2 | 37.2 | 26.6 | 22.7 | 27.4 | 31.6 | 32.5 | 32.7 | 32.0 | 34.2 |
| 1966 | 32.4 | 36.1 | 33.8 | 37.7 | 27.6 | 23.9 | 28.3 | 32.3 | 33.5 | 33.5 | 33.0 | 35.2 |
| 1967 | 33.4 | 36.8 | 34.1 | 38.6 | 28.8 | 26.0 | 29.3 | 33.4 | 34.4 | 34.7 | 33.7 | 36.3 |
| 1968 | 34.8 | 38.1 | 35.3 | 40.0 | 30.3 | 27.9 | 30.8 | 34.9 | 35.9 | 36.3 | 35.1 | 37.7 |
| 1969 .................. | 36.7 | 39.9 | 37.1 | 41.7 | 32.4 | 30.2 | 32.9 | 36.8 | 38.0 | 38.4 | 37.0 | 39.4 |
| 1970 | 38.8 | 41.7 | 39.2 | 43.4 | 35.0 | 32.3 | 35.6 | 39.0 | 40.3 | 40.8 | 39.2 | 41.3 |
| 1971 | 40.5 | 43.2 | 40.4 | 45.1 | 37.0 | 34.7 | 37.5 | 40.8 | 42.0 | 42.7 | 40.8 | 43.1 |
| 1972 | 41.8 | 44.5 | 42.1 | 46.1 | 38.4 | 35.9 | 38.9 | 42.0 | 43.4 | 44.0 | 42.1 | 44.4 |
| 1973 | 44.4 | 47.8 | 48.2 | 47.7 | 40.1 | 37.5 | 40.6 | 43.7 | 46.1 | 45.6 | 44.8 | 47.2 |
| 1974 | 49.3 | 53.5 | 55.1 | 52.8 | 43.8 | 41.4 | 44.3 | 48.0 | 50.6 | 49.4 | 49.8 | 51.9 |
| 1975 | 53.8 | 58.2 | 59.8 | 57.6 | 48.0 | 46.6 | 48.3 | 52.5 | 55.1 | 53.9 | 54.3 | 56.2 |
| 1976 | 56.9 | 60.7 | 61.6 | 60.5 | 52.0 | 51.3 | 52.2 | 56.0 | 58.2 | 57.4 | 57.2 | 59.4 |
| 1977 | 60.6 | 64.2 | 65.5 | 63.8 | 56.0 | 56.4 | 55.9 | 59.6 | 61.9 | 61.0 | 60.8 | 63.2 |
| 1978 | 65.2 | 68.8 | 72.0 | 67.5 | 60.8 | 61.2 | 60.7 | 63.9 | 66.7 | 65.5 | 65.4 | 67.5 |
| 1979 ................... | 72.6 | 76.6 | 79.9 | 75.3 | 67.5 | 67.2 | 67.5 | 71.2 | 73.4 | 71.9 | 72.9 | 74.0 |
| 1980 | 82.4 | 86.0 | 86.8 | 85.7 | 77.9 | 74.8 | 78.2 | 81.5 | 81.9 | 80.8 | 82.8 | 82.3 |
| 1981 | 90.9 | 93.2 | 93.6 | 93.1 | 88.1 | 82.8 | 88.7 | 90.4 | 90.1 | 89.2 | 91.4 | 90.1 |
| 1982 | 96.5 | 97.0 | 97.4 | 96.9 | 96.0 | 92.6 | 96.4 | 96.3 | 96.1 | 95.8 | 96.8 | 95.6 |
| 1983 | 99.6 | 99.8 | 99.4 | 100.0 | 99.4 | 100.7 | 99.2 | 99.7 | 99.6 | 99.6 | 99.6 | 99.6 |
| 1984 | 103.9 | 103.2 | 103.2 | 103.1 | 104.6 | 106.7 | 104.4 | 104.0 | 104.3 | 104.6 | 103.7 | 103.9 |
| 1985 | 107.6 | 105.4 | 105.6 | 105.2 | 109.9 | 113.2 | 109.6 | 108.0 | 108.4 | 109.1 | 107.2 | 107.6 |
| 1986 | 109.6 | 104.4 | 109.0 | 101.7 | 115.4 | 121.9 | 114.6 | 109.8 | 112.6 | 113.5 | 108.8 | 109.6 |
| 1987 | 113.6 | 107.7 | 113.5 | 104.3 | 120.2 | 130.0 | 119.1 | 113.6 | 117.2 | 118.2 | 112.6 | 113.6 |
| 1988 | 118.3 | 111.5 | 118.2 | 107.7 | 125.7 | 138.3 | 124.3 | 118.3 | 122.3 | 123.4 | 117.0 | 118.3 |
| 1989 | 124.0 | 116.7 | 125.1 | 112.0 | 131.9 | 148.9 | 130.1 | 123.7 | 128.1 | 129.0 | 122.4 | 124.0 |
| 1990 | 130.7 | 122.8 | 132.4 | 117.4 | 139.2 | 162.7 | 136.8 | 130.3 | 134.7 | 135.5 | 128.8 | 130.7 |
| 1991 | 136.2 | 126.6 | 136.3 | 121.3 | 146.3 | 177.1 | 143.3 | 136.1 | 140.9 | 142.1 | 133.8 | 136.2 |
| 1992 | 140.3 | 129.1 | 137.9 | 124.2 | 152.0 | 190.5 | 148.4 | 140.8 | 145.4 | 147.3 | 137.5 | 140.3 |
| 1993 | 144.5 | 131.5 | 140.9 | 126.3 | 157.9 | 202.9 | 153.6 | 145.1 | 150.0 | 152.2 | 141.2 | 144.5 |
| 1994 | 148.2 | 133.8 | 144.3 | 127.9 | 163.1 | 213.4 | 158.4 | 149.0 | 154.1 | 156.5 | 144.7 | 148.2 |
| 1995 .................. | 152.4 | 136.4 | 148.4 | 129.8 | 168.7 | 224.2 | 163.5 | 153.1 | 158.7 | 161.2 | 148.6 | 152.4 |
| 1994: Jan | 146.2 | 132.0 | 143.7 | 125.6 | 160.7 | 208.4 | 156.2 | 146.6 | 152.2 | 154.3 | 142.8 | 146.2 |
| Feb ............. | 146.7 | 132.2 | 142.9 | 126.2 | 161.5 | 209.8 | 157.0 | 147.3 | 152.6 | 155.0 | 143.2 | 146.7 |
| Mar ............ | 147.2 | 132.8 | 143.2 | 127.0 | 162.1 | 210.4 | 157.5 | 148.0 | 153.3 | 155.8 | 143.8 | 147.2 |
| Apr ............ | 147.4 | 133.1 | 143.4 | 127.4 | 162.0 | 211.4 | 157.4 | 148.1 | 153.4 | 155.9 | 143.9 | 147.4 |
| May ........... | 147.5 | 133.4 | 143.5 | 127.8 | 162.0 | 212.0 | 157.4 | 148.3 | 153.5 | 156.0 | 144.0 | 147.5 |
| June ........... | 148.0 | 133.5 | 143.5 | 127.9 | 162.8 | 212.6 | 158.2 | 148.8 | 153.7 | 156.2 | 144.5 | 148.0 |
| July ........... | 148.4 | 133.7 | 144.2 | 127.8 | 163.4 | 213.8 | 158.7 | 149.1 | 154.0 | 156.4 | 144.8 | 148.4 |
| Aug ........... | 149.0 | 134.3 | 144.8 | 128.4 | 164.2 | 214.7 | 159.4 | 149.8 | 154.6 | 157.0 | 145.5 | 149.0 |
| Sept ........... | 149.4 | 134.8 | 145.0 | 129.0 | 164.4 | 215.4 | 159.6 | 150.2 | 155.0 | 157.5 | 145.8 | 149.4 |
| Oct ............ | 149.5 | 134.9 | 145.0 | 129.3 | 164.6 | 216.8 | 159.7 | 150.4 | 155.5 | 158.0 | 145.9 | 149.5 |
| Nov ............ | 149.7 | 135.2 | 145.3 | 129.5 | 164.7 | 217.5 | 159.8 | 150.6 | 155.7 | 158.2 | 146.1 | 149.7 |
| Dec ............ | 149.7 | 135.1 | 146.8 | 128.5 | 164.7 | 218.2 | 159.7 | 150.2 | 155.7 | 157.9 | 146.0 | 149.7 |
| 1995:Jan ............ | 150.3 | 135.1 | 147.5 | 128.3 | 165.9 | 219.8 | 160.9 | 150.8 | 156.5 | 158.7 | 146.6 | 150.3 |
| Feb ............. | 150.9 | 135.4 | 147.4 | 128.8 | 166.7 | 221.3 | 161.6 | 151.5 | 157.2 | 159.6 | 147.1 | 150.9 |
| Mar ............ | 151.4 | 135.9 | 147.4 | 129.5 | 167.3 | 221.8 | 162.2 | 152.1 | 157.8 | 160.4 | 147.6 | 151.4 |
| Apr ............ | 151.9 | 136.6 | 148.4 | 130.1 | 167.5 | 222.4 | 162.4 | 152.5 | 158.3 | 160.7 | 148.1 | 151.9 |
| May ........... | 152.2 | 136.9 | 148.3 | 130.6 | 167.7 | 223.0 | 162.6 | 152.9 | 158.3 | 160.8 | 148.4 | 152.2 |
| June ........... | 152.5 | 136.6 | 147.9 | 130.4 | 168.6 | 223.5 | 163.5 | 153.3 | 158.3 | 160.9 | 148.7 | 152.5 |
| July ............ | 152.5 | 136.2 | 148.1 | 129.5 | 169.2 | 224.6 | 164.1 | 153.4 | 158.5 | 161.1 | 148.7 | 152.5 |
| Aug ........... | 152.9 | 136.3 | 148.4 | 129.7 | 169.8 | 225.6 | 164.6 | 153.7 | 159.0 | 161.6 | 149.0 | 152.9 |
| Sept ........... | 153.2 | 136.8 | 148.9 | 130.1 | 170.0 | 226.1 | 164.7 | 154.0 | 159.5 | 162.1 | 149.4 | 153.2 |
| Oct ............. | 153.7 | 137.2 | 149.4 | 130.5 | 170.4 | 226.9 | 165.1 | 154.4 | 160.2 | 162.8 | 149.8 | 153.7 |
| Nov ............ | 153.6 | 137.2 | 149.4 | 130.4 | 170.3 | 227.4 | 165.0 | 154.4 | 160.3 | 163.0 | 149.7 | 153.6 |
| Dec ............ | 153.5 | 137.0 | 149.9 | 129.9 | 170.4 | 227.8 | 165.0 | 154.2 | 160.2 | 162.7 | 149.6 | 153.5 |

[^47]Table B-59.-Changes in special consumer price inderes, 1958-95
[For all urban consumers; percent change]

| Year or month | All items (CPI-U) |  | All items lessfood food |  | All items less energy |  | All items less food and energy |  | All items less medical care |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Dec. } \\ \text { to } \\ \text { Dec. }{ }^{1} \end{gathered}$ | $\begin{gathered} \text { Year } \\ \text { to } \\ \text { year } \end{gathered}$ | $\begin{gathered} \text { Dec. } \\ \text { to } \\ \text { Dec. }{ }^{1} \end{gathered}$ | $\begin{gathered} \text { Year } \\ \text { to } \\ \text { year } \end{gathered}$ | $\begin{gathered} \text { Dec. } \\ \text { to } \\ \text { Dec. }{ }^{1} \end{gathered}$ | $\begin{gathered} \text { Year } \\ \text { to } \\ \text { year } \end{gathered}$ | $\begin{gathered} \text { Dec. } \\ \text { to } \\ \text { Dec. }{ }^{1} \end{gathered}$ | $\begin{gathered} \text { Year } \\ \text { to } \\ \text { year } \end{gathered}$ | $\begin{gathered} \text { Dec. } \\ \text { to } \\ \text { Dec. }^{1} \end{gathered}$ | $\begin{aligned} & \text { Year } \\ & \text { to } \\ & \text { year } \end{aligned}$ |
| 1958 ...................... | 1.8 | 2.8 | 1.8 | 2.1 | 2.1 | 2.8 | 1.7 | 2.4 | 1.7 | 2.8 |
| 1959 ..................... | 1.7 | 7 | 2.1 | 2.1 | 1.3 | . 7 | 2.0 | 2.0 | 1.4 | 1.0 |
| 1960 ...................... | 1.4 | 1.7 | 1.0 | 1.7 | 1.3 | 1.7 | 1.0 | 1.3 | 1.3 | 1.3 |
| 1961 ..................... | . 7 | 1.0 | 1.3 | 1.0 | . 7 | 1.0 | 1.3 | 1.3 | . 3 | 1.0 |
| 1962 ..................... | 1.3 | 1.0 | 1.0 | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.0 |
| 1963 ..................... | 1.6 | 1.3 | 1.6 | 1.3 | 1.9 | 1.3 | 1.6 | 1.3 | 1.6 | 1.0 |
| 1964 ..................... | 1.0 | 1.3 | 1.0 | 1.3 | 1.3 | 1.6 | 1.2 | 1.6 | 1.0 | 1.3 |
| 1965 ...................... | 1.9 | 1.6 | 1.6 | 1.6 | 1.9 | 1.6 | 1.5 | 1.2 | 1.9 | 1.6 |
| 1966 ...................... | 3.5 | 2.9 | 3.5 | 2.2 | 3.4 | 3.1 | 3.3 | 2.4 | 3.4 | 3.1 |
| 1967 ..................... | 3.0 | 3.1 | 3.3 | 3.4 | 3.2 | 2.7 | 3.8 | 3.6 | 2.7 | 2.1 |
| 1968 ...................... | 4.7 | 4.2 | 5.0 | 4.5 | 4.9 | 4.4 | 5.1 | 4.6 | 4.7 | 4.2 |
| 1969 ..................... | 6.2 | 5.5 | 5.6 | 5.4 | 6.5 | 5.8 | 6.2 | 5.8 | 6.1 | 5.4 |
| 1970 .... | 5.6 | 5.7 | 6.6 | 6.0 | 5.4 | 6.1 | 6.6 | 6.3 | 5.2 | 5.9 |
| 1971 ...................... | 3.3 | 4.4 | 3.0 | 4.6 | 3.4 | 4.2 | 3.1 | 4.7 | 3.2 | 4.1 |
| 1972 | 3.4 | 3.2 | 2.9 | 2.9 | 3.5 | 3.3 | 3.0 | 3.0 | 3.4 | 3.2 |
| 1973 ..................... | 8.7 | 6.2 | 5.6 | 4.0 | 8.2 | 6.2 | 4.7 | 3.6 | 9.1 | 6.4 |
| 1974 ...................... | 12.3 | 11.0 | 12.2 | 9.8 | 11.7 | 9.8 | 11.1 | 8.3 | 12.2 | 11.2 |
| 1975 .................... | 6.9 | 9.1 | 7.3 | 9.4 | 6.6 | 8.9 | 6.7 | 9.1 | 6.7 | 9.0 |
| 1976 ...................... | 4.9 | 5.8 | 6.1 | 6.7 | 4.8 | 5.6 | 6.1 | 6.5 | 4.5 | 5.3 |
| 1977 ...................... | 6.7 | 6.5 | 6.4 | 6.4 | 6.7 | 6.4 | 6.5 | 6.3 | 6.7 | 6.3 |
| 1978 ..................... | 9.0 | 7.6 | 8.3 | 7.2 | 9.1 | 7.8 | 8.5 | 7.4 | 9.1 | 7.6 |
| 1979 ..................... | 13.3 | 11.3 | 14.0 | 11.4 | 11.1 | 10.0 | 11.3 | 9.8 | 13.4 | 11.5 |
| 1980 ..................... | 12.5 | 13.5 | 13.0 | 14.5 | 11.7 | 11.6 | 12.2 | 12.4 | 12.5 | 13.6 |
| 1981 ..................... | 8.9 | 10.3 | 9.8 | 10.9 | 8.5 | 10.0 | 9.5 | 10.4 | 8.8 | 10.4 |
| 1982 ..................... | 3.8 | 6.2 | 4.1 | 6.5 | 4.2 | 6.7 | 4.5 | 7.4 | 3.6 | 5.9 |
| 1983 ..................... | 3.8 | 3.2 | 4.1 | 3.5 | 4.5 | 3.6 | 4.8 | 4.0 | 3.6 | 2.9 |
| 1984 ..................... | 3.9 | 4.3 | 3.9 | 4.3 | 4.4 | 4.7 | 4.7 | 5.0 | 3.9 | 4.1 |
| 1985 ... | 3.8 | 3.6 | 4.1 | 3.8 | 4.0 | 3.9 | 4.3 | 4.3 | 3.5 | 3.4 |
| 1986 .................... | 1.1 | 1.9 | . 5 | 1.7 | 3.8 | 3.9 | 3.8 | 4.0 | . 7 | 1.5 |
| 1987 ..................... | 4.4 | 3.6 | 4.6 | 3.5 | 4.1 | 4.1 | 4.2 | 4.1 | 4.3 | 3.5 |
| 1988 .... | 4.4 | 4.1 | 4.2 | 4.1 | 4.7 | 4.4 | 4.7 | 4.4 | 4.2 | 3.9 |
| 1989 ...................... | 4.6 | 4.8 | 4.5 | 4.6 | 4.6 | 4.7 | 4.4 | 4.5 | 4.5 | 4.6 |
| 1990 ... | 6.1 | 5.4 | 6.3 | 5.3 | 5.2 | 5.2 | 5.2 | 5.0 | 5.9 | 5.2 |
| 1991 ...................... | 3.1 | 4.2 | 3.3 | 4.5 | 3.9 | 4.6 | 4.4 | 4.9 | 2.7 | 3.9 |
| 1992 | 2.9 | 3.0 | 3.2 | 3.5 | 3.0 | 3.2 | 3.3 | 3.7 | 2.7 | 2.8 |
| 1993 | 2.7 | 3.0 | 2.7 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 2.6 | 2.7 |
| 1994 | 2.7 | 2.6 | 2.6 | 2.7 | 2.6 | 2.7 | 2.6 | 2.8 | 2.5 | 2.5 |
|  | 2.5 | 2.8 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 2.5 | 2.7 |
|  | Percent change from preceding period |  |  |  |  |  |  |  |  |  |
|  | Unadjusted | Seasonally adjusted | Unadjusted | Seasonally adjusted | Unadjusted | Seasonally adjusted | Unadjusted | Seasonally adjusted | Unadjusted | Seasonally adjusted |
| 1994:Jan ................ | 0.3 | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.3 | 0.2 | 0.2 | 0.1 |
| Feb ................ | . 3 | . 3 | . 5 | . 3 | . 3 | . 2 | . 5 | . 2 | . 3 | . 2 |
| Mar ............... | 3 | 2 | . 5 | . 3 | . 5 | . 3 | . 5 | . 3 | . 4 | . |
| Apr ............... | 1 | . 2 | 1 | . 1 | . 1 | . 2 | . 1 | . 2 | . 1 | . 1 |
| May .............. | 1 | 1 | 1 | 2 | 1 | . 3 | . 1 | . 3 | . 1 | . 1 |
| June ............. | 3 | 3 | . 3 | 3 | 1 | . 3 | . 1 | . 3 | . 3 | . 3 |
| July ............... | . 3 | . 3 | . 2 | . 3 | . 2 | . 3 | . 1 | . 2 | . 2 | . 3 |
| Aug ................ | 4 | 4 | . 5 | . 3 | . 4 | . 3 | . 4 | . 3 | . 5 | . 3 |
| Sept ............... | 3 | . 2 | . 3 | . 2 | . 3 | . 2 | . 3 | . 2 | . 2 | . 1 |
| Oct ............... | . 1 | 1 | . 1 | . 1 | . 3 | . 2 | . 3 | . 2 | . 1 | . 1 |
| Nov ............... | . 1 | 1 | . 1 | . 2 | . 1 | . 1 | . 1 | . 2 | . 1 | . 1 |
| Dec ............... | 0 | 2 | -. 3 | . 1 | 0 | . 3 | -. 2 | . 1 | -. 1 | . 2 |
| 1995:Jan ................ | . 4 | . 3 | . 4 | . 4 | . 5 | . 3 | . 5 | . 4 | . 4 | . 3 |
| Feb ............... | . 4 | . 3 | . 5 | . 3 | . 4 | . 3 | . 6 | . 3 | . 3 | . 3 |
| Mar ............... | . 3 | . 2 | . 4 | . 3 | . 4 | . 3 | . 5 | . 3 | . 3 | . 2 |
| Apr ............... | . 3 | . 4 | . 3 | . 3 | . 3 | . 4 | . 2 | .4 | . 3 | . 4 |
| May .............. | . 2 | . 3 | . 3 | . 3 | 0 | . 2 | . 1 | . 2 | . 2 | . 2 |
| June .............. | . 2 | 1 | . 3 | . 2 | 0 | . 2 | . 1 | . 2 | . 2 | . 2 |
| July ............... | 0 | . 2 | . 1 | . 1 | . 1 | . 2 | . 1 | . 2 | 0 | . 1 |
| Aug .............. | . 3 | . 1 | . 2 | . 1 | . 3 | . 2 | . 3 | . 2 | . 2 | . 1 |
| Sept .............. | . 2 | . 1 | . 2 | . 1 | . 3 | . 3 | . 3 | . 2 | . 3 | . 1 |
| Oct ............... | . 3 | . 3 | . 3 | . 3 | . 4 | . 3 | . 4 | . 3 | . 3 | . 3 |
| Nov ................ | -. 1 | 0 | 0 | 0 | .1 | . 1 | . 1 | .1 | -. 1 | 0 |
| Dec ................ | -. 1 | . 2 | -. 1 | . 3 | -. 1 | . 1 | -. 2 | . 1 | -. 1 | . 2 |

${ }^{1}$ Changes from December to December are based on unadjusted indexes.
Note.- See Note, Table B-56.
Source: Department of Labor, Bureau of Labor Statistics.

Table B-60.-Changes in consumer price indexes for commodities and services, 1929-95
[For all urban consumers; percent change]


[^48]
## Note.- See Note, Table B-56.

Source: Department of Labor, Bureau of Labor Statistics.

Table B-61.-Producer price indexes by stage of processing, 1950-95
[1982=100]

| Year or month | Finished goods |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total finished goods | Consumer foods |  |  | Finished goods excluding consumer foods |  |  |  |  | Total finished consumer goods |
|  |  | Total | Crude | Processed | Total | Consumer goods |  |  | Capital equipment |  |
|  |  |  |  |  |  | Total | Durable | Nondurable |  |  |
| 1950 | 28.2 | 32.7 | 36.5 | 32.4 | ....... | 29.0 | 36.5 | 25.1 | 23.2 | 29.9 |
| 1951 | 30.8 | 36.7 | 41.9 | 36.2 | ......... | 31.1 | 38.9 | 27.0 | 25.5 | 32.7 |
| 1952 | 30.6 | 36.4 | 44.6 | 35.4 | ..... | 30.7 | 39.2 | 26.3 | 25.9 | 32.3 |
| 1953 | 30.3 | 34.5 | 41.6 | 33.6 | .......... | 31.0 | 39.5 | 26.6 | 26.3 | 31.7 |
| 1954 | 30.4 | 34.2 | 37.5 | 34.0 | .......... | 31.1 | 39.8 | 26.7 | 26.7 | 31.7 |
| 1955 | 30.5 | 33.4 | 39.1 | 32.7 | .......... | 31.3 | 40.2 | 26.8 | 27.4 | 31.5 |
| 1956 | 31.3 | 33.3 | 39.1 | 32.7 | .......... | 32.1 | 41.6 | 27.3 | 29.5 | 32.0 |
| 1957 | 32.5 | 34.4 | 38.5 | 34.1 | ........... | 32.9 | 42.8 | 27.9 | 31.3 | 32.9 |
| 1958 | 33.2 | 36.5 | 41.0 | 36.1 | .......... | 32.9 | 43.4 | 27.8 | 32.1 | 33.6 |
| 1959 | 33.1 | 34.8 | 37.3 | 34.7 | .... | 33.3 | 43.9 | 28.2 | 32.7 | 33.3 |
| 1960 | 33.4 | 35.5 | 39.8 | 35.2 | .......... | 33.5 | 43.8 | 28.4 | 32.8 | 33.6 |
| 1961 | 33.4 | 35.4 | 38.0 | 35.3 | .......... | 33.4 | 43.6 | 28.4 | 32.9 | 33.6 |
| 1962 | 33.5 | 35.7 | 38.4 | 35.6 | .......... | 33.4 | 43.4 | 28.4 | 33.0 | 33.7 |
| 1963 | 33.4 | 35.3 | 37.8 | 35.2 | .......... | 33.4 | 43.1 | 28.5 | 33.1 | 33.5 |
| 1964 | 33.5 | 35.4 | 38.9 | 35.2 | .......... | 33.3 | 43.3 | 28.4 | 33.4 | 33.6 |
| 1965 | 34.1 | 36.8 | 39.0 | 36.8 | .......... | 33.6 | 43.2 | 28.8 | 33.8 | 34.2 |
| 1966 | 35.2 | 39.2 | 41.5 | 39.2 |  | 34.1 | 43.4 | 29.3 | 34.6 | 35.4 |
| 1967 | 35.6 | 38.5 | 39.6 | 38.8 | 35.0 | 34.7 | 44.1 | 30.0 | 35.8 | 35.6 |
| 1968 | 36.6 | 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 | 40.5 | 44.5 | 45.8 | 44.7 | 39.6 | 38.7 | 48.9 | 33.5 | 41.7 | 40.2 |
| 1972 | 41.8 | 46.9 | 48.0 | 47.2 | 40.4 | 39.4 | 50.0 | 34.1 | 42.8 | 41.5 |
| 1973 | 45.6 | 56.5 | 63.6 | 55.8 | 42.0 | 41.2 | 50.9 | 36.1 | 44.2 | 46.0 |
| 1974 | 52.6 | 64.4 | 71.6 | 63.9 | 48.8 | 48.2 | 55.5 | 44.0 | 50.5 | 53.1 |
| 1975 | 58.2 | 69.8 | 71.7 | 70.3 | 54.7 | 53.2 | 61.0 | 48.9 | 58.2 | 58.2 |
| 1976 | 60.8 | 69.6 | 76.7 | 69.0 | 58.1 | 56.5 | 63.7 | 52.4 | 62.1 | 60.4 |
| 1977 | 64.7 | 73.3 | 79.5 | 72.7 | 62.2 | 60.6 | 67.4 | 56.8 | 66.1 | 64.3 |
| 1978 | 69.8 | 79.9 | 85.8 | 79.4 | 66.7 | 64.9 | 73.6 | 60.0 | 71.3 | 69.4 |
| 1979 | 77.6 | 87.3 | 92.3 | 86.8 | 74.6 | 73.5 | 80.8 | 69.3 | 77.5 | 77.5 |
| 1980 | 88.0 | 92.4 | 93.9 | 92.3 | 86.7 | 87.1 | 91.0 | 85.1 | 85.8 | 88.6 |
| 1981 | 96.1 | 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 | 101.6 | 101.0 | 102.4 | 100.9 | 101.8 | 101.2 | 102.8 | 100.5 | 102.8 | 101.3 |
| 1984 | 103.7 | 105.4 | 111.4 | 104.9 | 103.2 | 102.2 | 104.5 | 101.1 | 105.2 | 103.3 |
| 1985 | 104.7 | 104.6 | 102.9 | 104.8 | 104.6 | 103.3 | 106.5 | 101.7 | 107.5 | 103.8 |
| 1986 | 103.2 | 107.3 | 105.6 | 107.4 | 101.9 | 98.5 | 108.9 | 93.3 | 109.7 | 101.4 |
| 1987 | 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 | 124.4 | 123.0 | 124.4 | 117.4 | 115.3 | 120.4 | 111.5 | 122.9 | 118.2 |
| 1991 | 121.7 | 124.1 | 119.3 | 124.4 | 120.9 | 118.7 | 123.9 | 115.0 | 126.7 | 120.5 |
| 1992 | 123.2 | 123.3 | 107.6 | 124.4 | 123.1 | 120.8 | 125.7 | 117.3 | 129.1 | 121.7 |
| 1993 | 124.7 | 125.7 | 114.4 | 126.5 | 124.4 | 121.7 | 128.0 | 117.6 | 131.4 | 123.0 |
| 1994 | 125.5 | 126.8 | 111.3 | 127.9 | 125.1 | 121.6 | 130.9 | 116.2 | 134.1 | 123.3 |
| 1995 | 127.9 | 129.0 | 118.7 | 129.7 | 127.5 | 123.9 | 132.6 | 118.8 | 136.7 | 125.6 |
| 1994:Jan | 124.5 | 127.0 | 124.2 | 127.2 | 123.7 | 119.9 | 130.5 | 114.0 | 133.3 | 122.2 |
| Feb | 124.8 | 126.7 | 109.4 | 128.0 | 124.1 | 120.5 | 130.5 | 114.9 | 133.5 | 122.5 |
| Mar .......................................... | 124.9 | 127.5 | 112.2 | 128.7 | 124.1 | 120.4 | 130.5 | 114.7 | 133.6 | 122.6 |
| Apr ............................................. | 125.0 | 127.1 | 105.3 | 128.7 | 124.3 | 120.7 | 130.4 | 115.1 | 133.8 | 122.7 |
| May ......................................... | 125.3 | 126.6 | 103.1 | 128.3 | 124.8 | 121.2 | 130.9 | 115.6 | 134.1 | 122.9 |
| June ......................................... | 125.6 | 125.9 | 103.5 | 127.6 | 125.4 | 122.0 | 130.8 | 116.9 | 134.2 | 123.3 |
| July .......................................... | 126.0 | 126.2 | 106.3 | 127.7 | 125.8 | 122.5 | 130.9 | 117.5 | 134.2 | 123.8 |
| Aug .......................................... | 126.5 | 126.6 | 104.7 | 128.2 | 126.4 | 123.4 | 131.0 | 118.7 | 134.3 | 124.5 |
| Sept | 125.6 | 126.3 | 106.6 | 127.8 | 125.3 | 122.2 | 129.2 | 117.8 | 133.5 | 123.5 |
| Oct ........................................... | 125.8 | 126.1 | 104.3 | 127.7 | 125.6 | 122.0 | 132.1 | 116.3 | 134.8 | 123.4 |
| Nov ............................................ | 126.1 | 126.9 | 114.3 | 127.8 | 125.8 | 122.3 | 132.1 | 116.7 | 134.8 | 123.8 |
| Dec .......................................... | 126.2 | 128.6 | 142.3 | 127.5 | 125.5 | 121.8 | 132.2 | 115.9 | 135.1 | 123.9 |
| 1995:Jan ............................................ | 126.6 | 127.9 | 120.1 | 128.5 | 126.2 | 122.4 | 132.6 | 116.7 | 135.9 | 124.2 |
| Feb ............................................. | 126.9 | 128.4 | 117.2 | 129.2 | 126.4 | 122.6 | 132.7 | 116.9 | 136.1 | 124.5 |
| Mar ........................................... | 127.1 | 128.7 | 118.6 | 129.4 | 126.6 | 122.9 | 132.4 | 117.3 | 136.2 | 124.7 |
| Apr .......................................... | 127.6 | 128.7 | 130.8 | 128.5 | 127.2 | 123.6 | 132.4 | 118.4 | 136.4 | 125.2 |
| May ......................................... | 128.1 | 128.0 | 122.7 | 128.4 | 128.0 | 124.7 | 132.3 | 120.1 | 136.5 | 125.9 |
| June ......................................... | 128.2 | 127.4 | 111.0 | 128.6 | 128.3 | 125.1 | 132.0 | 120.8 | 136.4 | 126.0 |
| July .......................................... | 128.2 | 128.5 | 110.2 | 129.8 | 128.0 | 124.7 | 132.1 | 120.1 | 136.6 | 126.0 |
| Aug ${ }^{1}$......................................... | 128.1 | 128.8 | 108.2 | 130.3 | 127.8 | 124.4 | 131.9 | 119.8 | 136.6 | 125.9 |
| Sept .......................................... | 127.9 | 129.9 | 123.1 | 130.4 | 127.2 | 123.9 | 130.2 | 119.9 | 135.7 | 125.9 |
| Oct | 128.5 | 129.7 | 112.1 | 131.0 | 128.0 | 124.3 | 133.9 | 118.7 | 137.7 | 126.0 |
| Nov .......................................... | 128.6 | 130.9 | 125.9 | 131.3 | 127.8 | 123.9 | 134.5 | 117.8 | 138.0 | 126.1 |
| Dec ........................................... | 129.0 | 131.0 | 124.0 | 131.4 | 128.3 | 124.5 | 134.5 | 118.8 | 138.1 | 126.6 |

${ }^{1}$ Data have been revised through August 1995 to reflect the availability of late reports and corrections by respondents. All data are subject to revision 4 months after original publication.

See next page for continuation of table.

Table B-61.-Producer price indexes by stage of processing, 1950-95-Continued
[1982=100]

| Year or month | Intermediate materials, supplies, and components |  |  |  |  |  |  |  | Crude materials for further processing |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Foods and feeds ${ }^{2}$ | Other | Materials and components |  | Proc- <br> essed <br> fuels <br> and <br> lubri- <br> cants | Containers | Supplies | Total | Foodstuffs and feedstuffs | Other |  |  |
|  |  |  |  |  | For construction |  |  |  |  |  | Total | Fuel | Other |
| 1950 | 25.3 |  | 24.6 | 26.9 | 26.2 | 15.2 | 25.2 | 29.0 | 32.7 | 43.4 | .......... | 8.8 | 27.8 |
| 1951 | 28.4 | ..... | 27.6 | 30.5 | 28.7 | 15.9 | 29.6 | 32.6 | 37.6 | 50.2 | ... | 9.0 | 32.0 |
| 1952 | 27.5 | ..... | 26.7 | 29.3 | 28.5 | 15.7 | 28.0 | 32.6 | 34.5 | 47.3 |  | 9.0 | 27.8 |
| 1953 | 27.7 | .... | 27.0 | 29.7 | 29.0 | 15.8 | 28.0 | 31.0 | 31.9 | 42.3 |  | 9.3 | 26.6 |
| 1954 | 27.9 |  | 27.2 | 29.8 | 29.1 | 15.8 | 28.5 | 31.7 | 31.6 | 42.3 |  | 8.9 | 26.1 |
| 1955 | 28.4 |  | 28.0 | 30.5 | 30.3 | 15.8 | 28.9 | 31.2 | 30.4 | 38.4 |  | 8.9 | 27.5 |
| 1956 | 29.6 | ......... | 29.3 | 32.0 | 31.8 | 16.3 | 31.0 | 32.0 | 30.6 | 37.6 |  | 9.5 | 28.6 |
| 1957 | 30.3 | ........ | 30.1 | 32.7 | 32.0 | 17.2 | 32.4 | 32.3 | 31.2 | 39.2 |  | 10.1 | 28.2 |
| 1958 | 30.4 |  | 30.1 | 32.8 | 32.0 | 16.2 | 33.2 | 33.1 | 31.9 | 41.6 |  | 10.2 | 27.1 |
| 1959 | 30.8 | ........... | 30.5 | 33.3 | 32.9 | 16.2 | 33.0 | 33.5 | 31.1 | 38.8 | .......... | 10.4 | 28.1 |
| 1960 | 30.8 |  | 30.7 | 33.3 | 32.7 | 16.6 | 33.4 | 33.3 | 30.4 | 38.4 |  | 10.5 | 26.9 |
| 1961 | 30.6 | ......... | 30.3 | 32.9 | 32.2 | 16.8 | 33.2 | 33.7 | 30.2 | 37.9 |  | 10.5 | 27.2 |
| 1962 | 30.6 |  | 30.2 | 32.7 | 32.1 | 16.7 | 33.6 | 34.5 | 30.5 | 38.6 |  | 10.4 | 27.1 |
| 1963 | 30.7 |  | 30.1 | 32.7 | 32.2 | 16.6 | 33.2 | 35.0 | 29.9 | 37.5 |  | 10.5 | 26.7 |
| 1964 | 30.8 |  | 30.3 | 33.1 | 32.5 | 16.2 | 32.9 | 34.7 | 29.6 | 36.6 |  | 10.5 | 27.2 |
| 1965 | 31.2 |  | 30.7 | 33.6 | 32.8 | 16.5 | 33.5 | 35.0 | 31.1 | 39.2 |  | 10.6 | 27.7 |
| 1966 | 32.0 |  | 31.3 | 34.3 | 33.6 | 16.8 | 34.5 | 36.5 | 33.1 | 42.7 |  | 10.9 | 28.3 |
| 1967 | 32.2 | 41.8 | 31.7 | 34.5 | 34.0 | 16.9 | 35.0 | 36.8 | 31.3 | 40.3 | 21.1 | 11.3 | 26.5 |
| 1968 | 33.0 | 41.5 | 32.5 | 35.3 | 35.7 | 16.5 | 35.9 | 37.1 | 31.8 | 40.9 | 21.6 | 11.5 | 27.1 |
| 1969 | 34.1 | 42.9 | 33.6 | 36.5 | 37.7 | 16.6 | 37.2 | 37.8 | 33.9 | 44.1 | 22.5 | 12.0 | 28.4 |
| 1970 | 35.4 | 45.6 | 34.8 | 38.0 | 38.3 | 17.7 | 39.0 | 39.7 | 35.2 | 45.2 | 23.8 | 13.8 | 29.1 |
| 1971. | 36.8 | 46.7 | 36.2 | 38.9 | 40.8 | 19.5 | 40.8 | 40.8 | 36.0 | 46.1 | 24.7 | 15.7 | 29.4 |
| 1972 | 38.2 | 49.5 | 37.7 | 40.4 | 43.0 | 20.1 | 42.7 | 42.5 | 39.9 | 51.5 | 27.0 | 16.8 | 32.3 |
| 1973 | 42.4 | 70.3 | 40.6 | 44.1 | 46.5 | 22.2 | 45.2 | 51.7 | 54.5 | 72.6 | 34.3 | 18.6 | 42.9 |
| 1974 | 52.5 | 83.6 | 50.5 | 56.0 | 55.0 | 33.6 | 53.3 | 56.8 | 61.4 | 76.4 | 44.1 | 24.8 | 54.5 |
| 1975 | 58.0 | 81.6 | 56.6 | 61.7 | 60.1 | 39.4 | 60.0 | 61.8 | 61.6 | 77.4 | 43.7 | 30.6 | 50.0 |
| 1976 | 60.9 | 77.4 | 60.0 | 64.0 | 64.1 | 42.3 | 63.1 | 65.8 | 63.4 | 76.8 | 48.2 | 34.5 | 54.9 |
| 1977 | 64.9 | 79.6 | 64.1 | 67.4 | 69.3 | 47.7 | 65.9 | 69.3 | 65.5 | 77.5 | 51.7 | 42.0 | 56.3 |
| 1978 | 69.5 | 84.8 | 68.6 | 72.0 | 76.5 | 49.9 | 71.0 | 72.9 | 73.4 | 87.3 | 57.5 | 48.2 | 61.9 |
| 1979 | 78.4 | 94.5 | 77.4 | 80.9 | 84.2 | 61.6 | 79.4 | 80.2 | 85.9 | 100.0 | 69.6 | 57.3 | 75.5 |
| 1980 | 90.3 | 105.5 | 89.4 | 91.7 | 91.3 | 85.0 | 89.1 | 89.9 | 95.3 | 104.6 | 84.6 | 69.4 | 91.8 |
| 1981 | 98.6 | 104.6 | 98.2 | 98.7 | 97.9 | 100.6 | 96.7 | 96.9 | 103.0 | 103.9 | 101.8 | 84.8 | 109.8 |
| 1982 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1983 | 100.6 | 103.6 | 100.5 | 101.2 | 102.8 | 95.4 | 100.4 | 101.8 | 101.3 | 101.8 | 100.7 | 105.1 | 98.8 |
| 1984 | 103.1 | 105.7 | 103.0 | 104.1 | 105.6 | 95.7 | 105.9 | 104.1 | 103.5 | 104.7 | 102.2 | 105.1 | 101.0 |
| 1985 | 102.7 | 97.3 | 103.0 | 103.3 | 107.3 | 92.8 | 109.0 | 104.4 | 95.8 | 94.8 | 96.9 | 102.7 | 94.3 |
| 1986 | 99.1 | 96.2 | 99.3 | 102.2 | 108.1 | 72.7 | 110.3 | 105.6 | 87.7 | 93.2 | 81.6 | 92.2 | 76.0 |
| 1987 | 101.5 | 99.2 | 101.7 | 105.3 | 109.8 | 73.3 | 114.5 | 107.7 | 93.7 | 96.2 | 87.9 | 84.1 | 88.5 |
| 1988 | 107.1 | 109.5 | 106.9 | 113.2 | 116.1 | 71.2 | 120.1 | 113.7 | 96.0 | 106.1 | 85.5 | 82.1 | 85.9 |
| 1989 | 112.0 | 113.8 | 111.9 | 118.1 | 121.3 | 76.4 | 125.4 | 118.1 | 103.1 | 111.2 | 93.4 | 85.3 | 95.8 |
| 1990 | 114.5 | 113.3 | 114.5 | 118.7 | 122.9 | 85.9 | 127.7 | 119.4 | 108.9 | 113.1 | 101.5 | 84.8 | 107.3 |
| 1991 | 114.4 | 111.1 | 114.6 | 118.1 | 124.5 | 85.3 | 128.1 | 121.4 | 101.2 | 105.5 | 94.6 | 82.9 | 97.5 |
| 1992 | 114.7 | 110.7 | 114.9 | 117.9 | 126.5 | 84.5 | 127.7 | 122.7 | 100.4 | 105.1 | 93.5 | 84.0 | 94.2 |
| 1993 | 116.2 | 112.7 | 116.4 | 118.9 | 132.0 | 84.7 | 126.4 | 125.0 | 102.4 | 108.4 | 94.7 | 87.1 | 94.1 |
| 1994 | 118.5 | 114.8 | 118.7 | 122.1 | 136.6 | 83.1 | 129.7 | 127.0 | 101.8 | 106.5 | 94.8 | 82.4 | 97.0 |
| 1995 .......... | 124.9 | 114.8 | 125.5 | 130.5 | 142.2 | 84.1 | 148.9 | 132.1 | 102.6 | 105.8 | 96.6 | 71.7 | 105.7 |
| 1994:Jan | 116.2 | 116.8 | 116.2 | 119.5 | 135.0 | 79.5 | 126.2 | 126.4 | 103.2 | 112.2 | 93.5 | 93.8 | 88.6 |
| Feb ......... | 116.6 | 117.2 | 116.6 | 119.7 | 135.1 | 81.3 | 126.1 | 126.6 | 101.8 | 113.1 | 90.7 | 86.1 | 88.7 |
| Mar .......... | 116.8 | 117.4 | 116.8 | 120.0 | 135.5 | 81.0 | 126.0 | 126.6 | 104.1 | 114.2 | 93.7 | 91.0 | 90.5 |
| Apr ......... | 116.9 | 117.1 | 116.9 | 120.4 | 135.1 | 80.7 | 126.3 | 126.5 | 104.1 | 113.1 | 94.4 | 88.7 | 92.8 |
| May .... | 117.2 | 116.5 | 117.3 | 120.7 | 135.3 | 81.3 | 127.5 | 126.6 | 103.0 | 109.7 | 94.7 | 83.0 | 96.5 |
| June ... | 118.2 | 115.5 | 118.3 | 121.2 | 136.2 | 84.4 | 127.9 | 126.9 | 103.2 | 107.8 | 96.4 | 82.1 | 99.5 |
| July ......... | 118.7 | 113.4 | 119.0 | 121.7 | 136.3 | 85.9 | 128.2 | 126.9 | 102.2 | 103.6 | 97.3 | 78.3 | 103.0 |
| Aug ......... | 119.5 | 113.6 | 119.8 | 122.5 | 136.8 | 87.5 | 129.4 | 126.9 | 101.9 | 101.8 | 98.0 | 80.7 | 102.7 |
| Sept ... | 120.1 | 113.9 | 120.4 | 123.7 | 137.5 | 86.6 | 131.6 | 127.2 | 99.7 | 101.3 | 94.8 | 78.6 | 99.1 |
| Oct ..... | 120.0 | 112.2 | 120.4 | 124.5 | 138.0 | 83.0 | 133.9 | 127.5 | 98.2 | 98.9 | 94.0 | 74.8 | 100.0 |
| Nov ......... | 120.9 | 112.1 | 121.3 | 125.5 | 139.1 | 83.5 | 136.2 | 127.9 | 99.1 | 100.4 | 94.5 | 73.2 | 101.6 |
| Dec ......... | 121.1 | 111.5 | 121.6 | 126.2 | 139.4 | 82.3 | 137.4 | 128.4 | 100.5 | 101.6 | 95.9 | 77.8 | 101.3 |
| 1995:Jan .......... | 122.5 | 111.8 | 123.0 | 128.1 | 140.5 | 82.3 | 139.9 | 129.5 | 101.5 | 102.2 | 97.2 | 77.1 | 103.6 |
| Feb ......... | 123.4 | 111.8 | 124.0 | 129.3 | 141.0 | 82.5 | 144.6 | 130.0 | 102.6 | 104.1 | 97.7 | 72.3 | 107.0 |
| Mar .......... | 124.0 | 112.6 | 124.5 | 129.9 | 141.7 | 82.7 | 145.9 | 130.6 | 102.3 | 103.2 | 97.8 | 71.0 | 107.9 |
| Apr .......... | 124.7 | 111.7 | 125.4 | 130.7 | 142.2 | 83.5 | 146.9 | 131.2 | 103.6 | 101.8 | 100.7 | 71.9 | 111.8 |
| May ........ | 125.3 | 110.7 | 126.0 | 130.9 | 142.2 | 85.4 | 149.0 | 131.4 | 102.8 | 99.6 | 100.9 | 72.6 | 111.6 |
| June ........ | 125.8 | 111.6 | 126.6 | 131.0 | 142.0 | 87.4 | 151.4 | 131.9 | 103.4 | 102.1 | 100.1 | 74.1 | 109.7 |
| July .......... | 126.0 | 113.6 | 126.6 | 131.3 | 142.6 | 86.3 | 152.0 | 132.4 | 102.1 | 104.6 | 96.6 | 72.9 | 105.1 |
| Aug ${ }^{1}$....... | 126.0 | 114.8 | 126.6 | 131.3 | 142.9 | 86.0 | 152.0 | 132.7 | 100.5 | 104.8 | 93.8 | 66.5 | 104.4 |
| Sept ........ | 126.0 | 115.9 | 126.6 | 131.4 | 143.3 | 85.4 | 151.9 | 133.1 | 102.4 | 108.7 | 94.4 | 67.4 | 104.8 |
| Oct ........... | 125.3 | 118.7 | 125.7 | 131.0 | 142.9 | 82.6 | 151.4 | 133.5 | 101.6 | 109.3 | 92.9 | 69.9 | 101.1 |
| Nov ......... | 125.1 | 121.4 | 125.3 | 130.6 | 142.5 | 82.2 | 151.2 | 134.3 | 103.6 | 113.9 | 93.1 | 72.6 | 99.9 |
| Dec ......... | 125.1 | 123.0 | 125.2 | 129.9 | 142.1 | 83.2 | 150.6 | 134.7 | 104.6 | 114.7 | 94.1 | 72.1 | 101.7 |

[^49]Source: Department of Labor, Bureau of Labor Statistics.

Table B-62.-Producer price indexes by stage of processing, special groups, 1974-95
[1982=100]

| Year or month | Finished goods |  |  |  |  |  | Intermediate materials, supplies, and components |  |  |  | Crude materials for further processing |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Excluding foods and energy |  |  |  |  |  |  |  |  |  |  |
|  | Total | Foods | Energy | Total | Capital equipment | Con- <br> sumer goods excluding foods and energy | Total | Foods and feeds ${ }^{1}$ | Energy | Other | Total | Foodstuffs and feedstuffs | Energy | Other |
| 1974 | 52.6 | 64.4 | 26.2 | 53.6 | 50.5 | 55.5 | 52.5 | 83.6 | 33.1 | 54.0 | 61.4 | 76.4 | 27.8 | 83.3 |
| 1975 | 58.2 | 69.8 | 30.7 | 59.7 | 58.2 | 60.6 | 58.0 | 81.6 | 38.7 | 60.2 | 61.6 | 77.4 | 33.3 | 69.3 |
| 1976 | 60.8 | 69.6 | 34.3 | 63.1 | 62.1 | 63.7 | 60.9 | 77.4 | 41.5 | 63.8 | 63.4 | 76.8 | 35.3 | 80.2 |
| 1977 | 64.7 | 73.3 | 39.7 | 66.9 | 66.1 | 67.3 | 64.9 | 79.6 | 46.8 | 67.6 | 65.5 | 77.5 | 40.4 | 79.8 |
| 1978 | 69.8 | 79.9 | 42.3 | 71.9 | 71.3 | 72.2 | 69.5 | 84.8 | 49.1 | 72.5 | 73.4 | 87.3 | 45.2 | 87.8 |
| 1979 | 77.6 | 87.3 | 57.1 | 78.3 | 77.5 | 78.8 | 78.4 | 94.5 | 61.1 | 80.7 | 85.9 | 100.0 | 54.9 | 106.2 |
| 1980 | 88.0 | 92.4 | 85.2 | 87.1 | 85.8 | 87.8 | 90.3 | 105.5 | 84.9 | 90.3 | 95.3 | 104.6 | 73.1 | 113.1 |
| 1981 | 96.1 | 97.8 | 101.5 | 94.6 | 94.6 | 94.6 | 98.6 | 104.6 | 100.5 | 97.7 | 103.0 | 103.9 | 97.7 | 111.7 |
| 1982 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1983 | 101.6 | 101.0 | 95.2 | 103.0 | 102.8 | 103.1 | 100.6 | 103.6 | 95.3 | 101.6 | 101.3 | 101.8 | 98.7 | 105.3 |
| 1984 | 103.7 | 105.4 | 91.2 | 105.5 | 105.2 | 105.7 | 103.1 | 105.7 | 95.5 | 104.7 | 103.5 | 104.7 | 98.0 | 111.7 |
| 1985 | 104.7 | 104.6 | 87.6 | 108.1 | 107.5 | 108.4 | 102.7 | 97.3 | 92.6 | 105.2 | 95.8 | 94.8 | 93.3 | 104.9 |
| 1986 | 103.2 | 107.3 | 63.0 | 110.6 | 109.7 | 111.1 | 99.1 | 96.2 | 72.6 | 104.9 | 87.7 | 93.2 | 71.8 | 103.1 |
| 1987 | 105.4 | 109.5 | 61.8 | 113.3 | 111.7 | 114.2 | 101.5 | 99.2 | 73.0 | 107.8 | 93.7 | 96.2 | 75.0 | 115.7 |
| 1988 | 108.0 | 112.6 | 59.8 | 117.0 | 114.3 | 118.5 | 107.1 | 109.5 | 70.9 | 115.2 | 96.0 | 106.1 | 67.7 | 133.0 |
| 1989 .... | 113.6 | 118.7 | 65.7 | 122.1 | 118.8 | 124.0 | 112.0 | 113.8 | 76.1 | 120.2 | 103.1 | 111.2 | 75.9 | 137.9 |
| 1990 | 119.2 | 124.4 | 75.0 | 126.6 | 122.9 | 128.8 | 114.5 | 113.3 | 85.5 | 120.9 | 108.9 | 113.1 | 85.9 | 136.3 |
| 1991 | 121.7 | 124.1 | 78.1 | 131.1 | 126.7 | 133.7 | 114.4 | 111.1 | 85.1 | 121.4 | 101.2 | 105.5 | 80.4 | 128.2 |
| 1992 | 123.2 | 123.3 | 77.8 | 134.2 | 129.1 | 137.3 | 114.7 | 110.7 | 84.3 | 122.0 | 100.4 | 105.1 | 78.8 | 128.4 |
| 1993 | 124.7 | 125.7 | 78.0 | 135.8 | 131.4 | 138.5 | 116.2 | 112.7 | 84.6 | 123.8 | 102.4 | 108.4 | 76.7 | 140.2 |
| 1994 | 125.5 | 126.8 | 77.0 | 137.1 | 134.1 | 139.0 | 118.5 | 114.8 | 83.0 | 127.1 | 101.8 | 106.5 | 72.1 | 156.2 |
| 1995 | 127.9 | 129.0 | 78.1 | 139.9 | 136.7 | 141.9 | 124.9 | 114.8 | 84.0 | 135.2 | 102.6 | 105.8 | 69.2 | 173.6 |
| 1994:Jan .......... | 124.5 | 127.0 | 73.6 | 136.6 | 133.3 | 138.6 | 116.2 | 116.8 | 79.5 | 124.8 | 103.2 | 112.2 | 72.9 | 147.9 |
| Feb ......... | 124.8 | 126.7 | 74.9 | 136.7 | 133.5 | 138.7 | 116.6 | 117.2 | 81.1 | 124.9 | 101.8 | 113.1 | 68.3 | 152.0 |
| Mar ......... | 124.9 | 127.5 | 74.7 | 136.7 | 133.6 | 138.6 | 116.8 | 117.4 | 80.9 | 125.2 | 104.1 | 114.2 | 71.7 | 153.1 |
| Apr ....... | 125.0 | 127.1 | 75.5 | 136.7 | 133.8 | 138.5 | 116.9 | 117.1 | 80.6 | 125.4 | 104.1 | 113.1 | 72.5 | 153.3 |
| May ........ | 125.3 | 126.6 | 76.2 | 137.0 | 134.1 | 138.8 | 117.2 | 116.5 | 81.2 | 125.7 | 103.0 | 109.7 | 73.4 | 151.4 |
| June ........ | 125.6 | 125.9 | 78.3 | 137.1 | 134.2 | 138.9 | 118.2 | 115.5 | 84.2 | 126.3 | 103.2 | 107.8 | 75.2 | 152.4 |
| July ......... | 126.0 | 126.2 | 79.6 | 137.1 | 134.2 | 138.9 | 118.7 | 113.4 | 85.8 | 126.7 | 102.2 | 103.6 | 75.3 | 155.6 |
| Aug ......... | 126.5 | 126.6 | 81.4 | 137.2 | 134.3 | 139.0 | 119.5 | 113.6 | 87.3 | 127.3 | 101.9 | 101.8 | 75.6 | 157.9 |
| Sept ........ | 125.6 | 126.3 | 79.6 | 136.4 | 133.5 | 138.2 | 120.1 | 113.9 | 86.5 | 128.3 | 99.7 | 101.3 | 71.3 | 159.2 |
| Oct .......... | 125.8 | 126.1 | 77.1 | 137.8 | 134.8 | 139.6 | 120.0 | 112.2 | 83.0 | 129.2 | 98.2 | 98.9 | 70.2 | 159.3 |
| Nov .......... | 126.1 | 126.9 | 77.7 | 137.8 | 134.8 | 139.7 | 120.9 | 112.1 | 83.4 | 130.2 | 99.1 | 100.4 | 69.3 | 164.1 |
| Dec ........ | 126.2 | 128.6 | 75.9 | 138.1 | 135.1 | 140.0 | 121.1 | 111.5 | 82.2 | 130.9 | 100.5 | 101.6 | 69.9 | 168.4 |
| 1995:Jan .......... | 126.6 | 127.9 | 76.6 | 138.7 | 135.9 | 140.5 | 122.5 | 111.8 | 82.2 | 132.6 | 101.5 | 102.2 | 69.8 | 174.1 |
| Feb ......... | 126.9 | 128.4 | 76.6 | 139.0 | 136.1 | 140.8 | 123.4 | 111.8 | 82.4 | 133.8 | 102.6 | 104.1 | 69.6 | 177.0 |
| Mar ......... | 127.1 | 128.7 | 76.8 | 139.2 | 136.2 | 141.1 | 124.0 | 112.6 | 82.6 | 134.4 | 102.3 | 103.2 | 69.1 | 179.1 |
| Apr ......... | 127.6 | 128.7 | 78.2 | 139.4 | 136.4 | 141.3 | 124.7 | 111.7 | 83.5 | 135.2 | 103.6 | 101.8 | 72.0 | 181.4 |
| May ........ | 128.1 | 128.0 | 80.4 | 139.7 | 136.5 | 141.7 | 125.3 | 110.7 | 85.2 | 135.6 | 102.8 | 99.6 | 72.4 | 180.5 |
| June ......... | 128.2 | 127.4 | 81.4 | 139.7 | 136.4 | 141.7 | 125.8 | 111.6 | 87.3 | 135.7 | 103.4 | 102.1 | 71.5 | 180.6 |
| July .......... | 128.2 | 128.5 | 79.9 | 139.9 | 136.6 | 142.0 | 126.0 | 113.6 | 86.2 | 136.1 | 102.1 | 104.6 | 68.2 | 177.0 |
| Aug ${ }^{2}$...... | 128.1 | 128.8 | 79.4 | 139.8 | 136.6 | 141.9 | 126.0 | 114.8 | 85.9 | 136.1 | 100.5 | 104.8 | 65.6 | 174.0 |
| Sept ........ | 127.9 | 129.9 | 79.0 | 139.2 | 135.7 | 141.3 | 126.0 | 115.9 | 85.3 | 136.2 | 102.4 | 108.7 | 67.2 | 171.1 |
| Oct .......... | 128.5 | 129.7 | 76.8 | 141.1 | 137.7 | 143.2 | 125.3 | 118.7 | 82.5 | 135.8 | 101.6 | 109.3 | 66.9 | 165.6 |
| Nov ......... | 128.6 | 130.9 | 75.2 | 141.5 | 138.0 | 143.6 | 125.1 | 121.4 | 82.0 | 135.5 | 103.6 | 113.9 | 68.3 | 161.7 |
| Dec ......... | 129.0 | 131.0 | 76.6 | 141.6 | 138.1 | 143.8 | 125.1 | 123.0 | 83.1 | 135.0 | 104.6 | 114.7 | 69.9 | 160.7 |

[^50]${ }^{2}$ Data have been revised through August 1995 to reflect the availability of late reports and corrections by respondents. All data are subject to revision 4 months after original publication.
Source: Department of Labor, Bureau of Labor Statistics.

Table B-63.- Producer price indexes for major commodity groups, 1950-95
[1982=100]

| Year or month | Farm products and processed foods and feeds |  |  | Industrial commodities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Farm products | Processed foods and feeds | Total | Textile products and apparel | Hides, skins, leather, and related products | Fuels and related products and power ${ }^{1}$ | Chemicals and allied products ${ }^{1}$ |
| 1950 | 37.7 | 44.0 | 33.2 | 25.0 | 50.2 | 32.9 | 12.6 | 30.4 |
| 1951 | 43.0 | 51.2 | 36.9 | 27.6 | 56.0 | 37.7 | 13.0 | 34.8 |
| 1952 | 41.3 | 48.4 | 36.4 | 26.9 | 50.5 | 30.5 | 13.0 | 33.0 |
| 1953 | 38.6 | 43.8 | 34.8 | 27.2 | 49.3 | 31.0 | 13.4 | 33.4 |
| 1954 | 38.5 | 43.2 | 35.4 | 27.2 | 48.2 | 29.5 | 13.2 | 33.8 |
| 1955 | 36.6 | 40.5 | 33.8 | 27.8 | 48.2 | 29.4 | 13.2 | 33.7 |
| 1956 | 36.4 | 40.0 | 33.8 | 29.1 | 48.2 | 31.2 | 13.6 | 33.9 |
| 1957 | 37.7 | 41.1 | 34.8 | 29.9 | 48.3 | 31.2 | 14.3 | 34.6 |
| 1958 | 39.4 | 42.9 | 36.5 | 30.0 | 47.4 | 31.6 | 13.7 | 34.9 |
| 1959 | 37.6 | 40.2 | 35.6 | 30.5 | 48.1 | 35.9 | 13.7 | 34.8 |
| 1960 | 37.7 | 40.1 | 35.6 | 30.5 | 48.6 | 34.6 | 13.9 | 34.8 |
| 1961 | 37.7 | 39.7 | 36.2 | 30.4 | 47.8 | 34.9 | 14.0 | 34.5 |
| 1962 | 38.1 | 40.4 | 36.5 | 30.4 | 48.2 | 35.3 | 14.0 | 33.9 |
| 1963 | 37.7 | 39.6 | 36.8 | 30.3 | 48.2 | 34.3 | 13.9 | 33.5 |
| 1964 | 37.5 | 39.0 | 36.7 | 30.5 | 48.5 | 34.4 | 13.5 | 33.6 |
| 1965 | 39.0 | 40.7 | 38.0 | 30.9 | 48.8 | 35.9 | 13.8 | 33.9 |
| 1966 | 41.6 | 43.7 | 40.2 | 31.5 | 48.9 | 39.4 | 14.1 | 34.0 |
| 1967 | 40.2 | 41.3 | 39.8 | 32.0 | 48.9 | 38.1 | 14.4 | 34.2 |
| 1968 | 41.1 | 42.3 | 40.6 | 32.8 | 50.7 | 39.3 | 14.3 | 34.1 |
| 1969 | 43.4 | 45.0 | 42.7 | 33.9 | 51.8 | 41.5 | 14.6 | 34.2 |
| 1970 | 44.9 | 45.8 | 44.6 | 35.2 | 52.4 | 42.0 | 15.3 | 35.0 |
| 1971 | 45.8 | 46.6 | 45.5 | 36.5 | 53.3 | 43.4 | 16.6 | 35.6 |
| 1972 | 49.2 | 51.6 | 48.0 | 37.8 | 55.5 | 50.0 | 17.1 | 35.6 |
| 1973 | 63.9 | 72.7 | 58.9 | 40.3 | 60.5 | 54.5 | 19.4 | 37.6 |
| 1974 | 71.3 | 77.4 | 68.0 | 49.2 | 68.0 | 55.2 | 30.1 | 50.2 |
| 1975 | 74.0 | 77.0 | 72.6 | 54.9 | 67.4 | 56.5 | 35.4 | 62.0 |
| 1976 | 73.6 | 78.8 | 70.8 | 58.4 | 72.4 | 63.9 | 38.3 | 64.0 |
| 1977 | 75.9 | 79.4 | 74.0 | 62.5 | 75.3 | 68.3 | 43.6 | 65.9 |
| 1978 | 83.0 | 87.7 | 80.6 | 67.0 | 78.1 | 76.1 | 46.5 | 68.0 |
| 1979 | 92.3 | 99.6 | 88.5 | 75.7 | 82.5 | 96.1 | 58.9 | 76.0 |
| 1980 | 98.3 | 102.9 | 95.9 | 88.0 | 89.7 | 94.7 | 82.8 | 89.0 |
| 1981 | 101.1 | 105.2 | 98.9 | 97.4 | 97.6 | 99.3 | 100.2 | 98.4 |
| 1982 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1983 | 102.0 | 102.4 | 101.8 | 101.1 | 100.3 | 103.2 | 95.9 | 100.3 |
| 1984 | 105.5 | 105.5 | 105.4 | 103.3 | 102.7 | 109.0 | 94.8 | 102.9 |
| 1985 | 100.7 | 95.1 | 103.5 | 103.7 | 102.9 | 108.9 | 91.4 | 103.7 |
| 1986 | 101.2 | 92.9 | 105.4 | 100.0 | 103.2 | 113.0 | 69.8 | 102.6 |
| 1987 | 103.7 | 95.5 | 107.9 | 102.6 | 105.1 | 120.4 | 70.2 | 106.4 |
| 1988 | 110.0 | 104.9 | 112.7 | 106.3 | 109.2 | 131.4 | 66.7 | 116.3 |
| 1989 | 115.4 | 110.9 | 117.8 | 111.6 | 112.3 | 136.3 | 72.9 | 123.0 |
| 1990 | 118.6 | 112.2 | 121.9 | 115.8 | 115.0 | 141.7 | 82.3 | 123.6 |
| 1991 | 116.4 | 105.7 | 121.9 | 116.5 | 116.3 | 138.9 | 81.2 | 125.6 |
| 1992 | 115.9 | 103.6 | 122.1 | 117.4 | 117.8 | 140.4 | 80.4 | 125.9 |
| 1993 | 118.4 | 107.1 | 124.0 | 119.0 | 118.0 | 143.7 | 80.0 | 128.2 |
| 1994 | 119.1 | 106.3 | 125.5 | 120.7 | 118.3 | 148.5 | 77.8 | 132.1 |
| 1995 | 120.5 | 107.4 | 127.0 | 125.5 | 120.8 | 153.6 | 77.9 | 142.6 |
| 1994:Jan | 121.4 | 112.0 | 126.0 | 118.7 | 117.9 | 145.1 | 75.4 | 128.3 |
| Feb | 121.6 | 112.3 | 126.2 | 118.8 | 117.9 | 143.8 | 75.4 | 128.2 |
| Mar | 122.2 | 112.8 | 126.8 | 119.2 | 117.9 | 144.6 | 76.0 | 128.3 |
| Apr | 121.6 | 111.5 | 126.6 | 119.4 | 117.9 | 146.1 | 76.4 | 129.3 |
| May | 120.3 | 108.7 | 126.1 | 119.8 | 118.0 | 146.7 | 77.2 | 130.2 |
| June.. | 119.3 | 107.2 | 125.4 | 120.7 | 118.1 | 147.2 | 79.5 | 130.7 |
| July ........................................ | 117.5 | 102.8 | 124.9 | 121.2 | 118.4 | 148.7 | 80.6 | 131.2 |
| Aug ........................................ | 117.1 | 101.0 | 125.2 | 121.9 | 118.5 | 149.0 | 82.0 | 132.6 |
| Sept | 117.1 | 101.3 | 125.0 | 121.7 | 118.7 | 150.8 | 79.9 | 134.8 |
| Oct | 115.9 | 98.8 | 124.5 | 121.8 | 118.6 | 153.2 | 77.4 | 136.4 |
| Nov | 116.9 | 101.4 | 124.7 | 122.4 | 118.6 | 153.7 | 77.5 | 137.2 |
| Dec ........................................ | 118.1 | 105.5 | 124.3 | 122.6 | 118.8 | 153.5 | 76.6 | 138.4 |
| 1995:Jan ......................................... | 118.0 | 103.6 | 125.2 | 123.7 | 119.4 | 154.1 | 76.8 | 140.4 |
| Feb | 118.9 | 104.9 | 125.9 | 124.4 | 119.9 | 155.2 | 76.8 | 141.8 |
| Mar | 119.2 | 105.1 | 126.2 | 124.7 | 120.1 | 156.2 | 76.8 | 142.5 |
| Apr | 118.7 | 104.8 | 125.6 | 125.6 | 120.4 | 156.1 | 78.5 | 144.1 |
| May ....................................... | 117.5 | 102.6 | 125.0 | 126.3 | 120.8 | 157.8 | 80.0 | 144.4 |
| June ....................................... | 118.3 | 104.2 | 125.3 | 126.6 | 120.8 | 155.0 | 81.0 | 143.8 |
| July ....................................... | 119.9 | 106.2 | 126.7 | 126.2 | 121.0 | 154.9 | 79.2 | 143.6 |
| Aug 2 ....................................... | 120.0 | 105.1 | 127.5 | 126.0 | 121.1 | 153.2 | 78.3 | 142.9 |
| Sept | 122.0 | 110.6 | 127.6 | 125.8 | 121.3 | 151.7 | 78.3 | 143.4 |
| Oct | 122.6 | 109.9 | 128.9 | 125.5 | 121.6 | 150.5 | 76.3 | 142.1 |
| Nov | 125.0 | 115.1 | 130.0 | 125.3 | 121.3 | 149.2 | 75.9 | 141.6 |
| Dec .................................... | 125.6 | 116.4 | 130.1 | 125.5 | 121.5 | 149.4 | 77.2 | 140.4 |

${ }^{1}$ Prices for some items in this grouping are lagged and refer to 1 month earlier than the index month.
${ }^{2}$ Data have been revised through August 1995 to reflect the availability of late reports and corrections by respondents. All data are subject to revision 4 months after original publication.

See next page for continuation of table.

Table B-63.- Produce price indexes for major commodity groups, 1950-95- Continued
[1982=100]

| Year or month | Industrial commodities-Continued |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rubber and plastic products | Lumber and wood products | Pulp, paper, and allied products | Metals and metal products | Machinery and equipment | Furniture and household durables | Nonmetallic mineral products | Transportation equipment |  | Miscellaneous products |
|  |  |  |  |  |  |  |  | Total | Motor vehicles and equipment |  |
| 1950 | 35.6 | 31.4 | 25.7 | 22.0 | 22.6 | 40.9 | 23.5 | ......... | 30.0 | 28.6 |
| 1951 | 43.7 | 34.1 | 30.5 | 24.5 | 25.3 | 44.4 | 25.0 | .......... | 31.6 | 30.3 |
| 1952 | 39.6 | 33.2 | 29.7 | 24.5 | 25.3 | 43.5 | 25.0 | .......... | 33.4 | 30.2 |
| 1953 | 36.9 | 33.1 | 29.6 | 25.3 | 25.9 | 44.4 | 26.0 | .......... | 33.3 | 31.0 |
| 1954 | 37.5 | 32.5 | 29.6 | 25.5 | 26.3 | 44.9 | 26.6 | ............ | 33.4 | 31.3 |
| 1955 | 42.4 | 34.1 | 30.4 | 27.2 | 27.2 | 45.1 | 27.3 | ...... | 34.3 | 31.3 |
| 1956 | 43.0 | 34.6 | 32.4 | 29.6 | 29.3 | 46.3 | 28.5 | .......... | 36.3 | 31.7 |
| 1957 | 42.8 | 32.8 | 33.0 | 30.2 | 31.4 | 47.5 | 29.6 | ..... | 37.9 | 32.6 |
| 1958 | 42.8 | 32.5 | 33.4 | 30.0 | 32.1 | 47.9 | 29.9 | .......... | 39.0 | 33.3 |
| 1959 | 42.6 | 34.7 | 33.7 | 30.6 | 32.8 | 48.0 | 30.3 | .......... | 39.9 | 33.4 |
| 1960 | 42.7 | 33.5 | 34.0 | 30.6 | 33.0 | 47.8 | 30.4 | .......... | 39.3 | 33.6 |
| 1961 | 41.1 | 32.0 | 33.0 | 30.5 | 33.0 | 47.5 | 30.5 | .......... | 39.2 | 33.7 |
| 1962 | 39.9 | 32.2 | 33.4 | 30.2 | 33.0 | 47.2 | 30.5 | .... | 39.2 | 33.9 |
| 1963 | 40.1 | 32.8 | 33.1 | 30.3 | 33.1 | 46.9 | 30.3 | .... | 38.9 | 34.2 |
| 1964 | 39.6 | 33.5 | 33.0 | 31.1 | 33.3 | 47.1 | 30.4 | ........ | 39.1 | 34.4 |
| 1965 | 39.7 | 33.7 | 33.3 | 32.0 | 33.7 | 46.8 | 30.4 | ........ | 39.2 | 34.7 |
| 1966 | 40.5 | 35.2 | 34.2 | 32.8 | 34.7 | 47.4 | 30.7 | .......... | 39.2 | 35.3 |
| 1967 | 41.4 | 35.1 | 34.6 | 33.2 | 35.9 | 48.3 | 31.2 | ...... | 39.8 | 36.2 |
| 1968 | 42.8 | 39.8 | 35.0 | 34.0 | 37.0 | 49.7 | 32.4 |  | 40.9 | 37.0 |
| 1969 | 43.6 | 44.0 | 36.0 | 36.0 | 38.2 | 50.7 | 33.6 | 40.4 | 41.7 | 38.1 |
| 1970 | 44.9 | 39.9 | 37.5 | 38.7 | 40.0 | 51.9 | 35.3 | 41.9 | 43.3 | 39.8 |
| 1971 | 45.2 | 44.7 | 38.1 | 39.4 | 41.4 | 53.1 | 38.2 | 44.2 | 45.7 | 40.8 |
| 1972 | 45.3 | 50.7 | 39.3 | 40.9 | 42.3 | 53.8 | 39.4 | 45.5 | 47.0 | 41.5 |
| 1973 | 46.6 | 62.2 | 42.3 | 44.0 | 43.7 | 55.7 | 40.7 | 46.1 | 47.4 | 43.3 |
| 1974 | 56.4 | 64.5 | 52.5 | 57.0 | 50.0 | 61.8 | 47.8 | 50.3 | 51.4 | 48.1 |
| 1975 | 62.2 | 62.1 | 59.0 | 61.5 | 57.9 | 67.5 | 54.4 | 56.7 | 57.6 | 53.4 |
| 1976 | 66.0 | 72.2 | 62.1 | 65.0 | 61.3 | 70.3 | 58.2 | 60.5 | 61.2 | 55.6 |
| 1977 | 69.4 | 83.0 | 64.6 | 69.3 | 65.2 | 73.2 | 62.6 | 64.6 | 65.2 | 59.4 |
| 1978 | 72.4 | 96.9 | 67.7 | 75.3 | 70.3 | 77.5 | 69.6 | 69.5 | 70.0 | 66.7 |
| 1979 .............................. | 80.5 | 105.5 | 75.9 | 86.0 | 76.7 | 82.8 | 77.6 | 75.3 | 75.8 | 75.5 |
| 1980 | 90.1 | 101.5 | 86.3 | 95.0 | 86.0 | 90.7 | 88.4 | 82.9 | 83.1 | 93.6 |
| 1981 | 96.4 | 102.8 | 94.8 | 99.6 | 94.4 | 95.9 | 96.7 | 94.3 | 94.6 | 96.1 |
| 1982 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1983 | 100.8 | 107.9 | 103.3 | 101.8 | 102.7 | 103.4 | 101.6 | 102.8 | 102.2 | 104.8 |
| 1984 | 102.3 | 108.0 | 110.3 | 104.8 | 105.1 | 105.7 | 105.4 | 105.2 | 104.1 | 107.0 |
| 1985 | 101.9 | 106.6 | 113.3 | 104.4 | 107.2 | 107.1 | 108.6 | 107.9 | 106.4 | 109.4 |
| 1986 | 101.9 | 107.2 | 116.1 | 103.2 | 108.8 | 108.2 | 110.0 | 110.5 | 109.1 | 111.6 |
| 1987 | 103.0 | 112.8 | 121.8 | 107.1 | 110.4 | 109.9 | 110.0 | 112.5 | 111.7 | 114.9 |
| 1988 | 109.3 | 118.9 | 130.4 | 118.7 | 113.2 | 113.1 | 111.2 | 114.3 | 113.1 | 120.2 |
| 1989 | 112.6 | 126.7 | 137.8 | 124.1 | 117.4 | 116.9 | 112.6 | 117.7 | 116.2 | 126.5 |
| 1990 | 113.6 | 129.7 | 141.2 | 122.9 | 120.7 | 119.2 | 114.7 | 121.5 | 118.2 | 134.2 |
|  | 115.1 | 132.1 | 142.9 | 120.2 | 123.0 | 121.2 | 117.2 | 126.4 | 122.1 | 140.8 |
| 1992 | 115.1 | 146.6 | 145.2 | 119.2 | 123.4 | 122.2 | 117.3 | 130.4 | 124.9 | 145.3 |
| 1993 | 116.0 | 174.0 | 147.3 | 119.2 | 124.0 | 123.7 | 120.0 | 133.7 | 128.0 | 145.4 |
| 1994 | 117.6 | 180.0 | 152.5 | 124.8 | 125.1 | 126.1 | 124.2 | 137.2 | 131.4 | 141.9 |
| 1995 | 124.3 | 178.2 | 172.2 | 134.5 | 126.5 | 128.1 | 129.0 | 139.6 | 133.0 | 145.1 |
| 1994:Jan ........................ | 116.2 | 184.6 | 148.6 | 120.7 | 124.6 | 125.2 | 121.8 | 136.5 | 130.7 | 141.9 |
| Feb .......................... | 116.2 | 183.3 | 148.8 | 121.7 | 124.7 | 125.4 | 122.2 | 136.6 | 130.9 | 141.8 |
| Mar ........................ | 116.2 | 184.2 | 149.2 | 122.3 | 124.9 | 125.5 | 122.9 | 136.6 | 130.8 | 141.6 |
| Apr ....................... | 116.2 | 180.3 | 149.4 | 122.5 | 125.1 | 125.8 | 123.4 | 136.7 | 130.8 | 141.7 |
| May ...................... | 116.5 | 178.2 | 150.1 | 122.7 | 125.2 | 126.1 | 123.7 | 137.1 | 131.4 | 141.5 |
| June ...................... | 116.7 | 179.4 | 151.0 | 123.5 | 125.2 | 126.2 | 124.3 | 137.0 | 131.3 | 141.6 |
| July ....................... | 117.1 | 177.4 | 152.0 | 124.7 | 125.3 | 126.4 | 124.5 | 137.2 | 131.5 | 141.8 |
| Aug ........................ | 117.4 | 177.7 | 153.1 | 125.5 | 125.2 | 126.3 | 124.8 | 137.2 | 131.6 | 141.8 |
| Sept ...................... | 118.5 | 178.3 | 154.5 | 126.5 | 125.2 | 126.2 | 125.1 | 135.6 | 129.0 | 141.8 |
| Oct ........................ | 119.6 | 177.8 | 156.2 | 127.3 | 125.2 | 126.4 | 125.5 | 138.5 | 132.8 | 142.0 |
| Nov ......................... | 120.3 | 179.4 | 158.0 | 129.4 | 125.3 | 126.7 | 125.8 | 138.3 | 132.5 | 142.4 |
| Dec ........................ | 120.9 | 179.2 | 159.5 | 130.6 | 125.4 | 126.7 | 126.0 | 138.7 | 133.0 | 142.4 |
| 1995:Jan ........................ | 122.1 | 179.6 | 163.2 | 133.4 | 125.9 | 127.2 | 126.9 | 139.6 | 133.4 | 143.0 |
| Feb ....................... | 122.7 | 179.5 | 165.9 | 134.6 | 126.2 | 127.5 | 127.5 | 139.6 | 133.3 | 143.6 |
| Mar ....................... | 123.4 | 180.6 | 168.1 | 134.7 | 126.2 | 127.5 | 128.2 | 139.4 | 133.1 | 143.8 |
| Apr ........................ | 124.1 | 180.4 | 170.6 | 135.2 | 126.4 | 127.8 | 129.3 | 139.3 | 132.9 | 144.3 |
| May ........................ | 124.7 | 179.7 | 172.7 | 134.7 | 126.5 | 128.0 | 129.4 | 139.3 | 132.7 | 145.2 |
| June ...................... | 125.1 | 178.0 | 174.5 | 134.8 | 126.5 | 128.1 | 129.3 | 139.0 | 132.2 | 145.3 |
| July ........................ | 125.2 | 178.2 | 175.4 | 135.2 | 126.6 | 128.2 | 129.3 | 139.0 | 132.2 | 145.7 |
| Aug 2 ...................... | 125.3 | 177.8 | 175.6 | 135.5 | 126.5 | 128.4 | 129.4 | 138.9 | 131.9 | 146.6 |
| Sept ....................... | 125.2 | 179.3 | 175.6 | 135.0 | 126.7 | 128.4 | 129.6 | 137.0 | 129.0 | 145.8 |
| Oct ........................ | 124.9 | 177.6 | 175.0 | 134.1 | 126.8 | 128.5 | 129.6 | 140.9 | 134.6 | 145.6 |
| Nov ........................ | 124.7 | 174.5 | 175.1 | 133.7 | 127.0 | 128.9 | 129.7 | 141.5 | 135.5 | 145.5 |
| Dec ........................ | 124.5 | 173.6 | 174.5 | 133.3 | 127.0 | 128.9 | 129.7 | 141.5 | 135.4 | 146.8 |

Source: Department of Labor, Bureau of Labor Statistics.

Table B-64.- Changes in producer price indexes for finished goods, 1958-95
[Percent change]

| Year or month | Total finished goods |  | Finished consumer foods |  | Finished goods excluding consumer foods |  |  |  |  |  | Finished energy goods |  | Finished goods excluding foods and energy |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total |  | Consumer goods |  | Capital equipment |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 | $\begin{gathered} \text { Dec. } \\ \text { to } \\ \text { Dec. } 1 \end{gathered}$ | $\begin{aligned} & \text { Year } \\ & \text { to } \\ & \text { year } \end{aligned}$ | Dec. to Dec. ${ }^{1}$ | Year to year |
| 1958 ........... | 0.3 | 2.2 | 0.6 | 6.1 |  |  | 0.3 | 0 | 1.2 | 2.6 |  |  |  |  |
| 1959 .......... | -. 3 | -. 3 | -3.7 | -4.7 |  |  | . 9 | 1.2 | 9 | 1.9 |  |  |  |  |
| 1960 .. | 1.8 | . 9 | 5.3 | 2.0 |  |  | . 3 | 6 | . 3 | . 3 |  |  |  |  |
| 1961 .... | -. 6 | 0 | -1.9 | -. 3 | ............ | ............ | -. 3 | -. 3 | 0 | . 3 |  | ......... | ............ |  |
| 1962 .......... | . 3 | . 3 | . 6 | . 8 |  |  | 0 | 0 | . 3 | . 3 |  | ....... | ............ |  |
| 1963 ..... | -. 3 | -. 3 | -1.4 | -1.1 | ............ | ............ | 0 | 0 | 6 | . 3 | .......... | .......... | ............ |  |
| 1964 ... | . 6 | . 3 | . 6 | . 3 | ............ | ............ | . 3 | -. 3 | . 9 | . 9 | .......... | .......... | ............ |  |
| 1965 .......... | 3.3 | 1.8 | 9.1 | 4.0 |  | ............ | . 9 | . 9 | 1.5 | 1.2 |  | .......... | ............ |  |
| 1966 ... | 2.0 | 3.2 | 1.3 | 6.5 |  |  | 1.8 | 1.5 | 3.8 | 2.4 |  | .......... | ........... |  |
| 1967 ... | 1.7 | 1.1 | -. 3 | -1.8 |  |  | 2.0 | 1.8 | 3.1 | 3.5 |  |  | ........... |  |
| 1968 .......... | 3.1 | 2.8 | 4.6 | 3.9 | 2.5 | 2.6 | 2.0 | 2.3 | 3.0 | 3.4 |  |  | ............ |  |
| 1969 ........... | 4.9 | 3.8 | 8.1 | 6.0 | 3.3 | 2.8 | 2.8 | 2.3 | 4.8 | 3.5 |  |  |  |  |
| 1970 .... | 2.1 | 3.4 | -2.3 | 3.3 | 4.3 | 3.5 | 3.8 | 3.0 | 4.8 | 4.7 |  |  |  |  |
| 1971 ... | 3.3 | 3.1 | 5.8 | 1.6 | 2.0 | 3.7 | 2.1 | 3.5 | 2.4 | 4.0 |  | .......... | ............ |  |
| 1972 ... | 3.9 | 3.2 | 7.9 | 5.4 | 2.3 | 2.0 | 2.1 | 1.8 | 2.1 | 2.6 |  | ......... |  |  |
| 1973 ... | 11.7 | 9.1 | 22.7 | 20.5 | 6.6 | 4.0 | 7.5 | 4.6 | 5.1 | 3.3 |  |  |  |  |
| 1974 ... | 18.3 | 15.4 | 12.8 | 14.0 | 21.1 | 16.2 | 20.3 | 17.0 | 22.7 | 14.3 |  |  | 17.7 | 11.4 |
| 1975 ... | 6.6 | 10.6 | 5.6 | 8.4 | 7.2 | 12.1 | 6.8 | 10.4 | 8.1 | 15.2 | 16.3 | 17.2 | 6.0 | 11.4 |
| 1976 ... | 3.8 | 4.5 | -2.5 | -. 3 | 6.2 | 6.2 | 6.0 | 6.2 | 6.5 | 6.7 | 11.6 | 11.7 | 5.7 | 5.7 |
| 1977 ... | 6.7 | 6.4 | 6.9 | 5.3 | 6.8 | 7.1 | 6.7 | 7.3 | 7.2 | 6.4 | 12.0 | 15.7 | 6.2 | 6.0 |
| 1978 ... | 9.3 | 7.9 | 11.7 | 9.0 | 8.3 | 7.2 | 8.5 | 7.1 | 8.0 | 7.9 | 8.5 | 6.5 | 8.4 | 7.5 |
| 1979 ........... | 12.8 | 11.2 | 7.4 | 9.3 | 14.8 | 11.8 | 17.6 | 13.3 | 8.8 | 8.7 | 58.1 | 35.0 | 9.4 | 8.9 |
| 1980 .... | 11.8 | 13.4 | 7.5 | 5.8 | 13.4 | 16.2 | 14.1 | 18.5 | 11.4 | 10.7 | 27.9 | 49.2 | 10.8 | 11.2 |
| 1981 ..... | 7.1 | 9.2 | 1.5 | 5.8 | 8.7 | 10.3 | 8.6 | 10.3 | 9.2 | 10.3 | 14.1 | 19.1 | 7.7 | 8.6 |
| 1982 ..... | 3.6 | 4.1 | 2.0 | 2.2 | 4.2 | 4.6 | 4.2 | 4.1 | 3.9 | 5.7 | -. 1 | -1.5 | 4.9 | 5.7 |
| 1983 ... | . 6 | 1.6 | 2.3 | 1.0 | 0 | 1.8 | -. 9 | 1.2 | 2.0 | 2.8 | -9.2 | -4.8 | 1.9 | 3.0 |
| 1984 ... | 1.7 | 2.1 | 3.5 | 4.4 | 1.1 | 1.4 | . 8 | 1.0 | 1.8 | 2.3 | -4.2 | -4.2 | 2.0 | 2.4 |
| 1985 ... | 1.8 | 1.0 | . 6 | -. 8 | 2.2 | 1.4 | 2.1 | 1.1 | 2.7 | 2.2 | - -2 | -3.9 | 2.7 | 2.5 |
| 1986 ... | -2.3 | -1.4 | 2.8 | 2.6 | -4.0 | -2.6 | -6.6 | -4.6 | 2.1 | 2.0 | -38.1 | -28.1 | 2.7 | 2.3 |
| 1987 ... | 2.2 | 2.1 | -. 2 | 2.1 | 3.2 | 2.1 | 4.1 | 2.2 | 1.3 | 1.8 | 11.2 | -1.9 | 2.1 | 2.4 |
| 1988 .......... | 4.0 | 2.5 | 5.7 | 2.8 | 3.2 | 2.4 | 3.1 | 2.4 | 3.6 | 2.3 | -3.6 | -3.2 | 4.3 | 3.3 |
| 1989 ........... | 4.9 | 5.2 | 5.2 | 5.4 | 4.8 | 5.0 | 5.3 | 5.6 | 3.8 | 3.9 | 9.5 | 9.9 | 4.2 | 4.4 |
| 1990 ... | 5.7 | 4.9 | 2.6 | 4.8 | 6.9 | 5.0 | 8.7 | 5.9 | 3.4 | 3.5 | 30.7 | 14.2 | 3.5 | 3.7 |
| 1991. | -. 1 | 2.1 | -1.5 | -. 2 | . 3 | 3.0 | -. 7 | 2.9 | 2.5 | 3.1 | -9.6 | 4.1 | 3.1 | 3.6 |
| 1992 ... | 1.6 | 1.2 | 1.6 | -. 6 | 1.6 | 1.8 | 1.6 | 1.8 | 1.7 | 1.9 | -. 3 | -. 4 | 2.0 | 2.4 |
| 1993 ... | . 2 | 1.2 | 2.4 | 1.9 | -. 4 | 1.1 | -1.4 | . 7 | 1.8 | 1.8 | -4.1 | . 3 | . 4 | 1.2 |
| 19941995 | 1.7 | . 6 | 1.1 | . 9 | 1.9 | . 6 | 2.0 | -. 1 | 2.0 | 2.1 | 3.5 | -1.3 | 1.6 | 1.0 |
|  | 2.2 | 1.9 | 1.9 | 1.7 | 2.2 | 1.9 | 2.2 | 1.9 | 2.2 | 1.9 | . 9 | 1.4 | 2.5 | 2.0 |
|  | Percent change from preceding month |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Unadjusted | Sea-sonally adjusted | Unadjusted | Sea-sonally adjusted | Unadjusted | Sea-sonally adjusted | Unadjusted | Sea- <br> sonally adjusted | Unadjusted | Sea- <br> sonally adjusted | Unadjusted | Sea- <br> son- <br> ally <br> ad- <br> justed | Unadjusted | Sea- <br> sonally adjusted |
| 1994:Jan .... | 0.3 | 0.5 | -0.2 | -0.2 | 0.5 | 0.6 | 0.4 | 0.7 | 0.6 | 0.4 | 0.4 | 1.9 | 0.5 | 0.4 |
| Feb .... | . 2 | . 2 | -. 2 | -. 3 | . 3 | . 5 | . 5 | . 6 | . 2 | . 2 | 1.8 | 2.1 | . 1 | . 1 |
| Mar ... | , | 0 | . 6 | . 3 | 0 | -. 1 | -. 1 | -. 2 | . 1 | . 2 | -. 3 | -. 5 | 0 | . 1 |
| Apr .... | , | 0 | -. 3 | -. 5 | . 2 | 2 | . 2 | . 1 | 1 | . 3 | 1.1 | . 1 | 0 | . 1 |
| May ... | 2 | -. 1 | -. 4 | -. 6 | . 4 | 1 | . 4 | 0 | 2 | . 3 | . 9 | -1.0 | . 2 | . 3 |
| June .. | . 2 | . 1 | -. 6 | -. 4 | . 5 | . 2 | . 7 | . 2 | . 1 | . 1 | 2.8 | . 3 | . 1 | 1 |
| July ... | . 3 | . 2 | . 2 | . 4 | . 3 | . 2 | . 4 | . 2 | 0 | . 1 | 1.7 | . 9 | 0 | . 1 |
| Aug ... | . 4 | . 6 | . 3 | . 2 | . 5 | . 6 | . 7 | . 8 | . 1 | . 2 | 2.3 | 2.3 | . 1 | . 2 |
| Sept .. | -. 7 | -. 3 | -. 2 | -. 2 | -. 9 | -. 3 | -1.0 | -. 6 | -. 6 | . 2 | -2.2 | -2.4 | -. 6 | . 1 |
| Oct .... | ${ }^{2}$ | -. 4 | -. 2 | -. 1 | ${ }^{2}$ | -. 5 | -. 2 | -. 5 | 1.0 | -. 5 | -3.1 | -1.3 | 1.0 | -. 4 |
| Nov ... | . 2 | . 6 | . 6 | 1.0 | . 2 | . 5 | . 2 | . 7 | 0 | . 1 | ${ }^{.8}$ | 2.2 | 0 | . 2 |
| Dec ... | . 1 | . 3 | 1.3 | 1.3 | -. 2 | . 1 | -. 4 | 0 | . 2 | . 3 | -2.3 | -. 9 | . 2 | . 2 |
| 1995:Jan .... | . 3 | . 5 | -. 5 | -. 5 | 6 | . 7 | . 5 | . 8 | . 6 | 4 | . 9 | 2.5 | . 4 | . 4 |
| Feb .... | . 2 | . 2 | . 4 | . 3 | . 2 | . 2 | . 2 | . 2 | . 1 | 1 | 0 | . 3 | . 2 | . 1 |
| Mar ... | . 2 | . 2 | . 2 | -. 1 | . 2 | . 2 | . 2 | . 2 | . 1 | 1 | . 3 | 0 | . 1 | . 2 |
| Apr .... | . 4 | . 2 | 0 | -. 2 | . 5 | . 3 | . 6 | . 5 | . 1 | . 2 | 1.8 | . 9 | . 1 | . 3 |
| May ... | . 4 | . 2 | -. 5 | -. 7 | 6 | . 4 | . 9 | . 4 | . 1 | . 2 | 2.8 | . 6 | . 2 | . 3 |
| June .. | . 1 | -. 2 | -. 5 | -. 3 | . 2 | -. 2 | . 3 | -. 2 | -. 1 | 0 | 1.2 | -1.1 | 0 | . 1 |
| July ... | 0 | . 1 | . 9 | 1.0 | -. 2 | -. 2 | -. 3 | -. 5 | . 1 | . 2 | -1.8 | -2.5 | . 1 | . 2 |
| Aug ${ }^{2}$. | -. 1 | 0 | . 2 | . 2 | -. 2 | 0 | -. 2 | -. 1 | 0 | . 1 | -. 6 | -. 5 | -. 1 | 1 |
| Sept .. | -. 2 | . 2 | . 9 | . 9 | -. 5 | 0 | -. 4 | 0 | -. 7 | . 1 | -. 5 | -. 8 | -. 4 | . 2 |
| Oct .... | . 5 | -. 1 | -. 2 | 0 | . 6 | -. 1 | . 3 | -. 2 | 1.5 | -. 1 | -2.8 | -. 9 | 1.4 | 0 |
| Nov ... | . 1 | . 5 | . 9 | 1.2 | -. 2 | . 2 | -. 3 | . 2 | . 2 | . 4 | -2.1 | -. 5 | . 3 | . 4 |
| Dec ... | . 3 | . 5 | . 1 | . 1 | . 4 | . 8 | . 5 | . 9 | . 1 | . 1 | 1.9 | 3.3 | . 1 | 1 |

${ }^{1}$ Changes from December to December are based on unadjusted indexes.
${ }^{2}$ Data have been revised through August 1995 to reflect the availability of late reports and corrections by respondents. All data are subject to revision 4 months after original publication.

Source: Department of Labor, Bureau of Labor Statistics.

## MONEY STOCK, CREDIT, AND FINANCE

Table B-65.-M oney stock, liquid assets, and debt measures, 1959-95
[Averages of daily figures, except debt; billions of dollars, seasonally adjusted]

| Year and month | M1 | M2 | M3 | L | Debt ${ }^{1}$ | Percent change from year or 6 months earlier ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sum of currency, demand deposits, travelers checks, and other checkable deposits (OCDs) | M1 plus overnight RPs and Eurodollars, MMMF balances (general purpose and broker/ dealer), MMDAs, and savings and small time deposits | M2 plus large time deposits, term RPs, term Eurodollars, and institutiononly MMMF balances | M3 plus other liquid assets | Debt of domestic nonfinancial sectors (monthly average of adjacent month-end levels) | M | M2 | M3 |  <br> Debt |
| $\begin{aligned} & \text { December: } \\ & 1959 \text {.... } \end{aligned}$ | 140.0 | 297.8 | 299.8 | 388.6 | 687.6 |  |  |  | 7.6 |
| 1960 | 140.7 | 312.3 | 315.3 | 403.6 | 723.0 | 0.5 | 4.9 | 5.2 | 5.1 |
| 1961 | 145.2 | 335.5 | 341.0 | 430.8 | 765.7 | 3.2 | 7.4 | 8.2 | 5.9 |
| 1962 | 147.8 | 362.7 | 371.4 | 466.1 | 818.4 | 1.8 | 8.1 | 8.9 | 6.9 |
| 1963 | 153.3 | 393.2 | 406.0 | 503.8 | 873.4 | 3.7 | 8.4 | 9.3 | 6.7 |
| 1964 | 160.3 | 424.8 | 442.5 | 540.4 | 936.9 | 4.6 | 8.0 | 9.0 | 7.3 |
| 1965 | 167.9 | 459.3 | 482.2 | 584.4 | 1,003.7 | 4.7 | 8.1 | 9.0 | 7.1 |
| 1966 | 172.0 | 480.0 | 505.1 | 614.7 | 1,070.9 | 2.4 | 4.5 | 4.7 | 6.7 |
| 1967 | 183.3 | 524.3 | 557.1 | 666.5 | 1,145.2 | 6.6 | 9.2 | 10.3 | 6.9 |
| 1968 ................................ | 197.4 | 566.3 | 606.2 | 728.9 | 1,236.8 | 7.7 | 8.0 | 8.8 | 8.0 |
| 1969 ............................... | 203.9 | 589.5 | 615.0 | 763.5 | 1,326.7 | 3.3 | 4.1 | 1.5 | 7.3 |
| 1970 | 214.4 | 628.1 | 677.4 | 816.2 | 1,416.2 | 5.1 | 6.5 | 10.1 | 6.7 |
| 1971 .................................. | 228.3 | 712.7 | 776.1 | 902.9 | 1,549.8 | 6.5 | 13.5 | 14.6 | 9.4 |
| 1972 | 249.2 | 805.2 | 886.0 | 1,022.9 | 1,705.4 | 9.2 | 13.0 | 14.2 | 10.0 |
| 1973 | 262.8 | 861.0 | 984.9 | 1,142.4 | 1,890.7 | 5.5 | 6.9 | 11.2 | 10.9 |
| 1974 | 274.3 | 908.5 | 1,070.3 | 1,250.2 | 2,063.8 | 4.4 | 5.5 | 8.7 | 9.2 |
| 1975 | 287.4 | 1,023.2 | 1,172.2 | 1,366.9 | 2,251.8 | 4.8 | 12.6 | 9.5 | 9.1 |
| 1976 | 306.3 | 1,163.7 | 1,311.7 | 1,516.6 | 2,497.0 | 6.6 | 13.7 | 11.9 | 10.9 |
| 1977 | 331.1 | 1,286.5 | 1,472.5 | 1,705.3 | 2,816.6 | 8.1 | 10.6 | 12.3 | 12.8 |
| 1978 ................................. | 358.1 | 1,388.6 | 1,646.3 | 1,910.6 | 3,208.7 | 8.2 | 7.9 | 11.8 | 13.9 |
| 1979 ............................... | 382.4 | 1,496.9 | 1,803.7 | 2,116.9 | 3,596.2 | 6.8 | 7.8 | 9.6 | 12.1 |
| 1980 | 408.5 | 1,629.3 | 1,988.5 | 2,325.6 | 3,943.2 | 6.8 | 8.8 | 10.2 | 9.6 |
| 1981 | 436.3 | 1,793.3 | 2,236.6 | 2,599.0 | 4,343.6 | 6.8 | 10.1 | 12.5 | 10.2 |
| 1982 | 474.3 | 1,953.2 | 2,440.6 | 2,849.7 | 4,760.0 | 8.7 | 8.9 | 9.1 | 9.6 |
| 1983 | 521.0 | 2,187.7 | 2,684.8 | 3,147.6 | 5,327.6 | 9.8 | 12.0 | 10.0 | 11.9 |
| 1984 | 552.1 | 2,378.4 | 2,981.5 | 3,524.3 | 6,114.9 | 6.0 | 8.7 | 11.1 | 14.8 |
| 1985 | 619.8 | 2,576.0 | 3,200.2 | 3,827.9 | 7,036.3 | 12.3 | 8.3 | 7.3 | 15.1 |
| 1986 | 724.4 | 2,820.3 | 3,488.7 | 4,125.1 | 7,924.6 | 16.9 | 9.5 | 9.0 | 12.6 |
| 1987 | 749.8 | 2,922.3 | 3,675.8 | 4,331.1 | 8,671.2 | 3.5 | 3.6 | 5.4 | 9.4 |
| 1988 ............................... | 786.9 | 3,083.5 | 3,915.6 | 4,667.1 | 9,446.4 | 4.9 | 5.5 | 6.5 | 8.9 |
| 1989 ............................... | 794.2 | 3,243.0 | 4,066.0 | 4,893.9 | 10,173.5 | . 9 | 5.2 | 3.8 | 7.7 |
| 1990 | 825.8 | 3,356.0 | 4,123.2 | 4,973.6 | 10,854.0 | 4.0 | 3.5 | 1.4 | 6.7 |
| 1991. | 897.3 | 3,457.9 | 4,176.0 | 5,000.5 | 11,338.6 | 8.7 | 3.0 | 1.3 | 4.5 |
| 1992 | 1,024.4 | 3,515.3 | 4,182.9 | 5,069.2 | 11,881.7 | 14.2 | 1.7 | . 2 | 4.8 |
| 1993 | 1,128.6 | 3,583.6 | 4,242.3 | 5,154.4 | 12,516.4 | 10.2 | 1.9 | 1.4 | 5.3 |
| 1994 | 1,148.0 | 3,617.0 | 4,303.9 | 5,283.9 | 13,153.2 | 1.7 | . 9 | 1.5 | 5.1 |
| 1995 ............................... | 1,123.0 | 3,780.7 | 4,563.5 |  |  | -2.2 | 4.5 | 6.0 |  |
| 1994:Jan | 1,132.5 | 3,589.1 | 4,245.7 | 5,166.3 | 12,555.6 | 8.7 | 2.6 | 2.1 | 5.0 |
| Feb | 1,137.0 | 3,586.2 | 4,231.7 | 5,169.9 | 12,605.3 | 7.7 | 2.1 | 1.2 | 4.9 |
| Mar | 1,141.1 | 3,597.5 | 4,240.3 | 5,181.4 | 12,674.7 | 6.6 | 2.2 | 1.2 | 5.1 |
| Apr | 1,142.8 | 3,605.2 | 4,250.2 | 5,190.5 | 12,737.0 | 5.3 | 2.3 | 1.3 | 5.5 |
| May | 1,143.5 | 3,607.8 | 4,250.3 | 5,205.9 | 12,801.3 | 3.8 | 1.7 | . 8 | 5.6 |
| June ............................ | 1,147.0 | 3,604.3 | 4,255.1 | 5,202.2 | 12,843.7 | 3.3 | 1.2 | . 6 | 5.2 |
| July ............................ | 1,152.2 | 3,616.8 | 4,274.2 | 5,228.9 | 12,864.3 | 3.5 | 1.5 | 1.3 | 4.9 |
| Aug ............................ | 1,150.8 | 3,615.0 | 4,273.7 | 5,238.8 | 12,926.3 | 2.4 | 1.6 | 2.0 | 5.1 |
| Sept ............................ | 1,151.0 | 3,614.2 | 4,279.9 | 5,237.8 | 12,986.6 | 1.7 | . 9 | 1.9 | 4.9 |
| Oct ......................... | 1,148.2 | 3,610.2 | $4,286.3$ | 5,251.2 | 13,036.8 | . 9 | . 3 | 1.7 | 4.7 |
| Nov. | 1,147.6 | 3,611.9 | 4,291.9 | 5,262.4 | 13,111.3 | .7 | . 2 | 2.0 | 4.8 |
| Dec ............................. | 1,148.0 | 3,617.0 | 4,303.9 | 5,283.9 | 13,153.2 | . 2 | . 7 | 2.3 | 4.8 |
| 1995:Jan .............................. | 1,149.0 | 3,628.9 | 4,326.9 | 5,309.6 | 13,201.9 | -. 6 | . 7 | 2.5 | 5.2 |
| Feb | 1,147.3 | 3,624.6 | 4,336.7 | 5,349.6 | 13,279.8 | -. 6 | . 5 | 2.9 | 5.5 |
| Mar ............................. | 1,147.9 | 3,632.2 | 4,359.9 | 5,392.5 | 13,342.3 | -. 5 | 1.0 | 3.7 | 5.5 |
| Apr .............................. | 1,149.7 | 3,645.4 | 4,382.0 | 5,421.1 | 13,419.3 | . 3 | 2.0 | 4.5 | 5.9 |
| May ............................. | 1,143.0 | 3,661.9 | 4,409.7 | 5,451.8 | 13,519.6 | -. 8 | 2.8 | 5.5 | 6.2 |
| June ............................ | 1,143.9 | 3,698.1 | 4,455.2 | 5,491.8 | 13,578.3 | -. 7 | 4.5 | 7.0 | 6.5 |
| July ............................. | 1,145.0 | 3,717.3 | 4,486.3 | 5,546.8 | 13,613.6 | -. 7 | 4.9 | 7.4 | 6.2 |
| Aug ............................ | 1,143.4 | 3,743.1 | 4,516.9 | 5,584.2 | 13,665.5 | -. 7 | 6.5 | 8.3 | 5.8 |
| Sept ............................ | 1,139.8 | 3,756.8 | 4,534.0 | 5,624.6 | 13,704.1 | -1.4 | 6.9 | 8.0 | 5.4 |
| Oct .............................. | 1,129.9 | 3,753.8 | 4,546.6 | 5,645.6 | 13,744.3 | -3.4 | 5.9 | 7.5 | 4.8 |
| Nov ................................ | 1,126.5 | 3,761.7 | 4,550.0 | 5,648.4 | 13.804.2 | -2.9 | 5.5 | 6.4 | 4.2 |
| Dec .............................. | 1,123.0 | 3,780.7 | 4,563.5 |  |  | -3.7 | 4.5 | 4.9 |  |

[^51] derived from flow of funds accounts.
${ }^{2}$ Annual changes are from December to December; monthly changes are from 6 months earlier at a simple annual rate.
Note. - See Table B-66 for components

Table B-66.- Components of money stock measures and liquid assets, 1959-95
[Averages of daily figures; billions of dollars, seasonally adjusted, except as noted]

| Year and month | Currency | Travelers checks | Demand deposits | Other checkable deposits (OCDs) | Overnight repurchase agreements (RPs) net, plus overnight Eurodollars ${ }^{1}$ NSA | Money market mutual fund (MMMF) balances |  | Savings deposits, including money marketdeposit accounts (MMDAs) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | General purpose and broker/ dealer ${ }^{2}$ | Institution only ${ }^{2}$ |  |
| December: <br> 1959 $\qquad$ | 28.8 | 0.3 | 110.8 | 0.0 | 0.0 | 0.0 | 0.0 | 146.5 |
| 1960 | 28.7 | . 3 | 111.6 | . 0 | . 0 | . 0 | . 0 | 159.1 |
| 1961 | 29.3 | . 4 | 115.5 | . 0 | . 0 | . 0 | . 0 | 175.5 |
| 1962 | 30.3 | . 4 | 117.1 | . 0 | . 0 | . 0 | . 0 | 194.7 |
| 1963 | 32.2 | . 4 | 120.6 | . 1 | . 0 | . 0 | . 0 | 214.4 |
| 1964 | 33.9 | . 5 | 125.8 | . 1 | . 0 | . 0 | . 0 | 235.3 |
| 1965 | 36.0 | . 5 | 131.3 | . 1 | . 0 | . 0 | . 0 | 256.9 |
| 1966 | 38.0 | . 6 | 133.4 | . 1 | . 0 | . 0 | . 0 | 253.2 |
| 1967 | 40.0 | . 6 | 142.5 | . 1 | . 0 | . 0 | . 0 | 263.7 |
| 1968 | 43.0 | . 7 | 153.6 | . 1 | . 0 | . 0 | . 0 | 268.9 |
| 1969 ............................................... | 45.7 | . 8 | 157.3 | . 2 | 2.2 | . 0 | . 0 | 263.6 |
| 1970 | 48.6 | . 9 | 164.8 | . 1 | 1.3 | . 0 | . 0 | 260.9 |
| 1971 | 52.0 | 1.0 | 175.1 | . 2 | 2.3 | . 0 | . 0 | 292.2 |
| 1972 | 56.2 | 1.2 | 191.6 | . 2 | 2.8 | . 0 | . 0 | 321.4 |
| 1973 | 60.8 | 1.4 | 200.3 | . 3 | 5.3 | . 0 | . 0 | 326.7 |
| 1974 | 67.0 | 1.7 | 205.1 | . 4 | 5.7 | 1.7 | . 2 | 338.6 |
| 1975 | 72.8 | 2.1 | 211.6 | . 9 | 6.0 | 2.7 | . 4 | 388.9 |
| 1976 | 79.5 | 2.6 | 221.5 | 2.7 | 10.8 | 2.4 | . 6 | 453.3 |
| 1977 | 87.4 | 2.9 | 236.6 | 4.2 | 15.0 | 2.4 | . 9 | 492.4 |
| 1978 | 96.0 | 3.3 | 250.4 | 8.4 | 20.8 | 6.4 | 3.1 | 482.2 |
| 1979 .................................................. | 104.8 | 3.5 | 257.3 | 16.8 | 22.4 | 33.4 | 9.5 | 424.1 |
| 1980 | 115.4 | 3.9 | 261.1 | 28.0 | 29.3 | 61.6 | 15.2 | 400.6 |
| 1981 | 122.6 | 4.1 | 231.1 | 78.4 | 37.6 | 150.6 | 38.0 | 344.2 |
| 1982 | 132.5 | 4.1 | 233.8 | 103.9 | 40.8 | 185.6 | 50.0 | 400.4 |
| 1983 | 146.2 | 4.7 | 238.2 | 131.9 | 57.3 | 139.2 | 41.4 | 685.1 |
| 1984 | 156.1 | 5.0 | 243.7 | 147.4 | 63.2 | 168.4 | 62.1 | 704.8 |
| 1985 | 167.9 | 5.6 | 266.6 | 179.8 | 76.3 | 178.0 | 64.1 | 815.4 |
| 1986 | 180.7 | 6.1 | 302.1 | 235.6 | 84.9 | 210.6 | 84.5 | 941.0 |
| 1987 ............................................... | 196.8 | 6.6 | 286.8 | 259.5 | 87.3 | 224.5 | 91.1 | 937.7 |
| 1988 ............................................... | 212.2 | 7.0 | 286.8 | 280.9 | 85.1 | 245.9 | 90.5 | 926.7 |
| 1989 ................................................ | 222.6 | 6.9 | 279.3 | 285.4 | 81.5 | 322.4 | 107.2 | 891.0 |
| 1990 | 246.8 | 7.8 | 277.4 | 293.9 | 77.7 | 358.2 | 134.0 | 920.5 |
| 1991 .................................................... | 267.4 | 7.7 | 289.5 | 332.7 | 79.9 | 374.2 | 180.0 | 1,041.2 |
| 1992 ............................................... | 292.8 | 8.1 | 338.9 | 384.6 | 83.1 | 356.9 | 200.2 | 1,183.6 |
| 1993 ............................................... | 322.1 | 7.9 | 383.9 | 414.7 | 96.5 | 360.1 | 198.1 | 1,215.7 |
| 1994 ............................................... | 354.5 | 8.4 | 382.2 | 402.9 | 117.2 | 389.0 | 180.8 | 1,144.2 |
| 1995 ............................................... | 372.5 | 8.9 | 389.1 | 352.5 | 119.0 | 476.9 | 216.6 | 1,131.3 |
| 1994: Jan ............................................. | 325.4 | 8.0 | 386.9 | 412.3 | 98.0 | 361.2 | 194.6 | 1,221.1 |
| Feb | 328.9 | 8.0 | 388.6 | 411.6 | 94.9 | 359.5 | 182.1 | 1,221.9 |
| Mar | 332.0 | 8.0 | 388.6 | 412.5 | 100.1 | 361.9 | 183.8 | 1,222.0 |
| Apr | 334.5 | 8.1 | 388.1 | 412.0 | 98.9 | 370.5 | 183.1 | 1,220.0 |
| May ........................................... | 337.3 | 8.1 | 385.6 | 412.4 | 102.5 | 373.5 | 177.5 | 1,214.8 |
| June ............................................ | 340.0 | 8.2 | 386.3 | 412.5 | 106.9 | 370.7 | 177.9 | 1,206.8 |
| July ............................................. | 342.8 | 8.3 | 388.1 | 413.1 | 109.6 | 376.1 | 178.7 | 1,201.2 |
| Aug ............................................ | 345.1 | 8.3 | 386.6 | 410.8 | 111.1 | 377.0 | 177.4 | 1,192.6 |
| Sept | 347.2 | 8.4 | 386.5 | 408.9 | 112.1 | 377.4 | 176.3 | 1,183.7 |
| Oct | 350.0 | 8.3 | 384.5 | 405.4 | 114.1 | 379.5 | 180.8 | 1,171.0 |
| Nov ........................................... | 353.0 | 8.4 | 382.5 | 403.8 | 113.5 | 383.3 | 180.5 | 1,157.8 |
| Dec ........................................... | 354.5 | 8.4 | 382.2 | 402.9 | 117.2 | 389.0 | 180.8 | 1,144.2 |
| 1995:Jan .............................................. | 357.7 | 8.4 | 383.6 | 399.3 | 123.9 | 392.1 | 186.3 | 1,129.8 |
| Feb ................................................ | 358.8 | 8.4 | 384.1 | 395.9 | 118.4 | 391.5 | 180.4 | 1,111.9 |
| Mar | 362.5 | 8.8 | 383.3 | 393.3 | 118.3 | 390.9 | 189.0 | 1,094.9 |
| Apr | 365.7 | 9.2 | 381.2 | 393.6 | 115.9 | 396.0 | 192.9 | 1,082.4 |
| May ........................................... | 368.1 | 9.2 | 380.6 | 385.0 | 116.7 | 405.4 | 194.8 | 1,081.4 |
| June .......................................... | 367.4 | 9.0 | 386.8 | 380.7 | 117.6 | 426.2 | 205.6 | 1,091.1 |
| July ............................................. | 367.1 | 8.9 | 389.5 | 379.4 | 114.4 | 442.0 | 212.4 | 1,091.4 |
| Aug ............................................ | 368.3 | 8.9 | 390.1 | 376.2 | 118.2 | 455.9 | 210.8 | 1,098.1 |
| Sept ........................................... | 369.1 | 8.8 | 389.8 | 372.0 | 120.9 | 462.6 | 213.5 | 1,105.2 |
| Oct ............................................. | 370.5 | 8.8 | 387.3 | 363.4 | 118.5 | 466.4 | 215.8 | 1,112.2 |
| Nov ............................................ | 371.0 | 8.8 | 387.0 | 359.7 | 116.3 | 471.3 | 214.8 | 1,117.0 |
| Dec ............................................... | 372.5 | 8.9 | 389.1 | 352.5 | 119.0 | 476.9 | 216.6 | 1,131.3 |

[^52]${ }^{2}$ Data prior to 1983 are not seasonally adjusted.
${ }^{3}$ Data prior to 1982 are savings deposits only; MMDA data begin December 1982.
See next page for continuation of table.

Table B-66.- Components of money stock measures and liquid assets, 1959-95—Continued
[Averages of daily figures; billions of dollars, seasonally adjusted, except as noted]

| $\begin{aligned} & \text { Year } \\ & \text { and } \\ & \text { month } \end{aligned}$ | Small denomination time deposits ${ }^{4}$ | Large nation time deposits ${ }^{4}$ | Term repurchase agree(RPs) NSA | Term Eurodollars NSA | Savings | Short- term Treasury securities securities | Bankers acceptances | Commer- cial paper |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { December: } \\ & 1959 \text {..... } \end{aligned}$ | 11.4 | 1.2 | 0.0 | 0.7 | 46.1 | 38.6 | 0.6 | 3.6 |
| 1960 | 12.5 | 2.0 | . 0 | . 8 | 45.7 | 36.7 | 9 | 5.1 |
| 1961 .... | 14.8 | 3.9 | . 0 | 1.5 | 46.5 | 37.0 | 1.1 | 5.2 |
| 1962 ................................................ | 20.1 | 7.0 | . 0 | 1.6 | 46.9 | 39.8 | 1.1 | 6.8 |
| 1963 ............................................... | 25.6 | 10.8 | . | 1.9 | 48.1 | 40.7 | 1.2 | 7.7 |
| 1964 ............................................ | 29.2 | 15.2 | . 0 | 2.4 | 49.0 | 38.5 | 1.3 | 9.1 |
| 1965 ............................................. | 34.5 | 21.2 | . 0 | 1.8 | 49.6 | 40.7 | 1.6 | 10.2 |
| 1966 | 55.0 | 23.1 | . 0 | 2.2 | 50.2 | 43.2 | 1.8 | 14.4 |
| 1967 | 77.8 | 30.9 | . 0 | 2.2 | 51.2 | 38.7 | 1.8 | 17.8 |
| 1968 | 100.6 | 37.4 | . 0 | 2.9 | 51.8 | 46.1 | 2.3 | 22.5 |
| 1969 ............................................. | 120.4 | 20.4 | 2.7 | 2.7 | 51.7 | 59.5 | 3.3 | 34.0 |
| 1970 | 151.2 | 45.1 | 1.6 | 2.2 | 52.0 | 48.8 | 3.5 | 34.5 |
| 1971 ….............................................. | 189.8 | 57.6 | 2.7 | 2.7 | 54.3 | 36.0 | 3.8 | 32.7 |
| 1972 | 231.7 | 73.3 | 3.5 | 3.6 | 57.6 | 40.7 | 3.5 | 35.2 |
| 1973 ............................................... | 265.8 | 111.0 | 6.7 | 5.5 | 60.4 | 49.3 | 5.0 | 42.8 |
| 1974 ............................................... | 287.9 | 144.7 | 7.8 | 8.1 | 63.3 | 52.8 | 12.6 | 51.2 |
| 1975 ............................................. | 337.8 | 129.7 | 8.1 | 9.8 | 67.2 | 68.4 | 10.7 | 48.5 |
| 1976 ................................................ | 390.7 | 118.1 | 13.9 | 14.8 | 71.8 | 69.8 | 10.8 | 52.5 |
| 1977 | 445.4 | 145.2 | 18.9 | 20.2 | 76.4 | 78.3 | 14.1 | 64.0 |
| 1978 ............................................... | 520.9 | 195.6 | 26.2 | 31.8 44 | 80.3 | 81.3 | 22.0 | 80.7 |
| 1979 .............................................. | 634.2 | 223.2 | 29.1 | 44.7 | 79.5 | 108.2 | 27.1 | 98.3 |
| 1980 | 728.5 | 260.2 | 33.5 | 50.3 | 72.3 | 133.9 | 32.0 | 98.8 |
| 1981 ......................................... | 823.1 850.9 | 303.8 <br> 324.8 | 35.3 <br> 33.4 | 67.5 81.7 | 67.8 68.0 | 139.4 183.0 | 39.9 44.5 | 1113.6 |
| 1983 | 784.1 | 316.4 | 49.9 | 91.5 | 71.1 | 213.6 | 45.0 | 133.2 |
| 1984 | 888.8 | 403.2 | 57.6 | 83.4 | 74.2 | 262.5 | 45.4 | 160.7 |
| 1985 | 885.7 | 422.4 | 62.5 | 76.9 | 79.5 | 298.7 | 42.1 | 207.5 |
| 1986 ............................................. | 859.0 | 420.2 | 81.1 | 85.1 | 91.8 | 276.1 | 37.1 | 231.3 |
| 1987 .... | 922.7 | 467.0 | 107.3 | 91.6 | 100.6 | 249.5 | 44.5 | 260.6 |
| 1988 ................................................. | 1,038.6 | 518.3 | 123.2 | 106.3 | 109.4 | 266.6 | 40.2 | 335.4 |
| 1989 .............................................. | 1,153.7 | 541.5 | 100.4 | 83.8 | 117.5 | 323.5 | 40.6 | 346.4 |
| 1990 | 1,174.0 | 480.9 | 90.9 | 71.6 | 126.0 | 333.3 | 35.9 | 355.2 |
| 1991 | 1,066.6 | 416.6 | 73.3 | 59.4 | 137.9 | 328.1 | 23.8 | 334.8 |
| 1992 .... | 869.2 | 353.8 | 82.0 | 45.9 | 156.6 | 344.3 | 20.8 | 364.5 |
| 1993 .... | 785.1 | 332.7 | 97.6 | 46.5 | 171.5 | 341.6 | 14.9 | 384.7 |
| 1994 ................................................ | 821.0 | 361.4 | 105.6 | 52.2 | 180.3 | 384.3 | 14.0 | 401.3 |
| 1995 ............................................. | 933.2 | 418.9 | 105.4 | 57.1 |  | ......... |  |  |
| 1994:Jan ... | 779.5 | 335.1 | 93.5 | 45.5 | 172.5 | 349.7 | 14.8 | 391.4 |
| Feb ............................................... | 775.0 | 331.8 | 92.1 | 47.9 | 173.2 | 350.9 | 14.9 | 401.2 |
| Mar | 772.0 | 330.3 | 95.1 | 46.2 | 173.9 | 362.2 | 15.7 | 390.3 |
| Apr | 770.2 | 329.8 | 98.6 | 46.5 | 174.8 | 365.2 | 15.9 | 384.5 |
| May ............................................. | 770.8 | 332.4 | 97.6 | 47.7 | 175.7 | 372.0 | 15.6 14.9 |  |
| June .......................................... | 772.9 | 335.0 | 102.1 | 50.3 | 176.7 | 368.5 | 14.9 | 387.0 |
| July .............................................. | 776.5 | 338.4 | 102.8 | 50.9 | 177.7 | 372.7 | 13.2 | 391.1 |
| Aug ............................................. | 782.8 | 342.0 | 101.0 | 51.1 | 178.5 | 377.4 | 13.8 | 395.4 |
| Sept ......................................... | 789.6 | 348.2 | 101.7 | 51.9 | 179.1 | 377.8 | 14.8 | 390.2 |
| Oct | 799.7 |  | 101.9 |  | 179.5 | 372.4 | 13.1 | 399.9 |
| Nov .............................................. | 810.8 | 357.4 | 103.1 | 54.3 | 179.9 | 375.7 384.7 | 13.5 | 401.4 |
| Dec ............ | 821.0 | 361.4 | 105.6 | 52.2 | 180.3 | 384.3 | 14.0 | 401.3 |
| 1995:Jan ............................................. | 836.5 | 361.9 | 109.4 | 52.9 | 180.5 | 385.9 | 13.4 | 402.8 |
| Feb ............................................. | 856.4 | 371.3 | 113.4 | 56.1 | 180.4 | 404.4 | 13.4 | 414.7 |
| Mar ............................................. | 879.3 | 378.8 | 113.4 | 58.2 | 180.5 | 416.4 | 14.1 | 421.7 |
| Apr .............................................. | 898.2 | 379.6 | 116.5 | 59.7 | 180.9 | 413.5 | 13.9 | 430.8 |
| May .............................................. | 919.3 | 383.4 385.6 | 119.9 | 60.8 62.0 | 1882.3 | 415.5 | 12.3 | 427.5 |
| July ........................................... | 924.0 | 392.2 | 115.5 | 63.2 | 183.0 | 437.6 |  |  |
| Aug ............................................ | 927.2 | 395.3 | 118.3 | 62.9 | 183.7 | 436.5 | 12.2 | 435.0 |
| Sept ......................................... | 928.8 | 398.8 | 116.4 | 62.4 | 184.1 | 455.6 | 12.9 | 438.0 |
| Oct. | 930.3 | 411.4 | 116.3 | 61.9 | 184.4 | 460.4 | 13.0 | 441.2 |
| Nov .............................................. | 932.6 | 416.8 | 111.6 | 61.1 | 184.6 | 465.0 | 13.1 | 435.6 |
| Dec ........................................... | 933.2 | 418.9 | 105.4 | 57.1 | .............. |  | .............. | .............. |

${ }^{4}$ Small denomination and large denomination deposits are those issued in amounts of less than $\$ 100,000$ and more than $\$ 100,000$, respectively.

Note. - NSA indicates data are not seasonally adjusted.
See also Table B-65.
Data do not reflect revisions released on February 8, 1996.
Source: Board of Governors of the Federal Reserve System.

Table B-67.- A ggregate reserves of depository institutions and monetary base, 1959-95
[Averages of daily figures ${ }^{1}$; millions of dollars; seasonally adjusted, except as noted]

| Year and month | Adjusted for changes in reserve requirements ${ }^{2}$ |  |  |  |  | Borrowings of depository institutions from the Federal Reserve, NSA |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Reserves of depository institutions |  |  |  | Monetary base |  |  |  |
|  | Total | Nonborrowed | Nonborrowed plus extended credit | Required |  | Total | Seasonal | Extended credit |
| December: <br> 1959 $\qquad$ | 11,109 | 10,168 | 10,168 | 10,603 | 40,880 | 941 | ................ |  |
| 1960 | 11,247 | 11,172 | 11,172 | 10,503 | 40,977 | 74 |  |  |
| 1961 ................................................... | 11,499 | 11,366 | 11,366 | 10,915 | 41,853 | 133 | ................... |  |
| 1962 | 11,604 | 11,344 | 11,344 | 11,033 | 42,957 | 260 | ............ | .............. |
| 1963 | 11,730 | 11,397 | 11,397 | 11,239 | 45,003 | 332 | ............... | ............... |
| 1964 .............................................. | 12,011 | 11,747 | 11,747 | 11,605 | 47,161 | 264 | ........... |  |
| 1965 | 12,316 | 11,872 | 11,872 | 11,892 | 49,620 | 444 | ........ |  |
| 1966 | 12,223 | 11,690 | 11,690 | 11,884 | 51,565 | 532 | ........ |  |
| 1967 | 13,180 | 12,952 | 12,952 | 12,805 | 54,579 | 228 | .............. |  |
| 1968 | 13,767 | 13,021 | 13,021 | 13,341 | 58,357 | 746 | ..... |  |
| 1969 ............................................... | 14,168 | 13,049 | 13,049 | 13,882 | 61,569 | 1,119 | ..... |  |
| 1970 | 14,558 | 14,225 | 14,225 | 14,309 | 65,013 | 332 | ............... |  |
| 1971 | 15,230 | 15,104 | 15,104 | 15,049 | 69,108 | 126 | .............. |  |
| 1972 | 16,645 | 15,595 | 15,595 | 16,361 | 75,167 | 1,050 |  |  |
| 1973 | 17,021 | 15,723 | 15,723 | 16,717 | 81,073 | 1,298 | 41 |  |
| 1974 ............................................... | 17,550 | 16,823 | 16,970 | 17,292 | 87,535 | 727 | 32 | 147 |
| 1975 | 17,822 | 17,692 | 17,704 | 17,556 | 93,887 | 130 | 14 | 12 |
| 1976 | 18,388 | 18,335 | 18,335 | 18,115 | 101,515 | 53 | 13 |  |
| 1977 | 18,990 | 18,420 | 18,420 | 18,800 | 110,323 | 569 | 55 | ............... |
| 1978 ................................................. | 19,753 | 18,885 | 18,885 | 19,521 | 120,445 | 868 | 135 | .............. |
| 1979 .................................................. | 20,720 | 19,248 | 19,248 | 20,279 | 131,143 | 1,473 | 82 |  |
| 1980 | 22,015 | 20,325 | 20,328 | 21,501 | 142,004 | 1,690 | 116 | 3 |
| 1981 | 22,443 | 21,807 | 21,956 | 22,124 | 149,021 | 636 | 54 | 148 |
| 1982. | 23,600 | 22,966 | 23,152 | 23,100 | 160,127 | 634 | 33 | 186 |
| 1983 ................................................. | 25,367 | 24,593 | 24,595 | 24,806 | 175,467 | 774 | 96 | 2 |
| 1984 .............................................. | 26,847 | 23,661 | 26,265 | 25,993 | 187,224 | 3,186 | 113 | 2,604 |
| 1985 | 31,452 | 30,133 | 30,633 | 30,415 | 203,539 | 1,318 | 56 | 499 |
| 1986 | 38,940 | 38,113 | 38,416 | 37,570 | 223,574 | -827 | 38 | 303 |
| 1987 | 38,856 | 38,078 | 38,562 | 37,809 | 239,775 | 777 | 93 | 483 |
| 1988 ................................................. | 40,399 | 38,683 | 39,927 | 39,352 | 256,897 | 1,716 | 130 | 1,244 |
| 1989 .................................................. | 40,498 | 40,232 | 40,252 | 39,575 | 267,713 | 265 | 84 | 20 |
| 1990 | 41,771 | 41,445 | 41,468 | 40,106 | 293,275 | 326 | 76 | 23 |
| 1991 .............................................. | 45,536 | 45,343 | 45,344 | 44,557 | 317,432 | 192 | 38 | 1 |
| 1992. | 54,354 | 54,230 | 54,231 | 53,199 | 351,116 | 124 | 18 |  |
| 1993 | 60,502 | 60,420 | 60,420 | 59,440 | 386,602 | 82 | 31 | 0 |
| 1994 | 59,342 | 59,133 | 59,133 | 58,174 | 418,223 | 209 | 100 | 0 |
| 1995 | 56,334 | 56,077 | 56,077 | 55,056 | 434,438 | 257 | 40 | 0 |
| 1994: Jan | 60,645 | 60,571 | 60,571 | 59,197 | 389,945 | 73 | 15 |  |
| Feb ........................................................... | 60,775 | 60,705 | 60,705 | 59,635 | 393,771 | 70 | 15 | 0 |
| Mar | 60,587 | 60,532 | 60,532 | 59,620 | 396,668 | 55 | 24 | 0 |
| Apr ...................................... | 60,480 | 60,356 | 60,356 | 59,329 | 399,229 | 124 | 57 | 0 |
| May .......................................... | 60,105 | 59,905 | 59,905 | 59,190 | 401,680 | 200 | 134 | 0 |
| June ............................................... | 59,989 | 59,656 | 59,656 | 58,885 | 404,213 | 333 | 226 | 0 |
| July ....................................... | 60,105 | 59,647 | 59,647 | 58,998 | 407,175 | 458 | 364 | 0 |
| Aug | 59,839 | 59,370 | 59,370 | 58,835 | 409,244 | 469 | 445 | 0 |
| Sept ............................................. | 59,794 | 59,307 | 59,307 | 58,734 | 411,338 | 487 | 444 | 0 |
| Oct | 59,496 | 59,116 | 59,116 | 58,693 | 413,854 | 380 | 339 | 0 |
| Nov | 59,401 | 59,152 | 59,152 | 58,394 | 416,788 | 249 | 164 |  |
| Dec .............................................. | 59,342 | 59,133 | 59,133 | 58,174 | 418,223 | 209 | 100 | 0 |
| 1995:Jan ............................................. | 59,124 | 58,988 | 58,992 | 57,785 | 421,054 | 136 | 46 | 4 |
| Feb ........................................... | 58,919 | 58,860 | 58,860 | 57,973 | 422,312 | 59 | 33 | 0 |
| Mar | 58,552 | 58,483 | 58,483 | 57,757 | 425,350 | 69 | 51 | 0 |
| Apr ........................................... | 57,957 | 57,847 | 57,847 | 57,204 | 428,127 | 111 | 82 | 0 |
| May .......................................... | 57,761 | 57,611 | 57,611 | 56,881 | 430,687 | 150 | 137 |  |
| June ............................................ | 57,352 | 57,080 | 57,080 | 56,388 | 429,755 | 272 | 172 | 0 |
| July | 57,655 | 57,284 | 57,284 | 56,565 | 429,659 | 371 | 231 | 0 |
| Aug .......................................... | 57,515 | 57,233 | 57,233 | 56,527 | 430,858 | 282 | 258 | 0 |
| Sept | 57,368 | 57,091 | 57,091 | 56,418 | 431,249 | 278 | 252 | 0 |
| Oct | 56,821 | 56,575 | 56,575 | 55,739 | 432,437 | 245 | 199 | 0 |
| Nov | 56,269 | 56,065 | 56,065 | 55,326 | 432,705 | 204 | 73 |  |
| Dec .............................................. | 56,334 | 56,077 | 56,077 | 55,056 | 434,438 | 257 | 40 | 0 |

${ }^{1}$ Data are prorated averages of biweekly (maintenance period) averages of daily figures.
${ }^{2}$ Aggregate reserves incorporate adjustments for discontinuities associated with regulatory changes to reserve requirements. For details on aggregate reserves series see Federal Reserve Bulletin.

Note. - NSA indicates data are not seasonally adjusted.
Monetary base data do not reflect revisions released on February 8, 1996.
Source: Board of Governors of the Federal Reserve System.

Table B-68.-Bank $\begin{gathered}\text { edit at all commercial banks, 1972-95 }\end{gathered}$
[Monthly average; billions of dollars, seasonally adjusted ${ }^{1}$ ]

| Year and month | Total bank credit | Securities in bank credit |  |  | Loans and leases in bank credit |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total securities | U.S. <br> Government securities | Other securities | Total loans and leases ${ }^{2}$ | Commercial and industrial | Real estate |  |  | Consumer | Security | Other |
|  |  |  |  |  |  |  | Total | Re-volving home equity | Other |  |  |  |
| December: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1972 ... | 572.5 | 182.4 | 89.0 | 93.4 | 390.1 | 137.1 | 98.1 |  |  | 86.3 | 15.6 | 53.0 |
| 1973 | 647.8 | 187.6 | 88.2 | 99.4 | 460.2 | 165.0 | 117.3 |  |  | 98.6 | 12.9 | 66.4 |
| 1974 ................................. | 713.7 | 193.8 | 86.3 | 107.5 | 519.9 | 196.6 | 130.1 |  |  | 102.4 | 12.7 | 78.1 |
| 1975 | 745.1 | 227.9 | 116.7 | 111.2 | 517.2 | 189.3 | 134.4 |  |  | 104.9 | 13.5 | 75.1 |
| 1976 | 804.6 | 249.8 | 136.3 | 113.5 | 554.8 | 190.9 | 148.8 |  |  | 116.3 | 17.7 | 81.1 |
| 1977 | 891.5 | 259.3 | 136.6 | 122.7 | 632.3 | 211.0 | 175.2 |  |  | 138.3 | 21.0 | 86.8 |
| 1978 | 1,013.9 | 266.8 | 137.6 | 129.2 | 747.1 | 246.2 | 210.5 |  |  | 164.7 | 19.7 | 106.0 |
| 1979 | 1,135.6 | 286.2 | 144.3 | 141.9 | 849.4 | 291.4 | 241.9 |  |  | 184.5 | 18.7 | 112.9 |
| 1980 | 1,238.6 | 325.0 | 170.6 | 154.4 | 913.5 | 325.7 | 262.6 |  |  | 179.2 | 18.0 | 128.0 |
| 1981 | 1,307.0 | 339.8 | 179.3 | 160.5 | 967.3 | 355.4 | 284.1 |  |  | 182.5 | 21.4 | 123.9 |
| 1982 | 1,400.4 | 366.5 | 201.7 | 164.8 | 1,033.9 | 392.5 | 299.9 |  |  | 188.2 | 25.3 | 128.0 |
| 1983 | 1,552.2 | 428.3 | 259.2 | 169.1 | 1,123.9 | 414.2 | 331.0 |  |  | 212.9 | 28.0 | 137.8 |
| 1984 | 1,722.9 | 400.7 | 259.8 | 140.9 | 1,322.2 | 473.2 | 376.3 |  |  | 254.2 | 35.0 | 183.5 |
| 1985 | 1,910.4 | 449.8 | 270.8 | 179.0 | 1,460.6 | 500.2 | 425.9 |  |  | 295.0 | 43.3 | 196.2 |
| 1986 | 2,093.7 | 504.0 | 310.1 | 193.9 | 1,589.7 | 536.7 | 494.1 | ...... | .......... | 315.4 | 40.3 | 203.2 |
| 1987 ................................. | 2,241.2 | 531.6 | 335.8 | 195.8 | 1,709.6 | 566.4 | 587.2 | .......... | .......... | 328.2 | 34.5 | 193.3 |
| New series |  |  |  |  |  |  |  |  |  |  |  |  |
| 1988 | 2,436.1 | 562.0 | 366.8 | 195.2 | 1,874.1 | 608.0 | 675.1 | 40.1 | 635.0 | 357.8 | 40.7 | 192.5 |
| 1989 ................................... | 2,609.1 | 584.5 | 400.0 | 184.5 | 2,024.7 | 639.3 | 770.2 | 50.3 | 719.9 | 378.3 | 41.4 | 195.5 |
| 1990 | 2,751.6 | 633.7 | 455.6 | 178.2 | 2,117.8 | 640.8 | 855.3 | 62.3 | 793.0 | 383.4 | 45.0 | 193.2 |
| 1991 | 2,856.4 | 745.0 | 565.2 | 179.8 | 2,111.4 | 619.5 | 880.0 | 69.6 | 810.3 | 366.6 | 54.4 | 190.9 |
| 1992 | 2,957.0 | 843.4 | 666.8 | 176.7 | 2,113.6 | 596.2 | 901.3 | 73.5 | 827.7 | 358.9 | 64.1 | 193.0 |
| 1993 | 3,113.7 | 918.7 | 733.9 | 184.8 | 2,195.0 | 585.9 | 940.5 | 73.0 | 867.5 | 390.5 | 87.5 | 190.6 |
| 1994 | 3,362.2 | 952.3 | 732.0 | 220.2 | 2,374.0 | 645.2 | 1,001.7 | 75.3 | 926.4 | 451.3 | 76.2 | 199.6 |
| 1995 | 3,594.3 | 990.5 | 714.1 | 276.4 | 2,603.9 | 718.0 | 1,077.2 | 79.3 | 998.0 | 493.5 | 81.5 | 233.6 |
| 1994:Jan | 3,154.9 | 951.3 | 742.9 | 208.3 | 2,203.6 | 590.6 | 942.4 | 73.0 | 869.4 | 394.7 | 85.5 | 190.4 |
| Feb | 3,159.2 | 947.8 | 744.3 | 203.5 | 2,211.4 | 592.1 | 941.9 | 73.1 | 868.8 | 398.6 | 88.5 | 190.3 |
| Mar | 3,181.2 | 959.5 | 755.2 | 204.3 | 2,221.7 | 595.6 | 944.1 | 73.0 | 871.1 | 402.5 | 89.0 | 190.5 |
| Apr | 3,202.9 | 972.4 | 763.8 | 208.6 | 2,230.5 | 601.1 | 947.8 | 73.0 | 874.7 | 407.6 | 82.2 | 191.8 |
| May ............................... | 3,206.5 | 966.8 | 757.3 | 209.4 | 2,239.7 | 605.5 | 952.0 | 73.2 | 878.8 | 412.1 | 80.4 | 189.8 |
| June ................................ | 3,219.9 | 969.9 | 758.7 | 211.1 | 2,250.0 | 609.5 | 957.9 | 73.5 | 884.4 | 416.5 | 78.5 | 187.7 |
| July | 3,253.1 | 977.4 | 757.3 | 220.0 | 2,275.8 | 616.3 | 965.1 | 73.5 | 891.6 | 422.9 | 80.5 | 190.9 |
| Aug ............................... | 3,264.1 | 967.7 | 752.2 | 215.5 | 2,296.4 | 621.9 | 972.8 | 73.8 | 899.0 | 428.4 | 80.2 | 193.2 |
| Sept .............................. | 3,277.8 | 966.6 | 750.3 | 216.3 | 2,311.2 | 626.9 | 980.4 | 74.1 | 906.3 | 433.8 | 75.0 | 195.1 |
| Oct | 3,292.2 | 961.6 | 740.9 | 220.7 | 2,330.6 | 633.7 | 985.7 | 74.5 | 911.2 | 440.6 | 75.0 | 195.6 |
| Nov .............................. | 3,302.2 | 955.4 | 734.8 | 220.6 | 2,346.8 | 639.6 | 990.9 | 74.9 | 916.0 | 444.6 | 74.2 | 197.5 |
| Dec .............................. | 3,326.2 | 952.3 | 732.0 | 220.2 | 2,374.0 | 645.2 | 1,001.7 | 75.3 | 926.4 | 451.3 | 76.2 | 199.6 |
| 1995:Jan ................................ | 3,354.9 | 950.2 | 729.3 | 220.8 | 2,404.7 | 656.7 | 1,013.8 | 75.7 | 938.0 | 457.5 | 73.3 | 203.4 |
| Feb ................................ | 3,367.5 | 939.3 | 724.8 | 214.5 | 2,428.3 | 670.2 | 1,021.8 | 76.0 | 945.9 | 459.7 | 73.4 | 203.1 |
| Mar .............................. | 3,393.0 | 942.0 | 712.0 | 230.0 | 2,451.0 | 673.9 | 1,029.0 | 76.1 | 952.9 | 464.6 | 76.0 | 207.5 |
| Apr | 3,470.5 | 996.2 | 708.8 | 287.4 | 2,474.3 | 680.8 | 1,036.6 | 76.6 | 960.0 | 470.6 | 77.8 | 208.5 |
| May ............................... | 3,491.8 | 986.4 | 711.0 | 275.4 | 2,505.4 | 687.8 | 1,043.9 | 77.2 | 966.7 | 473.2 | 88.1 | 212.4 |
| June ............................. | 3,512.6 | 985.9 | 710.3 | 275.6 | 2,526.7 | 692.0 | 1,053.1 | 77.8 | 975.3 | 479.0 | 87.6 | 215.0 |
| July .............................. | 3,525.7 | 976.4 | 704.3 | 272.1 | 2,549.3 | 697.7 | 1,062.4 | 78.0 | 984.4 | 481.4 | 86.6 | 221.2 |
| Aug .............................. | 3,540.7 | 978.8 | 709.1 | 269.7 | 2,561.9 | 701.8 | 1,068.2 | 78.2 | 989.9 | 486.1 | 83.6 | 222.2 |
| Sept | 3,563.3 | 983.0 | 709.1 | 273.9 | 2,580.3 | 708.4 | 1,072.2 | 78.4 | 993.8 | 489.8 | 85.9 | 224.0 |
| Oct | 3,575.1 | 986.1 | 714.7 | 271.4 | 2,589.1 | 710.6 | 1,075.6 | 78.5 | 997.1 | 489.5 | 85.7 | 227.6 |
| Nov ................................ | 3,585.0 | 987.8 | 716.7 | 271.2 | 2,597.2 | 714.9 | 1,076.9 | 79.0 | 998.0 | 491.5 | 85.1 | 228.8 |
| Dec ............................... | 3,594.3 | 990.5 | 714.1 | 276.4 | 2,603.9 | 718.0 | 1,077.2 | 79.3 | 998.0 | 493.5 | 81.5 | 233.6 |

[^53]Source: Board of Governors of the Federal Reserve System.

Table B-69.- B ond yiedds and interest rates, 1929-95
[Percent per annum]


[^54] ties maturing in 1 year or less.

Table B-69.- B ond yields and interest rates, 1929-95-Continued
[Percent per annum]

| Year and month | U.S. Treasury securities |  |  |  |  | $\begin{aligned} & \text { Corporate } \\ & \text { bonds } \\ & \text { (Moody's) } \end{aligned}$ |  | Highgrade municibonds (Standard \& Poor's) | Newhome mortgage yields ${ }^{3}$ | Com-mercial paper, months ${ }^{4}$ | Prime rate charged by banks ${ }^{5}$ | Discount rate, Federal Reserve Bank of New York ${ }^{5}$ | Federal funds rate ${ }^{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Bills } \\ \text { (new issues) }^{1} \end{gathered}$ |  | Constant maturities ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
|  | $3-$ month | 6 month | $\begin{gathered} 3- \\ \text { year } \end{gathered}$ | 10. year | $\begin{aligned} & 30- \\ & \text { year } \end{aligned}$ | Aaa | Baa |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | High-low | High-low |  |
| 1991: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan .......... | 6.30 | 6.34 | 7.38 | 8.09 | 8.27 | 9.04 | 10.45 | 7.05 | 9.65 | 7.02 | 10.00-9.50 | 6.50-6.50 | 6.91 |
| Feb ......... | 5.95 | 5.93 | 7.08 | 7.85 | 8.03 | 8.83 | 10.07 | 6.90 | 9.57 | 6.41 | 9.50- 9.00 | 6.50-6.00 | 6.25 |
| Mar ... | 5.91 | 5.91 | 7.35 | 8.11 | 8.29 | 8.93 | 10.09 | 7.07 | 9.43 | 6.36 | 9.00-9.00 | 6.00-6.00 | 6.12 |
| Apr .... | 5.67 | 5.73 | 7.23 | 8.04 | 8.21 | 8.86 | 9.94 | 7.05 | 9.60 | 6.07 | 9.00-9.00 | 6.00-5.50 | 5.91 |
| May ......... | 5.51 | 5.65 | 7.12 | 8.07 | 8.27 | 8.86 | 9.86 | 6.95 | 9.52 | 5.94 | 9.00-8.50 | 5.50-5.50 | 5.78 |
| June ........ | 5.60 | 5.76 | 7.39 | 8.28 | 8.47 | 9.01 | 9.96 | 7.09 | 9.46 | 6.16 | 8.50-8.50 | 5.50-5.50 | 5.90 |
| July ......... | 5.58 | 5.71 | 7.38 | 8.27 | 8.45 | 9.00 | 9.89 | 7.03 | 9.43 | 6.14 | 8.50-8.50 | 5.50-5.50 | 5.82 |
| Aug ......... | 5.39 | 5.47 | 6.80 | 7.90 | 8.14 | 8.75 | 9.65 | 6.89 | 9.48 | 5.76 | 8.50-8.50 | 5.50-5.50 | 5.66 |
| Sept .. | 5.25 | 5.29 | 6.50 | 7.65 | 7.95 | 8.61 | 9.51 | 6.80 | 9.30 | 5.59 | 8.50-8.00 | 5.50-5.00 | 5.45 |
| Oct .......... | 5.03 | 5.08 | 6.23 | 7.53 | 7.93 | 8.55 | 9.49 | 6.59 | 9.04 | 5.33 | 8.00-8.00 | 5.00-5.00 | 5.21 |
| Nov .......... | 4.60 | 4.66 | 5.90 | 7.42 | 7.92 | 8.48 | 9.45 | 6.64 | 8.64 | 4.93 | $8.00-7.50$ | 5.00-4.50 | 4.81 |
| Dec .......... | 4.12 | 4.16 | 5.39 | 7.09 | 7.70 | 8.31 | 9.26 | 6.63 | 8.53 | 4.49 | 7.50-6.50 | 4.50-3.50 | 4.43 |
| 1992: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan .......... | 3.84 | 3.88 | 5.40 | 7.03 | 7.58 | 8.20 | 9.13 | 6.41 | 8.49 | 4.06 | 6.50-6.50 | 3.50-3.50 | 4.03 |
| Feb .......... | 3.84 | 3.94 | 5.72 | 7.34 | 7.85 | 8.29 | 9.23 | 6.67 | 8.65 | 4.13 | 6.50-6.50 | 3.50-3.50 | 4.06 |
| Mar ......... | 4.05 | 4.19 | 6.18 | 7.54 | 7.97 | 8.35 | 9.25 | 6.69 | 8.51 | 4.38 | 6.50-6.50 | 3.50-3.50 | 3.98 |
| Apr .......... | 3.81 | 3.93 | 5.93 | 7.48 | 7.96 | 8.33 | 9.21 | 6.64 | 8.58 | 4.13 | 6.50-6.50 | 3.50-3.50 | 3.73 |
| May ......... | 3.66 | 3.78 | 5.81 | 7.39 | 7.89 | 8.28 | 9.13 | 6.57 | 8.59 | 3.97 | 6.50-6.50 | 3.50-3.50 | 3.82 |
| June ........ | 3.70 | 3.81 | 5.60 | 7.26 | 7.84 | 8.22 | 9.05 | 6.50 | 8.43 | 3.99 | 6.50-6.50 | 3.50-3.50 | 3.76 |
| July ......... | 3.28 | 3.36 | 4.91 | 6.84 | 7.60 | 8.07 | 8.84 | 6.12 | 8.00 | 3.53 | 6.50-6.00 | 3.50-3.00 | 3.25 |
| Aug ......... | 3.14 | 3.23 | 4.72 | 6.59 | 7.39 | 7.95 | 8.65 | 6.08 | 8.00 | 3.44 | 6.00-6.00 | 3.00-3.00 | 3.30 |
| Sept ........ | 2.97 | 3.01 | 4.42 | 6.42 | 7.34 | 7.92 | 8.62 | 6.24 | 7.93 | 3.26 | 6.00-6.00 | 3.00-3.00 | 3.22 |
| Oct .......... | 2.84 | 2.98 | 4.64 | 6.59 | 7.53 | 7.99 | 8.84 | 6.43 | 7.90 | 3.33 | 6.00-6.00 | 3.00-3.00 | 3.10 |
| Nov .......... | 3.14 | 3.35 | 5.14 | 6.87 | 7.61 | 8.10 | 8.96 | 6.35 | 8.07 | 3.67 | 6.00-6.00 | 3.00-3.00 | 3.09 |
| Dec .......... | 3.25 | 3.39 | 5.21 | 6.77 | 7.44 | 7.98 | 8.81 | 6.24 | 7.88 | 3.70 | 6.00-6.00 | 3.00-3.00 | 2.92 |
| 1993: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan .......... | 3.06 | 3.17 | 4.93 | 6.60 | 7.34 | 7.91 | 8.67 | 6.18 | 7.82 | 3.35 | 6.00-6.00 | 3.00-3.00 | 3.02 |
| Feb .......... | 2.95 | 3.08 | 4.58 | 6.26 | 7.09 | 7.71 | 8.39 | 5.87 | 7.77 | 3.27 | 6.00-6.00 | 3.00-3.00 | 3.03 |
| Mar ......... | 2.97 | 3.08 | 4.40 | 5.98 | 6.82 | 7.58 | 8.15 | 5.65 | 7.46 | 3.24 | 6.00-6.00 | 3.00-3.00 | 3.07 |
| Apr .......... | 2.89 | 3.00 | 4.30 | 5.97 | 6.85 | 7.46 | 8.14 | 5.78 | 7.46 | 3.19 | 6.00-6.00 | 3.00-3.00 | 2.96 |
| May ......... | 2.96 | 3.07 | 4.40 | 6.04 | 6.92 | 7.43 | 8.21 | 5.81 | 7.37 | 3.20 | 6.00-6.00 | 3.00-3.00 | 3.00 |
| June ........ | 3.10 | 3.23 | 4.53 | 5.96 | 6.81 | 7.33 | 8.07 | 5.73 | 7.23 | 3.38 | 6.00-6.00 | 3.00-3.00 | 3.04 |
| July ......... | 3.05 | 3.15 | 4.43 | 5.81 | 6.63 | 7.17 | 7.93 | 5.60 | 7.20 | 3.35 | 6.00-6.00 | 3.00-3.00 | 3.06 |
| Aug ......... | 3.05 | 3.17 | 4.36 | 5.68 | 6.32 | 6.85 | 7.60 | 5.50 | 7.05 | 3.33 | 6.00-6.00 | 3.00-3.00 | 3.03 |
| Sept ........ | 2.96 | 3.06 | 4.17 | 5.36 | 6.00 | 6.66 | 7.34 | 5.31 | 6.95 | 3.25 | 6.00-6.00 | 3.00-3.00 | 3.09 |
| Oct .......... | 3.04 | 3.13 | 4.18 | 5.33 | 5.94 | 6.67 | 7.31 | 5.29 | 6.80 | 3.27 | 6.00-6.00 | 3.00-3.00 | 2.99 |
| Nov .......... | 3.12 | 3.27 | 4.50 | 5.72 | 6.21 | 6.93 | 7.66 | 5.47 | 6.80 | 3.43 | 6.00-6.00 | 3.00-3.00 | 3.02 |
| Dec .......... | 3.08 | 3.25 | 4.54 | 5.77 | 6.25 | 6.93 | 7.69 | 5.35 | 6.92 | 3.40 | 6.00-6.00 | 3.00-3.00 | 2.96 |
| 1994: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan .... | 3.02 | 3.19 | 4.48 | 5.75 | 6.29 | 6.92 | 7.65 | 5.30 | 6.95 | 3.30 | 6.00-6.00 | 3.00-3.00 | 3.05 |
| Feb .......... | 3.21 | 3.38 | 4.83 | 5.97 | 6.49 | 7.08 | 7.76 | 5.44 | 6.85 | 3.62 | 6.00-6.00 | 3.00-3.00 | 3.25 |
| Mar .......... | 3.52 | 3.79 | 5.40 | 6.48 | 6.91 | 7.48 | 8.13 | 5.93 | 6.99 | 4.08 | 6.00-6.25 | 3.00-3.00 | 3.34 |
| Apr .......... | 3.74 | 4.13 | 5.99 | 6.97 | 7.27 | 7.88 | 8.52 | 6.28 | 7.31 | 4.40 | 6.25-6.75 | 3.00-3.00 | 3.56 |
| May ......... | 4.19 | 4.64 | 6.34 | 7.18 | 7.41 | 7.99 | 8.62 | 6.26 | 7.43 | 4.92 | 6.75-7.25 | 3.00-3.50 | 4.01 |
| June ........ | 4.18 | 4.58 | 6.27 | 7.10 | 7.40 | 7.97 | 8.65 | 6.14 | 7.62 | 4.86 | 7.25-7.25 | 3.50-3.50 | 4.25 |
| July ......... | 4.39 | 4.81 | 6.48 | 7.30 | 7.58 | 8.11 | 8.80 | 6.19 | 7.71 | 5.13 | 7.25-7.25 | 3.50-3.50 | 4.26 |
| Aug ......... | 4.50 | 4.91 | 6.50 | 7.24 | 7.49 | 8.07 | 8.74 | 6.19 | 7.67 | 5.19 | 7.25-7.75 | 3.50-4.00 | 4.47 |
| Sept ........ | 4.64 | 5.02 | 6.69 | 7.46 | 7.71 | 8.34 | 8.98 | 6.33 | 7.70 | 5.32 | 7.75-7.75 | 4.00-4.00 | 4.73 |
| Oct .......... | 4.96 | 5.39 | 7.04 | 7.74 | 7.94 | 8.57 | 9.20 | 6.50 | 7.76 | 5.70 | 7.75-7.75 | 4.00-4.00 | 4.76 |
| Nov .......... | 5.25 | 5.69 | 7.44 | 7.96 | 8.08 | 8.68 | 9.32 | 6.96 | 7.81 | 6.01 | 7.75-8.50 | 4.00-4.75 | 5.29 |
| DeC .......... | 5.64 | 6.21 | 7.71 | 7.81 | 7.87 | 8.46 | 9.10 | 6.76 | 7.83 | 6.62 | 8.50-8.50 | 4.75-4.75 | 5.45 |
| 1995: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jan .......... | 5.81 | 6.31 | 7.66 | 7.78 | 7.85 | 8.46 | 9.08 | 6.53 | 8.18 | 6.63 | 8.50-8.50 | 4.75-4.75 | 5.53 |
| Feb ........... | 5.80 | 6.10 | 7.25 | 7.47 | 7.61 | 8.26 | 8.85 | 6.24 | 8.28 | 6.38 | 8.50-9.00 | 4.75-5.25 | 5.92 |
| Mar ......... | 5.73 | 5.91 | 6.89 | 7.20 | 7.45 | 8.12 | 8.70 | 6.10 | 8.21 | 6.30 | 9.00-9.00 | 5.25-5.25 | 5.98 |
| Apr .......... | 5.67 | 5.80 | 6.68 | 7.06 | 7.36 | 8.03 | 8.60 | 6.01 | 8.15 | 6.19 | 9.00-9.00 | 5.25-5.25 | 6.05 |
| May ......... | 5.70 | 5.73 | 6.27 | 6.63 | 6.95 | 7.65 | 8.20 | 5.90 | 7.99 | 6.07 | 9.00-9.00 | 5.25-5.25 | 6.01 |
| June ........ | 5.50 | 5.46 | 5.80 | 6.17 | 6.57 | 7.30 | 7.90 | 5.83 | 7.73 | 5.79 | 9.00-9.00 | 5.25-5.25 | 6.00 |
| July ......... | 5.47 | 5.41 | 5.89 | 6.28 | 6.72 | 7.41 | 8.04 | 5.98 | 7.78 | 5.68 | 9.00-8.75 | 5.25-5.25 | 5.85 |
| Aug ......... | 5.41 | 5.40 | 6.10 | 6.49 | 6.86 | 7.57 | 8.19 | 6.07 | 7.75 | 5.75 | 8.75-8.75 | 5.25-5.25 | 5.74 |
| Sept ........ | 5.26 | 5.28 | 5.89 | 6.20 | 6.55 | 7.32 | 7.93 | 5.88 | 7.69 | 5.66 | 8.75-8.75 | 5.25-5.25 | 5.80 |
| Oct ........... | 5.30 | 5.34 | 5.77 | 6.04 | 6.37 | 7.12 | 7.75 | 5.77 | 7.58 | 5.71 | 8.75-8.75 | 5.25-5.25 | 5.76 |
| Nov ........... | 5.35 | 5.29 | 5.57 | 5.93 | 6.26 | 7.02 | 7.68 | 5.61 | 7.46 | 5.59 | $8.75-8.75$ | 5.25-5.25 | 5.80 |
| DeC .......... | 5.16 | 5.15 | 5.39 | 5.71 | 6.06 | 6.82 | 7.49 | 5.42 | 7.40 | 5.43 | 8.75-8.50 | 5.25-5.25 | 5.60 |

Sources: Department of the Treasury, Board of Governors of the Federal Reserve System, Federal Housing Finance Board, Moody's Investors Service, and Standard \& Poor's Corporation.

Table B-70.-T otal funds raised in credit markess, 1986-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Item | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NONFINANCIAL: <br> Total net borrowing by domestic. |  |  |  |  |  |  |  |  |  |
| nonfinancial sectors .. | 863.6 | 733.7 | 767.7 | 720.3 | 669.4 | 480.6 | 545.3 | 625.9 | 617.0 |
| U.S. Government | 216.0 | 143.9 | 155.1 | 146.4 | 246.9 | 278.2 | 304.0 | 256.1 | 155.9 |
| Treasury securities | 215.6 | 142.4 | 137.7 | 144.7 | 238.7 | 292.0 | 303.8 | 248.3 | 155.7 |
| Agency issues and mortgages ...................... | . 4 | 1.5 | 17.4 | 1.6 | 8.2 | -13.8 | . 2 | 7.8 | . 2 |
| Private domestic nonfinancial sectors ... | 647.6 | 589.8 | 612.6 | 574.0 | 422.5 | 202.4 | 241.3 | 369.8 | 461.1 |
| Tax-exempt securities | 59.9 | 91.6 | 59.3 | 52.9 | 49.3 | 87.8 | 30.5 | 74.8 | -29.3 |
| Corporate bonds ........ | 127.1 | 78.8 | 103.1 | 73.8 | 47.1 | 78.8 | 67.6 | 75.2 | 23.3 |
| Mortgages ............ | 300.6 | 330.3 | 298.8 | 293.7 | 232.4 | 158.4 | 130.9 | 157.2 | 196.5 |
| Home mortgages | 206.0 | 247.6 | 229.3 | 235.2 | 226.3 | 173.6 | 187.6 | 187.9 | 204.5 |
| Multifamily residential | 33.2 | 16.9 | 17.7 | 10.6 | 1.5 | -5.5 | -10.4 | -6.0 | 1.3 |
| Commercial ... | 72.2 | 73.3 | 56.5 | 50.3 | 6.1 | -10.0 | -47.8 | -25.0 | -11.1 |
| Farm | -10.7 | -7.4 | -4.8 | -2.5 | -1.6 | . 4 | 1.4 | . 5 | 1.8 |
| Consumer credit | 57.5 | 32.9 | 50.1 | 45.8 | 15.6 | -14.8 | 7.3 | 58.9 | 121.2 |
| Bank loans n.e.c | 55.5 | 10.8 | 33.9 | 27.8 | . 4 | -40.9 | -13.7 | 3.8 | 72.7 |
| Commercial paper | -9.3 | 1.6 | 11.9 | 21.4 | 9.7 | -18.4 | 8.6 | 10.0 | 21.4 |
| Other ................... | 56.3 | 43.8 | 55.5 | 58.5 | 68.1 | -48.5 | 10.1 | -10.2 | 55.4 |
| By borrowing sector: ........................................ | 647.6 | 589.8 | 612.6 | 574.0 | 422.5 | 202.4 | 241.3 | 369.8 | 461.1 |
| Households | 261.1 | 306.5 | 259.1 | 269.5 | 263.7 | 182.7 | 200.7 | 246.5 | 360.3 |
| Nonfinancial domestic business ... | 313.1 | 192.2 | 299.0 | 253.4 | 112.2 | -61.9 | 19.5 | 61.0 | 144.3 |
| Farm | -17.4 | -11.6 | -10.2 | . 6 | 1.0 | 2.1 | 1.3 | 2.0 | 2.8 |
| Nonfarm noncorporate | 94.3 | 55.2 | 84.2 | 69.6 | 1.1 | -11.0 | -16.0 | 7.0 | 12.1 |
| Corporate ............................................ | 236.3 | 148.7 | 225.0 | 183.2 | 110.0 | -53.0 | 34.1 | 52.0 | 129.3 |
| State and local governments | 73.4 | 91.1 | 54.5 | 51.1 | 46.6 | 81.6 | 21.1 | 62.3 | -43.4 |
| Foreign net borrowing in United States | 9.7 | 6.2 | 6.4 | 10.2 | 23.9 | 14.8 | 22.6 | 68.8 | -20.3 |
| Bonds .. | 3.1 | 7.4 | 6.9 | 4.9 | 21.4 | 15.0 | 15.7 | 81.3 | 7.1 |
| Bank loans n.e.c | -1.0 | -3.6 | -1.8 | -. 13 | -2.9 | 3.1 | 2.3 | . 7 | 1.4 |
| Commercial paper ...................... | 11.5 | 3.8 | $\begin{array}{r}8.7 \\ \hline\end{array}$ | 13.1 | 12.3 | $\begin{array}{r}6.4 \\ \hline\end{array}$ | 5.2 | -9.0 | -27.3 |
| U.S. Government and other loans | -3.9 | -1.4 | -7.5 | -7.6 | -7.0 | -9.8 | -. 6 | -4.2 | -1.6 |
| Total domestic plus foreign ....................................... | 873.3 | 739.9 | 774.1 | 730.5 | 693.2 | 495.4 | 568.0 | 694.7 | 596.6 |
| FINANCIAL: <br> Total net borrowing by domestic financial sectors . | 327.8 | 291.6 | 249.2 | 226.4 | 210.9 | 154.5 | 240.1 | 290.8 | 459.4 |
| U.S. Government related | 178.1 | 168.3 | 119.8 | 149.5 | 167.4 | 145.7 | 155.8 | 164.2 | 284.3 |
| Private domestic financial sectors | 149.7 | 123.3 | 129.5 | 76.9 | 43.6 | 8.7 | 84.3 | 126.6 | 175.2 |
| By borrowing sector: ........................................ | 327.8 | 291.6 | 249.2 | 226.4 | 210.9 | 154.5 | 240.1 | 290.8 | 459.4 |
| Government-sponsored enterprises | 14.9 | 29.5 | 44.9 | 25.2 | 17.0 | 9.1 | 40.2 | 80.6 | 172.1 |
| Federally related mortgage pools ....... | 163.3 | 138.8 | 74.9 | 124.3 | 150.3 | 136.6 | 115.6 | 83.6 | 112.1 |
| Private domestic financial sectors ............... | 149.7 | 123.3 | 129.5 | 76.9 | 43.6 | 8.7 | 84.3 | 126.6 | 175.2 |
| Commercial banks | -3.1 | 7.2 | -3.2 | -1.0 | . 9 | -10.7 | 7.7 | 4.6 | 9.9 |
| Bank holding companies ...................... | 10.7 | 14.3 | 5.2 | 6.2 | -27.7 | -2.5 | 2.3 | 8.8 | 10.3 |
| Savings institutions ........ | 24.3 | 28.7 | 21.6 | -15.0 | -30.9 | -44.7 | -7.0 | 11.3 | 12.8 |
| Funding corporations ... | 12.0 | 9.7 | 38.0 | 12.5 | 15.4 | -6.5 | 13.2 | 2.9 | 24.2 |
| Finance companies .... | 51.5 | 23.2 | 23.9 | 27.4 | 23.8 | 17.7 | -1.6 | . 2 | 50.2 |
| Asset-backed securities issuers .... | 42.0 | 49.9 | 37.6 | 29.1 | 59.8 | 52.9 | 58.6 | 83.0 | 64.5 |
| Other ........................................ | 12.3 | -9.6 | 6.3 | 17.8 | 2.3 | 2.5 | 11.0 | 15.8 | 3.2 |
| ALL SECTORS, BY TRANSACTION: ................................ | 1,201.1 | 1,031.5 | 1,023.3 | 956.9 | 904.1 | 649.9 | 808.0 | 985.5 | 1,056.0 |
| U.S. Government securities | 394.5 | 312.9 | 274.9 | 295.8 | 414.4 | 424.0 | 459.8 | 420.3 | 444.9 |
| Tax-exempt securities | 59.9 | 91.6 | 59.3 | 52.9 | 49.3 | 87.8 | 30.5 | 74.8 | -29.3 |
| Corporate and foreign bonds . | 222.5 | 164.7 | 162.2 | 120.9 | 122.0 | 162.5 | 166.1 | 276.3 | 143.8 |
| Mortgages | 300.9 | 330.6 | 299.1 | 294.0 | 233.0 | 158.9 | 131.5 | 160.8 | 206.3 |
| Consumer credit .. | 57.5 | 32.9 | 50.1 | 45.8 | 15.6 | -14.8 | 7.3 | 58.9 | 121.2 |
| Bank loans n.e.c | 66.8 | -1.1 | 34.8 | 41.2 | 2.2 | -29.1 | -9.3 | -8.5 | 61.8 |
| Open-market paper ............................................. | 26.4 | 32.3 | 75.4 | 65.9 | 30.7 | -44.0 | 13.1 | -5.1 | 35.7 |
| Other loans .......................................................... | 72.7 | 67.5 | 67.5 | 40.5 | 37.1 | -95.6 | 8.9 | 8.0 | 71.7 |

[^55]
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Item | 1993 |  |  |  | 1994 |  |  |  | 1995 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | II | III | IV | 1 | II | III | IV | 1 | II | III |
| NONFINANCIAL: <br> Total net borrowing by domestic |  |  |  |  |  |  |  |  |  |  |  |
| U.S. Government | 238.6 | 346.3 | 172.9 | 266.7 | 206.4 | 131.3 | 135.6 | 150.1 | 266.8 | 202.8 | 65.8 |
| Treasury securities | 235.4 | 342.2 | 156.6 | 259.0 | 207.7 | 126.6 | 132.8 | 155.7 | 268.0 | 201.2 | 65.4 |
| Agency issues and mortgages . | 3.2 | 4.1 | 16.2 | 7.7 | -1.3 | 4.7 | 2.9 | -5.7 | -1.2 | 1.6 | . 4 |
| Private domestic nonfinancial sectors $\qquad$ | 211.1 | 446.4 | 425.2 | 396.4 | 446.1 | 449.9 | 444.3 | 504.2 | 564.2 | 674.8 | 447.3 |
| Tax-exempt securities ... | 89.9 | 134.5 | 54.7 | 20.1 | 15.7 | -20.7 | -58.4 | -53.8 | -53.3 | -10.6 | $-115.8$ |
| Corporate bonds ..................... | 85.7 | 75.7 | 72.0 | 67.4 | 34.2 | 37.4 | 15.4 | 6.2 | 55.3 | 99.0 | 60.7 |
| Mortgages ................... | 92.2 | 169.4 | 210.2 | 157.0 | 174.2 | 194.2 | 203.9 | 213.5 | 219.6 | 238.8 | 251.9 |
| Home mortgages | 115.9 | 212.0 | 227.5 | 196.0 | 203.3 | 186.2 | 208.8 | 219.8 | 192.5 | 204.2 | 215.3 |
| Multifamily residential .. | -6.1 | -10.8 | -5.0 | -2.3 | -. 3 | 4.0 | 5.6 | -4.2 | 2.9 | 15.0 | 11.9 |
| Commercial .................. | -17.7 | -32.9 | -12.7 | -36.9 | -29.4 | 1.1 | -12.7 | -3.4 | 22.5 | 17.8 | 22.4 |
| Farm ............. | . 2 | 1.0 | . 4 | . 2 | . 6 | 2.9 | 2.2 | 1.4 | 1.7 | 1.8 | 2.3 |
| Consumer credit . | 13.1 | 45.4 | 64.4 | 112.8 | 65.0 | 129.8 | 124.8 | 165.2 | 93.8 | 158.1 | 109.6 |
| Bank loans n.e.c | -30.0 | 5.1 | 16.9 | 23.2 | 57.7 | 58.7 | 97.1 | 77.1 | 143.5 | 94.4 | 99.4 |
| Commercial paper | -1.0 | 29.1 | 10.9 | 1.0 | 26.1 | 9.7 | 26.4 | 23.5 | 23.1 | 37.5 | 16.0 |
| Other ....................... | -38.9 | -12.7 | -3.9 | 14.9 | 73.2 | 40.8 | 35.1 | 72.4 | 82.2 | 57.7 | 25.6 |
| By borrowing sector: . | 211.1 | 446.4 | 425.2 | 396.4 | 446.1 | 449.9 | 444.3 | 504.2 | 564.2 | 674.8 | 447.3 |
| Households | 111.6 | 246.7 | 312.9 | 314.9 | 292.3 | 349.9 | 379.7 | 419.1 | 301.8 | 388.9 | 380.3 |
| Nonfinancial domestic business | 13.3 | 82.3 | 76.6 | 71.8 | 154.1 | 139.4 | 130.0 | 153.6 | 314.5 | 302.8 | 187.0 |
| Farm | -2.0 | 1.9 | 4.1 | 4.2 | 3.1 | 7.8 | 2.4 | -2.0 | . 9 | 3.6 | 4.3 |
| Nonfarm noncorporate ......... | 2.5 | 11.0 | 5.1 | 9.4 | 13.2 | 10.0 | 8.8 | 16.5 | 51.3 | 43.5 | 21.5 |
| Corporate ........................... | 12.9 | 69.5 | 67.4 | 58.3 | 137.7 | 121.7 | 118.8 | 139.1 | 262.3 | 255.7 | 161.1 |
| State and local governments ... | 86.2 | 117.4 | 35.8 | 9.8 | -. 3 | -39.5 | -65.4 | -68.5 | -52.1 | -16.9 | -119.9 |
| Foreign net borrowing in United States $\qquad$ | 48.8 | 63.2 | 121.1 | 42.1 | -100.3 | -34.2 | 19.6 | 33.5 | 61.4 | 40.4 | 97.5 |
| Bonds | 78.1 | 63.2 | 123.7 | 60.1 | -2.6 | -17.4 | 20.8 | 27.7 | 13.5 | 49.9 | 55.0 |
| Bank loans n.e.c | 1.5 | 6.6 | 1.0 | -6.3 | 6.0 | -4.5 | 4.7 | -. 5 | 8.1 | 5.6 | 8.2 |
| Commercial paper | -21.7 | -. 6 | -1.6 | -12.0 | -101.8 | -5.2 | -8.1 | 5.9 | 37.9 | -11.1 | 30.9 |
| U.S. Government and other Ioans | -9.1 | -5.9 | -2.1 | . 3 | -1.8 | -7.1 | 2.2 | 4 | 1.9 | -4.0 | 3.4 |
| Total domestic plus foreign ............ | 498.6 | 855.9 | 719.1 | 705.3 | 552.2 | 547.0 | 599.5 | 687.8 | 892.4 | 918.0 | 610.6 |
| FINANCIAL: <br> Total net borrowing by domestic |  |  |  |  |  |  |  |  |  |  |  |
| financial sectors ..................... | 156.7 | 186.0 | 435.0 | 385.4 | 493.1 | 380.1 | 419.7 | 544.8 | 268.7 | 432.0 | 407.7 |
| U.S. Government related ............. | 145.8 | 63.6 | 290.3 | 156.9 | 309.4 | 264.5 | 245.7 | 317.5 | 93.0 | 197.7 | 230.1 |
| Private domestic financial sectors | 10.9 | 122.4 | 144.7 | 228.5 | 183.8 | 115.5 | 174.0 | 227.3 | 175.7 | 234.4 | 177.6 |
| By borrowing sector: ................... | 156.7 | 186.0 | 435.0 | 385.4 | 493.1 | 380.1 | 419.7 | 544.8 | 268.7 | 432.0 | 407.7 |
| Government-sponsored enter- <br> prises $\qquad$ | 32.2 | 68.8 | 167.8 | 53.4 | 140.8 | 146.6 | 152.1 | 249.0 | 62.9 | 127.2 | 101.5 |
| Federally related mortgage pools $\qquad$ | 113.6 | -5.2 | 122.5 | 103.5 | 168.5 | 117.9 | 93.6 | 68.5 | 30.0 | 70.5 | 128.6 |
| Private domestic financial sectors $\qquad$ | 10.9 | 122.4 | 144.7 | 228.5 | 183.8 | 115.5 | 174.0 | 227.3 | 175.7 | 234.4 | 177.6 |
| Commercial banks | 2.1 | 10.9 | 5.0 | . 4 | . 9 | 10.6 | 23.9 | 4.1 | 6.3 | 18.2 | 9.6 |
| Bank holding companies ...... | 21.1 | 1.3 | . 5 | 12.2 | 3.5 | 10.1 | 11.5 | 16.0 | 13.3 | 23.8 | 25.2 |
| Savings institutions ............ | 9.9 | 12.5 | 12.3 | 10.3 | $-5.5$ | 5.8 | 14.8 | 36.1 | -18.9 | -6.8 | 4.9 |
| Funding corporations .......... | -31.8 | 3.9 | 8.7 | 30.9 | 48.8 | -10.5 | 47.3 | 11.1 | 61.6 | 21.4 | 41.9 |
| Finance companies .............. | -18.8 | -16.2 | 16.2 | 19.4 | 63.7 | 63.6 | 16.3 | 57.3 | 83.1 | 57.2 | 6.5 |
| Asset-backed securities issuers $\qquad$ | 62.4 | 61.5 | 82.0 | 126.1 | 89.4 | 38.5 | 55.4 | 74.5 | 60.8 | 99.4 | 97.1 |
| Other ................................... | -34.1 | 48.4 | 20.1 | 29.2 | -17.1 | -2.4 | 4.7 | 28.2 | -30.3 | 21.1 | -7.7 |
| ALL SECTORS, BY TRANSACTION: .... | 655.2 | 1,041.9 | 1,154.2 | 1,090.7 | 1,045.3 | 927.0 | 1,019.2 | 1,232.6 | 1,161.1 | 1,350.0 | 1,018.3 |
| U.S. Government securities .......... | 384.4 | 409.9 | 463.2 | 423.6 | 534.9 | 395.8 | 381.3 | 467.5 | 359.8 | 400.5 | 295.9 |
| Tax-exempt securities ................. | 89.9 | 134.5 | 54.7 | 20.1 | 15.7 | -20.7 | -58.4 | -53.8 | -53.3 | -10.6 | -115.8 |
| Corporate and foreign bonds ....... | 265.2 | 235.1 | 334.8 | 269.9 | 192.7 | 116.4 | 135.7 | 130.4 | 225.3 | 319.1 | 248.7 |
| Mortgages ............................... | 93.6 | 170.7 | 216.4 | 162.5 | 184.0 | 206.6 | 215.9 | 218.4 | 224.7 | 243.6 | 254.2 |
| Consumer credit | 13.1 | 45.4 | 64.4 | 112.8 | 65.0 | 129.8 | 124.8 | 165.2 | 93.8 | 158.1 | 109.6 |
| Bank loans, n.e.c .. | -64.5 | 24.6 | 2.0 | 4.0 | 51.8 | 26.8 | 90.1 | 78.5 | 151.7 | 124.1 | 100.7 |
| Open-market paper .. | -98.8 | 12.9 | -1.0 | 66.5 | -40.7 | 8.8 | 59.6 | 115.3 | 99.5 | 60.4 | 90.2 |
| Other loans .................. | -27.7 | 8.9 | 19.7 | 31.2 | 41.9 | 63.5 | 70.2 | 111.0 | 59.6 | 55.0 | 34.8 |

[^56]Table B-71.-M ortgage debt outstanding by type of propety and of finanding, 1940-95
[Billions of dollars]

| End of year or quarter | All properties | Farm properties | Nonfarm properties |  |  |  | Nonfarm properties by type of mortgage |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | 1- to 4family houses | Multifamily properties | Commercial properties | Government underwritten |  |  |  | Conventional ${ }^{2}$ |  |
|  |  |  |  |  |  |  | Total ${ }^{1}$ | 1- to 4-family houses |  |  | Total | 1- to 4family houses |
|  |  |  |  |  |  |  |  | Total | FHA insured | $\begin{gathered} \text { VA } \\ \text { guar- } \end{gathered}$ anteed |  |  |
| 1940 | 36.5 | 6.5 | 30.0 | 17.4 | 5.7 | 6.9 | 2.3 | 2.3 | 2.3 |  | 27.7 | 15.1 |
| 1941 | 37.6 | 6.4 | 31.2 | 18.4 | 5.9 | 7.0 | 3.0 | 3.0 | 3.0 |  | 28.2 | 15.4 |
| 1942 | 36.7 | 6.0 | 30.8 | 18.2 | 5.8 | 6.7 | 3.7 | 3.7 | 3.7 |  | 27.1 | 14.5 |
| 1943. | 35.3 | 5.4 | 29.9 | 17.8 | 5.8 | 6.3 | 4.1 | 4.1 | 4.1 |  | 25.8 | 13.7 |
| 1944. | 34.7 | 4.9 | 29.7 | 17.9 | 5.6 | 6.2 | 4.2 | 4.2 | 4.2 |  | 25.5 | 13.7 |
| 1945 . | 35.5 | 4.8 | 30.8 | 18.6 | 5.7 | 6.4 | 4.3 | 4.3 | 4.1 | 0.2 | 26.5 | 14.3 |
| 1946 | 41.8 | 4.9 | 36.9 | 23.0 | 6.1 | 7.7 | 6.3 | 6.1 | 3.7 | 2.4 | 30.6 | 16.9 |
| 1947 | 48.9 | 5.1 | 43.9 | 28.2 | 6.6 | 9.1 | 9.8 | 9.3 | 3.8 | 5.5 | 34.1 | 18.9 |
| 1948 .. | 56.2 | 5.3 | 50.9 | 33.3 | 7.5 | 10.2 | 13.6 | 12.5 | 5.3 | 7.2 | 37.3 | 20.8 |
| 1949 ................. | 62.7 | 5.6 | 57.1 | 37.6 | 8.6 | 10.8 | 17.1 | 15.0 | 6.9 | 8.1 | 40.0 | 22.6 |
| 1950 | 72.8 | 6.1 | 66.7 | 45.2 | 10.1 | 11.5 | 22.1 | 18.8 | 8.5 | 10.3 | 44.7 | 26.3 |
| 1951. | 82.3 | 6.7 | 75.6 | 51.7 | 11.5 | 12.5 | 26.6 | 22.9 | 9.7 | 13.2 | 49.1 | 28.9 |
| 1952 ................ | 91.4 | 7.2 | 84.2 | 58.5 | 12.3 | 13.4 | 29.3 | 25.4 | 10.8 | 14.6 | 54.9 | 33.2 |
| 1953 ... | 101.3 | 7.7 | 93.6 | 66.1 | 12.9 | 14.5 | 32.1 | 28.1 | 12.0 | 16.1 | 61.5 | 38.0 |
| 1954. | 113.7 | 8.2 | 105.4 | 75.7 | 13.5 | 16.3 | 36.2 | 32.1 | 12.8 | 19.3 | 69.3 | 43.6 |
| 1955 ................ | 129.9 | 9.0 | 120.9 | 88.2 | 14.3 | 18.3 | 42.9 | 38.9 | 14.3 | 24.6 | 78.0 | 49.3 |
| 1956 ................ | 144.5 | 9.8 | 134.6 | 99.0 | 14.9 | 20.7 | 47.8 | 43.9 | 15.5 | 28.4 | 86.8 | 55.1 |
| 1957 ... | 156.5 | 10.4 | 146.1 | 107.6 | 15.3 | 23.2 | 51.6 | 47.2 | 16.5 | 30.7 | 94.6 | 60.4 |
| 1958 ................ | 171.8 | 11.1 | 160.7 | 117.7 | 16.8 | 26.1 | 55.2 | 50.1 | 19.7 | 30.4 | 105.5 | 67.6 |
| 1959 ................. | 190.8 | 12.1 | 178.7 | 130.9 | 18.7 | 29.2 | 59.3 | 53.8 | 23.8 | 30.0 | 119.4 | 77.0 |
| 1960 | 207.5 | 12.8 | 194.7 | 141.9 | 20.3 | 32.4 | 62.3 | 56.4 | 26.7 | 29.7 | 132.3 | 85.5 |
| 1961 | 228.0 | 13.9 | 214.1 | 154.6 | 23.0 | 36.5 | 65.6 | 59.1 | 29.5 | 29.6 | 148.5 | 95.5 |
| 1962 | 251.4 | 15.2 | 236.2 | 169.3 | 25.8 | 41.1 | 69.4 | 62.2 | 32.3 | 29.9 | 166.9 | 107.1 |
| 1963 .. | 278.5 | 16.8 | 261.7 | 186.4 | 29.0 | 46.2 | 73.4 | 65.9 | 35.0 | 30.9 | 188.2 | 120.5 |
| 1964. | 305.9 | 18.9 | 287.0 | 203.4 | 33.6 | 50.0 | 77.2 | 69.2 | 38.3 | 30.9 | 209.8 | 134.1 |
| 1965. | 333.3 | 21.2 | 312.1 | 220.5 | 37.2 | 54.5 | 81.2 | 73.1 | 42.0 | 31.1 | 231.0 | 147.4 |
| 1966 | 356.5 | 23.1 | 333.4 | 232.9 | 40.3 | 60.1 | 84.1 | 76.1 | 44.8 | 31.3 | 249.3 | 156.9 |
| 1967 | 381.2 | 25.1 | 356.1 | 247.3 | 43.9 | 64.8 | 88.2 | 79.9 | 47.4 | 32.5 | 267.9 | 167.4 |
| 1968 | 411.1 | 27.5 | 383.5 | 264.8 | 47.3 | 71.4 | 93.4 | 84.4 | 50.6 | 33.8 | 290.1 | 180.4 |
| 1969 | 441.6 | 29.4 | 412.2 | 283.2 | 52.2 | 76.9 | 100.2 | 90.2 | 54.5 | 35.7 | 312.0 | 193.0 |
| 1970 | 473.7 | 30.5 | 443.2 | 297.4 | 60.1 | 85.6 | 109.2 | 97.3 | 59.9 | 37.3 | 333.9 | 200.2 |
| 1971 | 524.2 | 32.4 | 491.8 | 325.9 | 70.1 | 95.9 | 120.7 | 105.2 | 65.7 | 39.5 | 371.1 | 220.7 |
| 1972 | 597.4 | 35.4 | 562.0 | 366.5 | 82.8 | 112.7 | 131.1 | 113.0 | 68.2 | 44.7 | 430.9 | 253.5 |
| 1973 | 672.6 | 39.8 | 632.8 | 407.9 | 93.1 | 131.7 | 135.0 | 116.2 | 66.2 | 50.0 | 497.7 | 291.7 |
| 1974 | 732.5 | 44.9 | 687.5 | 440.7 | 100.0 | 146.9 | 140.2 | 121.3 | 65.1 | 56.2 | 547.3 | 319.4 |
| 1975 | 791.9 | 49.9 | 742.0 | 482.1 | 100.6 | 159.3 | 147.0 | 127.7 | 66.1 | 61.6 | 595.0 | 354.3 |
| 1976 | 878.6 | 55.4 | 823.2 | 546.3 | 105.7 | 171.2 | 154.1 | 133.5 | 66.5 | 67.0 | 669.0 | 412.8 |
| 1977 | 1,010.3 | 63.9 | 946.4 | 642.7 | 114.0 | 189.7 | 161.7 | 141.6 | 68.0 | 73.6 | 784.6 | 501.0 |
| 1978 | 1,163.0 | 72.8 | 1,090.2 | 753.5 | 124.9 | 211.8 | 176.4 | 153.4 | 71.4 | 82.0 | 913.9 | 600.2 |
| 1979 .... | 1,328.4 | 86.8 | 1,241.7 | 870.5 | 134.9 | 236.3 | 199.0 | 172.9 | 81.0 | 92.0 | 1,042.7 | 697.6 |
| 1980 | 1,463.0 | 97.5 | 1,365.5 | 969.0 | 141.0 | 255.5 | 225.1 | 195.2 | 93.6 | 101.6 | 1,140.4 | 773.9 |
| 1981 | 1,572.8 | 107.2 | 1,465.5 | 1,049.1 | 138.9 | 277.5 | 238.9 | 207.6 | 101.3 | 106.2 | 1,226.7 | 841.5 |
| 1982 | 1,650.7 | 111.3 | 1,539.3 | 1,096.4 | 140.8 | 302.2 | 248.9 | 217.9 | 108.0 | 109.9 | 1,290.5 | 878.5 |
| 1983 | 1,841.9 | 113.7 | 1,728.2 | 1,219.4 | 154.0 | 354.8 | 279.8 | 248.8 | 127.4 | 121.4 | 1,448.4 | 970.5 |
| 1984 | 2,071.1 | 112.4 | 1,958.7 | 1,360.4 | 177.0 | 421.4 | 294.8 | 265.9 | 136.7 | 129.1 | 1,663.9 | 1,094.5 |
| 1985 | 2,334.2 | 105.9 | 2,228.3 | 1,535.7 | 205.3 | 487.3 | 328.3 | 288.8 | 153.0 | 135.8 | 1,900.0 | 1,246.9 |
| 1986 | 2,635.1 | 95.2 | 2,539.9 | 1,741.7 | 238.5 | 559.7 | 370.5 | 328.6 | 185.5 | 143.1 | 2,169.4 | 1,413.1 |
| 1987 | 2,985.3 | 87.7 | 2,897.6 | 1,976.5 | 260.9 | 660.2 | 431.4 | 387.9 | 235.5 | 152.4 | 2,466.1 | 1,588.6 |
| 1988 | 3,280.3 | 83.0 | 3,197.3 | 2,217.4 | 277.5 | 702.4 | 459.7 | 414.2 | 258.8 | 155.4 | 2,737.7 | 1,803.3 |
| 1989 | 3,582.1 | 80.5 | 3,501.7 | 2,459.5 | 288.5 | 753.7 | 486.8 | 440.1 | 282.8 | 157.3 | 3,014.8 | 2,019.4 |
| 1990 | 3,803.7 | 78.9 | 3,724.8 | 2,676.2 | 289.8 | 758.8 | 517.9 | 470.9 | 310.9 | 160.0 | 3,206.9 | 2,205.3 |
| 1991 | 3,962.6 | 79.3 | 3,883.3 | 2,849.8 | 284.4 | 749.1 | 537.2 | 493.3 | 330.6 | 162.7 | 3,346.1 | 2,356.5 |
| 1992. | 4,094.1 | 80.7 | 4,013.3 | 3,037.4 | 274.2 | 701.7 | 533.3 | 489.8 | 326.0 | 163.8 | 3,480.0 | 2,547.7 |
| 1993 | 4,269.0 | 81.2 | 4,187.8 | 3,227.6 | 270.8 | 689.4 | 513.4 | 469.5 | 303.2 | 166.2 | 3,674.4 | 2,758.2 |
| 1994 .... | 4,475.2 | 83.0 | 4,392.3 | 3,432.2 | 275.3 | 684.8 | 559.3 | 514.2 | 336.8 | 177.3 | 3,833.0 | 2,918.0 |
| 1993: I | 4,104.1 | 80.8 | 4,023.3 | 3,053.0 | 272.8 | 697.5 | 530.5 | 487.0 | 323.4 | 163.6 | 3,492.8 | 2,566.1 |
| II ............. | 4,154.2 | 81.0 | 4,073.1 | 3,113.4 | 270.2 | 689.5 | 522.6 | 479.0 | 315.2 | 163.8 | 3,550.5 | 2,634.4 |
| III ........... | 4,212.9 | 81.1 | 4,131.8 | 3,174.9 | 269.5 | 687.4 | 520.1 | 476.2 | 312.5 | 163.7 | 3,611.7 | 2,698.7 |
| IV ............ | 4,269.0 | 81.2 | 4,187.8 | 3,227.6 | 270.8 | 689.4 | 513.4 | 469.5 | 303.2 | 166.2 | 3,674.4 | 2,758.2 |
| 1994: I | 4,301.1 | 81.3 | 4,219.8 | 3,264.6 | 271.5 | 683.7 | 521.2 | 476.7 | 309.7 | 167.0 | 3,698.6 | 2,787.9 |
| II ............. | 4,360.3 | 82.1 | 4,278.2 | 3,318.7 | 273.6 | 686.0 | 533.5 | 488.8 | 318.8 | 170.0 | 3,744.7 | 2,829.9 |
| III ............ | 4,419.4 | 82.6 | 4,336.7 | 3,376.0 | 276.0 | 684.8 | 551.1 | 506.2 | 331.9 | 174.3 | 3,785.7 | 2,869.7 |
| IV ........... | 4,475.2 | 83.0 | 4,392.3 | 3,432.2 | 275.3 | 684.8 | 559.3 | 514.2 | 336.8 | 177.3 | 3,833.0 | 2,918.0 |
| 1995: I | 4,517.2 | 83.4 | 4,433.8 | 3,466.1 | 276.4 | 691.3 | 565.4 | 520.3 | 341.7 | 178.6 | 3,868.4 | 2,945.8 |
| II ............. | 4,585.6 | 83.9 | 4,501.8 | 3,524.7 | 280.6 | 696.5 | 571.3 | 525.8 | 345.5 | 180.3 | 3,930.5 | 2,998.9 |
| III $p^{\text {......... }}$ | 4,654.6 | 84.4 | 4,570.2 | 3,583.9 | 283.8 | 702.5 | 578.4 | 531.0 | 348.5 | 182.5 | 3,991.8 | 3,052.9 |

[^57]Source: Board of Governors of the Federal Reserve System, based on data from various Government and private organizations.

Table B-72.-M ortgage debt outstanding by holder, 1940-95
[Billions of dollars]

|  |  | Total | Major financial institutions |  |  |  | Other holders |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | End of year or quarter |  | Total | Savings institutions ${ }^{1}$ | Commercial banks ${ }^{2}$ | Life insurance companies | Federal and related agencies $^{3}$ | Individuals and others ${ }^{4}$ |
| 1940 |  | 36.5 | 19.5 | 9.0 | 4.6 | 6.0 | 4.9 | 12.0 |
| 1941 | .......................................... | 37.6 | 20.7 | 9.4 | 4.9 | 6.4 | 4.7 | 12.2 |
| 1942 | .......................................... | 36.7 | 20.7 | 9.2 | 4.7 | 6.7 | 4.3 | 11.7 |
| 1943 | ..................................................................... | 35.3 | 20.2 | 9.0 | 4.5 | 6.7 | 3.6 | 11.5 |
| 1944 | .................................................................... | 34.7 | 20.2 | 9.1 | 4.4 | 6.7 | 3.0 | 11.5 |
| 1945 | .................................................................... | 35.5 | 21.0 | 9.6 | 4.8 | 6.6 | 2.4 | 12.1 |
| 1946 | .......................................... | 41.8 | 26.0 | 11.5 | 7.2 | 7.2 | 2.0 | 13.8 |
| 1947 | .................................................................. | 48.9 | 31.8 | 13.8 | 9.4 | 8.7 | 1.8 | 15.3 |
| 1948 | ........................................... | 56.2 | 37.8 | 16.1 | 10.9 | 10.8 | 1.8 | 16.6 |
| 1949 | ......................................... | 62.7 | 42.9 | 18.3 | 11.6 | 12.9 | 2.3 | 17.5 |
| 1950 |  | 72.8 | 51.7 | 21.9 | 13.7 | 16.1 | 2.8 | 18.4 |
| 1951 | ................................................................... | 82.3 | 59.5 | 25.5 | 14.7 | 19.3 | 3.5 | 19.3 |
| 1952 | .................................................................. | 91.4 | 66.9 | 29.8 | 15.9 | 21.3 | 4.1 | 20.4 |
| 1953 | ........................................... | 101.3 | 75.1 | 34.9 | 16.9 | 23.3 | 4.6 | 21.7 |
| 1954 | .......................................... | 113.7 | 85.7 | 41.1 | 18.6 | 26.0 | 4.8 | 23.2 |
| 1955 | ......................................... | 129.9 | 99.3 | 48.9 | 21.0 | 29.4 | 5.3 | 25.3 |
| 1956 | ......................................... | 144.5 | 111.2 | 55.5 | 22.7 | 33.0 | 6.2 | 27.1 |
| 1957 | ......................................... | 156.5 | 119.7 | 61.2 | 23.3 | 35.2 | 7.7 | 29.1 |
| 1958 | ......................................... | 171.8 | 131.5 | 68.9 | 25.5 | 37.1 | 8.0 | 32.3 |
| 1959 | .... | 190.8 | 145.5 | 78.1 | 28.1 | 39.2 | 10.2 | 35.1 |
| 1960 |  | 207.5 | 157.6 | 87.0 | 28.8 | 41.8 | 11.5 | 38.4 |
| 1961 | ........................................... | 228.0 | 172.6 | 98.0 | 30.4 | 44.2 | 12.2 | 43.1 |
| 1962 | ........................................... | 251.4 | 192.5 | 111.1 | 34.5 | 46.9 | 12.6 | 46.3 |
| 1963 | ........................................... | 278.5 | 217.1 | 127.2 | 39.4 | 50.5 | 11.8 | 49.5 |
| 1964 | ............................................. | 305.9 | 241.0 | 141.9 | 44.0 | 55.2 | 12.2 | 52.7 |
| 1965 | ...................................... | 333.3 | 264.6 | 154.9 | 49.7 | 60.0 | 13.5 | 55.2 |
| 1966 | ........................................... | 356.5 | 280.8 | 161.8 | 54.4 | 64.6 | 17.5 | 58.2 |
| 1967 | ......................................................................... | 381.2 | 298.8 | 172.3 | 59.0 | 67.5 | 20.9 | 61.4 |
| 1968 | ......................................... | 411.1 | 319.9 | 184.3 | 65.7 | 70.0 | 25.1 | 66.1 |
| 1969 | .......................................... | 441.6 | 339.1 | 196.4 | 70.7 | 72.0 | 31.1 | 71.4 |
| 1970 |  | 473.7 | 355.9 | 208.3 | 73.3 | 74.4 | 38.3 | 79.4 |
| 1971 | ........................................................................ | 524.2 | 394.2 | 236.2 | 82.5 | 75.5 | 46.4 | 83.6 |
| 1972 | ........................................... | 597.4 | 450.0 | 273.7 | 99.3 | 76.9 | 54.6 | 92.8 |
| 1973 | ......................................... | 672.6 | 505.4 | 305.0 | 119.1 | 81.4 | 64.8 | 102.4 |
| 1974 | .......................................... | 732.5 | 542.6 | 324.2 | 132.1 | 86.2 | 82.2 | 107.7 |
| 1975 | ......................................... | 791.9 | 581.2 | 355.8 | 136.2 | 89.2 | 101.1 | 109.6 |
| 1976 | .......................................... | 878.6 | 647.5 | 404.6 | 151.3 | 91.6 | 116.7 | 114.4 |
| 1977 | ........................................... | 1,010.3 | 745.2 | 469.4 | 179.0 | 96.8 | 140.5 | 124.6 |
| 1978 | ............................................ | 1,163.0 | 848.2 | 528.0 | 214.0 | 106.2 | 170.6 | 144.3 |
| 1979 | ......................................... | 1,328.4 | 938.2 | 574.6 | 245.2 | 118.4 | 216.0 | 174.3 |
| 1980 |  | 1,463.0 | 996.8 | 603.1 | 262.7 | 131.1 | 256.8 | 209.4 |
| 1981 | ......................................... | 1,572.8 | 1,040.5 | 618.5 | 284.2 | 137.7 | 289.4 | 242.9 |
| 1982 | ......................................... | 1,650.7 | 1,021.3 | 578.1 | 301.3 | 142.0 | 355.4 | 273.9 |
| 1983 |  | 1,841.9 | 1,108.2 | 626.7 | 330.5 | 151.0 | 433.4 | 300.3 |
| 1984 | ......................................... | 2,071.1 | 1,245.9 | 709.7 | 379.5 | 156.7 | 490.6 | 334.6 |
| 1985 |  | 2,334.2 | 1,361.5 | 760.5 | 429.2 | 171.8 | 581.9 | 390.8 |
| 1986 |  | 2,635.1 | 1,474.3 | 778.0 | 502.5 | 193.8 | 733.7 | 427.0 |
| 1987 |  | 2,985.3 | 1,665.3 | 860.5 | 592.4 | 212.4 | 858.9 | 461.1 |
| 1988 |  | 3,280.3 | 1,831.5 | 924.6 | 674.0 | 232.9 | 937.8 | 511.1 |
| 1989 |  | 3,582.1 | 1,931.5 | 910.3 | 767.1 | 254.2 | 1,067.3 | 583.3 |
| 1990 |  | 3,803.7 | 1,914.3 | 801.6 | 844.8 | 267.9 | 1,258.9 | 630.5 |
| 1991 |  | 3,962.6 | 1,846.7 | 705.4 | 876.1 | 265.3 | 1,422.6 | 693.2 |
| 1992 |  | 4,094.1 | 1,769.2 | 628.0 | 894.5 | 246.7 | 1,558.3 | 766.6 |
| 1993 |  | 4,269.0 | 1,767.8 | 598.3 | 940.4 | 229.1 | 1,684.2 | 816.9 |
| 1994 | .............................................. | 4,475.2 | 1,815.8 | 596.2 | 1,004.3 | 215.3 | 1,791.3 | 868.2 |
| 1993: | \| ....................................... | 4,104.1 | 1,753.3 | 617.2 | 891.8 | 244.4 | 1,586.9 | 763.9 |
|  | II ..................................... | 4,154.2 | 1,765.7 | 612.4 | 911.0 | 242.2 | 1,600.3 | 788.2 |
|  | III .................................... | 4,212.9 | 1,770.0 | 609.7 | 922.7 | 237.6 | 1,636.7 | 806.3 |
|  | IV .................................... | 4,269.0 | 1,767.8 | 598.3 | 940.4 | 229.1 | 1,684.2 | 816.9 |
| 1994: |  | 4,301.1 | 1,746.4 | 584.5 | 937.9 | 224.0 | 1,727.0 | 827.7 |
|  | II ..................................... | 4,360.3 | 1,763.2 | 585.7 | 956.8 | 220.7 | 1,759.9 | 837.2 |
|  | III ..................................... | 4,419.4 | 1,786.1 | 587.5 | 981.4 | 217.2 | 1,780.8 | 852.5 |
|  | IV .................................... | 4,475.2 | 1,815.8 | 596.2 | 1,004.3 | 215.3 | 1,791.3 | 868.2 |
| 1995: | I ....................................... | 4,517.2 | 1,841.8 | 601.8 | 1,024.9 | 215.2 | 1,796.2 | 879.3 |
|  | II ..................................... | 4,585.6 | 1,868.2 | 599.7 | 1,053.0 | 215.4 | 1,812.1 | 905.3 |
|  | IIIP ................................... | 4,654.6 | 1,895.3 | 604.6 | 1,072.8 | 217.9 | 1,841.1 | 918.2 |

[^58]Source: Board of Governors of the Federal Reserve System, based on data from various Government and private organizations.

Table B-73.-Consumer credit outstanding, 1955-95
[Amount outstanding (end of month); billions of dollars, seasonally adjusted]

| Year and month | Total consumer credit | Installment credit ${ }^{1}$ |  |  |  | Noninstallment credit ${ }^{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Automobile | Revolving ${ }^{2}$ | Other ${ }^{3}$ |  |
| December: |  |  |  |  |  |  |
| 1955 ......................................... | 41.9 | 29.8 | 13.5 | ....................... | 16.3 | 12.1 |
| 1956 ......................................... | 45.5 | 32.7 | 14.5 | ..................... | 18.2 | 12.8 |
| 1957 ......................................... | 48.1 | 34.9 | 15.5 | ........................ | 19.4 | 13.2 |
| 1958 ......................................... | 48.4 | 34.7 | 14.3 | ...................... | 20.5 | 13.6 |
| 1959 ........................................ | 55.9 | 40.4 | 16.6 | ..................... | 23.8 | 15.5 |
| 1960 ......................................... | 60.0 | 44.3 | 18.1 |  | 26.2 | 15.7 |
| 1961 ................................................................... | 62.3 | 45.4 | 17.7 | ......................... | 27.8 | 16.9 |
| 1962 ........................................ | 68.2 | 50.4 | 20.0 | ................... | 30.4 | 17.9 |
| 1963 ......................................... | 76.6 | 57.1 | 22.9 | ................... | 34.2 | 19.6 |
| 1964 ........................................ | 86.0 | 64.7 | 25.9 | ................... | 38.8 | 21.3 |
| 1965 ...................................... | 95.9 | 72.8 | 29.4 | ................... | 43.4 | 23.1 |
| 1966 ...................................... | 101.8 | 78.2 | 31.0 | ................... | 47.1 | 23.7 |
| 1967 ...................................... | 106.7 | 81.8 | 31.1 |  | 50.6 | 24.9 |
| 1968 ......................................... | 117.2 | 90.1 | 34.4 | 2.0 | 53.7 | 27.1 |
| 1969 ............................................ | 126.9 | 99.4 | 36.9 | 3.6 | 58.9 | 27.5 |
| 1970 ........................................ | 131.6 | 103.9 | 36.3 | 4.9 | 62.7 | 27.7 |
| 1971 ............................................ | 147.1 | 116.4 | 40.5 | 8.3 | 67.7 | 30.6 |
| 1972 ......................................... | 166.0 | 131.3 | 47.8 | 9.4 | 74.0 | 34.8 |
| 1973 ........................................ | 190.6 | 152.9 | 53.7 | 11.3 | 87.9 | 37.7 |
| 1974 .......................................... | 199.4 | 162.2 | 54.2 | 13.2 | 94.7 | 37.2 |
| 1975 .......................................... | 205.0 | 167.0 | 57.0 | 14.5 | 95.5 | 37.9 |
| 1976 ........................................... | 228.2 | 187.8 | 66.8 | 16.6 | 104.4 | 40.4 |
| 1977 ........................................... | 263.8 | 221.5 | 80.9 | 36.7 | 103.8 | 42.3 |
| 1978 .......................................... | 308.3 | 262.0 | 98.7 | 45.2 | 118.0 | 46.3 |
| 1979 ........................................... | 347.5 | 296.5 | 112.5 | 53.4 | 130.7 | 51.0 |
| $1980$ | 350.3 | 298.2 | 112.0 | 55.1 | 131.1 | 52.1 |
| 1981 ......................................... | 366.9 | 311.3 | 119.0 | 61.1 | 131.2 | 55.6 |
| 1982 ........................................... | 383.1 | 325.8 | 125.9 | 66.5 | 133.4 | 57.3 |
| 1983 ........................................... | 431.2 | 369.0 | 143.6 | 79.1 | 146.3 | 62.2 |
| 1984 ........................................... | 511.3 | 442.6 | 173.6 | 100.3 | 168.8 | 68.7 |
| 1985 ........................................... | 591.3 | 517.7 | 210.2 | 121.8 | 185.7 | 73.6 |
| 1986 ........................................... | 648.0 | 572.0 | 247.8 | 135.8 | 188.4 | 76.0 |
| 1987 ........................................... | 680.0 | 608.7 | 266.3 | 153.1 | 189.3 | 71.4 |
| $1988{ }^{5}$.......................................... | 729.1 | 662.6 | 285.4 | 174.3 | 202.9 | 66.6 |
| 1989 ............................................ | 782.1 | 717.2 | 291.5 | 199.2 | 226.5 | 64.9 |
| 1990 | 797.3 | 734.9 | 283.1 | 223.5 | 228.3 | 62.4 |
| 1991 ... | 781.0 | 728.4 | 259.6 | 245.3 | 223.5 | 52.6 |
| 1992 ... | 786.4 | 730.8 | 257.4 | 258.1 | 215.3 | 55.6 |
| 1993 ......................................... | 843.3 | 790.4 | 280.6 | 286.6 | 223.2 | 53.0 |
| 1994 ........................................... | 961.1 | 902.9 | 317.2 | 334.5 | 251.1 | 58.3 |
| 1995 p .......................................... | 1,087.8 | 1,022.9 | 353.1 | 394.8 | 275.1 | 64.9 |
|  |  | 795.9 | 282.7 | 288.5 | 224.7 | 53.0 |
| Feb | 854.7 | 800.3 | 283.2 | 291.4 | 225.7 | 54.4 |
| Mar | 865.4 | 811.1 | 287.1 | 295.8 | 228.2 | 54.3 |
| Apr | 876.0 | 821.2 | 290.8 | 300.4 | 230.0 | 54.8 |
| May | 886.4 | 832.2 | 294.9 | 304.5 | 232.8 | 54.3 |
| June ..................................... | 896.5 | 842.3 | 298.9 | 308.3 | 235.1 | 54.2 |
| July ...................................... | 904.1 | 849.9 | 300.6 | 312.7 | 236.6 | 54.2 |
| Aug ........................................ | 917.1 | 863.5 | 304.3 | 319.7 | 239.5 | 53.6 |
| Sept ....................................... | 928.2 | 873.6 | 308.7 | 322.0 | 242.9 | 54.6 |
| Oct ...................................... | 941.7 | 882.2 | 311.2 | 324.7 | 246.4 | 59.5 |
| Nov ...................................... | 952.3 | 895.6 | 315.2 | 332.4 | 248.0 | 56.7 |
| Dec ...................................... | 961.1 | 902.9 | 317.2 | 334.5 | 251.1 | 58.3 |
| 1995:Jan | 973.1 | 914.4 | 319.3 | 340.2 | 254.9 | 58.7 |
| Feb ......................................... | 979.0 | 918.9 | 321.0 | 345.1 | 252.8 | 60.1 |
| Mar ...................................... | 994.6 | 933.0 | 323.3 | 351.5 | 258.2 | 61.6 |
| Apr ..................................... | 1,007.3 | 946.3 | 326.2 | 358.7 | 261.4 | 61.0 |
| May ..................................... | 1,020.3 | 959.1 | 328.0 | 366.1 | 265.0 | 61.2 |
| June .................................... | 1,032.3 | 970.6 | 330.7 | 372.3 | 267.5 | 61.7 |
| July ....................................... | 1,042.8 | 979.4 | 337.1 | 375.3 | 267.0 | 63.4 |
| Aug ...................................... | 1,052.9 | 989.7 | 339.8 | 379.7 | 270.3 | 63.2 |
| Sept ..................................... | 1,059.6 | 993.8 | 341.2 | 382.1 | 270.6 | 65.8 |
| Oct ........................................ | 1,068.7 | 1,005.2 | 344.7 | 387.2 | 273.3 | 63.5 |
| Nov ....................................... | 1,077.9 | 1,015.0 | 349.1 | 390.1 | 275.8 | 62.9 |
| $\operatorname{Dec} p$.................................... | 1,087.8 | 1,022.9 | 353.1 | 394.8 | 275.1 | 64.9 |

[^59]
## GOVERNMENT FINANCE

Table B-74.-Fedeal receipts, outlays, surplus or defiat, and debt, sedected fiscal yerrs, 1929-95
[Billions of dollars; fiscal years]

| Fiscal year or period | Total |  |  | On-budget |  |  | Off-budget |  |  | Gross Federal debt (end of period) |  | Addendum: Gross domestic product |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Sur |  |  | Surplus |  |  | Surpl |  |  |  |
|  | Receipts | Outlays | or deficit (-) | Receipts | Outlays | $\stackrel{\text { or }}{\text { deficit }}$ (-) | Receipts | Outlays | deficit (-) | Total | Held by the public |  |
| 1929 | 3.9 | 3.1 | 0.7 | 3.9 | 3.1 | 0.7 |  |  |  | ${ }^{1} 16.9$ |  |  |
| 1933 .... | 2.0 | 4.6 | -2.6 | 2.0 | 4.6 | -2.6 |  |  |  | ${ }^{1} 22.5$ |  | 56.8 |
| 1939 ..... | 6.3 | 9.1 | -2.8 | 5.8 | 9.2 | -3.4 | 0.5 | -0.0 | 0.5 | 48.2 | 41.4 | 87.8 |
| 1940. | 6.5 | 9.5 | -2.9 | 6.0 | 9.5 | -3.5 | . 6 | -. 0 | . 6 | 50.7 | 42.8 | 95.4 |
| 1941 ... | 8.7 | 13.7 | -4.9 | 8.0 | 13.6 | -5.6 | . 7 | . 0 | . 7 | 57.5 | 48.2 | 112.5 |
| 1942 ... | 14.6 | 35.1 | -20.5 | 13.7 | 35.1 | -21.3 | . 9 | . 1 | . 8 | 79.2 | 67.8 | 141.8 |
| 1943 ... | 24.0 | 78.6 | -54.6 | 22.9 | 78.5 | -55.6 | 1.1 | . 1 | 1.0 | 142.6 | 127.8 | 175.4 |
| 1944 ... | 43.7 | 91.3 | -47.6 | 42.5 | 91.2 | -48.7 | 1.3 | . 1 | 1.2 | 204.1 | 184.8 | 201.7 |
| 1945 ... | 45.2 | 92.7 | -47.6 | 43.8 | 92.6 | -48.7 | 1.3 | . 1 | 1.2 | 260.1 | 235.2 | 212.0 |
| 1946 ... | 39.3 | 55.2 | -15.9 | 38.1 | 55.0 | -17.0 | 1.2 | . 2 | 1.0 | 271.0 | 241.9 | 212.5 |
| 1947 ... | 38.5 | 34.5 | 4.0 | 37.1 | 34.2 | 2.9 | 1.5 | . 3 | 1.2 | 257.1 | 224.3 | 222.9 |
| 1948 .... | 41.6 | 29.8 | 11.8 | 39.9 | 29.4 | 10.5 | 1.6 | . 4 | 1.2 | 252.0 | 216.3 | 246.7 |
| 1949 .... | 39.4 | 38.8 | . 6 | 37.7 | 38.4 | -. 7 | 1.7 | . 4 | 1.3 | 252.6 | 214.3 | 262.7 |
| 1950. | 39.4 | 42.6 | -3.1 | 37.3 | 42.0 | -4.7 | 2.1 | . 5 | 1.6 | 256.9 | 219.0 | 265.8 |
| 1951. | 51.6 | 45.5 | 6.1 | 48.5 | 44.2 | 4.3 | 3.1 | 1.3 | 1.8 | 255.3 | 214.3 | 313.5 |
| 1952 .... | 66.2 | 67.7 | -1.5 | 62.6 | 66.0 | -3.4 | 3.6 | 1.7 | 1.9 | 259.1 | 214.8 | 340.5 |
| 1953 .... | 69.6 | 76.1 | -6.5 | 65.5 | 73.8 | -8.3 | 4.1 | 2.3 | 1.8 | 266.0 | 218.4 | 363.8 |
| 1954 ... | 69.7 | 70.9 | -1.2 | 65.1 | 67.9 | -2.8 | 4.6 | 2.9 | 1.7 | 270.8 | 224.5 | 368.0 |
| 1955 ... | 65.5 | 68.4 | -3.0 | 60.4 | 64.5 | -4.1 | 5.1 | 4.0 | 1.1 | 274.4 | 226.6 | 384.7 |
| 1956 .... | 74.6 | 70.6 | 3.9 | 68.2 | 65.7 | 2.5 | 6.4 | 5.0 | 1.5 | 272.7 | 222.2 | 416.3 |
| 1957 .... | 80.0 | 76.6 | 3.4 | 73.2 | 70.6 | 2.6 | 6.8 | 6.0 | . 8 | 272.3 | 219.3 | 438.3 |
| 1958 ........ | 79.6 | 82.4 | -2.8 | 71.6 | 74.9 | -3.3 | 8.0 | 7.5 | . 5 | 279.7 | 226.3 | 448.1 |
| 1959 ........ | 79.2 | 92.1 | -12.8 | 71.0 | 83.1 | -12.1 | 8.3 | 9.0 | -. 7 | 287.5 | 234.7 | 480.2 |
| 1960. | 92.5 | 92.2 | 3 | 81.9 | 81.3 | . 5 | 10.6 | 10.9 | -. 2 | 290.5 | 236.8 | 504.6 |
| 1961 ..... | 94.4 | 97.7 | -3.3 | 82.3 | 86.0 | -3.8 | 12.1 | 11.7 | . 4 | 292.6 | 238.4 | 517.0 |
| 1962 .... | 99.7 | 106.8 | -7.1 | 87.4 | 93.3 | -5.9 | 12.3 | 13.5 | -1.3 | 302.9 | 248.0 | 555.2 |
| 1963 ... | 106.6 | 111.3 | -4.8 | 92.4 | 96.4 | -4.0 | 14.2 | 15.0 | -. 8 | 310.3 | 254.0 | 584.5 |
| 1964. | 112.6 | 118.5 | -5.9 | 96.2 | 102.8 | -6.5 | 16.4 | 15.7 | . 6 | 316.1 | 256.8 | 625.3 |
| 1965 .. | 116.8 | 118.2 | -1.4 | 100.1 | 101.7 | -1.6 | 16.7 | 16.5 | . 2 | 322.3 | 260.8 | 671.0 |
| 1966 .. | 130.8 | 134.5 | -3.7 | 111.7 | 114.8 | -3.1 | 19.1 | 19.7 | -. 6 | 328.5 | 263.7 | 735.4 |
| 1967 .. | 148.8 | 157.5 | -8.6 | 124.4 | 137.0 | -12.6 | 24.4 | 20.4 | 4.0 | 340.4 | 266.6 | 793.3 |
| 1968 .... | 153.0 | 178.1 | -25.2 | 128.1 | 155.8 | -27.7 | 24.9 | 22.3 | 2.6 | 368.7 | 289.5 | 847.2 |
| 1969 ....... | 186.9 | 183.6 | 3.2 | 157.9 | 158.4 | -. 5 | 29.0 | 25.2 | 3.7 | 365.8 | 278.1 | 925.7 |
| 1970. | 192.8 | 195.6 | -2.8 | 159.3 | 168.0 | -8.7 | 33.5 | 27.6 | 5.9 | 380.9 | 283.2 | 985.4 |
| 1971 .. | 187.1 | 210.2 | -23.0 | 151.3 | 177.3 | -26.1 | 35.8 | 32.8 | 3.0 | 408.2 | 303.0 | 1,050.9 |
| 1972 .. | 207.3 | 230.7 | -23.4 | 167.4 | 193.8 | -26.4 | 39.9 | 36.9 | 3.1 | 435.9 | 322.4 | 1,147.8 |
| 1973 .. | 230.8 | 245.7 | -14.9 | 184.7 | 200.1 | -15.4 | 46.1 | 45.6 | . 5 | 466.3 | 340.9 | 1,274.0 |
| 1974 ... | 263.2 | 269.4 | -6.1 | 209.3 | 217.3 | -8.0 | 53.9 | 52.1 | 1.8 | 483.9 | 343.7 | 1,403.6 |
| 1975 .... | 279.1 | 332.3 | -53.2 | 216.6 | 271.9 | -55.3 | 62.5 | 60.4 | 2.0 | 541.9 | 394.7 | 1,509.8 |
| 1976 ........ | 298.1 | 371.8 | -73.7 | 231.7 | 302.2 | -70.5 | 66.4 | 69.6 | -3.2 | 629.0 | 477.4 | 1,684.2 |
| Transition quarter | 81.2 | 96.0 | -14.7 | 63.2 | 76.6 | -13.3 | 18.0 | 19.4 | -1.4 | 643.6 | 495.5 | 445.0 |
| 1977 ...... | 355.6 | 409.2 | -53.7 | 278.7 | 328.5 | -49.8 | 76.8 | 80.7 | -3.9 | 706.4 | 549.1 | 1,917.2 |
| 1978 ......... | 399.6 | 458.7 | -59.2 | 314.2 | 369.1 | -54.9 | 85.4 | 89.7 | -4.3 | 776.6 | 607.1 | 2,155.0 |
| 1979 ........ | 463.3 | 504.0 | -40.7 | 365.3 | 404.1 | -38.7 | 98.0 | 100.0 | -2.0 | 829.5 | 640.3 | 2,429.5 |
| 1980 ........ | 517.1 | 590.9 | -73.8 | 403.9 | 476.6 | -72.7 | 113.2 | 114.3 | -1.1 | 909.1 | 709.8 | 2,644.1 |
| 1981 ... | 599.3 | 678.2 | -79.0 | 469.1 | 543.1 | -74.0 | 130.2 | 135.2 | -5.0 | 994.8 | 785.3 | 2,964.4 |
| 1982 .... | 617.8 | 745.8 | -128.0 | 474.3 | 594.4 | -120.1 | 143.5 | 151.4 | -7.9 | 1,137.3 | 919.8 | 3,122.2 |
| 1983 .... | 600.6 | 808.4 | -207.8 | 453.2 | 661.3 | -208.0 | 147.3 | 147.1 | . 2 | 1,371.7 | 1,131.6 | 3,316.5 |
| 1984 .. | 666.5 | 851.8 | -185.4 | 500.4 | 686.0 | -185.7 | 166.1 | 165.8 | . 3 | 1,564.7 | 1,300.5 | 3,695.0 |
| 1985. | 734.1 | 946.4 | -212.3 | 547.9 | 769.6 | -221.7 | 186.2 | 176.8 | 9.4 | 1,817.5 | 1,499.9 | 3,967.7 |
| 1986. | 769.1 | 990.3 | -221.2 | 568.9 | 806.8 | -238.0 | 200.2 | 183.5 | 16.7 | 2,120.6 | 1,736.7 | 4,219.0 |
| 1987 .. | 854.1 | 1,003.9 | -149.8 | 640.7 | 810.1 | -169.3 | 213.4 | 193.8 | 19.6 | 2,346.1 | 1,888.7 | 4,452.4 |
| 1988 ... | 909.0 | 1,064.1 | -155.2 | 667.5 | 861.4 | -194.0 | 241.5 | 202.7 | 38.8 | 2,601.3 | 2,050.8 | 4,808.4 |
| 1989 .... | 990.7 | 1,143.2 | -152.5 | 727.0 | 932.3 | -205.2 | 263.7 | 210.9 | 52.8 | 2,868.0 | 2,189.9 | 5,173.3 |
| 1990 ... | 1,031.3 | 1,252.7 | -221.4 | 749.7 | 1,027.6 | -278.0 | 281.7 | 225.1 | 56.6 | 3,206.6 | 2,410.7 | 5,481.5 |
| 1991 ... | 1,054.3 | 1,323.4 | -269.2 | 760.4 | 1,081.8 | -321.4 | 293.9 | 241.7 | 52.2 | 3,598.5 | 2,688.1 | 5,676.4 |
| 1992 ... | 1,090.5 | 1,380.9 | -290.4 | 788.0 | 1,128.5 | -340.5 | 302.4 | 252.3 | 50.1 | 4,002.1 | 2,998.8 | 5,921.5 |
| 1993. | 1,153.5 | 1,408.7 | -255.1 | 841.6 | 1,142.1 | -300.5 | 311.9 | 266.6 | 45.3 | 4,351.4 | 3,247.5 | 6,258.6 |
| 1994 | 1,257.7 | 1,460.9 | -203.2 | 922.7 | 1,181.5 | -258.8 | 335.0 | 279.4 | 55.7 | 4,643.7 | 3,432.2 | 6,633.6 |
| $1995{ }^{2}$...... | 1,350.6 | 1,514.4 | -163.8 | 999.5 | 1,225.7 | -226.2 | 351.1 | 288.7 | 62.4 | 4,921.0 | 3,603.3 | 7,004.5 |

[^60]Sources: Department of Commerce (Bureau of Economic Analysis), Department of the Treasury, and Office of Management and Budget.

Table B-75.-F ederal budget receipts, outlays, surplus or deficit, and debt, as percent of gross domestic product, 1934-95
[Percent; fiscal years]

| Fiscal year or period | Receipts | Outlays |  | Surplus or deficit (-) | Gross Federal debt (end of period) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | National defense |  |  |  |
|  |  |  |  |  | Total | Held by public |
| 1934 .......................................... | 4.9 | 10.8 | ....................... | -5.9 | ....................... |  |
| 1935 ............................................ | 5.3 | 9.3 | ....................... | -4.1 | ............ | ....................... |
| 1936 ........................................... | 5.1 | 10.6 | ...... | -5.6 | .................... |  |
| 1937 ........................................... | 6.2 | 8.7 | ....... | -2.5 | .................... |  |
| 1938 .......................................... | 7.7 | 7.8 | ...................... | -. 1 |  |  |
| 1939 ........................................... | 7.2 | 10.4 | ..................... | -3.2 | 54.9 | 47.2 |
| 1940 ............................................ | 6.9 | 9.9 | 1.7 | -3.1 | 53.1 | 44.8 |
| 1941 ........................................... | 7.7 | 12.1 | 5.7 | -4.4 | 51.1 | 42.9 |
| 1942 ........................................... | 10.3 | 24.8 | 18.1 | -14.5 | 55.9 | 47.8 |
| 1943 ......................................... | 13.7 | 44.8 | 38.0 | -31.1 | 81.3 | 72.8 |
| 1944 ......................................... | 21.7 | 45.3 | 39.2 | -23.6 | 101.2 | 91.6 |
| 1945 ... | 21.3 | 43.7 | 39.1 | -22.4 | 122.7 | 110.9 |
| 1946 | 18.5 | 26.0 | 20.1 | -7.5 | 127.5 | 113.8 |
| 1947 | 17.3 | 15.5 | 5.7 | 1.8 | 115.4 | 100.6 |
| 1948 | 16.8 | 12.1 | 3.7 | 4.8 | 102.2 | 87.7 |
| 1949 ............................................ | 15.0 | 14.8 | 5.0 | . 2 | 96.2 | 81.6 |
| 1950 ........................................... | 14.8 | 16.0 | 5.2 | -1.2 | 96.6 | 82.4 |
| 1951 ........................................................................... | 16.5 | 14.5 | 7.5 | 1.9 | 81.4 | 68.4 |
| 1952 ........................................... | 19.4 | 19.9 | 13.5 | -. 4 | 76.1 | 63.1 |
| 1953 ............................................ | 19.1 | 20.9 | 14.5 | -1.8 | 73.1 | 60.0 |
| 1954 .. | 18.9 | 19.3 | 13.4 | -. 3 | 73.6 | 61.0 |
| 1955 | 17.0 | 17.8 | 11.1 | -. 8 | 71.3 | 58.9 |
| 1956 | 17.9 | 17.0 | 10.2 | . 9 | 65.5 | 53.4 |
| 1957 .............................................. | 18.3 | 17.5 | 10.4 | . 8 | 62.1 | 50.0 |
| 1958 .............................................. | 17.8 | 18.4 | 10.4 | -. 6 | 62.4 | 50.5 |
| 1959 .............................................. | 16.5 | 19.2 | 10.2 | -2.7 | 59.9 | 48.9 |
| 1960 ......................................... | 18.3 | 18.3 | 9.5 | . 1 | 57.6 | 46.9 |
| 1961 .. | 18.3 | 18.9 | 9.6 | -. 6 | 56.6 | 46.1 |
| 1962 ... | 18.0 | 19.2 | 9.4 | -1.3 | 54.6 | 44.7 |
| 1963 ............................................ | 18.2 | 19.0 | 9.1 | -.8 | 53.1 | 43.5 |
| 1964 ... | 18.0 | 19.0 | 8.8 | -. 9 | 50.5 | 41.1 |
| 1965 ... | 17.4 | 17.6 | 7.5 | -. 2 | 48.0 | 38.9 |
| 1966 | 17.8 | 18.3 | 7.9 | -. 5 | 44.7 | 35.9 |
| 1967 | 18.8 | 19.8 | 9.0 | -1.1 | 42.9 | 33.6 |
| 1968 | 18.1 | 21.0 | 9.7 | -3.0 | 43.5 | 34.2 |
| 1969 | 20.2 | 19.8 | 8.9 | . 4 | 39.5 | 30.0 |
| 1970 | 19.6 | 19.9 | 8.3 | -. 3 | 38.7 | 28.7 |
| $1971 \text {....... }$ | 17.8 | 20.0 | 7.5 | -2.2 | 38.8 | 28.8 |
| $1972$ | 18.1 | 20.1 | 6.9 | -2.0 | 38.0 | 28.1 |
| 1973 | 18.1 | 19.3 | 6.0 | -1.2 | 36.6 | 26.8 |
| 1974 .......................................... | 18.8 | 19.2 | 5.7 | -. 4 | 34.5 | 24.5 |
| 1975 .......................................... | 18.5 | 22.0 | 5.7 | -3.5 | 35.9 | 26.1 |
| 1976 ............................................ | 17.7 | 22.1 | 5.3 | -4.4 | 37.3 | 28.3 |
| Transition quarter .......................... | 18.3 | 21.6 | 5.0 | -3.3 | 36.2 | 27.8 |
| 1977 ............................................ | 18.5 | 21.3 | 5.1 | -2.8 | 36.8 | 28.6 |
| 1978 .............................................. | 18.5 | 21.3 | 4.8 | -2.7 | 36.0 | 28.2 |
| 1979 .............................................. | 19.1 | 20.7 | 4.8 | -1.7 | 34.1 | 26.4 |
| 1980 ........................................... | 19.6 | 22.3 | 5.1 | -2.8 | 34.4 | 26.8 |
| 1981 .. | 20.2 | 22.9 | 5.3 | -2.7 | 33.6 | 26.5 |
| 1982 | 19.8 | 23.9 | 5.9 | -4.1 | 36.4 | 29.5 |
| 1983 | 18.1 | 24.4 | 6.3 | -6.3 | 41.4 | 34.1 |
| 1984 | 18.0 | 23.1 | 6.2 | -5.0 | 42.3 | 35.2 |
| 1985 | 18.5 | 23.9 | 6.4 | -5.4 | 45.8 | 37.8 |
| 1986 | 18.2 | 23.5 | 6.5 | -5.2 | 50.3 | 41.2 |
| 1987 | 19.2 | 22.5 | 6.3 | -3.4 | 52.7 | 42.4 |
| 1988 .............................................. | 18.9 | 22.1 | 6.0 | -3.2 | 54.1 | 42.7 |
| 1989 ......................................... | 19.2 | 22.1 | 5.9 | -2.9 | 55.4 | 42.3 |
| 1990 | 18.8 | 22.9 | 5.5 | -4.0 | 58.5 | 44.0 |
| 1991 | 18.6 | 23.3 | 4.8 | -4.7 | 63.4 | 47.4 |
| 1992 | 18.4 | 23.3 | 5.0 | -4.9 | 67.6 | 50.6 |
| 1993 ............................................................................. | 18.4 | 22.5 | 4.7 | -4.1 | 69.5 | 51.9 |
| 1994 ............................................ | 19.0 | 22.0 | 4.2 | -3.1 | 70.0 | 51.7 |
| 19951 .......................................... | 19.3 | 21.6 | 3.9 | -2.3 | 70.3 | 51.4 |

${ }^{1}$ Estimates.
Note.- Data shown in this table are from Budget of the United States Government, Fiscal Year 1996, February 1995, except as noted in footnote 2, Table B-74.

See also Note, Table B-74.
Sources: Department of the Treasury and Office of Management and Budget.

TAbLe B-76. - Federal receipts and outlays, by major category, and surplus or deficit, 1940-95
[Billions of dollars; fiscal years]

| Fiscal year or period | Receipts (on-budget and off-budget) |  |  |  |  | Outlays (on-budget and off-budget) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Individual income taxes | Corporation income taxes | Social <br> insur- <br> ance <br> taxes <br> and <br> con- <br> tri- <br> bu- <br> tions | Other | Total | National defense |  | Inter-na-tional affairs | Health | Medicare | Income security | Social security | Net interest | Other |  |
|  |  |  |  |  |  |  | Total | Department of Defense, military |  |  |  |  |  |  |  |  |
| 1940 | 6.5 | 0.9 | 1.2 | 1.8 | 2.7 | 9.5 | 1.7 |  | 0.1 | 0.1 |  | 1.5 | 0.0 | 0.9 | 5.3 | -2.9 |
| 1941 .. | 8.7 | 1.3 | 2.1 | 1.9 | 3.3 | 13.7 | 6.4 |  | . 1 | 1 |  | 1.9 | 1 | . 9 | 4.1 | -4.9 |
| 1942 ... | 14.6 | 3.3 | 4.7 | 2.5 | 4.2 | 35.1 | 25.7 |  | 1.0 | 1 |  | 1.8 | 1 | 1.1 | 5.4 | -20.5 |
| 1943 .. | 24.0 | 6.5 | 9.6 | 3.0 | 4.9 | 78.6 | 66.7 |  | 1.3 | 1 |  | 1.7 | . 2 | 1.5 | 7.0 | -54.6 |
| 1944 .. | 43.7 | 19.7 | 14.8 | 3.5 | 5.7 | 91.3 | 79.1 |  | 1.4 | 2 |  | 1.5 | . 2 | 2.2 | 6.6 | -47.6 |
| 1945 .. | 45.2 | 18.4 | 16.0 | 3.5 | 7.3 | 92.7 | 83.0 |  | 1.9 | 2 |  | 1.1 | . 3 | 3.1 | 3.1 | -47.6 |
| 1946 .. | 39.3 | 16.1 | 11.9 | 3.1 | 8.2 | 55.2 | 42.7 |  | 1.9 | 2 |  | 2.4 | . 4 | 4.1 | 3.6 | -15.9 |
| 1947 | 38.5 | 17.9 | 8.6 | 3.4 | 8.5 | 34.5 | 12.8 |  | 5.8 | 2 |  | 2.8 | . 5 | 4.2 | 8.2 | 4.0 |
| 1948 | 41.6 | 19.3 | 9.7 | 3.8 | 8.8 | 29.8 | 9.1 |  | 4.6 | 2 |  | 2.5 | . 6 | 4.3 | 8.5 | 11.8 |
| 1949 .. | 39.4 | 15.6 | 11.2 | 3.8 | 8.9 | 38.8 | 13.2 |  | 6.1 | 2 |  | 3.2 | . 7 | 4.5 | 11.1 | . 6 |
| 1950 | 39.4 | 15.8 | 10.4 | 4.3 | 8.9 | 42.6 | 13.7 |  | 4.7 | . 3 |  | 4.1 | . 8 | 4.8 | 14.2 | -3.1 |
| 1951. | 51.6 | 21.6 | 14.1 | 5.7 | 10.2 | 45.5 | 23.6 |  | 3.6 | 3 |  | 3.4 | 1.6 | 4.7 | 8.4 | 6.1 |
| 1952 ............. | 66.2 | 27.9 | 21.2 | 6.4 | 10.6 | 67.7 | 46.1 |  | 2.7 | 3 |  | 3.7 | 2.1 | 4.7 | 8.1 | -1.5 |
| 1953 .. | 69.6 | 29.8 | 21.2 | 6.8 | 11.7 | 76.1 | 52.8 |  | 2.1 | 3 |  | 3.8 | 2.7 | 5.2 | 9.1 | -6.5 |
| 1954. | 69.7 | 29.5 | 21.1 | 7.2 | 11.9 | 70.9 | 49.3 |  | 1.6 | . 3 |  | 4.4 | 3.4 | 4.8 | 7.1 | -1.2 |
| 1955. | 65.5 | 28.7 | 17.9 | 7.9 | 11.0 | 68.4 | 42.7 |  | 2.2 | . 3 |  | 5.1 | 4.4 | 4.9 | 8.9 | -3.0 |
| 1956. | 74.6 | 32.2 | 20.9 | 9.3 | 12.2 | 70.6 | 42.5 |  | 2.4 | 4 |  | 4.7 | 5.5 | 5.1 | 10.1 | 3.9 |
| 1957 | 80.0 | 35.6 | 21.2 | 10.0 | 13.2 | 76.6 | 45.4 |  | 3.1 | . 5 |  | 5.4 | 6.7 | 5.4 | 10.1 | 3.4 |
| 1958 . | 79.6 | 34.7 | 20.1 | 11.2 | 13.6 | 82.4 | 46.8 |  | 3.4 | . 5 |  | 7.5 | 8.2 | 5.6 | 10.3 | -2.8 |
| 1959 ............. | 79.2 | 36.7 | 17.3 | 11.7 | 13.5 | 92.1 | 49.0 |  | 3.1 | . 7 |  | 8.2 | 9.7 | 5.8 | 15.5 | -12.8 |
| 1960 .. | 92.5 | 40.7 | 21.5 | 14.7 | 15.6 | 92.2 | 48.1 |  | 3.0 | . 8 |  | 7.4 | 11.6 | 6.9 | 14.4 | . 3 |
| 1961. | 94.4 | 41.3 | 21.0 | 16.4 | 15.7 | 97.7 | 49.6 |  | 3.2 | . 9 |  | 9.7 | 12.5 | 6.7 | 15.2 | -3.3 |
| 1962 .. | 99.7 | 45.6 | 20.5 | 17.0 | 16.5 | 106.8 | 52.3 | 50.1 | 5.6 | 1.2 |  | 9.2 | 14.4 | 6.9 | 17.2 | -7.1 |
| 1963 .. | 106.6 | 47.6 | 21.6 | 19.8 | 17.6 | 111.3 | 53.4 | 51.1 | 5.3 | 1.5 |  | 9.3 | 15.8 | 7.7 | 18.3 | -4.8 |
| 1964 .. | 112.6 | 48.7 | 23.5 | 22.0 | 18.5 | 118.5 | 54.8 | 52.6 | 4.9 | 1.8 |  | 9.7 | 16.6 | 8.2 | 22.6 | -5.9 |
| 1965 .. | 116.8 | 48.8 | 25.5 | 22.2 | 20.3 | 118.2 | 50.6 | 48.8 | 5.3 | 1.8 |  | 9.5 | 17.5 | 8.6 | 25.0 | -1.4 |
| 1966 .. | 130.8 | 55.4 | 30.1 | 25.5 | 19.8 | 134.5 | 58.1 | 56.6 | 5.6 | 2.5 | 0.1 | 9.7 | 20.7 | 9.4 | 28.5 | -3.7 |
| 1967 .. | 148.8 | 61.5 | 34.0 | 32.6 | 20.7 | 157.5 | 71.4 | 70.1 | 5.6 | 3.4 | 2.7 | 10.3 | 21.7 | 10.3 | 32.1 | -8.6 |
| 1968 ............. | 153.0 | 68.7 | 28.7 | 33.9 | 21.7 | 178.1 | 81.9 | 80.4 | 5.3 | 4.4 | 4.6 | 11.8 | 23.9 | 11.1 | 35.1 | -25.2 |
| 1969 .. | 186.9 | 87.2 | 36.7 | 39.0 | 23.9 | 183.6 | 82.5 | 80.8 | 4.6 | 5.2 | 5.7 | 13.1 | 27.3 | 12.7 | 32.6 | 3.2 |
| 1970 .. | 192.8 | 90.4 | 32.8 | 44.4 | 25.2 | 195.6 | 81.7 | 80.1 | 4.3 | 5.9 | 6.2 | 15.6 | 30.3 | 14.4 | 37.2 | -2.8 |
| 1971 ... | 187.1 | 86.2 | 26.8 | 47.3 | 26.8 | 210.2 | 78.9 | 77.5 | 4.2 | 6.8 | 6.6 | 22.9 | 35.9 | 14.8 | 40.0 | -23.0 |
| 1972 ... | 207.3 | 94.7 | 32.2 | 52.6 | 27.8 | 230.7 | 79.2 | 77.6 | 4.8 | 8.7 | 7.5 | 27.6 | 40.2 | 15.5 | 47.3 | -23.4 |
| 1973 ... | 230.8 | 103.2 | 36.2 | 63.1 | 28.3 | 245.7 | 76.7 | 75.0 | 4.1 | 9.4 | 8.1 | 28.3 | 49.1 | 17.3 | 52.8 | -14.9 |
| 1974 ............. | 263.2 | 119.0 | 38.6 | 75.1 | 30.6 | 269.4 | 79.3 | 77.9 | 5.7 | 10.7 | 9.6 | 33.7 | 55.9 | 21.4 | 52.9 | -6.1 |
| 1975 ............. | 279.1 | 122.4 | 40.6 | 84.5 | 31.5 | 332.3 | 86.5 | 84.9 | 7.1 | 12.9 | 12.9 | 50.2 | 64.7 | 23.2 | 74.9 | -53.2 |
| 1976 ............. | 298.1 | 131.6 | 41.4 | 90.8 | 34.3 | 371.8 | 89.6 | 87.9 | 6.4 | 15.7 | 15.8 | 60.8 | 73.9 | 26.7 | 82.8 | -73.7 |
| Transition |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| quarter ...... | 81.2 | 38.8 | 8.5 | 25.2 | 8.8 | 96.0 | 22.3 | 21.8 | 2.5 | 3.9 | 4.3 | 15.0 | 19.8 | 6.9 | 21.4 | -14.7 |
| 1977 .... | 355.6 | 157.6 | 54.9 | 106.5 | 36.6 | 409.2 | 97.2 | 95.1 | 6.4 | 17.3 | 19.3 | 61.0 | 85.1 | 29.9 | 93.0 | -53.7 |
| 1978 ............. | 399.6 | 181.0 | 60.0 | 121.0 | 37.7 | 458.7 | 104.5 | 102.3 | 7.5 | 18.5 | 22.8 | 61.5 | 93.9 | 35.5 | 114.7 | -59.2 |
| 1979 ............. | 463.3 | 217.8 | 65.7 | 138.9 | 40.8 | 504.0 | 116.3 | 113.6 | 7.5 | 20.5 | 26.5 | 66.4 | 104.1 | 42.6 | 120.2 | -40.7 |
| 1980 .. | 517.1 | 244.1 | 64.6 | 157.8 | 50.6 | 590.9 | 134.0 | 130.9 | 12.7 | 23.2 | 32.1 | 86.5 | 118.5 | 52.5 | 131.4 | -73.8 |
| 1981 .............. | 599.3 | 285.9 | 61.1 | 182.7 | 69.5 | 678.2 | 157.5 | 153.9 | 13.1 | 26.9 | 39.1 | 99.7 | 139.6 | 68.8 | 133.5 | -79.0 |
| 1982 .............. | 617.8 | 297.7 | 49.2 | 201.5 | 69.3 | 745.8 | 185.3 | 180.7 | 12.3 | 27.4 | 46.6 | 107.7 | 156.0 | 85.0 | 125.4 | -128.0 |
| 1983 ............. | 600.6 | 288.9 | 37.0 | 209.0 | 65.6 | 808.4 | 209.9 | 204.4 | 11.8 | 28.6 | 52.6 | 122.6 | 170.7 | 89.8 | 122.3 | -207.8 |
| 1984 ... | 666.5 | 298.4 | 56.9 | 239.4 | 71.8 | 851.8 | 227.4 | 220.9 | 15.9 | 30.4 | 57.5 | 112.7 | 178.2 | 111.1 | 118.6 | -185.4 |
| 1985 .. | 734.1 | 334.5 | 61.3 | 265.2 | 73.0 | 946.4 | 252.7 | 245.2 | 16.2 | 33.5 | 65.8 | 128.2 | 188.6 | 129.5 | 131.8 | -212.3 |
| 1986 | 769.1 | 349.0 | 63.1 | 283.9 | 73.1 | 990.3 | 273.4 | 265.5 | 14.2 | 35.9 | 70.2 | 119.8 | 198.8 | 136.0 | 142.1 | -221.2 |
| 1987 .. | 854.1 | 392.6 | 83.9 | 303.3 | 74.3 | 1,003.9 | 282.0 | 274.0 | 11.6 | 40.0 | 75.1 | 123.3 | 207.4 | 138.7 | 125.9 | -149.8 |
| 1988 ............. | 909.0 | 401.2 | 94.5 | 334.3 | 78.9 | 1,064.1 | 290.4 | 281.9 | 10.5 | 44.5 | 78.9 | 129.3 | 219.3 | 151.8 | 139.4 | -155.2 |
| 1989 ..... | 990.7 | 445.7 | 103.3 | 359.4 | 82.3 | 1,143.2 | 303.6 | 294.9 | 9.6 | 48.4 | 85.0 | 136.0 | 232.5 | 169.3 | 158.8 | -152.5 |
| 1990 | 1,031.3 | 466.9 | 93.5 | 380.0 | 90.9 | 1,252.7 | 299.3 | 289.8 | 13.8 | 57.7 | 98.1 | 147.0 | 248.6 | 184.2 | 203.9 | -221.4 |
| 1991. | 1,054.3 | 467.8 | 98.1 | 396.0 | 92.3 | 1,323.4 | 273.3 | 262.4 | 15.9 | 71.2 | 104.5 | 170.3 | 269.0 | 194.5 | 224.8 | -269.2 |
| 1992. | 1,090.5 | 476.0 | 100.3 | 413.7 | 100.5 | 1,380.9 | 298.4 | 286.9 | 16.1 | 89.5 | 119.0 | 196.9 | 287.6 | 199.4 | 173.9 | -290.4 |
| 1993. | 1,153.5 | 509.7 | 117.5 | 428.3 | 98.0 | 1,408.7 | 291.1 | 278.6 | 17.2 | 99.4 | 130.6 | 207.3 | 304.6 | 198.8 | 159.7 | -255.1 |
| 1994 | 1,257.7 | 543.1 | 140.4 | 461.5 | 112.8 | 1,460.9 | 281.6 | 268.6 | 17.1 | 107.1 | 144.7 | 214.0 | 319.6 | 203.0 | 173.8 | -203.2 |
| $1995{ }^{1}$......... | 1,350.6 | 590.2 | 157.1 | 484.5 | 118.9 | 1,514.4 | 272.2 | 259.6 | 16.4 | 114.8 | 159.9 | 220.2 | 335.8 | 232.2 | 162.9 | -163.8 |

${ }^{1}$ Estimates.
Note. - Through fiscal year 1976, the fiscal year was on a July 1-June 30 basis; beginning October 1976 (fiscal year 1977), the fiscal year is on an October 1 -September 30 basis. The 3-month period from July 1, 1976 through September 30, 1976 is a separate fiscal period known as the transition quarter.

Refunds of receipts are excluded from receipts and outlays.
Data shown in this table are from Budget of the United States Government, Fiscal Year 1996, February 1995, except 1995 data are from Final Monthly Treasury Statement, October 1995.

Sources: Department of the Treasury and Office of Management and Budget.

Table B-77.-F ederal receipts, outlays, and debt, fiscal years 1989-95
[Millions of dollars; fiscal years]

| Description | Actual |  |  |  |  |  | Estimates1995 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |  |
| RECEIPTS AND OUTLAYS: |  |  |  |  |  |  |  |
| Total receipts | 990,691 | 1,031,321 | 1,054,272 | 1,090,453 | 1,153,535 | 1,257,745 | 1,350,576 |
| Total outlays. | 1,143,172 | 1,252,705 | 1,323,441 | 1,380,856 | 1,408,675 | 1,460,914 | 1,514,389 |
| Total surplus or deficit (-) ... | -152,481 | -221,384 | -269,169 | -290,403 | -255,140 | -203,169 | -163,813 |
| On-budget receipts | 727,026 | 749,666 | 760,388 | 788,027 | 841,601 | 922,719 | 999,496 |
| On-budget outlays ........................................ | 932,261 | 1,027,640 | 1,081,754 | 1,128,518 | 1,142,088 | 1,181,542 | 1,225,724 |
| On-budget surplus or deficit (-) ... | -205,235 | -277,974 | -321,367 | -340,490 | -300,487 | -258,823 | -226,228 |
| Off-budget receipts <br> Off-budget outlays | $\begin{aligned} & 263,666 \\ & 210,911 \end{aligned}$ | $\begin{aligned} & 281,656 \\ & 225,065 \end{aligned}$ | $\begin{aligned} & 293,885 \\ & 241,687 \end{aligned}$ | $\begin{aligned} & 302,426 \\ & 252,339 \end{aligned}$ | $\begin{aligned} & 311,934 \\ & 266,587 \end{aligned}$ | $\begin{aligned} & 335,026 \\ & 279,372 \end{aligned}$ | $\begin{aligned} & 351,080 \\ & 288,665 \end{aligned}$ |
| Off-budget surplus or deficit (-) | 52,754 | 56,590 | 52,198 | 50,087 | 45,347 | 55,654 | 62,415 |
| OUTSTANDING DEBT, END OF PERIOD: Gross Federal debt | 2,868,039 | 3,206,564 | 3,598,498 | 4,002,136 | 4,351,416 | 4,643,711 | 4,920,950 |
| Held by Government accounts $\qquad$ Held by the public $\qquad$ | $\begin{array}{r} 678,157 \\ 2,189,882 \end{array}$ | $\begin{array}{r} 795,841 \\ 2,410,722 \end{array}$ | $\begin{array}{r} 910,362 \\ 2,688,137 \end{array}$ | $\begin{array}{r} 1,003,302 \\ 2,998,834 \end{array}$ | $\begin{array}{r} 1,103,945 \\ 3,247,471 \end{array}$ | $\begin{aligned} & 1,211,498 \\ & 3,432,213 \end{aligned}$ | $\begin{array}{r} 1,317,612 \\ 3,603,338 \end{array}$ |
| Federal Reserve System $\qquad$ Other $\qquad$ | $\begin{array}{r} 220,088 \\ 1,969,795 \end{array}$ | $\begin{array}{r} 234,410 \\ 2,176,312 \end{array}$ | $\begin{array}{r} 258,591 \\ 2,429,546 \end{array}$ | $\begin{array}{r} 296,397 \\ 2,702,437 \end{array}$ | $\begin{array}{r} 325,653 \\ 2,921,818 \end{array}$ | $\begin{array}{r} 355,150 \\ 3,077,063 \end{array}$ |  |
| RECEIPTS: ON-BUDGET AND OFF-BUDGET | 990,691 | 1,031,321 | 1,054,272 | 1,090,453 | 1,153,535 | 1,257,745 | 1,350,576 |
| Individual income taxes | 445,690 | 466,884 | 467,827 | 475,964 | 509,680 | 543,055 | 590,157 |
| Corporation income taxes | 103,291 | 93,507 | 98,086 | 100,270 | 117,520 | 140,385 | 157,088 |
| Social insurance taxes and contributions ........ | 359,416 | 380,047 | 396,016 | 413,689 | 428,300 | 461,475 | 484,474 |
| On-budget <br> Off-budget | $\begin{array}{r} 95,751 \\ 263,666 \end{array}$ | $\begin{array}{r} 98,392 \\ 281,656 \end{array}$ | $\begin{aligned} & 102,131 \\ & 293,885 \end{aligned}$ | 111,263 302,426 | 116,366 311,934 | $\begin{aligned} & 126,450 \\ & 335,026 \end{aligned}$ |  |
| Excise taxes | 34,386 | 35,345 | 42,402 | 45,569 | 48,057 | 55,225 | 57,485 |
| Estate and gift taxes | 8,745 | 11,500 | 11,138 | 11,143 | 12,577 | 15,225 | 14,764 |
| Customs duties and fees | 16,334 | 16,707 | 15,949 | 17,359 | 18,802 | 20,099 | 19,300 |
| Miscellaneous receipts $\qquad$ Deposits of earnings by Federal | 22,829 | 27,330 | 22,854 | 26,458 | 18,599 | 22,282 | 27,306 |
| Resits of earnings by Federal <br> Reserve System | 19,604 | 24,319 | 19,158 | 22,920 | 14,908 | 18,023 |  |
| All other ............................................. | 3,225 | 3,011 | 3,696 | 3,538 | 3,691 | 4,259 |  |
| OUTLAYS: ON-BUDGET AND OFF-BUDGET | 1,143,172 | 1,252,705 | 1,323,441 | 1,380,856 | 1,408,675 | 1,460,914 | 1,514,389 |
| National defense | 303,559 | 299,331 | 273,292 | 298,350 | 291,086 | 281,563 | 272,179 |
| International affairs | 9,573 | 13,764 | 15,851 | 16,107 | 17,248 | 17,083 | 16,448 |
| General science, space, and technology .......... | 12,838 | 14,444 | 16,111 | 16,409 | 17,030 | 16,227 | 17,563 |
| Energy .............................................. | 2,706 | 3,341 | 2,436 | 4,500 | 4,319 | 5,219 | 5,146 |
| Natural resources and environment | 16,182 | 17,080 | 18,559 | 20,025 | 20,239 | 21,064 | 23,328 |
| Agriculture ......................... | 16,919 | 11,958 | 15,183 | 15,205 | 20,490 | 15,121 | 9,763 |
| Commerce and housing credit ....................... | 29,211 | 67,142 | 75,312 | 10,093 | -22,719 | -5,122 | -18,740 |
| On-budget | 29,520 | 65,516 | 73,994 | 9,434 | -24,160 | -6,225 |  |
| Off-budget | -310 | 1,626 | 1,317 | 659 | 1,441 | 1,103 |  |
| Transportation | 27,608 | 29,485 | 31,099 | 33,333 | 35,004 | 38,134 | 38,555 |
| Community and regional development | 5,362 | 8,498 | 6,811 | 6,838 | 9,052 | 10,454 | 11,000 |
| Education, training, employment, and social services $\qquad$ | 36,674 | 38,755 | 43,354 | 45,248 | 50,012 | 46,307 | 52,706 |
| Health | 48,390 | 57,716 | 71,183 | 89,497 | 99,415 | 107,122 | 114,760 |
| Medicare | 84,964 | 98,102 | 104,489 | 119,024 | 130,552 | 144,747 | 159,854 |
| Income security | 136,031 | 147,022 | 170,276 | 196,948 | 207,250 | 214,036 | 220,214 |
| Social security ........................................... | 232,542 | 248,623 | 269,015 | 287,585 | 304,585 | 319,565 | 335,847 |
| On-budget | 5,069 | 3,625 | 2,619 | 6,166 | 6,236 | 5,683 |  |
| Off-budget ......................................... | 227,473 | 244,998 | 266,395 | 281,418 | 298,349 | 313,881 |  |
| Veterans benefits and services ..................... | 30,066 | 29,112 | 31,349 | 34,138 | 35,720 | 37,642 | 37,935 |
| Administration of justice ..... | 9,474 | 9,993 | 12,276 | 14,426 | 14,955 | 15,256 | 16,255 |
| General government .................................... | 9,017 | 10,734 | 11,661 | 12,990 | 13,009 | 11,312 | 13,856 |
| Net interest ............................................... | 169,266 | 184,221 | 194,541 | 199,421 | 198,811 | 202,957 | 232,175 |
| On-budget | 180,661 | 200,212 | 214,763 | 223,059 | 225,599 | 232,160 |  |
| Off-budget ......................................... | -11,395 | -15,991 | -20,222 | -23,637 | -26,788 | -29,203 |  |
| Undistributed offsetting receipts ................... | -37,212 | -36,615 | -39,356 | -39,280 | -37,386 | -37,772 | -44,455 |
| On-budget <br> Off-budget | $\begin{array}{r} -32,354 \\ -4,858 \end{array}$ | $\begin{array}{r} -31,048 \\ -5,567 \end{array}$ | $\begin{array}{r} -33,553 \\ -5,804 \end{array}$ | $\begin{array}{r} -33,179 \\ -6,101 \end{array}$ | $\begin{array}{r} -30,970 \\ -6,416 \end{array}$ | $\begin{array}{r} -31,362 \\ -6,409 \end{array}$ |  |

[^61]Table B-78.-Federal and State and local government receipts and current expenditures, national income and product accounts (NIPA), 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Total government |  |  | Federal Government |  |  | State and local government |  |  | Addendum: <br> Grants- <br> in-aid to State and local governments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Receipts | Current expenditures | Current surplus or deficit (-) (NIPA) | Receipts | Current expenditures | Current surplus or deficit (-) (NIPA) | Receipts | Current expenditures | Current surplus or deficit (-) (NIPA) |  |
| 1959 | 128.8 | 116.6 | 12.2 | 90.6 | 88.0 | 2.6 | 45.0 | 35.4 | 9.6 | 6.8 |
| 1960 | 138.8 | 121.5 | 17.3 | 97.0 | 89.6 | 7.4 | 48.3 | 38.4 | 9.9 | 6.5 |
| 1961 | 144.1 | 130.8 | 13.3 | 99.0 | 96.1 | 2.9 | 52.4 | 42.0 | 10.4 | 7.2 |
| 1962 | 155.8 | 141.3 | 14.5 | 107.2 | 104.4 | 2.8 | 56.6 | 44.8 | 11.7 | 8.0 |
| 1963 | 167.5 | 149.1 | 18.4 | 115.5 | 110.2 | 5.4 | 61.1 | 48.1 | 13.0 | 9.1 |
| 1964 | 172.9 | 157.3 | 15.6 | 116.2 | 115.4 | . 9 | 67.1 | 52.4 | 14.7 | 10.4 |
| 1965 | 187.0 | 168.6 | 18.5 | 125.8 | 122.4 | 3.4 | 72.3 | 57.2 | 15.1 | 11.1 |
| 1966 | 210.7 | 190.8 | 19.9 | 143.5 | 140.9 | 2.6 | 81.5 | 64.3 | 17.3 | 14.4 |
| 1967 | 226.4 | 217.5 | 8.9 | 152.6 | 160.9 | -8.3 | 89.8 | 72.5 | 17.3 | 15.9 |
| 1968 | 260.9 | 243.7 | 17.2 | 176.8 | 179.7 | -2.8 | 102.7 | 82.6 | 20.0 | 18.6 |
| 1969 | 293.9 | 264.1 | 29.8 | 199.5 | 190.8 | 8.7 | 114.8 | 93.7 | 21.1 | 20.3 |
| 1970 | 299.6 | 292.9 | 6.7 | 195.1 | 209.1 | -14.1 | 129.0 | 108.2 | 20.8 | 24.4 |
| 1971 | 319.6 | 323.2 | -3.7 | 203.3 | 228.6 | -25.3 | 145.3 | 123.7 | 21.7 | 29.0 |
| 1972 | 364.8 | 353.1 | 11.6 | 232.6 | 253.1 | -20.5 | 169.7 | 137.5 | 32.2 | 37.5 |
| 1973 | 408.8 | 386.5 | 22.2 | 264.0 | 275.1 | -11.1 | 185.3 | 152.0 | 33.4 | 40.6 |
| 1974 | 451.8 | 438.3 | 13.6 | 295.1 | 312.0 | -16.9 | 200.6 | 170.2 | 30.5 | 43.9 |
| 1975 | 468.4 | 514.7 | -46.3 | 297.4 | 371.3 | -73.9 | 225.6 | 198.0 | 27.6 | 54.6 |
| 1976 | 535.9 | 557.1 | -21.3 | 343.1 | 400.3 | -57.2 | 253.9 | 217.9 | 35.9 | 61.1 |
| 1977 | 603.9 | 605.5 | -1.5 | 389.6 | 435.9 | -46.3 | 281.9 | 237.1 | 44.7 | 67.5 |
| 1978 | 678.5 | 657.5 | 20.9 | 446.5 | 478.1 | -31.7 | 309.3 | 256.7 | 52.6 | 77.3 |
| 1979 | 761.1 | 727.3 | 33.8 | 511.1 | 529.5 | -18.4 | 330.6 | 278.3 | 52.3 | 80.5 |
| 1980 | 834.2 | 840.8 | -6.6 | 561.5 | 622.5 | -61.0 | 361.4 | 307.0 | 54.4 | 88.7 |
| 1981 | 952.2 | 954.6 | -2.4 | 649.3 | 707.1 | -57.8 | 390.8 | 335.4 | 55.4 | 87.9 |
| 1982 | 971.5 | 1,054.9 | -83.4 | 646.4 | 781.0 | -134.7 | 409.0 | 357.7 | 51.3 | 83.9 |
| 1983 | 1,028.6 | 1,138.1 | -109.5 | 671.9 | 846.3 | -174.4 | 443.6 | 378.8 | 64.9 | 87.0 |
| 1984 | 1,144.5 | 1,213.7 | -69.1 | 746.9 | 902.9 | -156.0 | 492.0 | 405.1 | 86.9 | 94.4 |
| 1985 | 1,239.7 | 1,311.7 | -71.9 | 811.3 | 974.2 | -162.9 | 528.7 | 437.8 | 91.0 | 100.3 |
| 1986 | 1,313.1 | 1,395.7 | -82.6 | 850.1 | 1,027.6 | -177.5 | 570.6 | 475.7 | 94.9 | 107.6 |
| 1987 | 1,429.4 | 1,474.5 | -45.1 | 937.4 | 1,066.3 | -128.9 | 594.9 | 511.1 | 83.8 | 102.9 |
| 1988 | 1,517.3 | 1,552.7 | -35.4 | 997.2 | 1,118.5 | -121.3 | 631.4 | 545.5 | 85.9 | 111.2 |
| 1989 | 1,642.1 | 1,660.2 | -18.1 | 1,079.3 | 1,192.7 | -113.4 | 681.0 | 585.7 | 95.3 | 118.2 |
| 1990 | 1,726.4 | 1,800.9 | -74.5 | 1,129.8 | 1,284.5 | -154.7 | 728.9 | 648.8 | 80.1 | 132.4 |
| 1991 | 1,779.8 | 1,900.0 | -120.2 | 1,149.0 | 1,345.0 | -196.0 | 784.2 | 708.3 | 75.8 | 153.4 |
| 1992 | 1,870.6 | 2,065.2 | -194.6 | 1,198.5 | 1,479.4 | -280.9 | 844.3 | 758.0 | 86.3 | 172.2 |
| 1993 | 1,986.6 | 2,146.4 | -159.8 | 1,275.3 | 1,530.0 | -254.7 | 897.1 | 802.2 | 94.9 | 185.7 |
| 1994 | 2,127.5 | 2,217.7 | -90.2 | 1,377.0 | 1,566.9 | -189.9 | 946.4 | 846.6 | 99.7 | 195.9 |
| 1990:1 | 1,689.2 | 1,757.8 | -68.6 | 1,107.3 | 1,261.5 | -154.1 | 710.3 | 624.8 | 85.5 | 128.4 |
| II ........................ | 1,721.8 | 1,783.1 | -61.4 | 1,132.7 | 1,276.9 | -144.1 | 721.3 | 638.5 | 82.8 | 132.2 |
| III ........................ | 1,748.5 | 1,810.4 | -61.9 | 1,144.1 | 1,286.7 | -142.6 | 736.2 | 655.5 | 80.7 | 131.8 |
| IV ...................... | 1,746.1 | 1,852.4 | -106.2 | 1,135.2 | 1,313.0 | -177.7 | 748.0 | 676.5 | 71.5 | 137.1 |
| 1991:\| | 1,753.9 | 1,819.7 | -65.9 | 1,140.1 | 1,274.7 | -134.6 | 758.5 | 689.8 | 68.8 | 144.8 |
| II ......................... | 1,766.6 | 1,889.6 | -123.0 | 1,142.6 | 1,339.3 | -196.7 | 775.8 | 702.1 | 73.7 | 151.8 |
| III ........................ | 1,789.4 | 1,926.3 | -136.9 | 1,152.3 | 1,366.3 | -214.0 | 791.4 | 714.3 | 77.1 | 154.4 |
| IV ...................... | 1,809.3 | 1,964.3 | -155.1 | 1,160.9 | 1,399.8 | -238.8 | 811.0 | 727.2 | 83.8 | 162.7 |
| 1992:I ....................... | 1,841.4 | 2,024.0 | -182.6 | 1,183.4 | 1,450.7 | -267.4 | 823.4 | 738.6 | 84.8 | 165.4 |
| II ......................... | 1,858.9 | 2,051.9 | -193.0 | 1,193.1 | 1,472.8 | -279.6 | 838.8 | 752.2 | 86.6 | 173.0 |
| III ....................... | 1,860.1 | 2,075.7 | -215.5 | 1,187.0 | 1,484.5 | -297.5 | 847.3 | 765.4 | 82.0 | 174.2 |
| IV ...................... | 1,921.8 | 2,109.1 | -187.3 | 1,230.5 | 1,509.5 | -279.0 | 867.7 | 775.9 | 91.7 | 176.3 |
| 1993: 1 | 1,916.8 | 2,120.0 | -203.2 | 1,225.2 | 1,508.9 | -283.7 | 869.0 | 788.5 | 80.5 | 177.3 |
| II ......................... | 1,977.4 | 2,137.5 | -160.1 | 1,271.3 | 1,520.5 | -249.2 | 887.6 | 798.5 | 89.1 | 181.5 |
| III ....................... | 1,995.0 | 2,153.6 | -158.6 | 1,280.3 | 1,533.8 | -253.5 | 901.9 | 807.0 | 94.9 | 187.2 |
| IV ....................... | 2,057.1 | 2,174.5 | -117.4 | 1,324.4 | 1,556.8 | -232.4 | 929.7 | 814.7 | 115.0 | 197.0 |
| 1994:1 | 2,053.3 | 2,171.4 | -118.1 | 1,321.9 | 1,534.7 | -212.9 | 923.6 | 828.8 | 94.8 | 192.2 |
| II ........................ | 2,129.1 | 2,193.8 | -64.7 | 1,382.8 | 1,552.7 | -169.9 | 943.8 | 838.6 | 105.2 | 197.5 |
| III ...................... | 2,143.3 | 2,230.0 | -86.7 | 1,387.1 | 1,573.5 | -186.3 | 953.1 | 853.5 | 99.6 | 196.9 |
| IV ...................... | 2,184.4 | 2,275.6 | -91.1 | 1,416.3 | 1,606.8 | -190.4 | 965.0 | 865.6 | 99.3 | 196.9 |
| 1995: I | 2,224.4 | 2,298.7 | -74.4 | 1,449.3 | 1,622.6 | -173.3 | 980.9 | 882.0 | 99.0 | 205.8 |
| II ........................ | 2,266.7 | 2,328.2 | -61.5 | 1,483.2 | 1,643.8 | -160.5 | 994.8 | 895.8 | 99.0 | 211.3 |
| III ...................... | 2,286.6 | 2,352.2 | -65.6 | 1,489.9 | 1,648.4 | -158.4 | 1,000.5 | 907.6 | 92.8 | 203.8 |

Note- Federal grants-in-aid to State and local governments are reflected in Federal expenditures and State and local receipts. Total government receipts and expenditures have been adjusted to eliminate this duplication.

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-79.-Federal and State and local government receipts and current expenditures, national income and product accounts (N IPA ), by major type, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Receipts |  |  |  |  | Current expenditures |  |  |  |  |  |  |  | Current surplus or deficit (-) (NIPA) | Addendum: Grants-in-aid to State and local governments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Personal tax and nontax receipts | Corporate profits tax accruals | Indirect business tax and nontax accruals | Contri- <br> butions for social insurance | Total ${ }^{1}$ | Con-sumption expenditures | Transfer payments | Net interest paid |  |  | Less: <br> Divi- <br> dends <br> re- <br> ceived by government ${ }^{2}$ | Subsidies less current surplus of government enterprises |  |  |
|  |  |  |  |  |  |  |  |  | Total | Interest paid | Less: Interest received by government ${ }^{2}$ |  |  |  |  |
| 1959 | 128.8 | 44.5 | 23.6 | 41.9 | 18.8 | 116.6 | 82.7 | 27.5 | 6.3 |  |  |  | 0.1 | 12.2 | 6.8 |
| 1960 | 138.8 | 48.7 | 22.7 | 45.5 | 21.9 | 121.5 | 85.0 | 29.3 | 6.9 | 10.1 | 3.3 |  | . 3 | 17.3 | 6.5 |
| 1961 | 144.1 | 50.3 | 22.8 | 48.1 | 22.9 | 130.8 | 89.6 | 33.6 | 6.4 | 9.9 | 3.5 |  | 1.3 | 13.3 | 7.2 |
| 1962 | 155.8 | 54.8 | 24.0 | 51.7 | 25.4 | 141.3 | 98.2 | 34.7 | 6.9 | 10.8 | 3.9 |  | 1.5 | 14.5 | 8.0 |
| 1963 | 167.5 | 58.0 | 26.2 | 54.7 | 28.5 | 149.1 | 104.2 | 36.6 | 7.4 | 11.6 | 4.2 |  | . 9 | 18.4 | 9.1 |
| 1964 | 172.9 | 56.0 | 28.0 | 58.8 | 30.1 | 157.3 | 109.9 | 38.1 | 7.9 | 12.5 | 4.6 |  | 1.4 | 15.6 | 10.4 |
| 1965 | 187.0 | 61.9 | 30.9 | 62.7 | 31 | 168.6 | 117.6 | 41.1 | 8.1 | 13.2 | 5.1 |  | . 7 | 18.5 | 11.1 |
| 1966 | 210.7 | 71.0 | 33.7 | 65.4 | 40.6 | 190.8 | 133.5 | 45.8 | 8.5 | 14.5 | 6.0 |  | 3.0 | 19.9 | 14.4 |
| 1967 | 226.4 | 77.9 | 32.7 | 70.4 | 45.5 | 217.5 | 151.2 | 54.5 | 8.9 | 15.7 | 6.8 |  | 2.9 | 8.9 | 15.9 |
| 1968 | 260.9 | 92.1 | 39.4 | 79.0 | 50.4 | 243.7 | 167.8 | 62.6 | 10.3 | 18.1 | 7.7 | 0.1 | 3.1 | 17.2 | 18.6 |
| 1969 | 293.9 | 109.9 | 39.7 | 86.6 | 57.8 | 264.1 | 179.9 | 69.3 | 11.5 | 19.8 | 8.3 | 2 | 3.6 | 29.8 | 20.3 |
| 1970 | 299.6 | 109.0 | 34.4 | 94.3 | 62.0 | 292.9 | 192.1 | 83.8 | 12.4 | 22.3 | 9.9 | . 2 | 4.9 | 6.7 | 24.4 |
| 1971 | 319.6 | 108.7 | 37.7 | 103.6 | 69.6 | 323.2 | 206.7 | 99.4 | 12.5 | 23.1 | 10.6 | 3 | 5.1 | -3.7 | 29.0 |
| 1972 | 364.8 | 132.0 | 41.9 | 111.4 | 79.5 | 353.1 | 223.6 | 110.9 | 12.9 | 24.8 | 11.9 | 3 | 6.4 | 11.6 | 37.5 |
| 1973 | 408.8 | 140.6 | 49.3 | 121.0 | 97.9 | 386.5 | 239.4 | 126.6 | 15.2 | 29.6 | 14.4 | 5 | 5.9 | 22.2 | 40.6 |
| 1974 | 451.8 | 159.1 | 51.8 | 129.3 | 111.7 | 438.3 | 267.2 | 150.5 | 16.3 | 33.6 | 17.3 | . 9 | 4.5 | 13.6 | 43.9 |
| 1975 | 468.4 | 156.4 | 50.9 | 140.0 | 121.1 | 514.7 | 299.9 | 189.2 | 18.5 | 37.7 | 19.2 | 9 | 8.1 | -46.3 | 54.6 |
| 1976 | 535.9 | 182.3 | 64.2 | 151.6 | 137.7 | 557.1 | 321.4 | 206.5 | 22.8 | 43.6 | 20.9 | . 9 | 7.4 | -21.3 | 61.1 |
| 1977 | 603.9 | 210.0 | 73.0 | 165.5 | 155.4 | 605.5 | 351.5 | 220.9 | 24.4 | 47.9 | 23.5 | 1.3 | 10.1 | -1.5 | 67.5 |
| 1978 | 678.5 | 240.1 | 83.5 | 177.8 | 177.0 | 657.5 | 383.3 | 238.6 | 26.5 | 56.8 | 30.3 | 1.7 | 11.1 | 20.9 | 77.3 |
| 1979 | 761.1 | 280.2 | 88.0 | 188.7 | 204.2 | 727.3 | 421.8 | 266.9 | 28.7 | 68.6 | 39.9 | 2.0 | 11.7 | 33.8 | 80.5 |
| 1980 | 834.2 | 312.4 | 84.8 | 212.0 | 225.0 | 840.8 | 476.4 | 317.6 | 33.4 | 83.9 | 50.5 | 1.9 | 15.2 | -6.6 | 88.7 |
| 1981 | 952.2 | 360.2 | 81.1 | 249.3 | 261.6 | 954.6 | 531.3 | 360.7 | 48.1 | 110.2 | 62.1 | 2.3 | 16.9 | -2.4 | 87.9 |
| 1982 | 971.5 | 371.4 | 63.1 | 256.4 | 280.6 | 1,054.9 | 577.9 | 403.3 | 55.5 | 130.6 | 75.0 | 2.9 | 21.1 | -83.4 | 83.9 |
| 1983 | 1,028.6 | 369.3 | 77.2 | 280.1 | 301.9 | 1,138.1 | 619.2 | 434.4 | 61.8 | 146.7 | 84.9 | 3.4 | 25.6 | -109.5 | 87.0 |
| 1984 | 1,144.5 | 395.5 | 94.0 | 309.5 | 345.5 | 1,213.7 | 664.9 | 448.2 | 79.1 | 174.7 | 95.6 | 3.9 | 25.5 | -69.1 | 94.4 |
| 1985 | 1,239.7 | 437.7 | 96.5 | 329.6 | 375.9 | 1,311.7 | 725.1 | 480.9 | 88.0 | 195.9 | 107.9 | 4.5 | 21.9 | -71.9 | 100.3 |
| 1986 | 1,313.1 | 459.9 | 106.5 | 344.7 | 402.0 | 1,395.7 | 775.0 | 510.9 | 89.8 | 208.0 | 118.2 | 5.1 | 25.1 | -82.6 | 107.6 |
| 1987 | 1,429.4 | 514.2 | 127.1 | 364.8 | 423.3 | 1,474.5 | 819.3 | 533.7 | 96.3 | 216.0 | 119.7 | 5.9 | 31.0 | -45.1 | 102.9 |
| 1988 | 1,517.3 | 532.0 | 137.0 | 385.5 | 462.8 | 1,552.7 | 859.1 | 568.3 | 103.7 | 229.7 | 125.9 | 6.9 | 28.5 | -35.4 | 111.2 |
| 1989 .. | 1,642.1 | 594.9 | 141.3 | 414.7 | 491.2 | 1,660.2 | 912.4 | 616.3 | 115.5 | 251.0 | 135.5 | 8.1 | 24.0 | -18.1 | 118.2 |
| 1990 | 1,726.4 | 624.8 | 140.5 | 442.6 | 518.5 | 1,800.9 | 976.7 | 679.8 | 128.2 | 268.6 | 140.4 | 9.0 | 25.3 | -74.5 | 132.4 |
| 1991. | 1,779.8 | 624.8 | 133.4 | 478.1 | 543.5 | 1,900.0 | 1,025.4 | 721.1 | 139.4 | 282.8 | 143.5 | 9.5 | 23.6 | -120.2 | 153.4 |
| 1992. | 1,870.6 | 650.5 | 143.0 | 505.6 | 571.4 | 2,065.2 | 1,054.7 | 852.3 | 141.2 | 282.7 | 141.5 | 10.1 | 27.1 | -194.6 | 172.2 |
| 1993. | 1,986.6 | 689.9 | 163.8 | 540.0 | 592.9 | 2,146.4 | 1,079.3 | 905.5 | 140.4 | 278.8 | 138.4 | 10.5 | 31.7 | -159.8 | 185.7 |
| 1994. | 2,127.5 | 731.4 | 195.3 | 572.5 | 628.3 | 2,217.7 | 1,102.3 | 950.0 | 151.7 | 288.3 | 136.6 | 11.4 | 25.1 | -90.2 | 195.9 |
| 1990: 1 | 1,689.2 | 613.0 | 133.0 | 432.1 | 511.1 | 1,757.8 | 957.0 | 660.7 | 125.0 | 260.6 | 135.6 | 8.7 | 23.8 | -68.6 | 128.4 |
|  | 1,721.8 | 628.2 | 141.2 | 436.1 | 516.2 | 1,783.1 | 967.6 | 672.0 | 128.0 | 264.6 | 136.6 | 9.0 | 24.5 | -61.4 | 132.2 |
| III .. | 1,748.5 | 630.8 | 148.0 | 447.3 | 522.4 | 1,810.4 | 977.2 | 682.5 | 134.1 | 271.9 | 137.8 | 9.0 | 25.7 | -61.9 | 131.8 |
| IV ... | 1,746.1 | 627.1 | 139.7 | 455.0 | 524.3 | 1,852.4 | 1,005.0 | 703.8 | 125.8 | 277.2 | 151.5 | 9.3 | 27.3 | -106.2 | 137.1 |
| 1991: \| ... | 1,753.9 | 622.3 | 130.1 | 464.7 | 536.8 | 1,819.7 | 1,022.6 | 648.7 | 133.7 | 279.2 | 145.5 | 9.4 | 24.4 | -65.9 | 144.8 |
| II. | 1,766.6 | 620.5 | 132.3 | 472.9 | 540.9 | 1,889.6 | 1,025.9 | 710.5 | 139.6 | 282.7 | 143.2 | 9.5 | 22.7 | -123.0 | 151.8 |
| III ... | 1,789.4 | 623.7 | 136.0 | 483.7 | 546.0 | 1,926.3 | 1,025.2 | 748.7 | 138.3 | 282.4 | 144.1 | 9.5 | 23.5 | -136.9 | 154.4 |
| IV ... | 1,809.3 | 632.5 | 135.2 | 491.2 | 550.3 | 1,964.3 | 1,027.8 | 776.6 | 145.9 | 286.9 | 141.0 | 9.6 | 23.6 | -155.1 | 162.7 |
| 1992: 1 | 1,841.4 | 636.7 | 143.9 | 495.7 | 565.1 | 2,024.0 | 1,038.4 | 828.8 | 142.0 | 283.2 | 141.2 | 9.8 | 24.6 | -182.6 | 165.4 |
|  | 1,858.9 | 640.0 | 150.9 | 497.9 | 570.1 | 2,051.9 | 1,047.1 | 846.0 | 143.5 | 285.1 | 141.6 | 10.1 | 25.4 | -193.0 | 173.0 |
| III. | 1,860.1 | 650.6 | 127.6 | 507.1 | 574.8 | 2,075.7 | 1,061.8 | 855.4 | 141.7 | 282.9 | 141.3 | 10.1 | 26.9 | -215.5 | 174.2 |
| IV ........ | 1,921.8 | 674.8 | 149.7 | 521.7 | 575.7 | 2,109.1 | 1,071.3 | 879.1 | 137.6 | 279.4 | 141.9 | 10.3 | 31.5 | -187.3 | 176.3 |
| 1993: \| .......... | 1,916.8 | 662.4 | 151.5 | 524.7 | 578.3 | 2,120.0 | 1,071.6 | 885.9 | 137.5 | 276.7 | 139.2 | 10.2 | 35.2 | -203.2 | 177.3 |
| II ......... | 1,977.4 | 686.9 | 162.6 | 535.1 | 592.8 | 2,137.5 | 1,074.0 | 899.3 | 141.0 | 279.8 | 138.9 | 10.4 | 33.7 | -160.1 | 181.5 |
| III .... | 1,995.0 | 696.4 | 159.3 | 541.7 | 597.5 | 2,153.6 | 1,083.7 | 909.4 | 141.1 | 279.6 | 138.5 | 10.5 | 29.9 | -158.6 | 187.2 |
| IV ....... | 2,057.1 | 713.8 | 181.7 | 558.5 | 603.1 | 2,174.5 | 1,087.9 | 927.4 | 142.0 | 279.0 | 137.1 | 10.8 | 28.0 | -117.4 | 197.0 |
| 1994: I | 2,053.3 | 705.5 | 171.4 | 562.1 | 614.2 | 2,171.4 | 1,089.0 | 928.6 | 137.7 | 274.6 | 136.9 | 11.1 | 27.2 | -118.1 | 192.2 |
|  | 2,129.1 | 740.8 | 192.8 | 568.0 | 627.5 | 2,193.8 | 1,092.3 | 940.5 | 148.3 | 284.7 | 136.4 | 11.3 | 24.0 | -64.7 | 197.5 |
| III ........ | 2,143.3 | 731.3 | 203.4 | 576.4 | 632.2 | 2,230.0 | 1,110.9 | 952.4 | 154.8 | 291.2 | 136.4 | 11.5 | 23.4 | -86.7 | 196.9 |
| IV ........ | 2,184.4 | 748.1 | 213.5 | 583.5 | 639.3 | 2,275.6 | 1,117.2 | 978.4 | 165.8 | 302.6 | 136.8 | 11.8 | 25.9 | -91.1 | 196.9 |
| 1995: 1 | 2,224.4 | 770.0 | 217.3 | 586.0 | 651.0 | 2,298.7 | 1,126.9 | 992.1 | 172.7 | 309.6 | 136.9 | 12.2 | 19.2 | -74.4 | 205.8 |
| II ......... | 2,266.7 | 801.5 | 214.2 | 594.8 | 656.2 | 2,328.2 | 1,136.2 | 1,004.1 | 181.5 | 318.9 | 137.4 | 12.4 | 18.7 | -61.5 | 211.3 |
| III ........ | 2,286.6 | 801.3 | 224.5 | 596.8 | 664.0 | 2,352.2 | 1,140.6 | 1,021.0 | 185.5 | 320.7 | 135.2 | 12.7 | 17.9 | -65.6 | 203.8 |

[^62]Source: Department of Commerce, Bureau of Economic Analysis.

Table B-80.-Federal Government receipts and current expenditures, national income and product accounts (NIPA), 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| $\begin{aligned} & \text { Year } \\ & \text { or } \\ & \text { quarter } \end{aligned}$ | Receipts |  |  |  |  | Current expenditures |  |  |  |  |  |  |  | Current <br> surplus or deficit (-) (NIPA) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Personal tax and nontax receipts | Corporate profits tax accruals | Indirectbusi-nesstaxandnontaxaccru-als | Contributions for social insurance | Total ${ }^{1}$ | Consumption expenditures |  | Transfer payments |  | Grants- <br> in-aid to State and local gov-ernments | Net interest paid | Subsidies less current surplus of government enterprises |  |
|  |  |  |  |  |  |  | Total | $\mathrm{Na}-$ <br> tional defense | $\begin{aligned} & \text { To } \\ & \text { per- } \\ & \text { sons } \end{aligned}$ | To rest of the world (net) |  |  |  |  |
| 1959 | 90.6 | 39.8 | 22.5 | 12.6 | 15.7 | 88.0 | 51.8 | 42.0 | 20.1 | 1.8 | 6.8 | 6.2 | 1.3 | 2.6 |
| 1960 | 97.0 | 43.5 | 21.4 | 13.5 | 18.5 | 89.6 | 51.3 | 42.5 | 21.6 | 1.9 | 6.5 | 6.8 | 1.6 | . 4 |
| 1961 | 99.0 | 44.6 | 21.5 | 13.7 | 19.2 | 96.1 | 52.9 | 43.9 | 25.0 | 2.1 | 7.2 | 6.3 | 2.6 | 2.9 |
| 1962 | 107.2 | 48.5 | 22.5 | 14.7 | 21.5 | 104.4 | 59.1 | 47.8 | 25.6 | 2.1 | 8.0 | 6.8 | 2.9 | 2.8 |
| 1963 | 115.5 | 51.3 | 24.6 | 15.4 | 24.3 | 110.2 | 62.0 | 49.6 | 27.0 | 2.1 | 9.1 | 7.3 | 2.6 | 5.4 |
| 1964 | 116.2 | 48.4 | 26.1 | 16.3 | 25.4 | 115.4 | 63.9 | 49.9 | 27.9 | 2.1 | 10.4 | 8.0 | 3.1 | 9 |
| 1965 | 125.8 | 53.7 | 28.9 | 16.6 | 26.6 | 122.4 | 67.2 | 52.0 | 30.3 | 2.1 | 11.1 | 8.4 | 3.4 | 3.4 |
| 1966 | 143.5 | 61.5 | 31.4 | 15.7 | 34.9 | 140.9 | 77.0 | 61.2 | 33.5 | 2.2 | 14.4 | 9.2 | 4.6 | 2.6 |
| 1967 | 152.6 | 67.2 | 30.0 | 16.5 | 38.9 | 160.9 | 88.3 | 71.3 | 40.2 | 2.1 | 15.9 | 9.8 | 4.5 | -8.3 |
| 1968 | 176.8 | 79.3 | 36.1 | 18.2 | 43.2 | 179.7 | 97.0 | 78.9 | 46.2 | 1.9 | 18.6 | 11.3 | 4.6 | -2.8 |
| 1969 | 199.5 | 94.7 | 36.1 | 19.2 | 49.5 | 190.8 | 100.1 | 80.0 | 50.8 | 1.8 | 20.3 | 12.7 | 5.1 | 8.7 |
| 1970 | 195.1 | 92.2 | 30.6 | 19.5 | 52.8 | 209.1 | 100.5 | 78.6 | 61.6 | 2.0 | 24.4 | 14.1 | 6.5 | -14.1 |
| 1971 | 203.3 | 89.9 | 33.5 | 20.5 | 59.4 | 228.6 | 103.8 | 79.2 | 73.0 | 2.4 | 29.0 | 13.8 | 6.6 | -25.3 |
| 1972 | 232.6 | 107.8 | 36.6 | 20.1 | 68.1 | 253.1 | 110.1 | 82.3 | 80.9 | 2.5 | 37.5 | 14.4 | 8.0 | -20.5 |
| 1973 | 264.0 | 114.3 | 43.3 | 21.5 | 84.9 | 275.1 | 112.9 | 83.7 | 93.7 | 2.5 | 40.6 | 18.0 | 7.4 | -11.1 |
| 1974 | 295.1 | 130.9 | 45.1 | 22.1 | 97.1 | 312.0 | 123.3 | 90.1 | 115.0 | 3.2 | 43.9 | 20.7 | 5.5 | -16.9 |
| 1975 | 297.4 | 125.4 | 43.6 | 24.2 | 104.2 | 371.3 | 135.0 | 97.0 | 146.8 | 3.5 | 54.6 | 23.0 | 8.6 | -73.9 |
| 1976 | 343.1 | 146.6 | 54.6 | 23.8 | 118.2 | 400.3 | 141.7 | 101.3 | 159.3 | 3.7 | 61.1 | 26.8 | 7.8 | -57.2 |
| 1977 | 389.6 | 169.1 | 61.6 | 25.6 | 133.3 | 435.9 | 155.4 | 109.6 | 170.1 | 3.4 | 67.5 | 29.1 | 10.4 | -46.3 |
| 1978 | 446.5 | 193.8 | 71.4 | 28.9 | 152.4 | 478.1 | 168.8 | 118.4 | 182.4 | 3.8 | 77.3 | 34.6 | 11.4 | -31.7 |
| 1979 | 511.1 | 229.7 | 74.4 | 30.1 | 176.8 | 529.5 | 185.9 | 130.7 | 205.7 | 4.1 | 80.5 | 42.1 | 11.3 | -18.4 |
| 1980 | 561.5 | 256.2 | 70.3 | 39.7 | 195.3 | 622.5 | 215.2 | 150.9 | 247.0 | 5.0 | 88.7 | 52.7 | 13.9 | -61.0 |
| 1981 | 649.3 | 297.2 | 65.7 | 57.3 | 229.1 | 707.1 | 246.0 | 174.3 | 282.1 | 5.0 | 87.9 | 71.7 | 14.4 | -57.8 |
| 1982 | 646.4 | 302.9 | 49.0 | 49.7 | 244.8 | 781.0 | 270.0 | 197.6 | 316.4 | 7.0 | 83.9 | 84.4 | 19.4 | -134.7 |
| 1983 | 671.9 | 293.0 | 61.3 | 53.3 | 264.2 | 846.3 | 293.0 | 214.9 | 340.0 | 7.8 | 87.0 | 92.8 | 25.4 | -174.4 |
| 1984 | 746.9 | 308.3 | 75.2 | 57.9 | 305.3 | 902.9 | 314.1 | 236.3 | 344.6 | 9.7 | 94.4 | 113.3 | 27.1 | -156.0 |
| 1985 | 811.3 | 343.7 | 76.3 | 58.2 | 333.1 | 974.2 | 342.5 | 257.6 | 366.9 | 12.2 | 100.3 | 126.9 | 25.2 | -162.9 |
| 1986 | 850.1 | 358.3 | 83.8 | 53.2 | 354.7 | 1,027.6 | 362.3 | 272.7 | 386.2 | 12.9 | 107.6 | 130.5 | 28.0 | -177.5 |
| 1987 | 937.4 | 402.4 | 103.2 | 57.8 | 374.1 | 1,066.3 | 378.2 | 287.6 | 401.8 | 11.2 | 102.9 | 137.8 | 34.4 | -128.9 |
| 1988 | 997.2 | 414.4 | 111.0 | 60.9 | 410.9 | 1,118.5 | 387.8 | 297.9 | 425.8 | 11.4 | 111.2 | 148.4 | 33.8 | -121.3 |
| 1989 | 1,079.3 | 463.4 | 117.1 | 61.7 | 437.1 | 1,192.7 | 405.2 | 303.3 | 460.3 | 11.4 | 118.2 | 166.7 | 30.8 | -113.4 |
| 1990 | 1,129.8 | 485.7 | 118.0 | 65.1 | 461.1 | 1,284.5 | 426.6 | 312.7 | 500.0 | 13.3 | 132.4 | 179.9 | 32.4 | -154.7 |
| 1991 | 1,149.0 | 476.9 | 109.8 | 79.7 | 482.6 | 1,345.0 | 445.9 | 325.4 | 550.1 | -27.9 | 153.4 | 192.7 | 30.8 | -196.0 |
| 1992 | 1,198.5 | 490.8 | 118.6 | 81.9 | 507.1 | 1,479.4 | 451.0 | 319.7 | 608.5 | 16.6 | 172.2 | 195.8 | 35.1 | -280.9 |
| 1993 | 1,275.3 | 523.6 | 137.5 | 88.2 | 526.0 | 1,530.0 | 451.4 | 313.0 | 641.8 | 16.9 | 185.7 | 192.3 | 41.8 | -254.7 |
| 1994 | 1,377.0 | 561.4 | 164.4 | 92.6 | 558.6 | 1,566.9 | 450.6 | 305.7 | 666.4 | 16.2 | 195.9 | 201.4 | 36.4 | -189.9 |
| 1990:I | 1,107.3 | 477.4 | 111.6 | 63.2 | 455.1 | 1,261.5 | 421.7 | 311.7 | 492.7 | 11.5 | 128.4 | 176.2 | 30.9 | -154.1 |
| II.. | 1,132.7 | 490.7 | 118.5 | 64.2 | 459.3 | 1,276.9 | 423.7 | 310.8 | 494.1 | 15.5 | 132.2 | 179.7 | 31.7 | -144.1 |
| III. | 1,144.1 | 489.7 | 124.3 | 65.5 | 464.5 | 1,286.7 | 423.2 | 307.3 | 500.0 | 13.2 | 131.8 | 185.8 | 32.7 | -142.6 |
| IV ... | 1,135.2 | 484.9 | 117.4 | 67.4 | 465.6 | 1,313.0 | 437.7 | 321.0 | 513.3 | 12.9 | 137.1 | 177.8 | 34.4 | -177.7 |
| 1991: \| ... | 1,140.1 | 478.4 | 107.3 | 77.2 | 477.2 | 1,274.7 | 450.5 | 331.3 | 538.6 | -76.9 | 144.8 | 186.3 | 31.6 | -134.6 |
| II .. | 1,142.6 | 474.3 | 108.9 | 79.1 | 480.3 | 1,339.3 | 449.1 | 328.6 | 547.5 | -32.0 | 151.8 | 192.6 | 30.0 | -196.7 |
|  | 1,152.3 | 476.0 | 111.8 | 79.9 | 484.7 | 1,366.3 | 443.7 | 323.1 | 551.0 | -5.4 | 154.4 | 191.9 | 30.7 | -214.0 |
| IV ............. | 1,160.9 | 479.0 | 111.1 | 82.8 | 488.1 | 1,399.8 | 440.5 | 318.5 | 563.2 | 2.6 | 162.7 | 200.0 | 30.9 | -238.8 |
| 1992: \| .. | 1,183.4 | 481.0 | 119.6 | 80.8 | 502.0 | 1,450.7 | 445.8 | 317.2 | 598.7 | 12.4 | 165.4 | 196.8 | 31.8 | -267.4 |
| II .............. | 1,193.1 | 481.6 | 125.3 | 80.2 | 506.1 | 1,472.8 | 446.3 | 317.3 | 606.9 | 15.0 | 173.0 | 198.4 | 33.1 | -279.6 |
| III ............. | 1,187.0 | 490.7 | 106.0 | 80.2 | 510.1 | 1,484.5 | 454.4 | 323.5 | 611.3 | 12.9 | 174.2 | 196.4 | 35.3 | -297.5 |
| IV ............. | 1,230.5 | 510.0 | 123.7 | 86.5 | 510.3 | 1,509.5 | 457.7 | 320.7 | 617.2 | 26.1 | 176.3 | 191.8 | 40.3 | -279.0 |
| 1993: 1 | 1,225.2 | 501.0 | 127.5 | 84.3 | 512.4 | 1,508.9 | 450.8 | 313.9 | 633.4 | 12.3 | 177.3 | 190.4 | 44.7 | -283.7 |
| II ............... | 1,271.3 | 521.0 | 136.5 | 87.5 | 526.2 | 1,520.5 | 447.9 | 312.1 | 639.8 | 14.4 | 181.5 | 193.2 | 43.6 | -249.2 |
| III ............. | 1,280.3 | 529.1 | 133.7 | 87.2 | 530.3 | 1,533.8 | 453.0 | 314.6 | 645.3 | 15.1 | 187.2 | 192.7 | 40.5 | -253.5 |
| IV ............. | 1,324.4 | 543.4 | 152.2 | 93.7 | 535.1 | 1,556.8 | 453.8 | 311.5 | 648.7 | 25.8 | 197.0 | 192.9 | 38.6 | -232.4 |
| 1994:I ............... | 1,321.9 | 539.3 | 144.3 | 92.8 | 545.5 | 1,534.7 | 446.7 | 301.3 | 659.7 | 11.5 | 192.2 | 188.2 | 36.5 | -212.9 |
| 11. | 1,382.8 | 571.3 | 162.2 | 91.3 | 558.1 | 1,552.7 | 445.1 | 303.4 | 663.4 | 13.2 | 197.5 | 198.2 | 35.3 | -169.9 |
|  | 1,387.1 | 560.4 | 171.3 | 93.3 | 562.1 | 1,573.5 | 455.5 | 313.3 | 667.8 | 13.7 | 196.9 | 204.4 | 35.2 | -186.3 |
| IV ...... | 1,416.3 | 574.5 | 180.0 | 93.2 | 568.6 | 1,606.8 | 455.3 | 304.9 | 674.7 | 26.5 | 196.9 | 214.9 | 38.5 | -190.4 |
| 1995: $1 .$. | 1,449.3 | 594.6 | 183.1 | 91.7 | 579.9 | 1,622.6 | 454.8 | 303.0 | 696.2 | 12.3 | 205.8 | 221.2 | 32.3 | -173.3 |
| II ............... | 1,483.2 | 624.4 | 180.7 | 93.5 | 584.6 | 1,643.8 | 456.1 | 305.3 | 705.2 | 9.9 | 211.3 | 229.2 | 32.0 | -160.5 |
| III ............. | 1,489.9 | 620.3 | 189.1 | 88.8 | 591.8 | 1,648.4 | 454.1 | 301.9 | 713.0 | 13.8 | 203.8 | 232.7 | 31.1 | -158.4 |

[^63]TABLE B-81.-State and local government receipts and current expenditures, national income and
product accounts (NIPA), 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Receipts |  |  |  |  |  | Current expenditures |  |  |  |  | Current surplus or deficit $(-)$ (NIPA) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Personal tax and nontax receipts | Corporate profits tax accruals | Indirect business tax and nontax accruals | Contributions for social insurance | Federal grants-inaid | Total ${ }^{1}$ | Con-sumption expenditures | Transfer payments to persons | Net interest paid less dividends received | Subsi- <br> dies less <br> current surplus of government enterprises |  |
| 1959 .... | 45.0 | 4.6 | 1.2 | 29.3 | 3.1 | 6.8 | 35.4 | 30.9 | 5.6 | 0.1 | -1.2 | 9.6 |
| 1960. | 48.3 | 5.2 | 1.2 | 32.0 | 3.4 | 6.5 | 38.4 | 33.7 | 5.9 | . 1 | -1.3 | 9.9 |
| 1961 ... | 52.4 | 5.7 | 1.3 | 34.4 | 3.7 | 7.2 | 42.0 | 36.7 | 6.5 | . 1 | -1.4 | 10.4 |
| 1962 .......... | 56.6 | 6.3 | 1.5 | 37.0 | 3.9 | 8.0 | 44.8 | 39.1 | 7.0 | . 2 | -1.4 | 11.7 |
| 1963 ........... | 61.1 | 6.7 | 1.7 | 39.4 | 4.2 | 9.1 | 48.1 | 42.2 | 7.5 | . 1 | -1.7 | 13.0 |
| 1964 ........... | 67.1 | 7.5 | 1.8 | 42.6 | 4.7 | 10.4 | 52.4 | 46.0 | 8.2 | -. 1 | -1.7 | 14.7 |
| 1965 .. | 72.3 | 8.1 | 2.0 | 46.1 | 5.0 | 11.1 | 57.2 | 50.5 | 8.8 | -. 3 | -1.7 | 15.1 |
| 1966 .... | 81.5 | 9.5 | 2.2 | 49.7 | 5.7 | 14.4 | 64.3 | 56.5 | 10.1 | -. 6 | -1.7 | 17.3 |
| 1967 ........... | 89.8 | 10.6 | 2.6 | 53.9 | 6.7 | 15.9 | 72.5 | 62.9 | 12.1 | -. 9 | -1.6 | 17.3 |
| 1968 ........... | 102.7 | 12.7 | 3.3 | 60.8 | 7.2 | 18.6 | 82.6 | 70.8 | 14.5 | -1.1 | -1.6 | 20.0 |
| 1969 ........... | 114.8 | 15.2 | 3.6 | 67.4 | 8.3 | 20.3 | 93.7 | 79.8 | 16.7 | -1.4 | -1.5 | 21.1 |
| 1970 ... | 129.0 | 16.7 | 3.7 | 74.8 | 9.2 | 24.4 | 108.2 | 91.6 | 20.1 | -2.0 | -1.6 | 20.8 |
| 1971 ........... | 145.3 | 18.7 | 4.3 | 83.1 | 10.2 | 29.0 | 123.7 | 102.9 | 24.0 | -1.7 | -1.4 | 21.7 |
| 1972 .......... | 169.7 | 24.2 | 5.3 | 91.2 | 11.5 | 37.5 | 137.5 | 113.4 | 27.5 | -1.8 | -1.6 | 32.2 |
| 1973 ........... | 185.3 | 26.3 | 6.0 | 99.5 | 13.0 | 40.6 | 152.0 | 126.4 | 30.4 | -3.4 | -1.5 | 33.4 |
| 1974 ........... | 200.6 | 28.2 | 6.7 | 107.2 | 14.6 | 43.9 | 170.2 | 144.0 | 32.3 | -5.3 | -. 9 | 30.5 |
| 1975 ... | 225.6 | 31.0 | 7.3 | 115.8 | 16.8 | 54.6 | 198.0 | 164.9 | 38.9 | -5.4 | -. 4 | 27.6 |
| 1976 .......... | 253.9 | 35.8 | 9.6 | 127.8 | 19.5 | 61.1 | 217.9 | 179.7 | 43.6 | -5.0 | -. 4 | 35.9 |
| 1977 .......... | 281.9 | 41.0 | 11.4 | 139.9 | 22.1 | 67.5 | 237.1 | 196.1 | 47.4 | -6.0 | -. 3 | 44.7 |
| 1978 .......... | 309.3 | 46.3 | 12.1 | 148.9 | 24.7 | 77.3 | 256.7 | 214.5 | 52.4 | -9.8 | -. 3 | 52.6 |
| 1979 ........... | 330.6 | 50.5 | 13.6 | 158.6 | 27.4 | 80.5 | 278.3 | 235.9 | 57.2 | -15.3 | . 4 | 52.3 |
| 1980 ... | 361.4 | 56.2 | 14.5 | 172.3 | 29.7 | 88.7 | 307.0 | 261.3 | 65.7 | -21.2 | 1.2 | 54.4 |
| 1981 .......... | 390.8 | 63.0 | 15.4 | 192.0 | 32.5 | 87.9 | 335.4 | 285.3 | 73.6 | -25.9 | 2.4 | 55.4 |
| 1982 .......... | 409.0 | 68.5 | 14.0 | 206.8 | 35.8 | 83.9 | 357.7 | 307.9 | 79.9 | -31.8 | 1.7 | 51.3 |
| 1983 .......... | 443.6 | 76.2 | 15.9 | 226.8 | 37.7 | 87.0 | 378.8 | 326.2 | 86.6 | -34.4 | . 2 | 64.9 |
| 1984 .......... | 492.0 | 87.1 | 18.8 | 251.5 | 40.2 | 94.4 | 405.1 | 350.8 | 93.9 | -38.0 | -1.6 | 86.9 |
| 1985 ... | 528.7 | 94.0 | 20.2 | 271.4 | 42.8 | 100.3 | 437.8 | 382.6 | 101.9 | -43.4 | -3.3 | 91.0 |
| 1986 .......... | 570.6 | 101.6 | 22.7 | 291.5 | 47.3 | 107.6 | 475.7 | 412.7 | 111.8 | -45.8 | -3.0 | 94.9 |
| 1987 .......... | 594.9 | 111.8 | 23.9 | 307.1 | 49.2 | 102.9 | 511.1 | 441.1 | 120.7 | -47.4 | -3.4 | 83.8 |
| 1988 ... | 631.4 | 117.6 | 26.0 | 324.6 | 51.9 | 111.2 | 545.5 | 471.3 | 131.0 | -51.5 | -5.3 | 85.9 |
| 1989 .......... | 681.0 | 131.4 | 24.2 | 353.0 | 54.1 | 118.2 | 585.7 | 507.2 | 144.5 | -59.3 | -6.8 | 95.3 |
| 1990 ........... | 728.9 | 139.1 | 22.5 | 377.6 | 57.4 | 132.4 | 648.8 | 550.1 | 166.5 | -60.7 | -7.1 | 80.1 |
| 1991 ........... | 784.2 | 147.8 | 23.6 | 398.4 | 60.9 | 153.4 | 708.3 | 579.4 | 199.0 | -62.8 | -7.2 | 75.8 |
| 1992 .......... | 844.3 | 159.7 | 24.4 | 423.7 | 64.3 | 172.2 | 758.0 | 603.6 | 227.2 | -64.8 | -8.0 | 86.3 |
| 1993 .......... | 897.1 | 166.2 | 26.3 | 451.8 | 66.9 | 185.7 | 802.2 | 627.9 | 246.8 | -62.4 | -10.1 | 94.9 |
| 1994 .......... | 946.4 | 170.0 | 30.9 | 479.9 | 69.7 | 195.9 | 846.6 | 651.7 | 267.4 | -61.2 | -11.2 | 99.7 |
| 1990: I ........ | 710.3 | 135.6 | 21.4 | 368.9 | 56.0 | 128.4 | 624.8 | 535.3 | 156.5 | -59.9 | -7.1 | 85.5 |
| II....... | 721.3 | 137.5 | 22.7 | 371.9 | 56.9 | 132.2 | 638.5 | 543.9 | 162.4 | -60.7 | -7.1 | 82.8 |
| III ...... | 736.2 | 141.2 | 23.7 | 381.8 | 57.9 | 131.8 | 655.5 | 554.0 | 169.3 | -60.8 | -7.0 | 80.7 |
| IV ...... | 748.0 | 142.3 | 22.2 | 387.7 | 58.7 | 137.1 | 676.5 | 567.3 | 177.7 | -61.3 | -7.1 | 71.5 |
| 1991: I........ | 758.5 | 143.9 | 22.8 | 387.5 | 59.6 | 144.8 | 689.8 | 572.1 | 186.9 | -62.0 | -7.2 | 68.8 |
| II ...... | 775.8 | 146.3 | 23.4 | 393.8 | 60.5 | 151.8 | 702.1 | 576.9 | 195.0 | -62.5 | -7.2 | 73.7 |
| III ...... | 791.4 | 147.7 | 24.3 | 403.8 | 61.3 | 154.4 | 714.3 | 581.5 | 203.1 | -63.1 | -7.2 | 77.1 |
| IV ...... | 811.0 | 153.5 | 24.2 | 408.4 | 62.2 | 162.7 | 727.2 | 587.3 | 210.8 | -63.6 | -7.2 | 83.8 |
| 1992: I ........ | 823.4 | 155.7 | 24.3 | 414.9 | 63.1 | 165.4 | 738.6 | 592.6 | 217.7 | -64.5 | -7.2 | 84.8 |
| II ....... | 838.8 | 158.4 | 25.7 | 417.7 | 64.0 | 173.0 | 752.2 | 600.8 | 224.1 | -65.0 | -7.7 | 86.6 |
| III ...... | 847.3 | 159.9 | 21.6 | 427.0 | 64.7 | 174.2 | 765.4 | 607.4 | 231.2 | -64.9 | -8.3 | 82.0 |
| IV ...... | 867.7 | 164.9 | 25.9 | 435.2 | 65.4 | 176.3 | 775.9 | 613.6 | 235.8 | -64.5 | -8.9 | 91.7 |
| 1993: I ........ | 869.0 | 161.4 | 24.0 | 440.4 | 65.9 | 177.3 | 788.5 | 620.8 | 240.3 | -63.1 | -9.5 | 80.5 |
| II ....... | 887.6 | 165.9 | 26.1 | 447.6 | 66.6 | 181.5 | 798.5 | 626.0 | 245.0 | -62.7 | -9.9 | 89.1 |
| III ...... | 901.9 | 167.3 | 25.7 | 454.5 | 67.2 | 187.2 | 807.0 | 630.8 | 249.0 | -62.1 | -10.6 | 94.9 |
| IV ...... | 929.7 | 170.4 | 29.5 | 464.9 | 67.9 | 197.0 | 814.7 | 634.1 | 252.8 | -61.7 | -10.6 | 115.0 |
| 1994: I ........ | 923.6 | 166.2 | 27.1 | 469.3 | 68.8 | 192.2 | 828.8 | 642.4 | 257.4 | -61.6 | -9.3 | 94.8 |
| II ....... | 943.8 | 169.5 | 30.6 | 476.7 | 69.4 | 197.5 | 838.6 | 647.3 | 263.8 | -61.2 | -11.3 | 105.2 |
| III ...... | 953.1 | 170.8 | 32.2 | 483.1 | 70.1 | 196.9 | 853.5 | 655.4 | 270.9 | -61.1 | -11.8 | 99.6 |
| IV ...... | 965.0 | 173.6 | 33.6 | 490.3 | 70.6 | 196.9 | 865.6 | 661.9 | 277.2 | -60.9 | -12.6 | 99.3 |
| 1995: I ........ | 980.9 | 175.5 | 34.2 | 494.3 | 71.1 | 205.8 | 882.0 | 672.1 | 283.6 | -60.7 | -13.1 | 99.0 |
| II....... | 994.8 | 177.0 | 33.5 | 501.3 | 71.6 | 211.3 | 895.8 | 680.1 | 289.0 | -60.1 | -13.3 | 99.0 |
| III ...... | 1,000.5 | 181.0 | 35.4 | 508.1 | 72.2 | 203.8 | 907.6 | 686.5 | 294.3 | -59.9 | -13.2 | 92.8 |

[^64]Table B-82. - State and local government revenues and expenditures, selected fiscal years, 1927-92
[Millions of dollars]

| Fiscal year ${ }^{1}$ | General revenues by source ${ }^{2}$ |  |  |  |  |  |  | General expenditures by function ${ }^{2}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Property taxes | Sales and gross receipts taxes | Individual income taxes | Corporation net income taxes | Revenue from Federal Government | $\begin{gathered} \text { All } \\ \text { other }{ }^{3} \end{gathered}$ | Total | Education | Highways | Public welfare | All other ${ }^{4}$ |
| 1927 | 7,271 | 4,730 | 470 | 70 | 92 | 116 | 1,793 | 7,210 | 2,235 | 1,809 | 151 | 3,015 |
| 1932 | 7,267 | 4,487 | 752 | 74 | 79 | 232 | 1,643 | 7,765 | 2,311 | 1,741 | 444 | 3,269 |
| 1934 | 7,678 | 4,076 | 1,008 | 80 | 49 | 1,016 | 1,449 | 7,181 | 1,831 | 1,509 | 889 | 2,952 |
| 1936 | 8,395 | 4,093 | 1,484 | 153 | 113 | '948 | 1,604 | 7,644 | 2,177 | 1,425 | 827 | 3,215 |
| 1938 | 9,228 | 4,440 | 1,794 | 218 | 165 | 800 | 1,811 | 8,757 | 2,491 | 1,650 | 1,069 | 3,547 |
| 1940 | 9,609 | 4,430 | 1,982 | 224 | 156 | 945 | 1,872 | 9,229 | 2,638 | 1,573 | 1,156 | 3,862 |
| 1942 | 10,418 | 4,537 | 2,351 | 276 | 272 | 858 | 2,123 | 9,190 | 2,586 | 1,490 | 1,225 | 3,889 |
| 1944 | 10,908 | 4,604 | 2,289 | 342 | 451 | 954 | 2,269 | 8,863 | 2,793 | 1,200 | 1,133 | 3,737 |
| 1946 | 12,356 | 4,986 | 2,986 | 422 | 447 | 855 | 2,661 | 11,028 | 3,356 | 1,672 | 1,409 | 4,591 |
| 1948 | 17,250 | 6,126 | 4,442 | 543 | 592 | 1,861 | 3,685 | 17,684 | 5,379 | 3,036 | 2,099 | 7,170 |
| 1950 | 20,911 | 7,349 | 5,154 | 788 | 593 | 2,486 | 4,541 | 22,787 | 7,177 | 3,803 | 2,940 | 8,867 |
| 1952 | 25,181 | 8,652 | 6,357 | 998 | 846 | 2,566 | 5,763 | 26,098 | 8,318 | 4,650 | 2,788 | 10,342 |
| 1953 | 27,307 | 9,375 | 6,927 | 1,065 | 817 | 2,870 | 6,252 | 27,910 | 9,390 | 4,987 | 2,914 | 10,619 |
| 1954 | 29,012 | 9,967 | 7,276 | 1,127 | 778 | 2,966 | 6,897 | 30,701 | 10,557 | 5,527 | 3,060 | 11,557 |
| 1955 | 31,073 | 10,735 | 7,643 | 1,237 | 744 | 3,131 | 7,584 | 33,724 | 11,907 | 6,452 | 3,168 | 12,197 |
| 1956 | 34,667 | 11,749 | 8,691 | 1,538 | 890 | 3,335 | 8,465 | 36,711 | 13,220 | 6,953 | 3,139 | 13,399 |
| 1957 | 38,164 | 12,864 | 9,467 | 1,754 | 984 | 3,843 | 9,252 | 40,375 | 14,134 | 7,816 | 3,485 | 14,940 |
| 1958 | 41,219 | 14,047 | 9,829 | 1,759 | 1,018 | 4,865 | 9,699 | 44,851 | 15,919 | 8,567 | 3,818 | 16,547 |
| 1959 | 45,306 | 14,983 | 10,437 | 1,994 | 1,001 | 6,377 | 10,516 | 48,887 | 17,283 | 9,592 | 4,136 | 17,876 |
| 1960 | 50,505 | 16,405 | 11,849 | 2,463 | 1,180 | 6,974 | 11,634 | 51,876 | 18,719 | 9,428 | 4,404 | 19,325 |
| 1961 | 54,037 | 18,002 | 12,463 | 2,613 | 1,266 | 7,131 | 12,563 | 56,201 | 20,574 | 9,844 | 4,720 | 21,063 |
| 1962 | 58,252 | 19,054 | 13,494 | 3,037 | 1,308 | 7,871 | 13,489 | 60,206 | 22,216 | 10,357 | 5,084 | 22,549 |
| 1963 | 62,890 | 20,089 | 14,456 | 3,269 | 1,505 | 8,722 | 14,850 | 64,816 | 23,776 | 11,136 | 5,481 | 24,423 |
| 1962-63 | 62,269 | 19,833 | 14,446 | 3,267 | 1,505 | 8,663 | 14,556 | 63,977 | 23,729 | 11,150 | 5,420 | 23,678 |
| 1963-64 | 68,443 | 21,241 | 15,762 | 3,791 | 1,695 | 10,002 | 15,951 | 69,302 | 26,286 | 11,664 | 5,766 | 25,586 |
| 1964-65 | 74,000 | 22,583 | 17,118 | 4,090 | 1,929 | 11,029 | 17,250 | 74,678 | 28,563 | 12,221 | 6,315 | 27,579 |
| 1965-66 | 83,036 | 24,670 | 19,085 | 4,760 | 2,038 | 13,214 | 19,269 | 82,843 | 33,287 | 12,770 | 6,757 | 30,029 |
| 1966-67 | 91,197 | 26,047 | 20,530 | 5,825 | 2,227 | 15,370 | 21,197 | 93,350 | 37,919 | 13,932 | 8,218 | 33,281 |
| 1967-68 | 101,264 | 27,747 | 22,911 | 7,308 | 2,518 | 17,181 | 23,598 | 102,411 | 41,158 | 14,481 | 9,857 | 36,915 |
| 1968-69 | 114,550 | 30,673 | 26,519 | 8,908 | 3,180 | 19,153 | 26,118 | 116,728 | 47,238 | 15,417 | 12,110 | 41,963 |
| 1969-70 | 130,756 | 34,054 | 30,322 | 10,812 | 3,738 | 21,857 | 29,971 | 131,332 | 52,718 | 16,427 | 14,679 | 47,508 |
| 1970-71.. | 144,927 | 37,852 | 33,233 | 11,900 | 3,424 | 26,146 | 32,374 | 150,674 | 59,413 | 18,095 | 18,226 | 54,940 |
| 1971-72.. | 167,541 | 42,877 | 37,518 | 15,227 | 4,416 | 31,342 | 36,162 | 168,549 | 65,814 | 19,021 | 21,117 | 62,597 |
| 1972-73.. | 190,222 | 45,283 | 42,047 | 17,994 | 5,425 | 39,264 | 40,210 | 181,357 | 69,714 | 18,615 | 23,582 | 69,446 |
| 1973-74 ... | 207,670 | 47,705 | 46,098 | 19,491 | 6,015 | 41,820 | 46,541 | 198,959 | 75,833 | 19,946 | 25,085 | 78,096 |
| 1974-75.. | 228,171 | 51,491 | 49,815 | 21,454 | 6,642 | 47,034 | 51,735 | 230,722 | 87,858 | 22,528 | 28,156 | 92,180 |
| 1975-76 | 256,176 | 57,001 | 54,547 | 24,575 | 7,273 | 55,589 | 57,191 | 256,731 | 97,216 | 23,907 | 32,604 | 103,004 |
| 1976-77 | 285,157 | 62,527 | 60,641 | 29,246 | 9,174 | 62,444 | 61,124 | 274,215 | 102,780 | 23,058 | 35,906 | 112,472 |
| 1977-78 | 315,960 | 66,422 | 67,596 | 33,176 | 10,738 | 69,592 | 68,436 | 296,984 | 110,758 | 24,609 | 39,140 | 122,477 |
| 1978-79 | 343,236 | 64,944 | 74,247 | 36,932 | 12,128 | 75,164 | 79,821 | 327,517 | 119,448 | 28,440 | 41,898 | 137,731 |
| 1979-80 ..... | 382,322 | 68,499 | 79,927 | 42,080 | 13,321 | 83,029 | 95,466 | 369,086 | 133,211 | 33,311 | 47,288 | 155,277 |
| 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 | 128,926 | 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 | 205,079 |
| 1983-84 | 542,730 | 96,457 | 114,097 | 64,529 | 17,141 | 96,935 | 153,570 | 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 | 317,528 |
| 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 |
| 1989-90 | 849,502 | 155,613 | 177,885 | 105,640 | 23,566 | 136,802 | 249,996 | 834,818 | 288,148 | 61,057 | 110,518 | 375,095 |
| 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 .......... | 973,326 | 178,412 | 196,417 | 115,556 | 23,833 | 179,209 | 279,898 | 975,848 | 326,275 | 66,689 | 158,212 | 424,672 |

[^65]Data are not available for intervening years.
Source: Department of Commerce, Bureau of the Census.

Table B-83.-Interet-bearing public debt searities by kind of obligation, 1967-95
[Millions of dollars]

| End of year or month | Total interestbearing public debt securities | Marketable |  |  |  | Nonmarketable |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total ${ }^{1}$ | Treasury bills | Treasury notes | Treasury bonds | Total | U.S. savings bonds | Foreign government and public series ${ }^{2}$ | Government account series | Other ${ }^{3}$ |
| Fiscal year: $\begin{aligned} & 1967 \text {................. } \\ & 1968 \text {............... } \\ & 1969 \text {............ } \end{aligned}$ | $\begin{aligned} & 322,286 \\ & 344,401 \\ & 351,729 \end{aligned}$ | $\begin{array}{r} 4210,672 \\ 226,592 \\ 226,107 \end{array}$ | $\begin{aligned} & 58,535 \\ & 64,440 \\ & 68,356 \end{aligned}$ | $\begin{aligned} & 49,108 \\ & 71,073 \\ & 78,946 \end{aligned}$ | $\begin{aligned} & 97,418 \\ & 91,079 \\ & 78,805 \end{aligned}$ | $\begin{aligned} & 111,614 \\ & 117,808 \\ & 125,623 \end{aligned}$ | $\begin{aligned} & 51,213 \\ & 51,712 \\ & 51,711 \end{aligned}$ | $\begin{aligned} & 1,514 \\ & 3,741 \\ & 4,070 \end{aligned}$ | $\begin{aligned} & 56,155 \\ & 59,526 \\ & 66,790 \end{aligned}$ | $\begin{aligned} & 2,732 \\ & 2,829 \\ & 3,052 \end{aligned}$ |
| $\begin{aligned} & 1970 \text {................... } \\ & 1971 \text {.............. } \\ & 1972 \\ & 1973 \\ & 1974 \\ & 197 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~ \end{aligned}$ | $\begin{aligned} & 369,026 \\ & 396,289 \\ & 425,360 \\ & 456,353 \\ & 473,238 \end{aligned}$ | $\begin{aligned} & 232,599 \\ & 245,473 \\ & 257,202 \\ & 262,971 \\ & 266,575 \end{aligned}$ | $\begin{array}{r} 76,154 \\ 8,677 \\ 94,648 \\ 100,061 \\ 105,019 \end{array}$ | $\begin{array}{r} 93,489 \\ 104,807 \\ 113,419 \\ 117,840 \\ 128,419 \end{array}$ | $\begin{aligned} & 62,956 \\ & 53,989 \\ & 49,135 \\ & 45,071 \\ & 33,137 \end{aligned}$ | $\begin{aligned} & 136,426 \\ & 150,816 \\ & 168,158 \\ & 193,382 \\ & 206,663 \end{aligned}$ | $\begin{aligned} & 51,281 \\ & 53,003 \\ & 55,921 \\ & 59,418 \\ & 61,921 \end{aligned}$ | $\begin{array}{r} 4,755 \\ 9,270 \\ 18,985 \\ 28,524 \\ 25,011 \end{array}$ | $\begin{array}{r} 76,323 \\ 82,784 \\ 89,598 \\ 101,738 \\ 115,442 \end{array}$ | $\begin{aligned} & 4,067 \\ & 5,759 \\ & 3,654 \\ & 3,702 \\ & 4,289 \end{aligned}$ |
|  | $\begin{aligned} & 532,122 \\ & 619,254 \\ & 697,629 \\ & 766,971 \\ & 819,007 \end{aligned}$ | $\begin{aligned} & 315,606 \\ & 392,581 \\ & 443,508 \\ & 485,155 \\ & 506,693 \end{aligned}$ | $\begin{aligned} & 128,569 \\ & 161,198 \\ & 156,091 \\ & 160,936 \\ & 161,378 \end{aligned}$ | $\begin{aligned} & 150,257 \\ & 191,758 \\ & 241,692 \\ & 267,865 \\ & 274,242 \end{aligned}$ | $\begin{aligned} & 36,779 \\ & 39,626 \\ & 45,724 \\ & 56,355 \\ & 71,073 \end{aligned}$ | $\begin{aligned} & 216,516 \\ & 22,673 \\ & 254,121 \\ & 281,816 \\ & 312,314 \end{aligned}$ | $\begin{aligned} & 65,482 \\ & 69,733 \\ & 75,411 \\ & 79,798 \\ & 80,440 \end{aligned}$ | $\begin{aligned} & 23,216 \\ & 21,500 \\ & 21,799 \\ & 21,680 \\ & 28,115 \end{aligned}$ | $\begin{aligned} & 124,173 \\ & 130,557 \\ & 140,113 \\ & 153,271 \\ & 176,360 \end{aligned}$ | $\begin{array}{r} 3,645 \\ 4,883 \\ 16,798 \\ 27,067 \\ 27,399 \end{array}$ |
| 1980 .................. | $\begin{array}{r} 906,402 \\ 996,495 \\ 1,140,883 \\ 1,375,751 \\ 1,559,570 \end{array}$ | $\begin{array}{r} 594,506 \\ 683,209 \\ 824,422 \\ 1,024,000 \\ 1,176,556 \end{array}$ | $\begin{aligned} & 199,832 \\ & 223,388 \\ & 277,900 \\ & 340,733 \\ & 356,798 \end{aligned}$ | $\begin{aligned} & 310,903 \\ & 363,643 \\ & 442,890 \\ & 557,525 \\ & 661,687 \end{aligned}$ | $\begin{array}{r} 83,772 \\ 96,178 \\ 103,631 \\ 125,742 \\ 158,070 \end{array}$ | $\begin{aligned} & 311,896 \\ & 313,286 \\ & 316,461 \\ & 351,751 \\ & 383,015 \end{aligned}$ | $\begin{aligned} & 72,727 \\ & 68,017 \\ & 67,274 \\ & 70,024 \\ & 72,832 \end{aligned}$ | $\begin{array}{r} 25,158 \\ 20,499 \\ 14,641 \\ 11,450 \\ 8,806 \end{array}$ | $\begin{aligned} & 189,848 \\ & 201,052 \\ & 210,462 \\ & 234,684 \\ & 259,534 \end{aligned}$ | $\begin{aligned} & 24,163 \\ & 23,718 \\ & 24,084 \\ & 35,593 \\ & 41,843 \end{aligned}$ |
| $\begin{aligned} & 1985 \text {... } \\ & 1986 \text {... } \\ & 1987 \\ & 1988 \\ & 1989 \text {... } \end{aligned}$ | $\begin{aligned} & 1,821,010 \\ & 2,122,684 \\ & 2,347,750 \\ & 2,599,877 \\ & 2,836,309 \end{aligned}$ | $\begin{array}{r} 1,360,179 \\ 11,564,329 \\ 11,675,980 \\ 11,802,905 \\ 11,892,763 \end{array}$ | $\begin{aligned} & 384,220 \\ & 410,730 \\ & 378,263 \\ & 398,451 \\ & 406,597 \end{aligned}$ | $\begin{array}{r} 776,449 \\ 896,884 \\ 1,005,127 \\ 1,089,578 \\ 1,133,193 \end{array}$ | $\begin{aligned} & 199,510 \\ & 241,716 \\ & 277,590 \\ & 299,875 \\ & 337,974 \end{aligned}$ | $\begin{aligned} & 460,831 \\ & 558,355 \\ & 671,769 \\ & 796,972 \\ & 943,546 \end{aligned}$ | $\begin{array}{r} 77,011 \\ 8,551 \\ 97,004 \\ 106,176 \\ 114,025 \end{array}$ | $\begin{aligned} & 6,638 \\ & 4,128 \\ & 4,350 \\ & 6,320 \\ & 6,818 \end{aligned}$ | $\begin{aligned} & 313,928 \\ & 365,872 \\ & 440,658 \\ & 536,455 \\ & 663,677 \end{aligned}$ | $\begin{array}{r} 63,254 \\ 102,804 \\ 129,757 \\ 148,021 \\ 159,026 \end{array}$ |
| 1990 .................. | $\begin{aligned} & 3,210,943 \\ & 3,662,759 \\ & 4,061,801 \\ & 4,408,567 \\ & 4,689,524 \end{aligned}$ | $\begin{aligned} & 12,092,759 \\ & 12,390,660 \\ & 12,677,476 \\ & 12,904,910 \\ & 13,091,602 \end{aligned}$ | $\begin{aligned} & 482,454 \\ & 564,589 \\ & 634,287 \\ & 658,381 \\ & 697,295 \end{aligned}$ | $\begin{aligned} & 1,218,081 \\ & 1,387,717 \\ & 1,566,349 \\ & 1,734,161 \\ & 1,867,507 \end{aligned}$ | $\begin{aligned} & 377,224 \\ & 423,354 \\ & 461,840 \\ & 497,367 \\ & 511,800 \end{aligned}$ | $\begin{aligned} & 1,118,184 \\ & 1,272,099 \\ & 1,384,325 \\ & 1,503,657 \\ & 1,597,922 \end{aligned}$ | $\begin{aligned} & 122,152 \\ & 133,512 \\ & 148,266 \\ & 167,024 \\ & 176,413 \end{aligned}$ | $\begin{aligned} & 36,041 \\ & 41,639 \\ & 37,039 \\ & 42,459 \\ & 41,996 \end{aligned}$ | $\begin{array}{r} 779,412 \\ 908,406 \\ 1,011,020 \\ 1,114,289 \\ 1,211,689 \end{array}$ | $\begin{aligned} & 180,579 \\ & 188,542 \\ & 188,000 \\ & 179,885 \\ & 167,824 \end{aligned}$ |
| 1995 .... | 4,950,644 | 13,260,447 | 742,462 | 1,980,343 | 522,643 | 1,690,197 | 181,181 | 40,950 | 1,324,270 | 143,796 |
| 1994: Jan ............... | $4,523,027$ $4,556,241$ $4,572,619$ $4,548,547$ $4,605,977$ $4,642,523$ | $\begin{aligned} & 12,986,024 \\ & 13,017,122 \\ & 13,042,902 \\ & 13,003,364 \\ & 13,046,277 \\ & 13,050,989 \end{aligned}$ | $\begin{aligned} & 702,292 \\ & 700,686 \\ & 721,146 \\ & 705,340 \\ & 700,228 \\ & 698,446 \end{aligned}$ | $\begin{aligned} & 1,772,877 \\ & 1,797,213 \\ & 1,802,537 \\ & 1,778,805 \\ & 1,829,211 \\ & 1,835,705 \end{aligned}$ | $\begin{aligned} & 495,855 \\ & 504,223 \\ & 504,219 \\ & 504,219 \\ & 501,838 \\ & 501,837 \end{aligned}$ | $\begin{aligned} & 1,537,002 \\ & 1,539,120 \\ & 1,529,717 \\ & 1,545,183 \\ & 1,559,700 \\ & 1,591,534 \end{aligned}$ | $\begin{aligned} & 170,736 \\ & 1717,750 \\ & 172,632 \\ & 173,533 \\ & 174,237 \\ & 174,859 \end{aligned}$ | $\begin{aligned} & 43,222 \\ & 42,724 \\ & 42,724 \\ & 42,708 \\ & 42,517 \\ & 42,229 \end{aligned}$ | $\begin{aligned} & 1,147,831 \\ & 1,148,964 \\ & 1,138,405 \\ & 1,152,758 \\ & 1,167,948 \\ & 1,200,606 \end{aligned}$ | $\begin{aligned} & 175,213 \\ & 175,682 \\ & 175,956 \\ & 176,184 \\ & 174,998 \\ & 173,840 \end{aligned}$ |
| July <br> Aug $\qquad$ <br> Sept $\qquad$ <br> Oct <br> Nov $\qquad$ <br> Dec $\qquad$ | $4,616,171$ $4,688,745$ $4,689,524$ $4,730,969$ $4,775,318$ $4,769,171$ | $\begin{aligned} & 13,034,469 \\ & 13,103,702 \\ & 13,091,602 \\ & 13,123,224 \\ & 13,164,390 \\ & 13,126,035 \end{aligned}$ | $\begin{aligned} & 706,064 \\ & 716,177 \\ & 697,295 \\ & 721,149 \\ & 745,294 \\ & 733,753 \end{aligned}$ | $\begin{aligned} & 1,811,569 \\ & 1,860,724 \\ & 1,867,507 \\ & 1,875,275 \\ & 1,893,798 \\ & 1,866,986 \end{aligned}$ | $\begin{aligned} & 501,837 \\ & 511,800 \\ & 511,800 \\ & 511,799 \\ & 510,297 \\ & 510,296 \end{aligned}$ | $\begin{aligned} & 1,581,702 \\ & 1,585,043 \\ & 1,597,922 \\ & 1,607,746 \\ & 1,610,928 \\ & 1,643,137 \end{aligned}$ | $\begin{aligned} & 175,460 \\ & 175,915 \\ & 176,413 \\ & 177,187 \\ & 177,755 \\ & 177,786 \end{aligned}$ | $\begin{aligned} & 41,924 \\ & 41,788 \\ & 41,996 \\ & 42,880 \\ & 42,683 \\ & 42,471 \end{aligned}$ | $\begin{aligned} & 1,194,806 \\ & 1,198,058 \\ & 1,211,689 \\ & 1,221,401 \\ & 1,2259,944 \\ & 1,259,827 \end{aligned}$ | $\begin{aligned} & 169,512 \\ & 169,282 \\ & 167,824 \\ & 166,278 \\ & 164,546 \\ & 163,053 \end{aligned}$ |
| 1995:Jan ............... | $\begin{aligned} & 4,812,208 \\ & 4,850,521 \\ & 4,860,502 \\ & 4,831,533 \\ & 4,900,346 \\ & 4,947,814 \end{aligned}$ | $\begin{aligned} & 13,173,398 \\ & 13,211,929 \\ & 13,227,333 \\ & 13,182,253 \\ & 13,241,464 \\ & 13,252,620 \end{aligned}$ | $\begin{aligned} & 741,771 \\ & 756,351 \\ & 756,447 \\ & 735,178 \\ & 750,702 \\ & 748,302 \end{aligned}$ | $\begin{aligned} & 1,906,332 \\ & 1,922,913 \\ & 1,938,223 \\ & 1,914,413 \\ & 1,961,107 \\ & 1,974,663 \end{aligned}$ | $\begin{aligned} & 510,294 \\ & 517,665 \\ & 517,664 \\ & 517,662 \\ & 514,655 \\ & 514,654 \end{aligned}$ | $\begin{aligned} & 1,638,810 \\ & 1,638,593 \\ & 1,633,169 \\ & 1,649,279 \\ & 1,658,881 \\ & 1,695,194 \end{aligned}$ | $\begin{aligned} & 178,041 \\ & 178,465 \\ & 178,839 \\ & 179,458 \\ & 179,824 \\ & 180,136 \end{aligned}$ | $\begin{aligned} & 42,536 \\ & 42,979 \\ & 41,797 \\ & 41,662 \\ & 41,614 \\ & 41,442 \end{aligned}$ | $\begin{aligned} & 1,262,642 \\ & 1,262,711 \\ & 1,25,184 \\ & 1,275,568 \\ & 1,283,765 \\ & 1,322,041 \end{aligned}$ | $\begin{aligned} & 155,591 \\ & 154,438 \\ & 153,349 \\ & 152,591 \\ & 153,678 \\ & 151,575 \end{aligned}$ |
| July $\qquad$ <br> Aug $\qquad$ <br> Sept $\qquad$ <br> Oct $\qquad$ <br> Nov $\qquad$ <br> Dec $\qquad$ | $4,9566,625$ $4,967,192$ $4,950,644$ $4,981,739$ $4,985,790$ $4,964,371$ | $\begin{aligned} & 13,270,977 \\ & 13,286,057 \\ & 13,260,447 \\ & 13,293,172 \\ & 13,351,483 \\ & 13,307,179 \end{aligned}$ | $\begin{aligned} & 759,354 \\ & 750,167 \\ & 742,462 \\ & 738,605 \\ & 785,682 \\ & 760,680 \end{aligned}$ | $\begin{aligned} & 1,981,968 \\ & 1,998,247 \\ & 1,980,343 \\ & 2,016,925 \\ & 2,029,642 \\ & 2,010,340 \end{aligned}$ | $\begin{aligned} & 514,654 \\ & 522,643 \\ & 522,643 \\ & 522,642 \\ & 521,159 \\ & 521,158 \end{aligned}$ | $\begin{aligned} & 1,685,648 \\ & 1,689,135 \\ & 1,690,197 \\ & 1,688,567 \\ & 1,634,308 \\ & 1,657,191 \end{aligned}$ | $\begin{aligned} & 180,547 \\ & 180,785 \\ & 181,181 \\ & 181,819 \\ & 182,203 \\ & 181,918 \end{aligned}$ | $\begin{aligned} & 41,237 \\ & 41,261 \\ & 40,950 \\ & 40,800 \\ & 40,800 \\ & 40,805 \end{aligned}$ | $\begin{aligned} & 1,320,685 \\ & 1,314,973 \\ & 1,324,270 \\ & 1,325,155 \\ & 1,273,059 \\ & 1,299,585 \end{aligned}$ | $\begin{aligned} & 143,179 \\ & 144,116 \\ & 143,796 \\ & 140,793 \\ & 138,246 \\ & 134,883 \end{aligned}$ |

[^66]TAbLe B-84.- M aturity distribution and average length of marketable interest-berring public debt searities held by private investors, 1967-95

| End of year or month | Amount outstanding, privately held | Maturity class |  |  |  |  | Average length |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Within 1 year | $\begin{aligned} & 1 \text { to } 5 \\ & \text { years } \end{aligned}$ | 5 to 10 years | $\begin{gathered} 10 \text { to } 20 \\ \text { years } \end{gathered}$ | 20 years and over |  |  |
|  | Millions of dollars |  |  |  |  |  | Years | Months |
| Fiscal year: |  |  |  |  |  |  |  |  |
| 1967 | 150,321 | 56,561 | 53,584 | 21,057 | 6,153 | 12,968 | 5 | 1 |
| 1968 | 159,671 | 66,746 | 52,295 | 21,850 | 6,110 | 12,670 | 4 | 5 |
| 1969 ............................................ | 156,008 | 69,311 | 50,182 | 18,078 | 6,097 | 12,337 | 4 | 2 |
| 1970 | 157,910 | 76,443 | 57,035 | 8,286 | 7,876 | 8,272 | 3 | 8 |
| 1971 | 161,863 | 74,803 | 58,557 | 14,503 | 6,357 | 7,645 | 3 | 6 |
| 1972 | 165,978 | 79,509 | 57,157 | 16,033 | 6,358 | 6,922 | 3 | 3 |
| 1973 | 167,869 | 84,041 | 54,139 | 16,385 | 8,741 | 4,564 | 3 | 1 |
| 1974 ........................................... | 164,862 | 87,150 | 50,103 | 14,197 | 9,930 | 3,481 | 2 | 11 |
| 1975 | 210,382 | 115,677 | 65,852 | 15,385 | 8,857 | 4,611 | 2 | 8 |
| 1976 | 279,782 | 150,296 | 90,578 | 24,169 | 8,087 | 6,652 | 2 | 7 |
| 1977 | 326,674 | 161,329 | 113,319 | 33,067 | 8,428 | 10,531 | 2 | 11 |
| 1978 ........................................... | 356,501 | 163,819 | 132,993 | 33,500 | 11,383 | 14,805 | 3 | 3 |
| 1979 ............................................ | 380,530 | 181,883 | 127,574 | 32,279 | 18,489 | 20,304 | 3 | 7 |
| 1980 ............................................. | 463,717 | 220,084 | 156,244 | 38,809 | 25,901 | 22,679 | 3 | 9 |
| 1981 ........................................... | 549,863 | 256,187 | 182,237 | 48,743 | 32,569 | 30,127 | 4 | 0 |
| 1982 ........................................... | 682,043 | 314,436 | 221,783 | 75,749 | 33,017 | 37,058 | 3 | 11 |
| 1983 ........................................... | 862,631 | 379,579 | 294,955 | 99,174 | 40,826 | 48,097 | 4 | 1 |
| 1984 ............................................. | 1,017,488 | 437,941 | 332,808 | 130,417 | 49,664 | 66,658 | 4 | 6 |
| 1985 | 1,185,675 | 472,661 | 402,766 | 159,383 | 62,853 | 88,012 | 4 | 11 |
| 1986 | 1,354,275 | 506,903 | 467,348 | 189,995 | 70,664 | 119,365 | 5 | 3 |
| 1987 | 1,445,366 | 483,582 | 526,746 | 209,160 | 72,862 | 153,016 | 5 | 9 |
| 1988 ........................................... | 1,555,208 | 524,201 | 552,993 | 232,453 | 74,186 | 171,375 | 5 | 9 |
| 1989 ............................................ | 1,654,660 | 546,751 | 578,333 | 247,428 | 80,616 | 201,532 | 6 | 0 |
| 1990 | 1,841,903 | 626,297 | 630,144 | 267,573 | 82,713 | 235,176 | 6 | 1 |
| 1991 | 2,113,799 | 713,778 | 761,243 | 280,574 | 84,900 | 273,304 | 6 | 0 |
| 1992 | 2,363,802 | 808,705 | 866,329 | 295,921 | 84,706 | 308,141 | 5 | 11 |
| 1993 | 2,562,336 | 858,135 | 978,714 | 306,663 | 94,345 | 324,479 | 5 | 10 |
| 1994 | 2,719,861 | 877,932 | 1,128,322 | 289,998 | 88,208 | 335,401 | 5 | 8 |
| 1995 | 2,870,781 | 1,002,875 | 1,157,492 | 290,111 | 87,297 | 333,006 | 5 | 4 |
| 1994:Jan .............................................. | 2,628,451 | 894,898 | 1,029,878 | 296,604 | 86,408 | 320,663 | 5 | 7 |
| Feb | 2,661,872 | 899,813 | 1,041,195 | 300,082 | 86,573 | 334,208 | 5 | 9 |
| Mar ........................................... | 2,683,420 | 908,889 | 1,054,336 | 299,433 | 86,355 | 334,407 | 5 | 8 |
| Apr ............................................. | 2,639,251 | 887,454 | 1,041,071 | 289,963 | 86,355 | 334,407 | 5 | 8 |
| May ............................................... | 2,680,916 | 893,359 | 1,076,198 | 295,356 | 87,866 | 328,138 | 5 | 8 |
| June ........................................... | 2,676,695 | 878,396 | 1,087,030 | 295,184 | 87,702 | 328,383 | 5 | 7 |
| July ............................................ | 2,667,897 | 888,349 | 1,076,723 | 286,051 | 87,621 | 329,153 | 5 | 7 |
| Aug ................................................ | 2,731,481 | 899,256 | 1,116,418 | 292,971 | 88,235 | 334,601 | 5 | 8 |
| Sept ........................................... | 2,719,861 | 877,932 | 1,128,322 | 289,998 | 88,208 | 335,401 | 5 | 8 |
| Oct ............................................. | 2,750,705 | 904,001 | 1,144,298 | 279,896 | 88,058 | 334,451 | 5 | 7 |
| Nov ............................................ | 2,782,099 | 926,834 | 1,149,907 | 290,468 | 84,856 | 330,035 | 5 | 6 |
| Dec ............................... | 2,737,789 | 906,618 | 1,130,084 | 288,781 | 84,157 | 328,150 | 5 | 6 |
| 1995:Jan ............................................ | 2,791,905 | 927,146 | 1,169,586 | 280,372 | 84,832 | 329,970 | 5 | 5 |
| Feb ............................................ | 2,829,671 | 950,006 | 1,170,648 | 283,190 | 96,284 | 329,543 | 5 | 5 |
| Mar ............................................ | 2,841,506 | 963,767 | 1,171,125 | 280,798 | 96,284 | 329,533 | 5 | 5 |
| Apr .............................................. | 2,795,125 | 952,570 | 1,148,083 | 269,784 | 95,990 | 328,699 | 5 | 5 |
| May ........................................... | 2,851,360 | 980,967 | 1,173,686 | 278,581 | 89,857 | 328,269 | 5 | 5 |
| June ............................................. | 2,847,129 | 980,975 | 1,170,628 | 277,926 | 89,447 | 328,153 | 5 | 4 |
| July ........................................... | 2,878,926 | 1,007,159 | 1,174,571 | 278,600 | 89,897 | 328,699 | 5 | 3 |
| Aug ........................................... | 2,896,671 | 1099,545 | 1,187,061 | 290,211 | 86,847 | 333,006 | 5 | 5 |
| Sept ............................................. | 2,870,781 | 1,002,875 | 1,157,492 | 290,111 | 87,297 | 333,006 | 5 | 4 |
| Oct | 2,901,629 | 1,007,132 | 1,182,933 | 290,311 | 87,397 | 333,856 | 5 | 4 |
| Nov ................................................ | 2,954,168 | 1,065,179 | 1,176,195 | 292,576 | 93,490 92636 | 326,727 324 | 5 5 | 3 3 |
| Dec ................................................ | 2,901,387 | 1,049,518 | 1,142,392 | 291,881 | 92,636 | 324,959 | 5 | 3 |

Note.- All issues classified to final maturity.
Through fiscal year 1976, the fiscal year was on a July 1-June 30 basis; beginning October 1976 (fiscal year 1977), the fiscal year is on an October 1-September 30 basis.
Source: Department of the Treasury.

Table B-85.-Estimated ownership of public debt securities by private investors, 1976-95
[Par values; ${ }^{1}$ billions of dollars]

| End of month | Held by private investors |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Com- <br> mer- <br> cial <br> banks ${ }^{2}$ | Nonbank investors |  |  |  |  |  |  |  |  |  |
|  |  |  | Total | Individuals ${ }^{3}$ |  |  | Insurance companies | Money market funds | Corp-orations ${ }^{5}$ | State and local governments ${ }^{6}$ | Foreign and international ${ }^{7}$ | Other investors ${ }^{8}$ |
|  |  |  |  | Total | Savings bonds ${ }^{4}$ | Other securities |  |  |  |  |  |  |
| $\begin{aligned} & \text { 1976: June ..................... } \\ & \text { Dec .............. } \end{aligned}$ | $\begin{aligned} & 376.4 \\ & 409.5 \end{aligned}$ | $\begin{array}{r} 92.5 \\ 103.8 \end{array}$ | $\begin{aligned} & 283.9 \\ & 305.7 \end{aligned}$ | $\begin{array}{r} 96.1 \\ 101.6 \end{array}$ | $\begin{aligned} & 69.6 \\ & 72.0 \end{aligned}$ | $\begin{aligned} & 26.5 \\ & 29.6 \end{aligned}$ | $\begin{aligned} & 10.7 \\ & 12.7 \end{aligned}$ | 0.8 1.1 | $\begin{aligned} & 23.3 \\ & 23.5 \end{aligned}$ | 32.7 39.3 | 69.8 78.1 | 50.5 49.4 |
| $\begin{gathered} \text { 1977: June .................... } \\ \text { Dec ............... } \end{gathered}$ | $\begin{aligned} & 421.0 \\ & 461.3 \end{aligned}$ | $\begin{aligned} & 102.9 \\ & 102.0 \end{aligned}$ | $\begin{aligned} & 318.1 \\ & 359.3 \end{aligned}$ | $\begin{aligned} & 104.9 \\ & 107.8 \end{aligned}$ | $\begin{aligned} & 74.4 \\ & 76.7 \end{aligned}$ | 30.5 31.1 | 13.0 15.1 | . 8 | 22.1 18.2 | 49.6 59.1 | $\begin{array}{r} 87.9 \\ 109.6 \end{array}$ | 39.8 48.6 |
| $\begin{gathered} \text { 1978: June ..................... } \\ \text { Dec .............. } \end{gathered}$ | $\begin{aligned} & 477.8 \\ & 508.6 \end{aligned}$ | $\begin{aligned} & 99.6 \\ & 95.3 \end{aligned}$ | $\begin{aligned} & 378.2 \\ & 413.3 \end{aligned}$ | $\begin{aligned} & 109.0 \\ & 114.0 \end{aligned}$ | 79.1 80.7 | 29.9 33.3 | 14.2 15.3 | 1.3 1.5 | 17.3 17.3 | 69.6 81.1 | 119.5 | 47.3 51.0 |
| $\begin{gathered} \text { 1979: June ...................... } \\ \text { Dec .............. } \end{gathered}$ | $\begin{aligned} & 516.6 \\ & 540.5 \end{aligned}$ | $\begin{aligned} & 94.6 \\ & 95.6 \end{aligned}$ | $\begin{aligned} & 422.0 \\ & 444.9 \end{aligned}$ | $\begin{aligned} & 115.5 \\ & 118.0 \end{aligned}$ | $\begin{aligned} & 80.6 \\ & 79.9 \end{aligned}$ | $\begin{array}{r} 34.9 \\ 38.1 \end{array}$ | 16.0 15.6 | 3.8 5.6 | 18.6 17.0 | 102.7 100.2 | 114.9 119.0 | 50.5 69.5 |
| $\begin{aligned} & \text { 1980: June ...................... } \\ & \text { Dec .............. } \end{aligned}$ | $\begin{aligned} & 558.2 \\ & 616.4 \end{aligned}$ | $\begin{array}{r} 98.5 \\ 111.5 \end{array}$ | $\begin{aligned} & 459.7 \\ & 504.9 \end{aligned}$ | $\begin{aligned} & 116.5 \\ & 117.1 \end{aligned}$ | $\begin{aligned} & 73.4 \\ & 72.5 \end{aligned}$ | 43.1 44.6 | 15.3 18.1 | 5.3 3.5 | 14.0 19.3 | 100.1 | 118.2 129.7 | 90.3 103.0 |
| $\begin{aligned} & \text { 1981: June ..................... } \\ & \text { Dec .............. } \end{aligned}$ | $\begin{aligned} & 651.2 \\ & 694.5 \end{aligned}$ | $\begin{aligned} & 115.0 \\ & 113.8 \end{aligned}$ | $\begin{aligned} & 536.2 \\ & 580.7 \end{aligned}$ | $\begin{aligned} & 107.4 \\ & 110.8 \end{aligned}$ | $\begin{aligned} & 69.2 \\ & 68.1 \end{aligned}$ | $\begin{aligned} & 38.2 \\ & 42.7 \end{aligned}$ | 19.9 | 9.0 21.5 | 19.9 17.9 | $\begin{aligned} & 125.6 \\ & 133.4 \end{aligned}$ | $\begin{aligned} & 136.6 \\ & 136.6 \end{aligned}$ | 117.8 138.9 |
| 1982: June <br> Dec | $\begin{aligned} & 740.9 \\ & 848.4 \end{aligned}$ | $\begin{aligned} & 114.7 \\ & 134.0 \end{aligned}$ | $\begin{aligned} & 626.2 \\ & 714.4 \end{aligned}$ | $\begin{aligned} & 114.1 \\ & 116.5 \end{aligned}$ | $\begin{aligned} & 67.4 \\ & 68.3 \end{aligned}$ | 46.7 48.2 | 24.4 30.6 | 22.4 42.6 | 17.6 24.5 | 155.4 160.7 | 137.2 149.5 | 155.1 190.0 |
| 1983: June $\qquad$ <br> Dec | $\begin{array}{r} 948.6 \\ 1,022.6 \end{array}$ | $\begin{aligned} & 167.4 \\ & 179.5 \end{aligned}$ | $\begin{aligned} & 781.2 \\ & 843.1 \end{aligned}$ | $\begin{aligned} & 121.3 \\ & 133.4 \end{aligned}$ | $\begin{aligned} & 69.7 \\ & 71.5 \end{aligned}$ | 51.6 61.9 | $\begin{aligned} & 37.8 \\ & 46.0 \end{aligned}$ | 28.3 22.8 | 32.8 39.7 | 181.8 | 160.1 166.3 | 219.1 |
| 1984: June $\qquad$ Dec | $\begin{aligned} & 1,102.2 \\ & 1,212.5 \end{aligned}$ | $\begin{aligned} & 180.6 \\ & 181.5 \end{aligned}$ | $\begin{array}{r} 921.6 \\ 1,031.0 \end{array}$ | 142.2 143.8 | 72.9 74.5 | 69.3 69.3 | 51.2 64.5 | 14.9 25.9 | 45.3 50.1 | 219.7 239.9 | 171.6 205.9 | 276.6 300.9 |
| $\begin{aligned} & \text { 1985: June } \\ & \text { Dec . } \end{aligned}$ | $\begin{aligned} & 1,292.0 \\ & 1,417.2 \end{aligned}$ | $\begin{aligned} & 195.6 \\ & 189.4 \end{aligned}$ | $\begin{aligned} & 1,096.4 \\ & 1,227.8 \end{aligned}$ | $\begin{aligned} & 148.7 \\ & 154.8 \end{aligned}$ | $\begin{aligned} & 76.7 \\ & 79.8 \end{aligned}$ | 72.0 75.0 | 69.1 80.5 | 24.8 25.1 | 54.9 59.0 | 272.9 354.1 | 213.8 224.8 | 312.2 329.6 |
| 1986: June ...................... | $\begin{aligned} & 1,502.7 \\ & 1,602.0 \end{aligned}$ | $\begin{aligned} & 194.4 \\ & 197.7 \end{aligned}$ | $\begin{aligned} & 1,308.3 \\ & 1,404.3 \end{aligned}$ | $\begin{aligned} & 159.5 \\ & 162.7 \end{aligned}$ | $\begin{aligned} & 83.8 \\ & 92.3 \end{aligned}$ | 75.7 70.4 | $\begin{array}{r} 87.9 \\ 101.6 \end{array}$ | 22.8 28.6 | 61.2 68.8 | 397.7 436.6 | 250.9 263.4 | 328.2 342.6 |
| $\begin{aligned} & \text { 1987: June .................... } \\ & \text { Dec ............... } \end{aligned}$ | $\begin{aligned} & 1,658.1 \\ & 1,731.4 \end{aligned}$ | 192.5 | $\begin{aligned} & 1,465.6 \\ & 1,537.0 \end{aligned}$ | $\begin{aligned} & 165.6 \\ & 172.4 \end{aligned}$ | $\begin{array}{r} 96.8 \\ 101.1 \end{array}$ | 68.8 71.3 | $\begin{aligned} & 104.7 \\ & 108.1 \end{aligned}$ | 20.6 14.6 | 79.7 84.6 | 482.7 490.3 | 281.1 | 331.2 367.3 |
| $\begin{aligned} & \text { 1988: June .......................................... } \\ & \text { Dec .... } \end{aligned}$ | $\begin{aligned} & 1,786.7 \\ & 1,858.5 \end{aligned}$ | $\begin{aligned} & 190.8 \\ & 185.3 \end{aligned}$ | $\begin{aligned} & 1,595.9 \\ & 1,673.2 \end{aligned}$ | $\begin{aligned} & 182.0 \\ & 190.4 \end{aligned}$ | $\begin{aligned} & 106.2 \\ & 109.6 \end{aligned}$ | 75.8 80.8 | 113.5 118.6 | 13.4 11.8 | 87.6 86.0 | 493.0 | 345.4 362.2 | 360.9 411.1 |
| $\begin{gathered} \text { 1989: June ..................... } \\ \text { Dec .............. } \end{gathered}$ | $\begin{aligned} & 1,909.1 \\ & 2,015.8 \end{aligned}$ | $\begin{aligned} & 178.4 \\ & 165.3 \end{aligned}$ | $\begin{aligned} & 1,730.7 \\ & 1,850.5 \end{aligned}$ | 211.7 216.4 | $\begin{aligned} & 114.0 \\ & 117.7 \end{aligned}$ | 97.7 98.7 | 120.6 123.9 | 11.3 14.9 | 91.0 93.4 | 459.9 473.5 | 369.1 429.6 | 467.1 498.8 |
| $\begin{gathered} \text { 1990: June ..................... } \\ \text { Dec .............. } \end{gathered}$ | $\begin{aligned} & 2,141.8 \\ & 2,288.3 \end{aligned}$ | $\begin{aligned} & 177.3 \\ & 172.1 \end{aligned}$ | $\begin{aligned} & 1,964.5 \\ & 2,116.2 \end{aligned}$ | $\begin{array}{r} 229.6 \\ 233.8 \end{array}$ | $\begin{aligned} & 121.9 \\ & 126.2 \end{aligned}$ | $\begin{aligned} & 107.7 \\ & 107.6 \end{aligned}$ | $\begin{aligned} & 133.7 \\ & 138.2 \end{aligned}$ | 28.0 45.5 | $\begin{array}{r} 96.9 \\ 108.9 \end{array}$ | 525.2 531.5 | $\begin{aligned} & 427.3 \\ & 458.4 \end{aligned}$ | $\begin{aligned} & 523.8 \\ & 599.9 \end{aligned}$ |
| $\qquad$ | $\begin{aligned} & 2,360.6 \\ & 2,397.9 \\ & 2,489.4 \\ & 2,563.2 \end{aligned}$ | $\begin{aligned} & 187.5 \\ & 196.2 \\ & 217.5 \\ & 232.5 \end{aligned}$ | $\begin{aligned} & 2,173.1 \\ & 2,201.7 \\ & 2,271.9 \\ & 2,330.7 \end{aligned}$ | $\begin{aligned} & 238.3 \\ & 243.5 \\ & 257.5 \\ & 263.9 \end{aligned}$ | $\begin{aligned} & 129.7 \\ & 133.2 \\ & 135.4 \\ & 138.1 \end{aligned}$ | $\begin{aligned} & 108.6 \\ & 110.3 \\ & 122.1 \\ & 125.8 \end{aligned}$ | 147.2 <br> 156.8 <br> 171.4 <br> 181.8 | 65.4 55.4 64.5 80.0 | $\begin{aligned} & 114.9 \\ & 130.8 \\ & 142.0 \\ & 150.8 \end{aligned}$ | $\begin{aligned} & 548.7 \\ & 550.8 \\ & 561.0 \\ & 568.2 \end{aligned}$ | $\begin{aligned} & 464.3 \\ & 473.6 \\ & 477.3 \\ & 491.7 \end{aligned}$ | 594.3 590.8 599.3 594.3 |
| $\qquad$ | $\begin{aligned} & 2,664.0 \\ & 2,712.4 \\ & 2,765.5 \\ & 2,839.9 \end{aligned}$ | $\begin{aligned} & 255.9 \\ & 267.0 \\ & 287.5 \\ & 294.4 \end{aligned}$ | $\begin{aligned} & 2,408.1 \\ & 2,445.4 \\ & 2,478.0 \\ & 2,545.5 \end{aligned}$ | $\begin{aligned} & 268.1 \\ & 275.1 \\ & 281.2 \\ & 289.2 \end{aligned}$ | $\begin{aligned} & 142.0 \\ & 145.4 \\ & 150.3 \\ & 157.3 \end{aligned}$ | $\begin{aligned} & 126.1 \\ & 129.7 \\ & 130.9 \\ & 131.9 \end{aligned}$ | $\begin{aligned} & 188.4 \\ & 19.8 \\ & 194.8 \\ & 197.5 \end{aligned}$ | 84.8 79.4 79.4 79.7 | $\begin{aligned} & 166.0 \\ & 175.0 \\ & 180.8 \\ & 192.5 \end{aligned}$ | $\begin{aligned} & 587.8 \\ & 588.8 \\ & 586.9 \\ & 579.3 \end{aligned}$ | 507.9 529.6 535.2 549.7 | 605.1 604.7 619.7 657.5 |
| $\qquad$ | $\begin{aligned} & 2,895.0 \\ & 2,938.4 \\ & 2,983.0 \\ & 3,047.4 \end{aligned}$ | $\begin{aligned} & 310.2 \\ & 307.2 \\ & 313.9 \\ & 322.2 \end{aligned}$ | $\begin{aligned} & 2,584.8 \\ & 2,631.2 \\ & 2,669.1 \\ & 2,725.2 \end{aligned}$ | $\begin{aligned} & 297.7 \\ & 303.0 \\ & 305.8 \\ & 309.9 \end{aligned}$ | $\begin{aligned} & 163.6 \\ & 166.5 \\ & 169.1 \\ & 171.9 \end{aligned}$ | $\begin{aligned} & 134.1 \\ & 136.4 \\ & 136.7 \\ & 137.9 \end{aligned}$ | $\begin{aligned} & 208.0 \\ & 217.8 \\ & 229.4 \\ & 234.5 \end{aligned}$ | 77.9 76.2 74.8 80.8 | $\begin{aligned} & 199.3 \\ & 206.1 \\ & 215.6 \\ & 213.0 \end{aligned}$ | 596.9 620.9 627.5 631.9 | 564.2 567.7 591.3 622.9 | 640.9 639.5 623.6 632.3 |
| $\qquad$ | $\begin{aligned} & 3,094.6 \\ & 3,088.2 \\ & 3,127.8 \\ & 3,168.0 \end{aligned}$ | $\begin{aligned} & 344.9 \\ & 330.8 \\ & 313.9 \\ & 290.6 \end{aligned}$ | $\begin{aligned} & 2,749.7 \\ & 2,757.4 \\ & 2,813.9 \\ & 2,877.4 \end{aligned}$ | $\begin{aligned} & 315.1 \\ & 321.1 \\ & 327.2 \\ & 331.2 \end{aligned}$ | $\begin{aligned} & 175.0 \\ & 177.1 \\ & 178.6 \\ & 180.5 \end{aligned}$ | $\begin{aligned} & 140.1 \\ & 144.0 \\ & 148.6 \\ & 150.7 \end{aligned}$ | $\begin{aligned} & 234.5 \\ & 239.9 \\ & 246.2 \\ & 242.8 \end{aligned}$ | 69.3 59.9 59.9 67.6 | $\begin{aligned} & 216.3 \\ & 226.3 \\ & 229.3 \\ & 226.5 \end{aligned}$ | $\begin{aligned} & 626.9 \\ & 614.1 \\ & 568.8 \\ & 521.4 \end{aligned}$ | $\begin{aligned} & 633.3 \\ & 633.1 \\ & 655.6 \\ & 688.6 \end{aligned}$ | 654.3 663.0 726.9 799.3 |
| $\qquad$ | $3,239.2$ $3,245.0$ $3,279.5$ | 307.5 297.7 295.0 | $2,931.7$ $2,947.3$ $2,984.5$ | 342.8 344.2 345.9 | 181.4 182.6 183.5 | 161.4 161.6 162.4 | 249.2 253.5 255.0 | 67.7 58.7 64.2 | 230.3 227.7 224.1 | 503.1 470.9 422.9 | 729.0 784.1 848.1 | 809.5 808.2 824.3 |

[^67]Source: Department of the Treasury.

## CORPORATE PROFITS AND FINANCE

TAble B-86.-Corporate profits with inventory valuation and capital consumption adjustments, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-87.-Corporate profits by industry, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]


[^68]Table B-88.-Corporate profits of manufacturing industries, 1959-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Corporate profits with inventory valuation adjustment and without capital consumption adjustment |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total manufacturing | Durable goods |  |  |  |  |  |  | Nondurable goods |  |  |  |  |
|  |  | Total | Pri- <br> mary <br> metal <br> indus- <br> tries | Fabricated metal products | Indus- <br> trial machinery and equipment | Electronic and other electric equipment | Motor vehicles and equipment | Other | Total | Food and kindred products | Chem- <br> icals <br> and al- <br> lied <br> prod- <br> ucts | Petro- <br> leum and coal products | Other |
| 1959 | 26.5 | 13.7 | 2.3 | 1.1 | 2.2 | 1.7 | 3.0 | 3.5 | 12.8 | 2.5 | 3.5 | 2.6 | 4.3 |
| 1960 | 23.8 | 11.7 | 2.0 | . 8 | 1.8 | 1.3 | 3.0 | 2.8 | 12.1 | 2.2 | 3.1 | 2.6 | 4.2 |
| 1961 | 23.4 | 11.4 | 1.6 | 1.0 | 1.9 | 1.3 | 2.5 | 3.1 | 12.0 | 2.4 | 3.3 | 2.2 | 4.2 |
| 1962 | 26.3 | 14.1 | 1.6 | 1.2 | 2.4 | 1.5 | 4.0 | 3.5 | 12.2 | 2.4 | 3.2 | 2.2 | 4.4 |
| 1963 | 29.6 | 16.4 | 2.0 | 1.3 | 2.5 | 1.6 | 4.9 | 4.0 | 13.2 | 2.7 | 3.7 | 2.2 | 4.7 |
| 1964 .... | 32.4 | 18.0 | 2.5 | 1.4 | 3.3 | 1.7 | 4.6 | 4.5 | 14.4 | 2.7 | 4.1 | 2.3 | 5.3 |
| 1965 | 39.7 | 23.2 | 3.1 | 2.1 | 4.0 | 2.7 | 6.2 | 5.2 | 16.4 | 2.8 | 4.6 | 2.9 | 6.1 |
| 1966 | 42.4 | 23.9 | 3.6 | 2.4 | 4.5 | 3.0 | 5.1 | 5.3 | 18.4 | 3.3 | 4.9 | 3.4 | 6.8 |
| 1967 | 39.0 | 21.2 | 2.7 | 2.5 | 4.1 | 3.0 | 4.0 | 5.0 | 17.8 | 3.2 | 4.3 | 3.9 | 6.4 |
| 1968 | 41.7 | 22.4 | 1.9 | 2.3 | 4.1 | 2.9 | 5.5 | 5.7 | 19.2 | 3.2 | 5.2 | 3.7 | 7.0 |
| 1969 ..... | 37.0 | 19.0 | 1.4 | 2.0 | 3.7 | 2.3 | 4.8 | 4.9 | 18.0 | 3.0 | 4.6 | 3.3 | 7.0 |
| 1970 | 27.1 | 10.4 | . 8 | 1.1 | 3.0 | 1.3 | 1.3 | 3.0 | 16.8 | 3.2 | 3.9 | 3.6 | 6.1 |
| 1971 | 34.8 | 16.6 | . 8 | 1.5 | 3.0 | 1.9 | 5.1 | 4.2 | 18.2 | 3.5 | 4.5 | 3.7 | 6.5 |
| 1972 | 41.4 | 22.6 | 1.6 | 2.2 | 4.3 | 2.8 | 5.9 | 5.7 | 18.8 | 2.9 | 5.2 | 3.2 | 7.5 |
| 1973 | 46.7 | 25.0 | 2.3 | 2.6 | 4.7 | 3.2 | 5.9 | 6.3 | 21.7 | 2.5 | 6.1 | 5.2 | 7.9 |
| 1974 ......... | 40.7 | 15.1 | 5.0 | 1.8 | 3.1 | . 5 | . 7 | 4.1 | 25.7 | 2.6 | 5.2 | 10.7 | 7.2 |
| 1975 | 54.5 | 20.3 | 2.7 | 3.2 | 4.8 | 2.6 | 2.2 | 4.8 | 34.1 | 8.6 | 6.3 | 9.8 | 9.4 |
| 1976 ... | 70.7 | 31.2 | 2.1 | 3.9 | 6.7 | 3.8 | 7.4 | 7.4 | 39.5 | 7.1 | 8.2 | 13.3 | 11.0 |
| 1977 | 78.5 | 37.6 | 1.0 | 4.5 | 8.3 | 5.8 | 9.3 | 8.6 | 41.0 | 6.8 | 7.7 | 12.9 | 13.6 |
| 1978 | 89.6 | 45.0 | 3.6 | 5.0 | 10.4 | 6.6 | 8.9 | 10.5 | 44.6 | 6.1 | 8.2 | 15.5 | 14.8 |
| 1979 ......... | 88.3 | 36.5 | 3.5 | 5.2 | 9.1 | 5.4 | 4.6 | 8.6 | 51.8 | 5.8 | 7.1 | 24.5 | 14.6 |
| 1980 | 75.8 | 17.9 | 2.6 | 4.3 | 7.5 | 5.0 | -4.3 | 2.8 | 57.8 | 6.0 | 5.5 | 33.6 | 12.9 |
| 1981 .... | 87.5 | 18.1 | 3.0 | 4.4 | 8.2 | 4.9 | . 2 | -2.7 | 69.4 | 9.0 | 7.6 | 38.6 | 14.2 |
| 1982 ... | 63.4 | 4.9 | -4.7 | 2.6 | 3.4 | 1.3 | -. 3 | 2.7 | 58.5 | 7.3 | 4.7 | 31.6 | 14.9 |
| 1983 | 72.8 | 18.6 | -5.0 | 3.0 | 3.7 | 3.4 | 5.2 | 8.3 | 54.2 | 6.1 | 6.9 | 22.5 | 18.6 |
| 1984 ......... | 86.6 | 36.7 | -. 5 | 4.6 | 5.5 | 5.1 | 8.9 | 13.0 | 49.9 | 6.5 | 7.7 | 16.1 | 19.6 |
| 1985 | 81.6 | 30.1 | -. 8 | 4.7 | 5.5 | 2.5 | 7.3 | 10.8 | 51.6 | 8.6 | 6.1 | 17.3 | 19.6 |
| 1986 | 60.2 | 28.6 | . 9 | 5.2 | 2.7 | 2.7 | 4.4 | 12.7 | 31.7 | 7.3 | 8.0 | -5.8 | 22.1 |
| 1987 ... | 85.0 | 40.1 | 2.7 | 5.4 | 4.7 | 6.5 | 3.8 | 17.0 | 45.0 | 11.3 | 15.1 | -3.8 | 22.4 |
| 1988 | 115.1 | 49.2 | 5.9 | 6.3 | 9.4 | 5.7 | 5.7 | 16.2 | 65.9 | 11.9 | 19.3 | 10.4 | 24.3 |
| 1989 ......... | 109.3 | 49.3 | 6.0 | 6.5 | 11.1 | 9.5 | 2.2 | 13.9 | 60.0 | 11.0 | 19.0 | 5.0 | 25.0 |
| 1990 ..... | 112.3 | 40.9 | 3.3 | 6.2 | 10.2 | 8.4 | -2.2 | 15.0 | 71.4 | 14.5 | 17.0 | 17.0 | 22.9 |
| 1991 ... | 92.7 | 30.5 | 1.3 | 5.4 | 4.3 | 8.9 | -5.4 | 16.0 | 62.1 | 18.2 | 15.7 | 5.9 | 22.3 |
| 1992 | 96.3 | 37.1 | -. 1 | 6.5 | 5.6 | 10.0 | -1.1 | 16.2 | 59.1 | 18.3 | 16.5 | -1.6 | 26.0 |
| 1993 | 109.7 | 54.2 | . 2 | 7.7 | 7.0 | 14.8 | 4.2 | 20.3 | 55.5 | 16.2 | 16.4 | -2.2 | 25.1 |
| 1994 ......... | 142.7 | 77.2 | . 7 | 10.7 | 9.0 | 22.5 | 10.2 | 24.1 | 65.5 | 19.1 | 18.0 | -. 1 | 28.4 |
| 1990:1 .. | 115.9 | 48.9 | 5.6 | 7.6 | 12.4 | 10.3 | -4.0 | 17.0 | 67.0 | 9.5 | 18.1 | 15.7 | 23.7 |
| II ..... | 125.1 | 44.6 | 3.7 | 6.5 | 10.4 | 9.5 | . 0 | 14.6 | 80.5 | 14.9 | 20.2 | 21.3 | 24.2 |
| III .... | 99.8 | 42.3 | 1.5 | 5.6 | 10.0 | 8.5 | 1.9 | 14.8 | 57.5 | 16.1 | 17.0 | -. 3 | 24.7 |
| IV .... | 108.4 | 27.9 | 2.6 | 5.0 | 7.9 | 5.4 | -6.6 | 13.7 | 80.5 | 17.5 | 12.6 | 31.4 | 19.0 |
| 1991: 1 | 104.3 | 22.6 | 1.7 | 3.6 | 5.4 | 7.4 | -9.6 | 14.1 | 81.7 | 17.7 | 12.9 | 32.4 | 18.7 |
| II ..... | 91.7 | 35.3 | 1.5 | 6.2 | 5.0 | 9.9 | -5.2 | 18.0 | 56.3 | 17.6 | 14.5 | 1.7 | 22.5 |
| III .... | 90.8 | 32.2 | 1.1 | 5.6 | 2.0 | 8.6 | -2.3 | 17.1 | 58.6 | 21.5 | 17.0 | -6.1 | 26.3 |
| IV ... | 83.8 | 31.9 | 1.0 | 6.1 | 5.0 | 9.7 | -4.7 | 14.8 | 51.9 | 16.1 | 18.5 | -4.5 | 21.9 |
| 1992: I ....... | 92.0 | 33.4 | . 5 | 6.2 | 4.7 | 9.8 | -2.0 | 14.2 | 58.6 | 15.9 | 17.1 | 1.8 | 23.8 |
| II ..... | 89.6 | 35.3 | . 3 | 6.4 | 5.4 | 8.5 | -. 2 | 14.8 | 54.3 | 20.2 | 15.2 | -6.9 | 25.8 |
| III .... | 98.4 | 37.2 | -. 5 | 7.2 | 6.0 | 9.7 | -2.8 | 17.6 | 61.2 | 20.0 | 16.2 | -1.8 | 26.8 |
| IV .... | 105.1 | 42.6 | -. 8 | 6.4 | 6.4 | 11.8 | . 4 | 18.4 | 62.4 | 17.2 | 17.3 | . 4 | 27.6 |
| 1993: \| ....... | 90.4 | 36.9 | -1.2 | 5.3 | 3.8 | 12.6 | -. 4 | 16.9 | 53.5 | 18.8 | 17.5 | -8.7 | 25.9 |
| II ..... | 108.4 | 52.4 | 1.4 | 7.8 | 7.1 | 11.9 | 4.2 | 20.1 | 56.0 | 15.2 | 15.3 | -1.6 | 27.1 |
| III .... | 106.0 | 55.4 | -. 5 | 8.1 | 9.1 | 15.9 | 2.3 | 20.5 | 50.7 | 16.0 | 15.3 | -2.6 | 21.9 |
| IV .... | 134.0 | 72.1 | 1.3 | 9.5 | 7.9 | 18.8 | 10.7 | 23.8 | 61.9 | 14.6 | 17.5 | 4.2 | 25.6 |
| 1994: I ....... | 145.3 | 76.0 | . 6 | 10.9 | 8.7 | 18.9 | 14.2 | 22.7 | 69.3 | 19.5 | 17.6 | . 5 | 31.7 |
| II ..... | 134.2 | 75.1 | . 9 | 10.6 | 9.1 | 21.2 | 9.5 | 23.8 | 59.1 | 18.0 | 18.5 | -8.2 | 30.8 |
| III .... | 142.8 | 75.6 | . 8 | 10.2 | 8.0 | 23.8 | 8.5 | 24.3 | 67.1 | 19.7 | 17.0 | 3.3 | 27.1 |
| IV .... | 148.4 | 81.8 | . 4 | 11.1 | 10.1 | 26.1 | 8.6 | 25.5 | 66.7 | 19.4 | 19.0 | 4.2 | 24.2 |
| 1995: \| ....... | 134.7 | 75.8 | 2.2 | 10.2 | 12.5 | 23.2 | 6.7 | 21.0 | 58.8 | 18.3 | 16.8 | -2.3 | 26.0 |
| II ..... | 137.8 | 74.0 | 4.7 | 11.5 | 12.1 | 22.4 | 3.0 | 20.4 | 63.8 | 18.4 | 21.3 | -. 2 | 24.3 |
| III .... | 153.0 | 78.1 | 2.5 | 10.8 | 12.6 | 27.5 | 4.4 | 20.2 | 74.9 | 16.7 | 23.5 | 5.3 | 29.3 |

Note. - The industry classification is on a company basis and is based on the 1987 Standard Industrial Classification (SIC) beginning 1987 and on the 1972 SIC for earlier years shown. In the 1972 SIC, the categories shown here as "industrial machinery and equipment" and "electronic and other electric equipment" were identified as "machinery, except electrical" and "electric and electronic equipment," respectively.

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-89.-Sales, profits, and stockholdes' equity, all manufacturing corporations, 1952-95
[Billions of dollars]

| Year or quarter | All manufacturing corporations |  |  |  | Durable goods industries |  |  |  | Nondurable goods industries |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sales (net) | Profits |  | Stockholders' equity ${ }^{2}$ | Sales (net) | Profits |  | Stockholders' equity ${ }^{2}$ | Sales (net) | Profits |  | Stockholders' equity ${ }^{2}$ |
|  |  | Before income taxes ${ }^{1}$ | After income taxes |  |  | Before income taxes ${ }^{1}$ | After income taxes |  |  | Before income taxes ${ }^{1}$ | After income taxes |  |
| 1952 | 250.2 | 22.9 | 10.7 | 103.7 | 122.0 | 12.9 | 5.5 | 49.8 | 128.0 | 10.0 | 5.2 | 53.9 |
| 1953 .. | 265.9 | 24.4 | 11.3 | 108.2 | 137.9 | 14.0 | 5.8 | 52.4 | 128.0 | 10.4 | 5.5 | 55.7 |
| 1954 ... | 248.5 | 20.9 | 11.2 | 113.1 | 122.8 | 11.4 | 5.6 | 54.9 | 125.7 | 9.6 | 5.6 | 58.2 |
| 1955 ... | 278.4 | 28.6 | 15.1 | 120.1 | 142.1 | 16.5 | 8.1 | 58.8 | 136.3 | 12.1 | 7.0 | 61.3 |
| 1956 ... | 307.3 | 29.8 | 16.2 | 131.6 | 159.5 | 16.5 | 8.3 | 65.2 | 147.8 | 13.2 | 7.8 | 66.4 |
| 1957 | 320.0 | 28.2 | 15.4 | 141.1 | 166.0 | 15.8 | 7.9 | 70.5 | 154.1 | 12.4 | 7.5 | 70.6 |
| 1958 ... | 305.3 | 22.7 | 12.7 | 147.4 | 148.6 | 11.4 | 5.8 | 72.8 | 156.7 | 11.3 | 6.9 | 74.6 |
| 1959 ..... | 338.0 | 29.7 | 16.3 | 157.1 | 169.4 | 15.8 | 8.1 | 77.9 | 168.5 | 13.9 | 8.3 | 79.2 |
| 1960 | 345.7 | 27.5 | 15.2 | 165.4 | 173.9 | 14.0 | 7.0 | 82.3 | 171.8 | 13.5 | 8.2 | 83.1 |
| 1961 ... | 356.4 | 27.5 | 15.3 | 172.6 | 175.2 | 13.6 | 6.9 | 84.9 | 181.2 | 13.9 | 8.5 | 87.7 |
| 1962 ... | 389.4 | 31.9 | 17.7 | 181.4 | 195.3 | 16.8 | 8.6 | 89.1 | 194.1 | 15.1 | 9.2 | 92.3 |
| 1963 | 412.7 | 34.9 | 19.5 | 189.7 | 209.0 | 18.5 | 9.5 | 93.3 | 203.6 | 16.4 | 10.0 | 96.3 |
| 1964 | 443.1 | 39.6 | 23.2 | 199.8 | 226.3 | 21.2 | 11.6 | 98.5 | 216.8 | 18.3 | 11.6 | 101.3 |
| 1965 | 492.2 | 46.5 | 27.5 | 211.7 | 257.0 | 26.2 | 14.5 | 105.4 | 235.2 | 20.3 | 13.0 | 106.3 |
| 1966 | 554.2 | 51.8 | 30.9 | 230.3 | 291.7 | 29.2 | 16.4 | 115.2 | 262.4 | 22.6 | 14.6 | 115.1 |
| 1967 | 575.4 | 47.8 | 29.0 | 247.6 | 300.6 | 25.7 | 14.6 | 125.0 | 274.8 | 22.0 | 14.4 | 122.6 |
| 1968 ..... | 631.9 | 55.4 | 32.1 | 265.9 | 335.5 | 30.6 | 16.5 | 135.6 | 296.4 | 24.8 | 15.5 | 130.3 |
| 1969 .............. | 694.6 | 58.1 | 33.2 | 289.9 | 366.5 | 31.5 | 16.9 | 147.6 | 328.1 | 26.6 | 16.4 | 142.3 |
| 1970 | 708.8 | 48.1 | 28.6 | 306.8 | 363.1 | 23.0 | 12.9 | 155.1 | 345.7 | 25.2 | 15.7 | 151.7 |
| 1971 ... | 751.1 | 52.9 | 31.0 | 320.8 | 381.8 | 26.5 | 14.5 | 160.4 | 369.3 | 26.5 | 16.5 | 160.5 |
| 1972 ... | 849.5 | 63.2 | 36.5 | 343.4 | 435.8 | 33.6 | 18.4 | 171.4 | 413.7 | 29.6 | 18.0 | 172.0 |
| 1973 ......... | 1,017.2 | 81.4 | 48.1 | 374.1 | 527.3 | 43.6 | 24.8 | 188.7 | 489.9 | 37.8 | 23.3 | 185.4 |
| 1973: IV ......... | 275.1 | 21.4 | 13.0 | 386.4 | 140.1 | 10.8 | 6.3 | 194.7 | 135.0 | 10.6 | 6.7 | 191.7 |
| New series: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1973: IV ......... | 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 | 1,060.6 | 92.1 | 58.7 | 395.0 | 529.0 | 41.1 | 24.7 | 196.0 | 531.6 | 51.0 | 34.1 | 199.0 |
| 1975 | 1,065.2 | 79.9 | 49.1 | 423.4 | 521.1 | 35.3 | 21.4 | 208.1 | 544.1 | 44.6 | 27.7 | 215.3 |
| 1976 | 1,203.2 | 104.9 | 64.5 | 462.7 | 589.6 | 50.7 | 30.8 | 224.3 | 613.7 | 54.3 | 33.7 | 238.4 |
| 1977 | 1,328.1 | 115.1 | 70.4 | 496.7 | 657.3 | 57.9 | 34.8 | 239.9 | 670.8 | 57.2 | 35.5 | 256.8 |
| 1978 ... | 1,496.4 | 132.5 | 81.1 | 540.5 | 760.7 | 69.6 | 41.8 | 262.6 | 735.7 | 62.9 | 39.3 | 277.9 |
| 1979 .............. | 1,741.8 | 154.2 | 98.7 | 600.5 | 865.7 | 72.4 | 45.2 | 292.5 | 876.1 | 81.8 | 53.5 | 308.0 |
| 1980 | 1,912.8 | 145.8 | 92.6 | 668.1 | 889.1 | 57.4 | 35.6 | 317.7 | 1,023.7 | 88.4 | 56.9 | 350.4 |
| 1981 | 2,144.7 | 158.6 | 101.3 | 743.4 | 979.5 | 67.2 | 41.6 | 350.4 | 1,165.2 | 91.3 | 59.6 | 393.0 |
| 1982 | 2,039.4 | 108.2 | 70.9 | 770.2 | 913.1 | 34.7 | 21.7 | 355.5 | 1,126.4 | 73.6 | 49.3 | 414.7 |
| 1983 | 2,114.3 | 133.1 | 85.8 | 812.8 | 973.5 | 48.7 | 30.0 | 372.4 | 1,140.8 | 84.4 | 55.8 | 440.4 |
| 1984 | 2,335.0 | 165.6 | 107.6 | 864.2 | 1,107.6 | 75.5 | 48.9 | 395.6 | 1,227.5 | 90.0 | 58.8 | 468.5 |
| 1985 | 2,331.4 | 137.0 | 87.6 | 866.2 | 1,142.6 | 61.5 | 38.6 | 420.9 | 1,188.8 | 75.6 | 49.1 | 445.3 |
| 1986 | 2,220.9 | 129.3 | 83.1 | 874.7 | 1,125.5 | 52.1 | 32.6 | 436.3 | 1,095.4 | 77.2 | 50.5 | 438.4 |
| 1987 | 2,378.2 | 173.0 | 115.6 | 900.9 | 1,178.0 | 78.0 | 53.0 | 444.3 | 1,200.3 | 95.1 | 62.6 | 456.6 |
| 1988 | 2,596.2 | 216.1 | 154.6 | 957.6 | 1,284.7 | 91.7 | 67.1 | 468.7 | 1,311.5 | 124.4 | 87.5 | 488.9 |
| 1989 ..... | 2,745.1 | 188.8 | 136.3 | 999.0 | 1,356.6 | 75.2 | 55.7 | 501.3 | 1,388.5 | 113.5 | 80.6 | 497.7 |
| 1990. | 2,810.7 | 159.6 | 111.6 | 1,043.8 | 1,357.2 | 57.6 | 40.9 | 515.0 | 1,453.5 | 102.0 | 70.6 | 528.9 |
| 1991 .............. | 2,761.1 | 99.8 | 67.5 | 1,064.1 | 1,304.0 | 14.1 | 7.4 | 506.8 | 1,457.1 | 85.7 | 60.1 | 557.4 |
| $1992{ }^{3}$.... | 2,890.2 | 32.5 | 23.2 | 1,034.7 | 1,389.8 | -33.5 | -23.7 | 473.9 | 1,500.4 | 66.0 | 47.0 | 560.8 |
| 1993 ... | 3,015.1 | 118.6 | 83.9 | 1,039.7 | 1,490.2 | 39.0 | 27.6 | 482.7 | 1,524.9 | 79.6 | 56.4 | 557.1 |
| 1994 ............. | 3,258.4 | 245.3 | 176.6 | 1,110.2 | 1,658.7 | 121.7 | 87.7 | 533.6 | 1,599.7 | 123.6 | 88.9 | 576.6 |
| 1993:13 ......... | 717.7 | 11.3 | 11.1 | 1,019.5 | 349.5 | -5.7 | -1.7 | 464.8 | 368.2 | 17.0 | 12.8 | 554.7 |
| II ........... | 767.4 | 37.6 | 25.2 | 1,035.1 | 381.0 | 15.7 | 9.4 | 479.8 | 386.4 | 21.9 | 15.9 | 555.3 |
| III .......... | 752.5 | 37.7 | 25.0 | 1,047.1 | 368.3 | 16.2 | 11.5 | 492.0 | 384.2 | 21.5 | 13.5 | 555.0 |
| IV .......... | 777.5 | 32.0 | 22.6 | 1,057.3 | 391.5 | 12.8 | 8.4 | 494.0 | 386.0 | 19.2 | 14.2 | 563.3 |
| 1994: I ........... | 758.0 | 50.2 | 35.5 | 1,072.8 | 384.1 | 23.3 | 16.3 | 504.0 | 373.9 | 26.9 | 19.2 | 568.8 |
| II ........... | 819.7 | 65.1 | 47.0 | 1,094.3 | 421.0 | 36.6 | 26.7 | 522.9 | 398.7 | 28.5 | 20.3 | 571.4 |
| III .......... | 823.2 | 65.6 | 46.9 | 1,120.4 | 412.9 | 30.8 | 22.4 | 541.7 | 410.3 | 34.8 | 24.5 | 578.6 |
| IV .......... | 857.5 | 64.4 | 47.3 | 1,153.2 | 440.6 | 31.0 | 22.3 | 565.8 | 416.8 | 33.4 | 24.9 | 587.4 |
| 1995: $1 . . . . . . . . . .$. | 845.4 | 73.5 | 52.6 | 1,194.4 | 432.6 | 36.3 | 26.0 | 589.4 | 412.8 | 37.3 | 26.6 | 605.0 |
| II ........... | 890.4 | 79.4 | 57.2 | 1,233.6 | 456.3 | 39.3 | 29.0 | 614.1 | 434.2 | 40.1 | 28.2 | 619.4 |
| III .......... | 880.9 | 71.3 | 51.2 | 1,252.2 | 445.2 | 30.4 | 21.9 | 625.7 | 435.7 | 40.9 | 29.3 | 626.4 |

${ }^{1}$ 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.
${ }_{2}^{2}$ Annual data are average equity for the year (using four end-of-quarter figures).
${ }^{3}$ 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: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.

Note. - Data are not necessarily comparable from one period to another due to changes in accounting principles, industry classifications, sampling procedures, etc. For explanatory notes concerning compilation of the series, see "Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations," Department of Commerce, Bureau of the Census.

Source: Department of Commerce, Bureau of the Census.

Table B-90.-Redation of profits after taxes to stockholders' equity and to sales, all manufacturing corporations, 1947-95

| Year or quarter | Ratio of profits after income taxes (annual rate) to stockholders' equity- percent ${ }^{1}$ |  |  | Profits after income taxes per dollar of sales- cents |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All <br> $\begin{array}{c}\text { manufacturing } \\ \text { corporations }\end{array}$ | Durable goods industries | Nondurable goods industries | $\begin{gathered} \text { All } \\ \text { manufacturing } \\ \text { corporations } \end{gathered}$ | Durable goods industries | Nondurable goods industries |
| 1947 ............................................. | 15.6 | 14.4 | 16.6 | 6.7 | 6.7 | 6.7 |
| 1948 ............................................... | 16.0 | 15.7 | 16.2 | 7.0 | 7.1 | 6.8 |
| 1949 ............................................ | 11.6 | 12.1 | 11.2 | 5.8 | 6.4 | 5.4 |
| 1950 ............................................. | 15.4 | 16.9 | 14.1 | 7.1 | 7.7 | 6.5 |
| 1951 ......................................... | 12.1 | 13.0 | 11.2 | 4.9 | 5.3 | 4.5 |
| 1952 .......................................... | 10.3 | 11.1 | 9.7 | 4.3 | 4.5 | 4.1 |
| 1953 .......................................... | 10.5 | 11.1 | 9.9 | 4.3 | 4.2 | 4.3 |
| 1954 | 9.9 | 10.3 | 9.6 | 4.5 | 4.6 | 4.4 |
| 1955 | 12.6 | 13.8 | 11.4 | 5.4 | 5.7 | 5.1 |
| 1956 | 12.3 | 12.8 | 11.8 | 5.3 | 5.2 | 5.3 |
| 1957 | 10.9 | 11.3 | 10.6 | 4.8 | 4.8 | 4.9 |
| 1958 | 8.6 | 8.0 | 9.2 | 4.2 | 3.9 | 4.4 |
| 1959 ........................................... | 10.4 | 10.4 | 10.4 | 4.8 | 4.8 | 4.9 |
| 1960 ........................................... | 9.2 | 8.5 | 9.8 | 4.4 | 4.0 | 4.8 |
| 1961 | 8.9 | 8.1 | 9.6 | 4.3 | 3.9 | 4.7 |
| 1962 | 9.8 | 9.6 | 9.9 | 4.5 | 4.4 | 4.7 |
| 1963 | 10.3 | 10.1 | 10.4 | 4.7 | 4.5 | 4.9 |
| 1964 | 11.6 | 11.7 | 11.5 | 5.2 | 5.1 | 5.4 |
| 1965 | 13.0 | 13.8 | 12.2 | 5.6 | 5.7 | 5.5 |
| 1966 | 13.4 | 14.2 | 12.7 | 5.6 | 5.6 | 5.6 |
| 1967 .... | 11.7 | 11.7 | 11.8 | 5.0 | 4.8 | 5.3 |
| 1968 .......................................... | 12.1 | 12.2 | 11.9 | 5.1 | 4.9 | 5.2 |
| 1969 ............................................ | 11.5 | 11.4 | 11.5 | 4.8 | 4.6 | 5.0 |
| 1970 | 9.3 | 8.3 | 10.3 | 4.0 | 3.5 | 4.5 |
| 1971 ............................................. | 9.7 | 9.0 | 10.3 | 4.1 | 3.8 | 4.5 |
| 1972 ........................................... | 10.6 | 10.8 | 10.5 | 4.3 | 4.2 | 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 |
| 1976 ............................................. | 13.9 | 13.7 | 14.2 | 5.4 | 5.2 | 5.5 |
| 1977 .............................................. | 14.2 | 14.5 | 13.8 | 5.3 | 5.3 | 5.3 |
| 1978 ........................................... | 15.0 | 16.0 | 14.2 | 5.4 | 5.5 | 5.3 |
| 1979 ............................................. | 16.4 | 15.4 | 17.4 | 5.7 | 5.2 | 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 ................................................ | 10.6 | 8.1 | 12.7 | 4.1 | 3.1 | 4.9 |
| 1984 ............................................... | 12.5 | 12.4 | 12.5 | 4.6 | 4.4 | 4.8 |
| 1985 ............................................... | 10.1 | 9.2 | 11.0 | 3.8 | 3.4 | 4.1 |
| 1986 ............................................... | 9.5 | 7.5 | 11.5 | 3.7 | 2.9 | 4.6 |
| 1987 ............................................. | 12.8 | 11.9 | 13.7 | 4.9 | 4.5 | 5.2 |
| 1988 ............................................... | 16.1 | 14.3 | 17.9 | 6.0 | 5.2 | 6.7 |
| 1989 .............................................. | 13.6 | 11.1 | 16.2 | 5.0 | 4.1 | 5.8 |
| 1990 ............................................ | 10.7 | 8.0 | 13.4 | 4.0 | 3.0 | 4.9 |
| 1991 ............................................ | 6.3 | 1.5 | 10.8 | 2.4 | . 6 | 4.1 |
| $1992{ }^{2}$.......................................... | 2.2 | -5.0 | 8.4 | . 8 | -1.7 | 3.1 |
| 1993 ............................................... | 8.1 | 5.7 | 10.1 | 2.8 | 1.9 | 3.7 |
| 1994 ............................................. | 15.9 | 16.4 | 15.4 | 5.4 | 5.3 | 5.6 |
| 1993: $1^{2}$....................................... | 4.4 | -1.5 | 9.3 | 1.6 | -. 5 | 3.5 |
| II ......................................... | 9.7 | 7.8 | 11.4 | 3.3 | 2.5 | 4.1 |
| III ......................................... | 9.5 | 9.3 | 9.7 | 3.3 | 3.1 | 3.5 |
| IV ......................................... | 8.5 | 6.8 | 10.1 | 2.9 | 2.1 | 3.7 |
| 1994:I .......................................... | 13.2 | 12.9 | 13.5 | 4.7 | 4.2 | 5.1 |
| II ........................................ | 17.2 | 20.4 | 14.2 | 5.7 | 6.3 | 5.1 |
| III ......................................... | 16.7 | 16.6 | 16.9 | 5.7 | 5.4 | 6.0 |
| IV ....................................... | 16.4 | 15.8 | 17.0 | 5.5 | 5.1 | 6.0 |
| 1995: \| ......................................... | 17.6 | 17.7 | 17.6 | 6.2 | 6.0 | 6.4 |
| II ........................................ | 18.6 | 18.9 | 18.2 | 6.4 | 6.4 | 6.5 |
| III .......................................... | 16.4 | 14.0 | 18.7 | 5.8 | 4.9 | 6.7 |

[^69]Table B-91.-Common stock prices and yields, 1955-95

| Year or month | Common stock prices ${ }^{1}$ |  |  |  |  |  |  | Common stock yields (S\&P)(percent) ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | New York Stock Exchange indexes (Dec. 31, 1965=50) ${ }^{2}$ |  |  |  |  | DowJones industrial average ${ }^{2}$ | Standard \& Poor's composite index $43=10)^{2}$ | Dividendprice ratio ${ }^{5}$ | Earningsprice ratio ${ }^{6}$ |
|  | Composite | Industrial | Transportation | Utility ${ }^{3}$ | Finance |  |  |  |  |
|  | $\begin{aligned} & 21.54 \\ & 24.40 \\ & 23.67 \\ & 24.56 \\ & 30.73 \end{aligned}$ |  |  |  |  | $\begin{aligned} & \hline 442.72 \\ & 493.01 \\ & 475.71 \\ & 491.66 \\ & 632.12 \end{aligned}$ | $\begin{aligned} & 40.49 \\ & 46.62 \\ & 44.38 \\ & 46.24 \\ & 57.38 \end{aligned}$ | $\begin{aligned} & \hline 4.08 \\ & 4.09 \\ & 4.35 \\ & 3.97 \\ & 3.23 \end{aligned}$ | $\begin{aligned} & \begin{array}{l} 1.95 \\ 7.55 \\ 7.89 \\ 6.23 \\ 5.78 \end{array} \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |
| 1961 .............. | 35.37 | $\ldots$ | ${ }^{\text {............. }}$ | $\ldots$ | $\ldots$ | 691.55 | 66.27 | 3.98 <br> 2.98 | 4.62 |
| 1962 ............ | 33.49 | ........... | ......... | ...... | ......... | 639.76 | 62.38 | 3.37 | 5.82 |
| 1963 .... | 37.51 | ...... | .......... | ........ | .......... | 714.81 | 69.87 | 3.17 | 5.50 |
| 1964 .... | 43.76 | ....... |  | ....... |  | 834.05 | 81.37 | 3.01 | 5.32 |
| 1965 .......................... | 47.39 |  |  |  |  | 910.88 | 88.17 | 3.00 | 5.59 |
| 1966 ...................... | 46.15 50.77 | $\begin{aligned} & 46.18 \\ & 51.97 \end{aligned}$ | $\begin{aligned} & 50.26 \\ & 53.51 \end{aligned}$ | $90.81$ $90.86$ | 44.45 49.82 | 873.60 879 | 85.26 91.93 | 3.40 3.20 | 6.63 5.73 |
| 1968 ........................... | 55.37 | 58.00 | 50.58 | 88.38 | 65.85 | 906.00 | 98.70 | 3.07 | 5.67 |
| 1969 ........................ | 54.67 | 57.44 | 46.96 | 85.60 | 70.49 | 876.72 | 97.84 | 3.24 | 6.08 |
| 1970 ..... | 45.72 | 48.03 | 32.14 | 74.47 | 60.00 | 753.19 | 83.22 | 3.83 | 6.45 |
| 1971 .... | 54.22 | 57.92 | 44.35 | 79.05 | 70.38 | 884.76 | 98.29 | 3.14 | 5.41 |
| 1972 ......................... | 60.29 | 65.73 | 50.17 | 76.95 | 78.35 | 950.71 | 109.20 | 2.84 | 5.50 |
| 1973 ........................... | 57.42 | 63.08 | 37.74 | 75.38 | 70.12 | 923.88 | 107.43 | 3.06 | 7.12 |
| 1974 .......................... | 43.84 | 48.08 | 31.89 | 59.58 | 49.67 | 759.37 | 82.85 | 4.47 | 11.59 |
| 1975 ......................... | 45.73 | 50.52 | 31.10 | 63.00 | 47.14 | 802.49 | 86.16 | 4.31 | 9.15 |
| 1976 ..... | 54.46 | 60.44 | 39.57 | 73.94 | 52.94 | 974.92 | 102.01 | 3.77 | 8.90 |
| 1977 ......................... | 53.69 | 57.86 | 41.09 | 81.84 | 55.25 | 894.63 | 98.20 | 4.62 | 10.79 |
| 1978 .......................... | 53.70 | 58.23 | 43.50 | 78.44 | 56.65 | 820.23 | 96.02 | 5.28 | 12.03 |
| 1979 ......................... | 58.32 | 64.76 | 47.34 | 76.41 | 61.42 | 844.40 | 103.01 | 5.47 | 13.46 |
| 1980 .... | 68.10 | 78.70 | 60.61 | 74.69 | 64.25 | 891.41 | 118.78 | 5.26 | 12.66 |
| 1981 .......................... | 74.02 | 85.44 | 72.61 | 77.81 | 73.52 | 932.92 | 128.05 | 5.20 | 11.96 |
| 1982 ........................... | 68.93 | 78.18 | 60.41 | 79.49 | 71.99 | 884.36 | 119.71 | 5.81 | 11.60 |
| 1983 ...... | 92.63 | 107.45 | 89.36 | 93.99 | 95.34 | 1,190.34 | 160.41 | 4.40 | 8.03 |
| 1984 ......................... | 92.46 | 108.01 | 85.63 | 92.89 | 89.28 | 1,178.48 | 160.46 | 4.64 | 10.02 |
| 1985 .......................... | 108.09 | 123.79 | 104.11 | 113.49 | 114.21 | 1,328.23 | 186.84 | 4.25 | 8.12 |
| 1986 | 136.00 | 155.85 | 119.87 | 142.72 | 147.20 | 1,792.76 | 236.34 | 3.49 | 6.09 |
| 1987 ... | 161.70 | 195.31 | 140.39 | 148.57 | 146.48 | 2,275.99 | 286.83 | 3.08 | 5.48 |
| 1988 ... | 149.91 | 180.95 | 134.12 | 143.53 | 127.26 | 2,060.82 | 265.79 | 3.64 | 8.01 |
| 1989 | 180.02 | 216.23 | 175.28 | 174.87 | 151.88 | 2,508.91 | 322.84 | 3.45 | 7.41 |
| 1990 .... | 183.46 | 225.78 | 158.62 | 181.20 | 133.26 | 2,678.94 | 334.59 |  | 6.47 |
| $1991 . . .$. | 206.33 | 258.14 | 173.99 | 185.32 | 150.82 | 2,929.33 | 376.18 | 3.24 | 4.79 |
| 1993 ... | 249.58 | 299.99 | 242.49 | 228.90 | 216.42 | 3,522.06 | 451.41 | 2.78 | 4.46 |
| $1994 . . . . .$. | 254.12 | 315.25 | 247.29 | 209.06 | 209.73 | 3,793.77 | 460.33 | 2.82 | 5.83 |
| $1995 . . . . . .$. | 291.15 | 367.34 | 269.41 | 220.30 | 238.45 | 4,493.76 | 541.64 | 2.56 |  |
| 1994:Jan ..... | 262.11 | 320.92 | 278.29 | 225.15 | 218.71 | 3,868.36 | 472.99 | 2.69 |  |
| Feb .................... | 261.97 | 322.41 | 276.67 | 220.85 | 217.12 | 3,905.62 | 471.58 | 2.70 |  |
| Mar ................... | 257.32 | 318.08 | 265.68 | 215.45 | 211.02 | 3,816.98 | 463.81 | 2.78 | 5.09 |
| Apr | 247.97 | 304.48 | 250.43 | 210.08 | 208.12 | 3,661.48 | 447.23 | 2.90 |  |
| May ................... | 249.56 | 307.58 | 244.75 | 205.77 | 211.30 | 3,707.99 | 450.90 | 2.89 |  |
| June .................... | 251.21 | 308.66 | 246.64 | 206.54 | 215.89 | 3,737.58 | 454.83 | 2.84 | 5.67 |
| july ..................... | 249.29 | 307.34 | 244.21 | 205.46 | 210.91 | 3,718.30 | 451.40 | 2.87 |  |
| Aug .................... | 256.08 | 316.55 | 244.67 | 211.26 | 214.77 | 3,797.48 | 464.24 | 2.78 |  |
| Sept ... | 257.61 | 322.19 | 239.10 | 204.60 | 211.90 | 3,880.60 | 466.96 | 2.80 | 5.91 |
| Oct .................... | 255.22 | 321.53 | 230.71 | 203.35 | 203.33 | 3,868.10 | 463.81 | 2.82 |  |
| Nov ..................... | 252.48 | 319.33 | 227.45 | 200.13 | 198.38 | 3,792.43 | 461.01 | 2.86 |  |
| Dec .................. | 248.65 | 313.92 | 218.93 | 200.02 | 195.25 | 3,770.31 | 455.19 | 2.91 | 6.66 |
| 1995:Jan | $\begin{aligned} & 253.56 \\ & 26186 \end{aligned}$ | $\begin{aligned} & 319.93 \\ & 328.98 \end{aligned}$ | $\begin{aligned} & 230.25 \\ & 237.29 \end{aligned}$ | $\begin{aligned} & 201.16 \\ & 207.73 \end{aligned}$ | $\begin{aligned} & 201.05 \\ & 211.76 \end{aligned}$ | $\begin{aligned} & 3,872.46 \\ & 3,953.72 \end{aligned}$ | $465.25$ $481.92$ | $\begin{aligned} & 2.87 \\ & 2.87 \end{aligned}$ |  |
| Mar ......................... | 266.81 | 337.96 | 244.45 | 204.16 | 213.29 | 4,062.78 | 493.15 | 2.76 | 6.51 |
| Apr | 274.37 | 347.69 | 254.36 | 208.93 | 219.38 | 4,230.66 | 507.91 | 2.68 |  |
| May .... | 281.81 | 357.01 | 254.69 | 211.58 | 228.55 | 4,391.57 | 523.81 | 2.60 |  |
| June .... | 289.52 | 366.75 | 256.80 | 216.27 | 236.26 | 4,510.76 | 539.35 | 2.55 | 6.32 |
| July ................... | 298.18 | 379.13 | 279.15 | 219.18 | 240.50 | 4,684.76 | 557.37 | 2.50 |  |
| Aug ...... | 300.05 | 379.79 | 285.63 | 221.99 | 245.27 | 4,639.27 | 559.11 | 2.49 |  |
| Sept ..... | 310.41 | 390.42 | 295.54 | 229.64 | 260.72 | 4,746.76 | 578.77 | 2.42 | 6.01 |
| Oct Nov | 311.78 | 389.63 | 291.16 | 236.43 | 265.12 | 4,760.46 | 582.92 | 2.41 |  |
| Nov ................... | 317.58 32790 | 398.66 412.11 | 300.06 303.53 | 238.98 247.59 | 266.12 273.36 | 4,935.81 $5,136.10$ | 595.53 614.57 | 2.37 2 |  |
| Dec .................... | 327.90 |  |  |  |  | 5,136.10 |  | 2.30 | $\ldots . . . . . . . .$. |

[^70] posite index, 500 stocks.
${ }^{3}$ 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.
${ }^{4}$ 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 4 quarters ending with particular quarter to price index for last day of that quarter. Annual data are averages of quarterly ratios.

Note.- All data relate to stocks listed on the New York Stock Exchange.
Sources: New York Stock Exchange (NYSE), Dow Jones \& Co., Inc., and Standard \& Poor's Corporation (S\&P).

Table B-92.-Business formation and business failures, 1950-95

| Year or month | Index of net business formation$\begin{gathered} (1967= \\ 100) \end{gathered}$ | New business incorporations (number) | Business failures ${ }^{1}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Business failure rate ${ }^{2}$ | Number of failures |  |  | Amount of current liabilities (millions of dollars) |  |  |
|  |  |  |  | Total | Liability size class |  | Total | Liability size class |  |
|  |  |  |  |  | $\begin{gathered} \text { Under } \\ \$ 100,000 \end{gathered}$ | $\begin{aligned} & \$ 100,000 \\ & \text { and over } \end{aligned}$ |  | $\begin{aligned} & \text { Under } \\ & \$ 100,000 \end{aligned}$ | $\$ 100,000$ and over |
| 1950 | 87.7 | 93,092 | 34.3 | 9,162 | 8,746 | 416 | 248.3 | 151.2 | 97.1 |
| 1951 | 86.7 | 83,778 | 30.7 | 8,058 | 7,626 | 432 | 259.5 | 131.6 | 128.0 |
| 1952 | 90.8 | 92,946 | 28.7 | 7,611 | 7,081 | 530 | 283.3 | 131.9 | 151.4 |
| 1953 | 89.7 | 102,706 | 33.2 | 8,862 | 8,075 | 787 | 394.2 | 167.5 | 226.6 |
| 1954 | 88.8 | 117,411 | 42.0 | 11,086 | 10,226 | 860 | 462.6 | 211.4 | 251.2 |
| 1955 | 96.6 | 139,915 | 41.6 | 10,969 | 10,113 | 856 | 449.4 | 206.4 | 243.0 |
| 1956 | 94.6 | 141,163 | 48.0 | 12,686 | 11,615 | 1,071 | 562.7 | 239.8 | 322.9 |
| 1957 | 90.3 | 137,112 | 51.7 | 13,739 | 12,547 | 1,192 | 615.3 | 267.1 | 348.2 |
| 1958 | 90.2 | 150,781 | 55.9 | 14,964 | 13,499 | 1,465 | 728.3 | 297.6 | 430.7 |
| 1959 .................. | 97.9 | 193,067 | 51.8 | 14,053 | 12,707 | 1,346 | 692.8 | 278.9 | 413.9 |
| 1960 | 94.5 | 182,713 | 57.0 | 15,445 | 13,650 | 1,795 | 938.6 | 327.2 | 611.4 |
| 1961 | 90.8 | 181,535 | 64.4 | 17,075 | 15,006 | 2,069 | 1,090.1 | 370.1 | 720.0 |
| 1962 | 92.6 | 182,057 | 60.8 | 15,782 | 13,772 | 2,010 | 1,213.6 | 346.5 | 867.1 |
| 1963 | 94.4 | 186,404 | 56.3 | 14,374 | 12,192 | 2,182 | 1,352.6 | 321.0 | 1,031.6 |
| 1964 | 98.2 | 197,724 | 53.2 | 13,501 | 11,346 | 2,155 | 1,329.2 | 313.6 | 1,015.6 |
| 1965 | 99.8 | 203,897 | 53.3 | 13,514 | 11,340 | 2,174 | 1,321.7 | 321.7 | 1,000.0 |
| 1966 | 99.3 | 200,010 | 51.6 | 13,061 | 10,833 | 2,228 | 1,385.7 | 321.5 | 1,064.1 |
| 1967 | 100.0 | 206,569 | 49.0 | 12,364 | 10,144 | 2,220 | 1,265.2 | 297.9 | 967.3 |
| 1968 | 108.3 | 233,635 | 38.6 | 9,636 | 7,829 | 1,807 | 941.0 | 241.1 | 699.9 |
| 1969 | 115.8 | 274,267 | 37.3 | 9,154 | 7,192 | 1,962 | 1,142.1 | 231.3 | 910.8 |
| 1970 | 108.8 | 264,209 | 43.8 | 10,748 | 8,019 | 2,729 | 1,887.8 | 269.3 | 1,618.4 |
| 1971 | 111.1 | 287,577 | 41.7 | 10,326 | 7,611 | 2,715 | 1,916.9 | 271.3 | 1,645.6 |
| 1972 | 119.3 | 316,601 | 38.3 | 9,566 | 7,040 | 2,526 | 2,000.2 | 258.8 | 1,741.5 |
| 1973 | 119.1 | 329,358 | 36.4 | 9,345 | 6,627 | 2,718 | 2,298.6 | 235.6 | 2,063.0 |
| 1974 | 113.2 | 319,149 | 38.4 | 9,915 | 6,733 | 3,182 | 3,053.1 | 256.9 | 2,796.3 |
| 1975 | 109.9 | 326,345 | 42.6 | 11,432 | 7,504 | 3,928 | 4,380.2 | 298.6 | 4,081.6 |
| 1976 | 120.4 | 375,766 | 34.8 | 9,628 | 6,176 | 3,452 | 3,011.3 | 257.8 | 2,753.4 |
| 1977 | 130.8 | 436,170 | 28.4 | 7,919 | 4,861 | 3,058 | 3,095.3 | 208.3 | 2,887.0 |
| 1978 ... | 138.1 | 478,019 | 23.9 | 6,619 | 3,712 | 2,907 | 2,656.0 | 164.7 | 2,491.3 |
| 1979 | 138.3 | 524,565 | 27.8 | 7,564 | 3,930 | 3,634 | 2,667.4 | 179.9 | 2,487.5 |
| 1980 | 129.9 | 533,520 | 42.1 | 11,742 | 5,682 | 6,060 | 4,635.1 | 272.5 | 4,362.6 |
| 1981 | 124.8 | 581,242 | 61.3 | 16,794 | 8,233 | 8,561 | 6,955.2 | 405.8 | 6,549.3 |
| 1982 | 116.4 | 566,942 | 88.4 | 24,908 | 11,509 | 13,399 | 15,610.8 | 541.7 | 15,069.1 |
| 1983 | 117.5 | 600,420 | 109.7 | 31,334 | 15,572 | 15,762 | 16,072.9 | 635.1 | 15,437.8 |
| 1984 | 121.3 | 634,991 | 107.0 | 52,078 | 33,527 | 18,551 | 29,268.6 | 409.8 | 28,858.8 |
| 1985 | 120.9 | 664,235 | 115.0 | 57,253 | 36,551 | 20,702 | 36,937.4 | 423.9 | 36,513.5 |
| 1986 | 120.4 | 702,738 | 120.0 | 61,616 | 38,908 | 22,708 | 44,724.0 | 838.3 | 43,885.7 |
| 1987 | 121.2 | 685,572 | 102.0 | 61,111 | 38,949 | 22,162 | 34,723.8 | 746.0 | 33,977.8 |
| 1988 | 124.1 | 685,095 | 98.0 | 57,097 | 38,300 | 18,797 | 39,573.0 | 686.9 | 38,886.1 |
| 1989 | 124.8 | 676,565 | 65.0 | 50,361 | 33,312 | 17,049 | 42,328.8 | 670.5 | 41,658.2 |
| 1990 | 120.7 | 647,366 | 74.0 | 60,747 | 40,833 | 19,914 | 56,130.1 | 735.6 | 55,394.5 |
| 1991 | 115.2 | 628,604 | 107.0 | 88,140 | 60,617 | 27,523 | 96,825.3 | 1,044.9 | 95,780.4 |
| 1992 | 116.3 | 666,800 | 110.0 | 97,069 | 68,264 | 28,805 | 94,317.5 | 1,096.7 | 93,220.8 |
| 1993 | 121.1 | 706,537 | 109.0 | 86,133 | 61,188 | 24,945 | 47,755.5 | 947.6 | 46,807.9 |
| 1994 | 125.5 | 741,657 | 86.0 | 71,558 | 50,814 | 20,744 | 28,977.9 | 845.0 | 28,132.9 |
| 1995 |  |  |  | 71,194 | 49,476 | 21,718 | 37,507.4 | 866.3 | 36,641.1 |
|  | Seasonally adjusted |  |  |  |  |  |  |  |  |
| 1994: Jan ..............Feb ......... <br> Mar ........... <br> Apr <br> May ............. <br> June ......... | 125.4 | 61,978 | .............. | 5,784 | 4,043 | 1,741 | 2,556.7 | 66.5 | 2,490.2 |
|  | 124.9 | 60,680 | ......... | 5,901 | 4,166 | 1,735 | 2,430.8 | 68.8 | 2,362.0 |
|  | 127.0 | 64,058 | .............. | 7,133 | 5,107 | 2,026 | 2,181.9 | 82.9 | 2,099.1 |
|  | 125.2 | 58,992 | ...... | 5,243 | 3,732 | 1,511 | 1,642.5 | 62.6 | 1,579.9 |
|  | 124.7 | 58,528 | ............. | 6,571 | 4,643 | 1,928 | 2,529.9 | 78.4 | 2,451.5 |
|  | 125.6 | 63,097 | .............. | 6,159 | 4,367 | 1,792 | 2,205.6 | 73.6 | 2,132.0 |
| July ............ | 122.7 | 56,380 | .............. | 5,436 | 3,809 | 1,627 | 2,212.8 | 63.7 | 2,149.1 |
| Aug ............ | 125.8 | 64,844 | .............. | 6,476 | 4,556 | 1,920 | 2,106.8 | 76.7 | 2,030.1 |
| Sept ........... | 125.3 | 64,564 | .............. | 6,001 | 4,276 | 1,725 | 3,434.0 | 74.3 | 3,359.7 |
| Oct ............ | 124.6 | 60,488 | .............. | 5,915 | 4,327 | 1,588 | 2,023.1 | 72.1 | 1,951.0 |
| Nov ............ | 127.9 | 64,542 | .............. | 5,534 | 3,930 | 1,604 | 2,511.8 | 63.7 | 2,448.2 |
| Dec ........... | 127.3 | 62,908 |  | 5,405 | 3,858 | 1,547 | 3,141.9 | 61.8 | 3,080.1 |
|  | 127.8 | 66,291 |  |  |  |  | 2,240.0 | 69.2 | 2,170.7 |
|  | 128.1 | 64,755 | ............. | 5,667 | 4,036 | 1,631 | 1,260.4 | 67.1 | 1,193.3 |
|  | 129.6 | 65,386 | ..... | 6,689 | 4,720 | 1,969 | 1,931.9 | 80.5 | 1,851.4 |
|  | 128.4 | 58,261 | ............. | 5,600 | 3,841 | 1,759 | 1,722.2 | 70.4 | 1,651.8 |
|  | 127.8 | 65,827 | .............. | 6,410 | 4,369 | 2,041 | 3,090.1 | 81.9 | 3,008.2 |
|  | 126.7 | ............. | ............. | 5,908 | 4,036 | 1,872 | 1,311.2 | 76.0 | 1,235.2 |
| July ........... | 127.4 | ............. | ............. | 4,682 | 3,189 | 1,493 | 2,311.9 | 58.6 | 2,253.3 |
| Aug ............ | 128.6 | ... | ..... | 6,346 | 4,381 | 1,965 | 2,221.6 | 79.1 | 2,142.5 |
| Sept ........... | 125.9 | ....... | .... | 5,424 | 3,744 | 1,680 | 2,487.2 | 67.1 | 2,420.0 |
| Oct ............ | 125.9 | .............. | .............. | 6,566 | 4,629 | 1,937 | 14,754.5 | 79.0 | 14,675.6 |
| Nov ............ | ......... | .............. | .............. | 6,096 | 4,283 | 1,813 | 2,045.8 | 73.3 | 1,972.5 |
| Dec ........... | .............. | ............. | ............. | 5,505 | 3,730 | 1,775 | 2,130.8 | 64.1 | 2,066.7 |

${ }^{1}$ Commercial and industrial failures only through 1983, excluding failures of banks, railroads, real estate, insurance, holding, and financial companies, steamship lines, travel agencies, etc.
Data beginning 1984 are based on expanded coverage and new methodology and are therefore not generally comparable with earlier data.
Data for 1995 are subject to revision due to amended court filings.
${ }^{2}$ Failure rate per 10,000 listed enterprises.

## AGRICULTURE

Table B-93.-F arm income, 1945-95
[Billions of dollars; quarterly data at seasonally adjusted annual rates]

| Year or quarter | Income of farm operators from farming |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gross farm income |  |  |  |  | Produc tion expenses | Net farm income |
|  | Total ${ }^{1}$ | Cash marketing receipts |  |  | Value of inventory changes ${ }^{2}$ |  |  |
|  |  | Total | Livestock and products | Crops |  |  |  |
| 1945 | 25.4 | 21.7 | 12.0 | 9.7 | -0.4 | 13.1 | 12.3 |
| 1946 ................................................................ | 29.6 | 24.8 | 13.8 | 11.0 | . 0 | 14.5 | 15.1 |
| 1947 | 32.4 | 29.6 | 16.5 | 13.1 | -1.8 | 17.0 | 15.4 |
| 1948 | 36.5 | 30.2 | 17.1 | 13.1 | 1.7 | 18.8 | 17.7 |
| 1949 ............................................................... | 30.8 | 27.8 | 15.4 | 12.4 | -. 9 | 18.0 | 12.8 |
| 1950 | 33.1 | 28.5 | 16.1 | 12.4 | . 8 | 19.5 | 13.6 |
| 1951 | 38.3 | 32.9 | 19.6 | 13.2 | 1.2 | 22.3 | 15.9 |
| 1952 | 37.8 | 32.5 | 18.2 | 14.3 | . 9 | 22.8 | 15.0 |
| 1953 ............................................................... | 34.4 | 31.0 | 16.9 | 14.1 | -. 6 | 21.5 | 13.0 |
| 1954 | 34.2 | 29.8 | 16.3 | 13.6 | . 5 | 21.8 | 12.4 |
| 1955 ................................................................. | 33.5 | 29.5 | 16.0 | 13.5 | . 2 | 22.2 | 11.3 |
| 1956 | 34.0 | 30.4 | 16.4 | 14.0 | -. 5 | 22.7 | 11.3 |
| 1957 | 34.8 | 29.7 | 17.4 | 12.3 | . 6 | 23.7 | 11.1 |
| 1958 .................................................................. | 39.0 | 33.5 | 19.2 | 14.2 | . 8 | 25.8 | 13.2 |
| 1959 ............................................................... | 37.9 | 33.6 | 18.9 | 14.7 | . 0 | 27.2 | 10.7 |
| 1960 | 38.6 | 34.0 | 19.0 | 15.0 | . 4 | 27.4 | 11.2 |
| 1961 ..................................................................... | 40.5 | 35.2 | 19.5 | 15.7 | . 3 | 28.6 | 12.0 |
| 1962 .................................................................. | 42.3 | 36.5 | 20.2 | 16.3 | . 6 | 30.3 | 12.1 |
| 1963 ................................................................... | 43.4 | 37.5 | 20.0 | 17.4 | . 6 | 31.6 | 11.8 |
| 1964 ...................................................................... | 42.3 | 37.3 | 19.9 | 17.4 | -. 8 | 31.8 | 10.5 |
| 1965 .................................................................... | 46.5 | 39.4 | 21.9 | 17.5 | 1.0 | 33.6 | 12.9 |
| 1966 ..................................................................... | 50.5 | 43.4 | 25.0 | 18.4 | -. 1 | 36.5 | 14.0 |
| 1967 ...................................................................... | 50.5 | 42.8 | 24.4 | 18.4 | . 7 | 38.2 | 12.3 |
| 1968 ..................................................................... | 51.8 | 44.2 | 25.5 | 18.7 | . 1 | 39.5 | 12.3 |
| 1969 ................................................................... | 56.4 | 48.2 | 28.6 | 19.6 | . 1 | 42.1 | 14.3 |
| 1970 | 58.8 | 50.5 | 29.5 | 21.0 | . 0 | 44.5 | 14.4 |
| 1971 .................................................................................................... | 62.1 | 52.7 | 30.5 | 22.3 | 1.4 | 47.1 | 15.0 |
| 1972 | 71.1 | 61.1 | 35.6 | 25.5 | . 9 | 51.7 | 19.5 |
| 1973 | 98.9 | 86.9 | 45.8 | 41.1 | 3.4 | 64.6 | 34.4 |
| 1974 | 98.2 | 92.4 | 41.3 | 51.1 | -1.6 | 71.0 | 27.3 |
| 1975 | 100.6 | 88.9 | 43.1 | 45.8 | 3.4 | 75.0 | 25.5 |
| 1976 | 102.9 | 95.4 | 46.3 | 49.0 | -1.5 | 82.7 | 20.2 |
| 1977 | 108.8 | 96.2 | 47.6 | 48.6 | 1.1 | 88.9 | 19.9 |
| 1978 ............................................................... | 128.4 | 112.4 | 59.2 | 53.2 | 1.9 | 103.3 | 25.2 |
| 1979 ................................................................ | 150.7 | 131.5 | 69.2 | 62.3 | 5.0 | 123.3 | 27.4 |
| 1980 | 149.3 | 139.7 | 68.0 | 71.7 | -6.3 | 133.1 | 16.1 |
| 1981 ............................................................................................................. | 166.3 | 141.6 | 69.2 | 72.5 | 6.5 | 139.4 | 26.9 |
| 1982 .................................................................. | 164.1 | 142.6 | 70.3 | 72.3 | -1.4 | 140.3 | 23.8 |
| 1983 .................................................................. | 153.9 | 136.8 | 69.6 | 67.2 | -10.9 | 139.6 | 14.2 |
| 1984 | 168.0 | 142.8 | 72.9 | 69.9 | 6.0 | 141.9 | 26.1 |
| 1985 | 161.2 | 144.1 | 69.8 | 74.3 | -2.3 | 132.4 | 28.8 |
| 1986 | 156.1 | 135.4 | 71.6 | 63.8 | -2.2 | 125.1 | 31.1 |
| 1987 | 168.3 | 141.8 | 76.0 | 65.8 | -2.3 | 130.2 | 38.0 |
| 1988 ................................................................. | 177.3 | 151.2 | 79.6 | 71.6 | -4.1 | 139.8 | 37.5 |
| 1989 ......................................................... | 191.9 | 160.8 | 83.9 | 76.9 | 3.8 | 146.9 | 45.0 |
| 1990 | 198.5 | 169.4 | 89.2 | 80.3 | 3.5 | 153.7 | 44.8 |
|  | 191.8 | 167.8 | 85.8 | 82.0 | -. 2 | 153.4 | 38.4 |
| 1992 ................................................................. | 200.5 | 171.3 | 85.6 | 85.7 | 4.2 | 152.6 | 47.9 |
| 1993 ................................................................ | 203.0 | 177.1 | 90.0 | 87.1 | -4.5 | 160.9 | 42.1 |
| 1994 ................................................................ | 213.5 | 179.7 | 88.1 | 91.6 | 8.7 | 166.7 | 46.7 |
| 1993:I .............................................................. | 203.9 | 174.3 | 83.7 | 90.6 | -8.0 | 158.5 | 45.4 |
| II ................................................................. | 203.4 | 177.2 | 87.9 | 89.3 | -6.3 | 160.8 | 42.7 |
| III ..................................................................................................... | 198.9 | 187.7 | 101.3 | 86.3 | -7.4 | 162.6 | 36.3 |
| IV .................................................................................................. | 205.6 | 169.4 | 87.3 | 82.1 | 3.7 | 161.7 | 43.9 |
| 1994:I .............................................................. | 218.8 | 178.8 | 92.0 | 86.8 | 10.6 | 164.3 | 54.5 |
| II ..................................................................................................... | 206.1 | 169.7 | 82.8 | 86.9 | 10.0 | 166.5 | 39.6 |
| III ........................................................... | 211.8 | 185.8 | 97.6 | 88.2 | 7.8 | 168.5 | 43.3 |
| IV ............................................................ | 217.1 | 184.4 | 79.9 | 104.5 | 6.3 | 167.6 | 49.5 |
| 1995:I ................................................................ | 211.4 | 184.4 | 87.5 | 96.9 | . 6 | 162.9 | 48.4 |
| II ................................................................. | 201.5 | 177.1 | 78.0 | 99.1 | . 6 | 165.3 | 36.3 |

[^71]Table B-94.-F arm business balance shett, 1950-94
[Billions of dollars]

| End of year | Assets |  |  |  |  |  |  |  | Claims |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total assets | Physical assets |  |  |  |  | Financial assets |  | Total claims | Real estate debt ${ }^{5}$ | Nonreal estate debt ${ }^{6}$ | Proprietors' equity |
|  |  | Real estate | Nonreal estate |  |  |  | Investments in cooperatives | Other ${ }^{4}$ |  |  |  |  |
|  |  |  | Livestock and poultry ${ }^{1}$ | Machinery and motor vehicles | Crops ${ }^{2}$ | Purchased inputs ${ }^{3}$ |  |  |  |  |  |  |
| 1950 | 121.6 | 75.4 | 17.1 | 12.3 | 7.1 | ........ | 2.7 | 7.0 | 121.6 | 5.2 | 5.7 | 110.7 |
| 1951 | 136.1 | 83.8 | 19.5 | 14.3 | 8.2 |  | 2.9 | 7.3 | 136.1 | 5.7 | 6.9 | 123.7 |
| 1952 | 133.0 | 85.1 | 14.8 | 15.0 | 7.9 | ........... | 3.2 | 7.1 | 133.0 | 6.2 | 7.1 | 119.7 |
| 1953 | 128.7 | 84.3 | 11.7 | 15.6 | 6.8 | .... | 3.3 | 7.0 | 128.7 | 6.6 | 6.3 | 115.7 |
| 1954 | 132.6 | 87.8 | 11.2 | 15.7 | 7.5 | .... | 3.5 | 6.9 | 132.6 | 7.1 | 6.7 | 118.9 |
| 1955 | 137.0 | 93.0 | 10.6 | 16.3 | 6.5 | .... | 3.7 | 6.9 | 137.0 | 7.8 | 7.3 | 121.9 |
| 1956 | 145.7 | 100.3 | 11.0 | 16.9 | 6.8 | ....... | 4.0 | 6.7 | 145.7 | 8.5 | 7.4 | 129.8 |
| 1957 | 154.5 | 106.4 | 13.9 | 17.0 | 6.4 | ........... | 4.2 | 6.6 | 154.5 | 9.0 | 8.2 | 137.3 |
| 1958 | 168.7 | 114.6 | 17.7 | 18.1 | 6.9 | ........... | 4.5 | 6.9 | 168.7 | 9.7 | 9.4 | 149.7 |
| 1959 | 173.0 | 121.2 | 15.2 | 19.3 | 6.2 | .......... | 4.8 | 6.2 | 173.0 | 10.6 | 10.7 | 151.7 |
| 1960 | 174.2 | 123.3 | 15.6 | 19.1 | 6.2 |  | 4.2 | 5.8 | 174.2 | 11.3 | 11.1 | 151.7 |
| 1961 | 181.4 | 129.1 | 16.4 | 19.3 | 6.3 | ........ | 4.5 | 5.9 | 181.4 | 12.3 | 11.8 | 157.3 |
| 1962 | 188.7 | 134.6 | 17.3 | 19.9 | 6.3 | ........ | 4.6 | 5.9 | 188.7 | 13.5 | 13.2 | 162.0 |
| 1963 | 196.5 | 142.4 | 15.9 | 20.4 | 7.2 | .......... | 5.0 | 5.7 | 196.5 | 15.0 | 14.6 | 166.9 |
| 1964 | 204.0 | 150.5 | 14.4 | 21.2 | 6.8 | .......... | 5.2 | 5.8 | 204.0 | 16.9 | 15.3 | 171.8 |
| 1965 | 220.6 | 161.5 | 17.6 | 22.4 | 7.7 | -......... | 5.4 | 6.0 | 220.6 | 18.9 | 16.9 | 184.8 |
| 1966 | 233.8 | 171.2 | 19.0 | 24.1 | 7.9 | -......... | 5.7 | 6.0 | 233.8 | 20.7 | 18.5 | 194.6 |
| 1967 | 245.8 | 180.9 | 18.8 | 26.3 | 7.7 | .......... | 5.8 | 6.1 | 245.8 | 22.6 | 19.6 | 203.6 |
| 1968 ............................ | 257.0 | 189.4 | 20.2 | 27.7 | 7.2 | ........... | 6.1 | 6.3 | 257.0 | 24.7 | 19.2 | 213.0 |
| 1969 ........................... | 267.6 | 195.3 | 22.8 | 28.6 | 8.1 | .......... | 6.4 | 6.4 | 267.6 | 26.4 | 20.0 | 221.2 |
| 1970 | 278.7 | 202.4 | 23.7 | 30.4 | 8.5 |  | 7.2 | 6.5 | 278.7 | 27.5 | 21.2 | 229.9 |
| 1971 | 301.5 | 217.6 | 27.3 | 32.4 | 9.7 | ........... | 7.9 | 6.7 | 301.5 | 29.3 | 24.0 | 248.3 |
| 1972 ............................ | 339.7 | 243.0 | 33.7 | 34.6 | 12.7 | .......... | 8.7 | 6.9 | 339.7 | 32.0 | 26.7 | 281.0 |
| 1973 | 418.3 | 298.3 | 42.4 | 39.7 | 21.1 | ........... | 9.7 | 7.1 | 418.3 | 36.1 | 31.6 | 350.6 |
| $1974{ }^{7}$......................... | 449.1 | 335.6 | 24.6 | 48.5 | 22.5 | ........... | 11.2 | 6.9 | 449.1 | 40.8 | 35.1 | 373.3 |
| 1975 ........................... | 510.7 | 383.6 | 29.4 | 57.4 | 20.5 | ........... | 13.0 | 6.9 | 510.7 | 45.3 | 39.7 | 425.7 |
| 1976 ........................... | 590.7 | 456.5 | 29.0 | 63.3 | 20.6 | ........... | 14.3 | 6.9 | 590.7 | 50.5 | 45.6 | 494.6 |
| 1977 ........................... | 651.5 | 509.3 | 31.9 | 69.3 | 20.4 | ........... | 13.5 | 7.0 | 651.5 | 58.4 | 52.4 | 540.6 |
| 1978 ........................... | 767.3 | 601.8 | 50.1 | 68.5 | 23.8 | ........... | 16.1 | 7.1 | 767.3 | 66.7 | 60.7 | 639.9 |
| 1979 | 898.1 | 706.1 | 61.4 | 75.4 | 29.9 |  | 18.1 | 7.3 | 898.1 | 79.7 | 71.8 | 746.6 |
| 1980 | 983.2 | 782.8 | 60.6 | 80.3 | 32.7 | .......... | 19.3 | 7.4 | 983.2 | 89.7 | 77.1 | 816.4 |
| 1981 ........................... | 982.3 | 785.6 | 53.5 | 85.5 | 29.5 | ........... | 20.6 | 7.6 | 982.3 | 98.8 | 83.6 | 799.9 |
| 1982 ........................... | 944.5 | 750.0 | 53.0 | 86.0 | 25.8 | .......... | 21.9 | 7.8 | 944.5 | 101.8 | 87.0 | 755.7 |
| 1983 | 943.3 | 753.4 | 49.5 | 85.8 | 23.6 |  | 22.8 | 8.1 | 943.3 | 103.2 | 87.9 | 752.2 |
| 1984 | 857.0 | 661.8 | 49.5 | 85.0 | 26.1 | 2.0 | 24.3 | 8.3 | 857.0 | 106.7 | 87.1 | 663.3 |
| 1985 | 772.7 | 586.2 | 46.3 | 82.9 | 22.9 | 1.2 | 24.3 | 9.0 | 772.7 | 100.1 | 77.5 | 595.1 |
| 1986 | 724.4 | 542.3 | 47.8 | 81.5 | 16.3 | 2.1 | 24.4 | 10.0 | 724.4 | 90.4 | 66.6 | 567.5 |
| 1987 | 757.4 | 563.5 | 58.0 | 80.0 | 17.7 | 3.2 | 25.3 | 9.9 | 757.4 | 82.4 | 62.0 | 613.0 |
| 1988 | 789.6 | 583.7 | 62.2 | 81.2 | 23.6 | 3.5 | 25.1 | 10.3 | 789.6 | 77.8 | 61.7 | 650.0 |
| 1989 | 815.3 | 600.9 | 66.2 | 85.1 | 23.7 | 2.6 | 26.3 | 10.5 | 815.3 | 76.0 | 61.9 | 677.4 |
| 1990 | 838.8 | 618.4 | 70.9 | 85.4 | 23.0 | 2.8 | 27.5 | 10.9 | 838.8 | 74.7 | 63.2 | 700.8 |
| 1991 | 843.7 | 624.4 | 68.1 | 85.8 | 22.2 | 2.7 | 28.7 | 11.8 | 843.7 | 74.9 | 64.3 | 704.5 |
| 1992 | 868.4 | 640.6 | 71.0 | 85.6 | 24.2 | 3.9 | 29.4 | 13.6 | 868.4 | 75.4 | 63.6 | 729.4 |
| 1993 | 902.9 | 670.9 | 72.8 | 85.2 | 23.3 | 4.2 | 31.3 | 15.3 | 902.9 | 76.0 | 65.9 | 761.0 |
| 1994 .......................... | 933.5 | 703.3 | 68.3 | 85.7 | 23.4 | 5.0 | 32.3 | 15.5 | 933.5 | 77.6 | 69.1 | 786.7 |

[^72]Source: Department of Agriculture.

Table B-95.-F arm output and productivity indexes, 1948-93
[1982=100]

| Year | Farm output |  |  |  |  |  | Productivity indicators ${ }^{4}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total ${ }^{1}$ | Livestock and products ${ }^{2}$ | Crops ${ }^{2}$ |  |  |  | Farm output per unit of total factor input | Farm output per unit of farm labor |
|  |  |  | Total ${ }^{3}$ | Feed crops | Food grains | Oil crops |  |  |
| 1948 .................................................... | 51 | 57 | 48 | 51 | 44 | 16 | 54 | 18 |
| 1949 ................................................... | 51 | 61 | 46 | 46 | 38 | 15 | 53 | 19 |
| 1950 | 51 | 63 | 44 | 47 | 35 | 18 | 53 | 20 |
| 1951 | 54 | 66 | 46 | 46 | 35 | 16 | 55 | 21 |
| 1952 | 55 | 67 | 48 | 47 | 44 | 16 | 56 | 23 |
| 1953 ................................................... | 55 | 69 | 48 | 47 | 41 | 16 | 57 | 24 |
| 1954 ...................................................... | 56 | 71 | 47 | 48 | 36 | 18 | 59 | 25 |
| 1955 | 58 | 73 | 49 | 51 | 34 | 20 | 58 | 25 |
| 1956 ........................................................................................ | 58 | 74 | 49 | 50 | 35 | 23 | 59 | 27 |
| 1957 .................................................... | 57 | 73 | 48 | 54 | 33 | 23 | 59 | 29 |
| 1958 ................................................... | 60 | 74 | 53 | 58 | 49 | 28 | 62 | 32 |
| 1959 ...................................................... | 62 | 77 | 53 | 58 | 39 | 25 | 62 | 33 |
| 1960 .................................................... | 63 | 77 | 55 | 61 | 47 | 27 | 64 | 34 |
| 1961 | 65 | 80 | 56 | 57 | 43 | 31 | 66 | 36 |
| 1962 | 65 | 81 | 56 | 58 | 40 | 31 | 67 | 36 |
| 1963 | 67 | 83 | 58 | 61 | 42 | 33 | 69 | 39 |
| 1964 | 67 | 86 | 56 | 55 | 46 | 33 | 70 | 41 |
| 1965 ..................................................... | 68 | 83 | 60 | 63 | 48 | 40 | 72 | 43 |
| 1966 ...................................................... | 68 | 84 | 59 | 62 | 48 | 43 | 71 | 46 |
| 1967 | 71 | 87 | 62 | 68 | 54 | 45 | 75 | 50 |
| 1968 | 72 | 87 | 63 | 67 | 57 | 51 | 77 | 53 |
| 1969 | 73 | 87 | 65 | 69 | 53 | 52 | 77 | 54 |
| 1970 | 73 | 90 | 63 | 64 | 50 | 52 | 77 | 55 |
| 1971 | 78 | 92 | 70 | 78 | 58 | 58 | 83 | 60 |
| 1972 ............................................ | 78 | 93 | 70 | 76 | 56 | 58 | 83 | 61 |
| 1973 ..................................................... | 81 | 94 | 75 | 78 | 61 | 70 | 84 | 63 |
| 1974 ................................................. | 77 | 92 | 68 | 66 | 65 | 56 | 80 | 64 |
| 1975 ... | 81 | 87 | 78 | 78 | 77 | 71 | 86 | 68 |
| 1976 ...................................................... | 83 | 92 | 77 | 78 | 77 | 60 | 85 | 70 |
|  | 88 | 93 | 84 | 84 | 72 | 81 | 91 | 77 |
| 1978 ..................................................... | 89 | 93 | 87 | 91 | 67 | 86 | 88 | 81 |
| 1979 | 95 | 95 | 95 | 96 | 78 | 105 | 91 | 89 |
| 1980 | 91 | 99 | 86 | 81 | 87 | 81 | 87 | 89 |
| 1981 | 100 | 101 | 99 | 98 | 103 | 92 | 97 | 98 |
| 1982 ..................................................... | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983 | 88 | 102 | 78 | 66 | 85 | 75 | 91 | 92 |
| 1984 | 99 | 101 | 97 | 97 | 94 | 87 | 103 | 104 |
| 1985 | 103 | 104 | 102 | 107 | 88 | 96 | 109 | 114 |
| 1986 ..................................................... | 100 | 104 | 97 | 102 | 77 | 88 | 110 | 117 |
| 1987 | 102 | 107 | 98 | 91 | 77 | 88 | 115 | 121 |
| 1988 | 95 | 109 | 86 | 67 | 70 | 72 | 111 | 111 |
| 1989 ................................................... | 103 | 109 | 99 | 91 | 77 | 87 | 120 | 121 |
| 1990 | 108 | 111 | 106 | 94 | 99 | 87 | 121 | 126 |
| 1991 | 108 | 114 | 104 | 92 | 75 | 93 | 121 | 125 |
| 1992 | 116 | 116 | 115 | 107 | 93 | 99 | 129 | 141 |
| 1993 ..................................................... | 108 | 117 | 101 | 82 | 88 | 85 | 119 | 133 |

[^73]Table B-96.-F arm input use, sel ected inputs, 1948-95

| Year | Farm population, April ${ }^{1}$ |  | Farm employment (thousands) ${ }^{3}$ |  |  | Crops harvested (millions of acres) ${ }^{5}$ | Selected indexes <br> of input use (1982=100) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number (thousands) | As percent of total population ${ }^{2}$ | Total | Self-employed and unpaid workers ${ }^{4}$ | Hired workers |  | Total | Farm labor | Farm real estate | Durable equipment | Energy | Agricultural chemicals ${ }^{6}$ | Feed, seed, and purchased livestock ${ }^{7}$ | Other purchased inputs |
| 1948 ....... | 24,383 | 16.6 | 10,363 | 8,026 | 2,337 | 356 | 95 | 278 | 92 | 38 | 65 | 35 | 55 | 73 |
| 1949 ........ | 24,194 | 16.2 |  | 7,712 | 2,252 | 360 | 97 | 272 | 94 | 45 | 72 | 36 | 57 |  |
| 1950 ... | 23,048 | 15.2 | 9,926 | 7,597 | 2,329 | 345 | 97 | 261 | 95 | 52 | 73 | 44 | 56 | 74 |
| 1951 ... | 21,890 | 14.2 | 9,546 | 7,310 | 2,236 | 344 | 98 | 251 | 97 | 58 | 76 | 43 | 59 | 80 |
| 1952 .. | 21,748 | 13.9 | 9,149 | 7,005 | 2,144 | 349 | 98 | 243 | 98 | 63 | 79 | 44 | 58 | 82 |
| 1953 | 19,874 | 12.5 | 8,864 | 6,775 | 2,089 | 348 | 97 | 230 | 99 | 66 | 81 | 43 | 60 | 79 |
| 1954 .... | 19,019 | 11.7 | 8,651 | 6,570 | 2,081 | 346 | 94 | 224 | 100 | 69 | 81 | 44 | 55 | 75 |
| 1955 | 19,078 | 11.5 | 8,381 | 6,345 | 2,036 | 340 | 99 | 227 | 100 | 70 | 83 | 46 | 62 | 78 |
| 1956 | 18,712 | 11.1 | 7,852 | 5,900 | 1,952 | 324 | 98 | 215 | 101 | 71 | 83 | 51 | 64 | 78 |
| 1957 | 17,656 | 10.3 | 7,600 | 5,660 | 1,940 | 324 | 97 | 201 | 101 | 69 | 82 | 49 | 67 | 80 |
| 1958 | 17,128 | 9.8 | 7,503 | 5,521 | 1,982 | 324 | 98 | 192 | 101 | 68 | 80 | 50 | 71 | 83 |
| 1959 .... | 16,592 | 9.3 | 7,342 | 5,390 | 1,952 | 324 | 100 | 191 | 101 | 68 | 81 | 57 | 72 | 95 |
| 1960 | 15,635 | 8.7 | 7,057 | 5,172 | 1,885 | 324 | 99 | 186 | 101 | 69 | 82 | 59 | 71 | 95 |
| 1961 | 14,803 | 8.1 | 6,919 | 5,029 | 1,890 | 302 | 97 | 181 | 98 | 68 | 84 | 62 | 68 | 93 |
| 1962 | 14,313 | 7.7 | 6,700 | 4,873 | 1,827 | 295 | 97 | 179 | 97 | 67 | 85 | 56 | 70 | 94 |
| 1963 | 13,367 | 7.1 | 6,518 | 4,738 | 1,780 | 298 | 98 | 174 | 97 | 67 | 86 | 62 | 73 | 95 |
| 1964 | 12,954 | 6.7 | 6,110 | 4,506 | 1,604 | 298 | 96 | 164 | 97 | 67 | 88 | 67 | 71 | 93 |
| 1965 | 12,363 | 6.4 | 5,610 | 4,128 | 1,482 | 298 | 95 | 160 | 96 | 69 | 89 | 72 | 70 | 94 |
| 1966 | 11,595 | 5.9 | 5,214 | 3,854 | 1,360 | 294 | 96 | 149 | 95 | 71 | 90 | 83 | 75 | 95 |
| 1967 .... | 10,875 | 5.5 | 4,903 | 3,650 | 1,253 | 306 | 95 | 142 | 98 | 73 | 90 | 79 | 75 | 95 |
| 1968 | 10,454 | 5.2 | 4,749 | 3,535 | 1,213 | 300 | 94 | 137 | 96 | 76 | 90 | 68 | 76 | 94 |
| 1969 .... | 10,307 | 5.1 | 4,596 | 3,419 | 1,176 | 290 | 95 | 135 | 95 | 78 | 92 | 73 | 81 | 92 |
| 1970 .... | 9,712 | 4.7 | 4,523 | 3,348 | 1,175 | 293 | 95 | 133 | 95 | 78 | 92 | 76 | 83 | 89 |
| 1971 .... | 9,425 | 4.5 | 4,436 | 3,275 | 1,161 | 305 | 94 | 131 | 97 | 79 | 90 | 80 | 81 | 86 |
| 1972 ........ | 9,610 | 4.6 | 4,373 | 3,228 | 1,146 | 294 | 95 | 129 | 95 | 79 | 89 | 85 | 83 | 87 |
| 1973 ........ | 9,472 | 4.5 | 4,337 | 3,169 | 1,168 | 321 | 97 | 129 | 99 | 81 | 90 | 95 | 83 | 94 |
| 1974 .... | 9,264 | 4.3 | 4,389 | 3,075 | 1,314 | 328 | 96 | 120 | 100 | 85 | 86 | 100 | 82 | 99 |
| 1975 | 8,864 | 4.1 | 4,331 | 3,021 | 1,310 | 336 | 95 | 120 | 99 | 89 | 101 | 92 | 78 | 97 |
| 1976 | 8,253 | 3.8 | 4,363 | 2,992 | 1,371 | 337 | 98 | 118 | 100 | 91 | 113 | 101 | 82 | 100 |
| 1977 | ${ }^{8} 6,194$ | ${ }^{8} 2.8$ | 4,143 | 2,852 | 1,291 | 345 | 96 | 114 | 100 | 94 | 119 | 99 | 78 | 102 |
| 1978 | ${ }^{8} 6,501$ | ${ }^{8} 2.9$ | 3,937 | 2,680 | 1,256 | 338 | 101 | 110 | 99 | 96 | 125 | 109 | 90 | 119 |
| 1979 ........ | ${ }^{8} 6,241$ | ${ }^{8} 2.8$ | 3,765 | 2,495 | 1,270 | 348 | 104 | 106 | 100 | 99 | 113 | 120 | 97 | 127 |
| 1980 ..... | 86,051 | 82.7 | 3,699 | 2,401 | 1,298 | 352 | 105 | 102 | 102 | 102 | 110 | 133 | 102 | 116 |
| 1981 ... | 85,850 | 82.5 | 93,582 | 9 2,324 | ${ }^{9} 1,258$ | 366 | 103 | 102 | 102 | 102 | 106 | 132 | 97 | 109 |
| 1982 | ${ }^{8} 5,628$ | ${ }^{8} 2.4$ | ${ }^{9} 3,466$ | ${ }^{9} 2,248$ | ${ }^{9} 1,218$ | 362 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983 ... | ${ }^{8} 5,787$ | ${ }^{8} 2.5$ | 93,349 | ${ }^{9} 2,171$ | ${ }^{9} 1,178$ | 306 | 97 | 95 | 93 | 95 | 97 | 93 | 102 | 106 |
| 1984 ........ | 5,754 | 2.4 | ${ }^{9} 3,233$ | ${ }^{9} 2,095$ | ${ }^{9} 1,138$ | 348 | 97 | 95 | 98 | 91 | 100 | 106 | 92 | 109 |
| 1985 .... | 5,355 | 2.2 | 3,116 | 2,018 | 1,098 | 342 | 94 | 91 | 97 | 86 | 90 | 100 | 93 | 103 |
| 1986 ... | 5,226 | 2.2 | 2,912 | 1,873 | 1,039 | 325 | 91 | 85 | 95 | 80 | 84 | 110 | 94 | 93 |
| 1987 ... | 4,986 | 2.1 | 2,897 | 1,846 | 1,051 | 302 | 89 | 84 | 91 | 74 | 93 | 101 | 91 | 97 |
| 1988 ... | 4,951 | 2.1 | 2,954 | 1,967 | 1,037 | 297 | 86 | 86 | 91 | 70 | 93 | 92 | 89 | 86 |
| 1989 ........ | 4,801 | 2.0 | 2,863 | 1,935 | 928 | 318 | 86 | 85 | 92 | 67 | 92 | 96 | 86 | 91 |
| 1990 ... | 4,591 | 1.9 | 2,891 | 2,000 | 892 | 322 | 89 | 85 | 91 | 65 | 92 | 98 | 93 | 103 |
| 1991 ........ | 4,632 | 1.9 | 2,877 | 1,968 | 910 | 318 | 90 | 87 | 91 | 63 | 92 | 103 | 91 | 110 |
| 1992 ... | ......... |  | 2,810 | 1,944 | 866 | 317 | 90 | 82 | 91 | 61 | 92 | 103 | 96 | 114 |
| 1993 ........ | ............ | ..... | 2,800 | 1,942 | 857 | 308 | 90 | 81 | 89 | 60 | 92 | 106 | 96 | 126 |
| 1994 ........ | ......... | ............. | 2,767 | 1,925 | 842 | 321 |  |  |  |  |  |  | ............ | ........... |
| 1995 P ..... | .............. | ..... | 2,827 | 1,958 | 869 | 315 | .......... | .......... | .......... | ............ | .......... | .............. | .............. | ...... |

[^74]Sources: Department of Agriculture and Department of Commerce (Bureau of the Census).

Table B-97.-Indexes of prices received and prices paid by farmers, 1975-95
[1990-92=100, except as noted]

| $\begin{gathered} \text { Year } \\ \text { or } \\ \text { month } \end{gathered}$ | Prices received by farmers |  |  | Prices paid by farmers |  |  |  |  |  |  |  |  |  |  | Addendum: Average farm real estate value per acre (dollars) ${ }^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | All commodities, services, interest, taxes, and wage rates ${ }^{1}$ | Production items |  |  |  |  |  |  |  |  | Wage rates |  |
|  | All farm products | Crops | Livestock and products |  | Total ${ }^{2}$ | Feed | Livestock and poultry | Fertilizer | Agri- <br> cul- <br> tural <br> chemi- <br> cals | Fuels | Farm <br> ma- <br> chin- <br> ery | Farm services | Rent |  |  |
| 1975 | 73 | 88 | 62 | 47 | 55 | 83 | 39 | 87 | 72 | 40 | 38 | 48 |  | 43 | 340 |
| 1976 | 75 | 87 | 64 | 50 | 59 | 83 | 47 | 74 | 78 | 43 | 43 | 52 |  | 48 | 397 |
| 1977 | 73 | 83 | 64 | 53 | 61 | 82 | 48 | 72 | 71 | 46 | 47 | 57 |  | 51 | 474 |
| 1978 | 83 | 89 | 78 | 58 | 67 | 80 | 65 | 72 | 66 | 48 | 51 | 60 |  | 55 | 531 |
| 1979 ... | 94 | 98 | 90 | 66 | 76 | 89 | 88 | 77 | 67 | 61 | 56 | 66 |  | 60 | 628 |
| 1980 | 98 | 107 | 89 | 75 | 85 | 98 | 85 | 96 | 71 | 86 | 63 | 81 |  | 65 | 737 |
| 1981 | 100 | 111 | 89 | 82 | 92 | 110 | 80 | 104 | 77 | 98 | 70 | 89 |  | 70 | 819 |
| 1982 | 94 | 98 | 90 | 86 | 94 | 99 | 78 | 105 | 83 | 97 | 76 | 96 |  | 74 | 823 |
| 1983 | 98 | 108 | 88 | 86 | 92 | 107 | 76 | 100 | 87 | 94 | 81 | 82 |  | 76 | 788 |
| 1984 .... | 101 | 111 | 91 | 89 | 94 | 112 | 73 | 103 | 90 | 93 | 85 | 86 |  | 77 | 801 |
| 1985 | 91 | 98 | 86 | 86 | 91 | 95 | 74 | 98 | 90 | 93 | 85 | 85 |  | 78 | 713 |
| 1986 ... | 87 | 87 | 88 | 85 | 86 | 88 | 73 | 90 | 89 | 76 | 83 | 83 |  | 81 | 640 |
| 1987 ... | 89 | 86 | 91 | 87 | 87 | 83 | 85 | 86 | 87 | 76 | 85 | 84 |  | 85 | 599 |
| 1988 | 99 | 104 | 93 | 91 | 90 | 104 | 91 | 94 | 89 | 77 | 89 | 85 |  | 87 | 632 |
| 1989 ... | 104 | 109 | 100 | 96 | 95 | 110 | 93 | 99 | 93 | 83 | 94 | 91 |  | 95 | 668 |
| 1990 | 104 | 103 | 105 | 99 | 99 | 103 | 102 | 97 | 95 | 100 | 96 | 96 | 96 | 96 | 683 |
| 1991 | 100 | 101 | 99 | 100 | 100 | 98 | 102 | 103 | 101 | 104 | 100 | 98 | 100 | 100 | 703 |
| 1992 | 98 | 101 | 97 | 101 | 101 | 99 | 96 | 100 | 103 | 96 | 104 | 103 | 104 | 105 | 713 |
| 1993 | 101 | 102 | 100 | 103 | 103 | 99 | 104 | 97 | 107 | 92 | 106 | 108 | 100 | 108 | 736 |
| 1994 | 100 | 105 | 95 | 106 | 106 | 105 | 95 | 106 | 112 | 84 | 110 | 113 | 108 | 111 | 782 |
| 1995 ......... | 102 | 112 | 92 | 109 | 108 | 103 | 84 | 117 | 115 | 88 | 116 | 117 | 116 | 113 | 832 |
| 1994: Jan .............. | 105 | 110 | 988 | 106 | 106 | 109 | 100 | 100 | 110 | 75 | 109 | 112 | 108 | 113 | 782 |
| Mar ................. | 105 | 109 | 101 |  |  |  |  |  |  |  |  |  |  |  |  |
| Apr ............. | 102 | 105 | 100 | 107 | 107 | 109 | 100 | 104 | 109 | 90 | 114 | 112 | 108 | 111 |  |
| May ............. | 101 | 107 | 97 |  |  |  |  |  |  |  |  |  |  |  |  |
| June ............ | 100 | 108 | 94 |  |  |  |  |  |  |  |  |  |  |  |  |
| July ............. | 97 | 103 | 92 | 106 | 106 | 104 | 91 | 109 | 113 | 83 | 109 | 112 | 108 | 107 |  |
| Aug ............. | 97 | 101 | 94 |  |  |  |  |  |  |  |  |  |  |  |  |
| Sept ............. | 97 | 102 | 91 |  |  |  |  |  |  |  |  |  |  |  |  |
| Oct ............. | 95 | 99 | 89 | 106 | 105 | 98 | 87 | 111 | 114 | 87 | 108 | 114 | 108 | 112 |  |
| Nov ............. | 95 | 100 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |
| Dec ............. | 98 | 106 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1995: Jan ............. | 98 | 103 | 93 | 108 | 107 | 97 | 92 | 115 | 114 | 84 | 111 | 116 | 116 | 116 | 832 |
| Feb .............. | 97 | 101 | 94 |  |  |  |  |  |  |  |  |  |  |  | ............ |
| Mar ............. | 99 | 107 | 93 |  |  |  |  |  |  |  |  |  |  |  | ....... |
| Apr ............. | 99 | 113 | 90 | 108 | 107 | 100 | 82 | 122 | 115 | 92 | 119 | 115 | 116 | 112 | ............ |
| May ............ | 101 | 117 | 88 |  |  |  |  |  |  |  |  |  |  |  |  |
| June ............ | 100 | 113 | 90 |  |  |  |  |  |  |  |  |  |  |  |  |
| July ............. | 101 | 114 | 91 | 108 | 107 | 102 | 81 | 118 | 115 | 88 | 118 | 118 | 116 | 111 |  |
| Aug ............. | 102 | 114 | 92 |  |  |  |  |  |  |  |  |  |  |  |  |
| Sept ............ | 105 | 115 | 93 |  |  |  |  |  |  |  |  |  |  |  | ............ |
| Oct ............. | 104 | 114 | 92 | 111 | 110 | 112 | 80 | 114 | 115 | 88 | 117 | 119 | 116 | 114 | ............ |
| Nov ............. | 106 | 117 | 94 |  |  |  |  |  |  |  |  |  |  | .......... | ............ |
| Dec ............. | 108 | 118 | 96 | ............... | ........... | ........... |  |  |  |  | .......... | .......... | ........... | ........... | ............ |

[^75]Source: Department of Agriculture.

Table B-98.-U.S. exports and imports of agricultural commodities, 1940-95
[Billions of dollars]

| Year | Exports |  |  |  |  |  |  | Imports |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total ${ }^{1}$ | Feed grains | Food grains ${ }^{2}$ | Oil- <br> seeds <br> and <br> prod- <br> ucts | $\begin{aligned} & \text { Cot- } \\ & \text { ton } \end{aligned}$ | Tobacco | Ani- <br> mals <br> and <br> prod- <br> ucts | Total ${ }^{1}$ | Crops, fruits, and vegetables ${ }^{3}$ | Ani- <br> mals <br> and <br> prod- <br> ucts | Coffee | Cocoa <br> beans <br> and <br> prod- <br> ucts |  |
| 1940. | 0.5 | (4) | $\left.{ }^{4}\right)$ | $\left.{ }^{4}\right)$ | 0.2 | (4) | 0.1 | 1.3 | $\left.{ }^{4}\right)$ | 0.2 | 0.1 | (4) | -0.8 |
| 1941 .................... | . 7 | (4) | 0.1 | (4) | . 1 | 0.1 | . 3 | 1.7 | 0.1 | . 3 | . 2 | (4) | -1.0 |
| 1942 .................... | 1.2 | (4) | ${ }^{4}$ ) | (4) | . 1 | . 1 | . 8 | 1.3 | ${ }^{4}$ ) | . 5 | . 2 | (4) | -. 1 |
| 1943 ... | 2.1 | (4) | . 1 | 0.1 | . 2 | . 2 | 1.2 | 1.5 | . 1 | . 4 | . 3 | (4) | . 6 |
| 1944 ................... | 2.1 | $\left.{ }^{4}\right)$ | . 1 | 1 | . 1 | . 1 | 1.3 | 1.8 | . 1 | . 3 | . 3 | (4) | . 3 |
| 1945 ... | 2.3 | (4) | . 4 | (4) | . 3 | . 2 | . 9 | 1.7 | . 1 | . 4 | . 3 | (4) | . 5 |
| 1946 .................... | 3.1 | 0.1 | . 7 | (4) | . 5 | . 4 | . 9 | 2.3 | . 2 | . 4 | . 5 | 0.1 | . 8 |
| 1947 .................... | 4.0 | . 4 | 1.4 | . 1 | . 4 | . 3 | . 7 | 2.8 | . 1 | . 4 | . 6 | . 2 | 1.2 |
| 1948 .. | 3.5 | . 1 | 1.5 | . 2 | . 5 | . 2 | . 5 | 3.1 | . 2 | . 6 | . 7 | . 2 | . 3 |
| 1949 .................... | 3.6 | . 3 | 1.1 | . 3 | . 9 | . 3 | . 4 | 2.9 | . 2 | . 4 | . 8 | . 1 | . 7 |
| 1950 .................. | 2.9 | . 2 | . 6 | . 2 | 1.0 | . 3 | . 3 | 4.0 | . 2 | . 7 | 1.1 | . 2 | -1.1 |
| 1951 ................... | 4.0 | . 3 | 1.1 | . 3 | 1.1 | . 3 | . 5 | 5.2 | . 2 | 1.1 | 1.4 | . 2 | -1.1 |
| 1952 ................... | 3.4 | . 3 | 1.1 | . 2 | . 9 | . 2 | . 3 | 4.5 | . 2 | . 7 | 1.4 | . 2 | -1.1 |
| 1953 ................... | 2.8 | . 3 | . 7 | . 2 | . 5 | . 3 | . 4 | 4.2 | . 2 | . 6 | 1.5 | 2 | -1.3 |
| 1954 ................... | 3.1 | . 2 | . 5 | . 3 | . 8 | . 3 | . 5 | 4.0 | . 2 | . 5 | 1.5 | . 3 | -. 9 |
| 1955 .................. | 3.2 | . 3 | . 6 | . 4 | . 5 | . 4 | . 6 | 4.0 | . 2 | . 5 | 1.4 | . 2 | -. 8 |
| 1956 .................... | 4.2 | . 4 | 1.0 | . 5 | . 7 | . 3 | . 7 | 4.0 | . 2 | . 4 | 1.4 | . 2 | . 2 |
| 1957 ................... | 4.5 | . 3 | 1.0 | . 5 | 1.0 | . 4 | . 7 | 4.0 | . 2 | . 5 | 1.4 | . 2 | . 6 |
| 1958 ................... | 3.9 | . 5 | . 8 | . 4 | . 7 | . 4 | . 5 | 3.9 | . 2 | . 7 | 1.2 | . 2 | ${ }^{(4)}$ |
| 1959 ................... | 4.0 | . 6 | . 9 | . 6 | . 4 | . 3 | . 6 | 4.1 | . 2 | . 8 | 1.1 | . 2 | -. 1 |
| 1960 .................. | 4.8 | . 5 | 1.2 | . 6 | 1.0 | . 4 | . 6 | 3.8 | . 2 | . 6 | 1.0 | . 2 | 1.0 |
| 1961 .................... | 5.0 | . 5 | 1.4 | . 6 | . 9 | . 4 | . 6 | 3.7 | . 2 | . 7 | 1.0 | . 2 | 1.3 |
| 1962 .. | 5.0 | . 8 | 1.3 | . 7 | . 5 | . 4 | . 6 | 3.9 | . 2 | . 9 | 1.0 | . 2 | 1.2 |
| 1963 ................... | 5.6 | . 8 | 1.5 | . 8 | . 6 | . 4 | . 7 | 4.0 | . 3 | . 9 | 1.0 | . 2 | 1.6 |
| 1964 ................... | 6.3 | . 9 | 1.7 | 1.0 | . 7 | . 4 | . 8 | 4.1 | . 3 | . 8 | 1.2 | . 2 | 2.3 |
| 1965 .................. | 6.2 | 1.1 | 1.4 | 1.2 | . 5 | . 4 | . 8 | 4.1 | . 3 | . 9 | 1.1 | . 1 | 2.1 |
| 1966 ... | 6.9 | 1.3 | 1.8 | 1.2 | . 4 | . 5 | . 7 | 4.5 | . 4 | 1.2 | 1.1 | . 1 | 2.4 |
| 1967 .. | 6.4 | 1.1 | 1.5 | 1.3 | . 5 | . 5 | . 7 | 4.5 | . 4 | 1.1 | 1.0 | . 2 | 1.9 |
| 1968 ................... | 6.3 | . 9 | 1.4 | 1.3 | . 5 | . 5 | . 7 | 5.0 | . 5 | 1.3 | 1.2 | . 2 | 1.3 |
| 1969 ................... | 6.0 | . 9 | 1.2 | 1.3 | . 3 | . 6 | . 8 | 5.0 | . 5 | 1.4 | . 9 | . 2 | 1.1 |
| 1970 .. | 7.3 | 1.1 | 1.4 | 1.9 | 4 | . 5 | . 9 | 5.8 | . 5 | 1.6 | 1.2 | . 3 | 1.5 |
| 1971 .................... | 7.7 | 1.0 | 1.3 | 2.2 | . 6 | . 5 | 1.0 | 5.8 | . 6 | 1.5 | 1.2 | . 2 | 1.9 |
| 1972 ................... | 9.4 | 1.5 | 1.8 | 2.4 | . 5 | . 7 | 1.1 | 6.5 | . 7 | 1.8 | 1.3 | . 2 | 2.9 |
| 1973 . | 17.7 | 3.5 | 4.7 | 4.3 | . 9 | . 7 | 1.6 | 8.4 | . 8 | 2.6 | 1.7 | . 3 | 9.3 |
| 1974 ................... | 21.9 | 4.6 | 5.4 | 5.7 | 1.3 | . 8 | 1.8 | 10.2 | . 8 | 2.2 | 1.6 | . 5 | 11.7 |
| 1975 ................... | 21.9 | 5.2 | 6.2 | 4.5 | 1.0 | . 9 | 1.7 | 9.3 | . 8 | 1.8 | 1.7 | . 5 | 12.6 |
| 1976 .................... | 23.0 | 6.0 | 4.7 | 5.1 | 1.0 | . 9 | 2.4 | 11.0 | . 9 | 2.3 | 2.9 | . 6 | 12.0 |
| 1977 ................... | 23.6 | 4.9 | 3.6 | 6.6 | 1.5 | 1.1 | 2.7 | 13.4 | 1.2 | 2.3 | 4.2 | 1.0 | 10.2 |
| 1978 .. | 29.4 | 5.9 | 5.5 | 8.2 | 1.7 | 1.4 | 3.0 | 14.8 | 1.5 | 3.1 | 4.0 | 1.4 | 14.6 |
| 1979 ................... | 34.7 | 7.7 | 6.3 | 8.9 | 2.2 | 1.2 | 3.8 | 16.7 | 1.7 | 3.9 | 4.2 | 1.2 | 18.0 |
| 1980 .. | 41.2 | 9.8 | 7.9 | 9.4 | 2.9 | 1.3 | 3.8 | 17.4 | 1.7 | 3.8 | 4.2 | . 9 | 23.8 |
| 1981 .. | 43.3 | 9.4 | 9.6 | 9.6 | 2.3 | 1.5 | 4.2 | 16.9 | 2.0 | 3.5 | 2.9 | . 9 | 26.4 |
| 1982 . | 36.6 | 6.4 | 7.9 | 9.1 | 2.0 | 1.5 | 3.9 | 15.3 | 2.3 | 3.7 | 2.9 | . 7 | 21.3 |
| 1983 ................... | 36.1 | 7.3 | 7.4 | 8.7 | 1.8 | 1.5 | 3.8 | 16.5 | 2.3 | 3.8 | 2.8 | . 8 | 19.6 |
| 1984 ................... | 37.8 | 8.1 | 7.5 | 8.4 | 2.4 | 1.5 | 4.2 | 19.3 | 3.1 | 4.1 | 3.3 | 1.1 | 18.5 |
| 1985 ................... | 29.0 | 6.0 | 4.5 | 5.8 | 1.6 | 1.5 | 4.1 | 20.0 | 3.5 | 4.2 | 3.3 | 1.4 | 9.1 |
| 1986 .. | 26.2 | 3.1 | 3.8 | 6.5 | . 8 | 1.2 | 4.5 | 21.5 | 3.6 | 4.5 | 4.6 | 1.1 | 4.7 |
| 1987 . | 28.7 | 3.8 | 3.8 | 6.4 | 1.6 | 1.1 | 5.2 | 20.4 | 3.6 | 4.9 | 2.9 | 1.2 | 8.3 |
| 1988 | 37.1 | 5.9 | 5.9 | 7.7 | 2.0 | 1.3 | 6.4 | 21.0 | 3.8 | 5.2 | 2.5 | 1.0 | 16.1 |
| 1989 .................... | 39.9 | 7.7 | 7.1 | 6.3 | 2.3 | 1.3 | 6.4 | 21.7 | 4.2 | 5.1 | 2.4 | 1.0 | 18.2 |
| 1990. | 39.4 | 7.0 | 4.8 | 5.7 | 2.8 | 1.4 | 6.7 | 22.8 | 4.9 | 5.6 | 1.9 | 1.1 | 16.6 |
| 1991 .................... | 39.2 | 5.7 | 4.2 | 6.4 | 2.5 | 1.4 | 7.0 | 22.7 | 4.8 | 5.5 | 1.9 | 1.1 | 16.5 |
| 1992 ................... | 42.9 | 5.7 | 5.4 | 7.2 | 2.0 | 1.7 | 7.9 | 24.6 | 4.9 | 5.7 | 1.7 | 1.1 | 18.3 |
| 1993 ... | 42.6 | 5.0 | 5.6 | 7.3 | 1.5 | 1.3 | 7.9 | 25.0 | 5.0 | 5.9 | 1.5 | 1.1 | 17.6 |
| 1994 ................... | 45.7 | 4.7 | 5.3 | 7.2 | 2.7 | 1.3 | 9.1 | 26.8 | 5.4 | 5.7 | 2.5 | 1.0 | 18.9 |
| $\begin{gathered} \text { Jan-Oct: } \\ 1994 \text {... } \end{gathered}$ | 36.0 | 3.6 | 4.2 | 5.4 | 2.0 | 1.0 | 7.3 | 22.1 | 4.5 | 4.8 | 1.9 | . 9 | 13.9 |
| 1995 ................ | 45.2 | 6.6 | 5.4 | 7.1 | 2.9 | 1.1 | 9.0 | 25.0 | 4.9 | 5.0 | 2.7 | . 9 | 20.2 |

${ }^{1}$ Total includes items not shown separately.
${ }^{2}$ Rice, wheat, and wheat flour.
${ }^{3}$ Includes nuts, fruits, and vegetable preparations.
${ }^{4}$ Less than $\$ 50$ million.
Note.- Data derived from official estimates released by the Bureau of the Census, Department of Commerce. Agricultural commodities are defined as (1) nonmarine food products and (2) other products of agriculture which 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.

Source: Department of Agriculture.

## INTERNATIONAL STATISTICS

Table B-99.- U.S. international transadions, 1946-95
[Millions of dollars; quarterly data seasonally adjusted, except as noted. Credits ( + ), debits ( - )]

| Year or quarter | Merchandise ${ }^{1}$ |  |  | Services |  |  | Balance on goods and services | Investment income |  |  | Unilateral transfers, net ${ }^{3}$ | Balance on current account |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Exports | Imports | Net | Net military transactions ${ }^{23}$ | Net <br> travel <br> and <br> transpor- <br> tation <br> receipts | Other services, net |  | Receipts on U.S. assets abroad | Payments on foreign assets in U.S. | Net |  |  |
| 1946 | 11,764 | -5,067 | 6,697 | -424 | 733 | 310 | 7,316 | 772 | -212 | 560 | -2,991 | 4,885 |
| 1947 | 16,097 | -5,973 | 10,124 | -358 | 946 | 145 | 10,857 | 1,102 | -245 | 857 | -2,722 | 8,992 |
| 1948 | 13,265 | -7,557 | 5,708 | -351 | 374 | 175 | 5,906 | 1,921 | -437 | 1,484 | -4,973 | 2,417 |
| 1949 . | 12,213 | -6,874 | 5,339 | -410 | 230 | 208 | 5,367 | 1,831 | -476 | 1,355 | -5,849 | 873 |
| 1950 | 10,203 | -9,081 | 1,122 | -56 | -120 | 242 | 1,188 | 2,068 | -559 | 1,509 | -4,537 | -1,840 |
| 1951 | 14,243 | -11,176 | 3,067 | 169 | 298 | 254 | 3,788 | 2,633 | -583 | 2,050 | -4,954 | 884 |
| 1952. | 13,449 | -10,838 | 2,611 | 528 | 83 | 309 | 3,531 | 2,751 | -555 | 2,196 | -5,113 | 614 |
| 1953. | 12,412 | -10,975 | 1,437 | 1,753 | -238 | 307 | 3,259 | 2,736 | -624 | 2,112 | -6,657 | -1,286 |
| 1954. | 12,929 | -10,353 | 2,576 | 902 | -269 | 305 | 3,514 | 2,929 | -582 | 2,347 | -5,642 | 219 |
| 1955 | 14,424 | -11,527 | 2,897 | -113 | -297 | 299 | 2,786 | 3,406 | -676 | 2,730 | -5,086 | 430 |
| 1956 | 17,556 | -12,803 | 4,753 | -221 | -361 | 447 | 4,618 | 3,837 | -735 | 3,102 | -4,990 | 2,730 |
| 1957 | 19,562 | -13,291 | 6,271 | -423 | -189 | 482 | 6,141 | 4,180 | -796 | 3,384 | -4,763 | 4,762 |
| 1958 .. | 16,414 | -12,952 | 3,462 | -849 | -633 | 486 | 2,466 | 3,790 | -825 | 2,965 | -4,647 | 784 |
| 1959 .. | 16,458 | -15,310 | 1,148 | -831 | -821 | 573 | 69 | 4,132 | -1,061 | 3,071 | -4,422 | -1,282 |
| 1960 | 19,650 | -14,758 | 4,892 | -1,057 | -964 | 639 | 3,508 | 4,616 | -1,238 | 3,379 | -4,062 | 2,824 |
| 1961. | 20,108 | -14,537 | 5,571 | -1,131 | -978 | 732 | 4,195 | 4,999 | -1,245 | 3,755 | -4,127 | 3,822 |
| 1962. | 20,781 | -16,260 | 4,521 | -912 | -1,152 | 912 | 3,370 | 5,618 | -1,324 | 4,294 | -4,277 | 3,387 |
| 1963 | 22,272 | -17,048 | 5,224 | -742 | -1,309 | 1,036 | 4,210 | 6,157 | -1,560 | 4,596 | -4,392 | 4,414 |
| 1964 | 25,501 | -18,700 | 6,801 | -794 | -1,146 | 1,161 | 6,022 | 6,824 | -1,783 | 5,041 | -4,240 | 6,823 |
| 1965 | 26,461 | -21,510 | 4,951 | -487 | -1,280 | 1,480 | 4,664 | 7,437 | -2,088 | 5,350 | -4,583 | 5,431 |
| 1966 | 29,310 | -25,493 | 3,817 | -1,043 | -1,331 | 1,497 | 2,940 | 7,528 | -2,481 | 5,047 | -4,955 | 3,031 |
| 1967 | 30,666 | -26,866 | 3,800 | -1,187 | -1,750 | 1,742 | 2,604 | 8,021 | -2,747 | 5,274 | -5,294 | 2,583 |
| 1968. | 33,626 | -32,991 | 635 | -596 | -1,548 | 1,759 | 250 | 9,367 | -3,378 | 5,990 | -5,629 | 611 |
| 1969 .. | 36,414 | -35,807 | 607 | -718 | -1,763 | 1,964 | 91 | 10,913 | -4,869 | 6,044 | -5,735 | 399 |
| 1970 | 42,469 | -39,866 | 2,603 | -641 | -2,038 | 2,330 | 2,254 | 11,748 | -5,515 | 6,233 | -6,156 | 2,331 |
| 1971 | 43,319 | -45,579 | -2,260 | 653 | -2,345 | 2,649 | -1,303 | 12,707 | -5,435 | 7,272 | -7,402 | -1,433 |
| 1972 | 49,381 | -55,797 | -6,416 | 1,072 | -3,063 | 2,965 | -5,443 | 14,765 | -6,572 | 8,192 | -8,544 | -5,795 |
| 1973 | 71,410 | -70,499 | 911 | 740 | -3,158 | 3,406 | 1,900 | 21,808 | -9,655 | 12,153 | -6,913 | 7,140 |
| 1974 | 98,306 | -103,811 | -5,505 | 165 | -3,184 | 4,231 | -4,292 | 27,587 | -12,084 | 15,503 | 4-9,249 | 1,962 |
| 1975 | 107,088 | -98,185 | 8,903 | 1,461 | -2,812 | 4,854 | 12,404 | 25,351 | -12,564 | 12,787 | -7,075 | 18,116 |
| 1976 | 114,745 | -124,228 | -9,483 | 931 | -2,558 | 5,027 | -6,082 | 29,375 | -13,311 | 16,063 | -5,686 | 4,295 |
| 1977. | 120,816 | -151,907 | -31,091 | 1,731 | -3,565 | 5,680 | -27,246 | 32,354 | -14,217 | 18,137 | -5,226 | -14,335 |
| 1978. | 142,075 | -176,002 | -33,927 | 857 | -3,573 | 6,879 | $-29,763$ | 42,088 | -21,680 | 20,408 | -5,788 | -15,143 |
| 1979 . | 184,439 | -212,007 | -27,568 | -1,313 | -2,935 | 7,251 | -24,565 | 63,834 | -32,961 | 30,873 | -6,593 | -285 |
| 1980 .. | 224,250 | -249,750 | $-25,500$ | -1,822 | -997 | 8,912 | -19,407 | 72,606 | $-42,532$ | 30,073 | -8,349 | 2,317 |
| 1981 | 237,044 | -265,067 | -28,023 | -844 | 144 | 12,552 | -16,172 | 86,529 | -53,626 | 32,903 | -11,702 | 5,030 |
| 1982 | 211,157 | -247,642 | -36,485 | 112 | -992 | 13,209 | $-24,156$ | 86,200 | -56,412 | 29,788 | -17,075 | -11,443 |
| 1983 | 201,799 | -268,901 | -67,102 | -563 | -4,227 | 14,124 | -57,767 | 85,200 | -53,700 | 31,500 | -17,718 | -43,985 |
| 1984 | 219,926 | -332,418 | -112,492 | -2,547 | -8,438 | 14,404 | -109,073 | 104,756 | -74,036 | 30,720 | -20,598 | -98,951 |
| 1985 | 215,915 | -338,088 | -122,173 | -4,390 | -9,798 | 14,483 | -121,880 | 93,677 | -73,087 | 20,590 | -22,954 | -124,243 |
| 1986 | 223,344 | -368,425 | -145,081 | -5,181 | -8,484 | 19,194 | -139,551 | 91,976 | -79,095 | 12,881 | -24,189 | -150,859 |
| 1987 | 250,208 | -409,765 | -159,557 | -3,844 | $-7,613$ | 18,319 | -152,696 | 100,767 | -91,302 | 9,465 | -23,107 | -166,338 |
| 1988 | 320,230 | -447,189 | -126,959 | -6,320 | -2,591 | 20,546 | -115,324 | 129,070 | -115,806 | 13,264 | -25,023 | -127,083 |
| 1989 | 362,120 | -477,365 | -115,245 | -6,749 | 4,043 | 26,558 | -91,392 | 152,517 | $-138,858$ | 13,659 | -26,106 | -103,839 |
| 1990 ... | 389,307 | -498,337 | -109,030 | -7,599 | 8,002 | 28,633 | -79,994 | 160,300 | $-139,574$ | 20,725 | -33,393 | -92,661 |
| 1991 ... | 416,913 | -490,981 | -74,068 | -5,274 | 17,032 | 32,907 | -29,404 | 137,003 | $-121,892$ | 15,111 | 6,869 | -7,424 |
| 1992 ... | 440,352 | -536,458 | -96,106 | -2,142 | 20,484 | 38,284 | -39,480 | 118,425 | -108,346 | 10,079 | -32,148 | -61,549 |
| 1993 ... | 456,823 | -589,441 | -132,618 | 448 | 19,885 | 37,444 | -74,841 | 119,248 | -110,248 | 9,000 | -34,084 | -99,925 |
| 1994 ..... | 502,485 | -668,584 | -166,099 | 2,148 | 19,330 | 38,410 | -106,212 | 137,619 | -146,891 | -9,272 | -35,761 | -151,245 |
| 1993: |  |  |  |  |  |  |  |  |  |  |  |  |
| I ... | 111,862 | -140,821 | -28,959 | 401 | 5,302 | 9,683 | -13,573 | 28,950 | -25,239 | 3,711 | -7,521 | -17,383 |
| $11 . . . . . . . . . . .$. | 114,131 | -147,718 | -33,587 | 90 | 5,389 | 9,315 | -18,793 | 29,958 | -27,893 | 2,065 | -7,609 | -24,337 |
| III ............ | 111,576 | -148,181 | -36,605 | 283 | 5,062 | 9,272 | -21,988 | 29,931 | $-26,741$ | 3,190 | -8,234 | -27,032 |
| IV ........... | 119,254 | -152,721 | -33,467 | -326 | 4,131 | 9,172 | -20,490 | 30,412 | -30,376 | 36 | -10,722 | -31,176 |
| 1994: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1............. | 118,445 | -154,935 | -36,490 | -31 | 4,642 | 8,863 | -23,016 | 30,942 | -30,826 | 116 | -7,371 | -30,271 |
| II............. | 122,730 | -164,224 | -41,494 | 376 | 4,647 | 9,548 | -26,923 | 32,338 | -34,623 | -2,285 | -8,718 | -37,986 |
| III ............ | 127,384 | -172,011 | -44,627 | 1,124 | 4,792 | 9,904 | -28,807 | 36,031 | -38,564 | -2,533 | -8,374 | -39,714 |
| IV ........... | 133,926 | -177,414 | -43,488 | 679 | 5,247 | 10,095 | -27,467 | 38,307 | -42,878 | -4,571 | -11,239 | -43,277 |
| 1995: |  |  |  |  |  |  |  |  |  |  |  |  |
| \| .... | 138,061 | -183,111 | -45,050 | 542 | 5,050 | 10,018 | -29,440 | 43,254 | -45,215 | -1,961 | -7,624 | -39,025 |
| II .... | 142,850 | -191,652 | -48,802 | 587 | 4,380 | 10,402 | -33,433 | 45,471 | -48,085 | -2,614 | -7,220 | -43,267 |
| III $p$ | 145,315 | -188,748 | -43,433 | 736 | 4,480 | 10,698 | -27,519 | 44,619 | -48,772 | -4,153 | -7,810 | -39,482 |

[^76]See next page for continuation of table.

Table B-99.-U.S. international transadions, 1946-95—Continued
[Millions of dollars; quarterly data seasonally adjusted, except as noted]

|  | U.S. assets abroad, net [increase/capital outflow (-)] |  |  |  | Foreign assets in the U.S., net [increase/capital inflow ( + )] |  |  | Allocations of special drawing rights (SDRs) | Statistical discrepancy |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year or quarter | Total | U.S. official reserve assets ${ }^{25}$ | Other U.S. Government assets | U.S. private assets | Total | Foreign official assets ${ }^{2}$ | Other foreign assets |  | Total (sum of the items with sign reversed) | Of which: Seasonal adjustment discrepancy |
| 1946 |  | -623 |  |  |  |  |  |  |  |  |
| 1947 |  | -3,315 |  |  |  |  |  |  |  |  |
| 1948 ... |  | -1,736 | .............. |  | .............. |  | ........ |  | ............ |  |
| 1949 ................... |  | -266 |  |  |  |  |  |  | .............. |  |
| 1950 | ............... | 1,758 | .... | .... | ... | .... | ..... | .... | ..... |  |
| 1951 ... |  | -33 | ....... | ...... | ..... | ...... | ....... | ..... | ......... | ...... |
| 1952 ... | ............. | -415 | ............... | ............... | ............... | ............... | ............... | .............. | ............... | ............... |
| 1953 ... | ............ | 1,256 | ........... | ........ | - | ............... | ............. | .............. | ............. | ............... |
| 1954. |  | 480 |  |  |  |  |  |  |  |  |
| 1955 |  | 182 |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 1956 \text {.. } \\ & 1957 \text {.. } \end{aligned}$ |  | -869 | ................ |  | .............. |  |  |  | ......... |  |
| 1958. |  | 2,292 | ............... | -............... |  |  |  |  |  |  |
| 1959 .. |  | 1,035 |  |  | ..... |  |  |  |  |  |
| 1960 | -4,099 | 2,145 | -1,100 | -5,144 | 2,294 | 1,473 | 821 |  | -1,019 |  |
| 1961 | -5,538 | 607 | -910 | -5,235 | 2,705 | 765 | 1,939 |  | -989 |  |
| 1962 | -4,174 | 1,535 | -1,085 | -4,623 | 1,911 | 1,270 | 641 |  | -1,124 |  |
| 1963 | -7,270 | 378 | -1,662 | -5,986 | 3,217 | 1,986 | 1,231 |  | -360 |  |
| 1964 | -9,560 | 171 | -1,680 | -8,050 | 3,643 | 1,660 | 1,983 |  | -907 |  |
| 1965 | -5,716 | 1,225 | -1,605 | -5,336 | 742 | 134 | 607 |  | -457 |  |
| 1966 | -7,321 | 570 | -1,543 | -6,347 | 3,661 | -672 | 4,333 |  | 629 |  |
| 1967 | -9,757 | 53 | -2,423 | -7,386 | 7,379 | 3,451 | 3,928 |  | -205 |  |
| 1968 .................. | -10,977 | -870 | -2,274 | -7,833 | 9,928 | -774 | 10,703 |  | 438 |  |
| 1969 .................. | -11,585 | -1,179 | -2,200 | -8,206 | 12,702 | -1,301 | 14,002 |  | -1,516 |  |
| 1970 .................. | -9,337 | 2,481 | -1,589 | -10,229 | 6,359 | 6,908 | -550 | 867 | -219 |  |
| 1971 | -12,475 | 2,349 | -1,884 | -12,940 | 22,970 | 26,879 | -3,909 | 717 | -9,779 |  |
| 1972 | -14,497 | -4 | -1,568 | -12,925 | 21,461 | 10,475 | 10,986 | 710 | -1,879 |  |
| 1973 | -22,874 | 158 | -2,644 | -20,388 | 18,388 | 6,026 | 12,362 | .............. | -2,654 |  |
| 1974 | -34,745 | -1,467 | ${ }^{4} 366$ | -33,643 | 34,241 | 10,546 | 23,696 | .............. | -1,458 |  |
| 1975 | -39,703 | -849 | -3,474 | -35,380 | 15,670 | 7,027 | 8,643 | .............. | 5,917 |  |
| 1976 | -51,269 | -2,558 | -4,214 | -44,498 | 36,518 | 17,693 | 18,826 |  | 10,455 |  |
| 1977 | -34,785 | -375 | -3,693 | -30,717 | 51,319 | 36,816 | 14,503 |  | -2,199 |  |
| 1978 ................... | -61,130 | 732 | -4,660 | -57,202 | 64,036 | 33,678 | 30,358 |  | 12,236 |  |
| 1979 .................. | -66,054 | -1,133 | -3,746 | -61,176 | 38,752 | -13,665 | 52,416 | 1,139 | 26,449 |  |
| 1980 | -86,967 | -8,155 | -5,162 | -73,651 | 58,112 | 15,497 | 42,615 | 1,152 | 25,386 |  |
| 1981 .................. | -114,147 | -5,175 | -5,097 | $-103,875$ | 83,032 | 4,960 | 78,072 | 1,093 | 24,992 |  |
| 1982 ................... | -122,335 | -4,965 | -6,131 | -111,239 | 92,418 | 3,593 | 88,826 |  | 41,359 | .............. |
| 1983 ................... | -61,573 | -1,196 | -5,006 | -55,372 | 83,380 | 5,845 | 77,534 | ............. | 22,179 | ............... |
| 1984 ................... | -36,313 | -3,131 | -5,489 | -27,694 | 113,932 | 3,140 | 110,792 |  | 21,331 | .............. |
| 1985 | -39,889 | -3,858 | -2,821 | -33,211 | 141,183 | -1,119 | 142,301 |  | 22,950 |  |
| 1986 | -106,753 | 312 | -2,022 | -105,044 | 226,111 | 35,648 | 190,463 |  | 31,501 |  |
| 1987 ................... | -72,617 | 9,149 | 1,006 | -82,771 | 242,983 | 45,387 | 197,596 |  | -4,028 |  |
| 1988 ................... | -100,087 | -3,912 | 2,967 | -99,141 | 240,265 | 39,758 | 200,507 | .............. | -13,095 | ............... |
| 1989 .................... | -168,744 | -25,293 | 1,259 | -144,710 | 218,490 | 8,503 | 209,987 |  | 54,094 |  |
| 1990 ................... | -74,011 | -2,158 | 2,307 | -74,160 | 122,192 | 33,910 | 88,282 |  | 44,480 | ............... |
| 1991 ................... | -57,881 | 5,763 | 2,911 | -66,555 | 94,241 | 17,389 | 76,853 | ............. | -28,936 | .... |
| 1992 ................... | -65,875 | 3,901 | -1,661 | -68,115 | 153,823 | 40,466 | 113,358 | ............. | -26,399 | ............... |
| 1993 ................... | -184,589 | -1,379 | -330 | -182,880 | 248,529 | 72,146 | 176,383 | ............. | 35,985 | ............... |
| 1994 .................. | -125,851 | 5,346 | -322 | -130,875 | 291,365 | 39,409 | 251,956 |  | -14,269 |  |
| 1993: |  |  |  |  |  |  |  |  |  |  |
| \| ...................... | -19,729 | -983 | 467 | -19,213 | 19,867 | 10,955 | 8,912 | .............. | 17,245 | 5,367 |
| II ....................... | -40,933 | 822 | -281 | -41,474 | 51,277 | 17,495 | 33,782 | .... | 13,993 | 154 |
| III ................... | -46,270 | -545 | -197 | -45,529 | 77,928 | 19,386 | 58,542 |  | -4,626 | -6,353 |
| IV ...... | -77,657 | -673 | -318 | -76,666 | 99,458 | 24,311 | 75,147 |  | 9,375 | 834 |
| 1994: |  |  |  |  |  |  |  |  |  |  |
| I.... | -36,783 | -59 | 401 | -37,125 | 80,390 | 10,977 | 69,413 | ............. | -13,336 | 5,274 |
| II..... | -5,973 | 3,537 | 491 | -10,001 | 46,526 | 9,162 | 37,364 | ............... | -2,567 | 587 |
| III .................... | -27,940 | -165 | -283 | -27,492 | 79,736 | 19,691 | 60,045 | ............. | -12,082 | -6,641 |
| IV ..................... | -55,156 | 2,033 | -931 | -56,258 | 84,715 | -421 | 85,136 | ............. | 13,718 | 782 |
| 1995: |  |  |  |  |  |  |  |  |  |  |
| I ..... | -75,343 | -5,318 | -152 | -69,873 | 94,841 | 22,308 | 72,533 |  | 19,527 | 6,183 |
| II .... | -100,242 | -2,722 | -180 | -97,340 | 124,331 | 37,836 | 86,495 |  | 19,178 | 331 |
| IIIP ................ | -42,852 | -1,893 | 136 | -41,095 | 105,664 | 39,479 | 66,185 |  | -23,330 | -7,086 |

4 Includes extraordinary U.S. Government transactions with India.
5 Consists of gold, special drawing rights, foreign currencies, and
${ }^{5}$ Consists of gold, special drawing rights, foreign currencies, and the U.S. reserve position in the International Monetary Fund (IMF).

[^77]Table B-100.-U.S. mechandise exports and imports by principal end-use category, 1965-95
[Billions of dollars; quarterly data seasonally adjusted]

${ }^{1}$ End-use categories beginning 1978 are not strictly comparable with data for earlier periods. See Survey of Current Business, June 1988.
Note. - Data are on an international transactions basis and exclude military.
In June 1990, end-use categories for merchandise exports were redefined to include reexports; beginning with data for 1978, reexports (exports of foreign merchandise) are assigned to detailed end-use categories in the same manner as exports of domestic merchandise.

Source: Department of Commerce, Bureau of Economic Analysis.

Table B-101.-U.S. merchandise exports and imports by area, 1986-95
[Billions of dollars]

| Item | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 first 3 quarters at annual rate ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Exports | 223.3 | 250.2 | 320.2 | 362.1 | 389.3 | 416.9 | 440.4 | 456.8 | 502.5 | 568.3 |
| Industrial countries .... | 150.3 | 165.6 | 207.3 | 234.2 | 253.8 | 261.3 | 265.1 | 270.6 | 295.3 | 334.7 |
| Canada $\qquad$ <br> Japan | 56.5 26.4 | 62.0 27.6 | 74.3 37.2 | 81.1 43.9 | 83.5 47.8 | 85.9 47.2 | 91.4 46.9 | 101.2 46.7 | 114.9 51.8 | 127.5 62.5 |
| Western Europe ${ }^{2}$............... | 60.4 | 68.6 | 86.4 | 98.4 | 111.4 | 116.8 | 114.5 | 111.3 | 115.4 | 129.6 |
| Australia, New Zealand, and South Africa | 7.1 | 7.4 | 9.4 | 10.9 | 11.2 | 11.4 | 12.4 | 11.5 | 13.2 | 15.0 |
| Australia .............. | 5.1 | 5.3 | 6.8 | 8.1 | 8.3 | 8.3 | 8.7 | 8.1 | 9.6 | 10.5 |
| Other countries, except Eastern Europe $\qquad$ | 71.0 | 82.3 | 109.1 | 122.2 | 130.6 | 150.4 | 169.5 | 179.8 | 201.8 | 228.2 |
| OPEC ${ }^{3}$ <br> Other ${ }^{4}$ $\qquad$ | $\begin{aligned} & 10.4 \\ & 60.6 \end{aligned}$ | $\begin{aligned} & 10.7 \\ & 71.6 \end{aligned}$ | $\begin{aligned} & 13.8 \\ & 95.3 \end{aligned}$ | $\begin{array}{r} 12.7 \\ 109.5 \end{array}$ | $\begin{array}{r} 12.7 \\ 117.9 \end{array}$ | $\begin{array}{r} 18.4 \\ 132.0 \end{array}$ | $\begin{array}{r} 19.7 \\ 149.8 \end{array}$ | $\begin{array}{r} 18.7 \\ 161.1 \end{array}$ | 17.1 184.6 | 18.2 210.0 |
| Eastern Europe ${ }^{2}$.................. | 2.1 | 2.3 | 3.8 | 5.5 | 4.3 | 4.8 | 5.6 | 6.2 | 5.3 | 5.4 |
| International organizations and unallocated $\qquad$ | ......... | ........... | . 1 | . 2 | . 6 | . 4 | . 1 | . 2 | . 1 |  |
| Imports ................................. | 368.4 | 409.8 | 447.2 | 477.4 | 498.3 | 491.0 | 536.5 | 589.4 | 668.6 | 751.3 |
| Industrial countries .... | 245.4 | 259.7 | 283.2 | 292.5 | 299.9 | 294.3 | 316.3 | 347.8 | 389.8 | 430.0 |
| Canada ................... | 69.7 | 73.6 | 84.6 | 89.9 | 93.1 | 93.0 | 100.9 | 113.3 | 131.1 | 147.6 |
| Japan ............................ | 80.8 | 84.6 | 89.8 | 93.5 | 90.4 | 92.3 | 97.4 | 107.2 | 119.1 | 127.2 |
| Western Europe ${ }^{2}$,........... | 89.0 | 96.1 | 102.6 | 102.4 | 109.2 | 102.0 | 111.4 | 120.9 | 132.9 | 147.9 |
| Australia, New Zealand, and South Africa | 5.9 | 5.4 | 6.2 | 6.6 | 7.3 | 7.0 | 6.6 | 6.4 | 6.7 | 7.2 |
| Australia .................... | 2.6 | 3.0 | 3.5 | 3.9 | 4.4 | 4.1 | 3.7 | 3.3 | 3.2 | 3.5 |
| Other countries, except Eastern Europe $\qquad$ | 121.1 | 148.2 | 161.8 | 182.8 | 196.1 | 194.9 | 218.2 | 238.1 | 272.9 | 313.9 |
| OPEC ${ }^{3}$ <br> Other ${ }^{4}$ $\qquad$ | $\begin{array}{r} 18.9 \\ 102.2 \end{array}$ | $\begin{array}{r} 24.4 \\ 123.8 \end{array}$ | $\begin{array}{r} 23.0 \\ 138.8 \end{array}$ | $\begin{array}{r} 29.2 \\ 153.6 \end{array}$ | $\begin{array}{r} 37.0 \\ 159.1 \end{array}$ | $\begin{array}{r} 33.4 \\ 161.5 \end{array}$ | $\begin{array}{r} 32.4 \\ 185.8 \end{array}$ | $\begin{array}{r} 32.6 \\ 205.4 \end{array}$ | $\begin{array}{r} 31.7 \\ 241.2 \end{array}$ | $\begin{array}{r} 35.3 \\ 278.6 \end{array}$ |
| Eastern Europe ${ }^{2}$................. | 2.0 | 1.9 | 2.2 | 2.1 | 2.3 | 1.8 | 2.0 | 3.5 | 5.8 | 7.5 |
| International organizations and unallocated $\qquad$ | ............ |  | ............ | ............. | ............. | ............ | .............. | .............. | .............. | ................. |
| Balance (excess of exports +) $\qquad$ | -145.1 | -159.6 | -127.0 | -115.2 | -109.0 | -74.1 | -96.1 | -132.6 | -166.1 | -183.0 |
| Industrial countries ............. | -95.1 | -94.1 | -75.9 | -58.2 | -46.1 | -33.0 | -51.2 | -77.2 | -94.5 | -95.3 |
| Canada $\qquad$ <br> Japan $\qquad$ | $\begin{aligned} & -13.2 \\ & -54.4 \end{aligned}$ | $\begin{aligned} & -11.6 \\ & -56.9 \end{aligned}$ | $\begin{aligned} & -10.3 \\ & -52.6 \end{aligned}$ | $\begin{array}{r} -8.8 \\ -49.7 \end{array}$ | $\begin{array}{r} -9.6 \\ -42.6 \end{array}$ | $\begin{array}{r} -7.1 \\ -45.0 \end{array}$ | $\begin{array}{r} -9.5 \\ -50.5 \end{array}$ | $\begin{aligned} & -12.2 \\ & -60.5 \end{aligned}$ | $\begin{aligned} & -16.2 \\ & -67.3 \end{aligned}$ | $\begin{aligned} & -20.1 \\ & -64.6 \end{aligned}$ |
| Western Europe ${ }^{2}$............ | -28.6 | -27.5 | -16.2 | -4.0 | 2.2 | 14.8 | 3.1 | -9.7 | -17.6 | -18.4 |
| Australia, New Zealand, and South Africa $\qquad$ | 1.1 | 2.0 | 3.2 | 4.2 | 3.9 | 4.4 | 5.8 | 5.2 | 6.6 | 7.8 |
| Australia .................... | 2.5 | 2.3 | 3.3 | 4.2 | 3.9 | 4.2 | 5.0 | 4.8 | 6.4 | 7.0 |
| Other countries, except Eastern Europe $\qquad$ | -50.1 | -65.8 | -52.7 | -60.6 | -65.5 | -44.5 | -48.7 | -58.3 | -71.2 | -85.7 |
| OPEC ${ }^{3}$ <br> Other ${ }^{4}$ $\qquad$ | $\begin{array}{r} -8.5 \\ -41.6 \end{array}$ | $\begin{aligned} & -13.7 \\ & -52.1 \end{aligned}$ | $\begin{array}{r} -9.2 \\ -43.5 \end{array}$ | $\begin{aligned} & -16.6 \\ & -44.1 \end{aligned}$ | $\begin{aligned} & -24.3 \\ & -41.2 \end{aligned}$ | $\begin{aligned} & -15.0 \\ & -29.5 \end{aligned}$ | $\begin{aligned} & -12.7 \\ & -36.0 \end{aligned}$ | $\begin{aligned} & -14.0 \\ & -44.3 \end{aligned}$ | -14.6 -56.6 | -17.1 -68.6 |
| Eastern Europe ${ }^{2}$................. | . 1 | . 3 | 1.6 | 3.5 | 2.1 | 3.0 | 3.7 | 2.7 | -. 5 | -2.1 |
| International organizations and unallocated $\qquad$ | ....... | ............ | . 1 | . 2 | 6 | . 4 | . 1 | . 2 | . 1 |  |

${ }^{1}$ Preliminary; seasonally adjusted.
${ }^{2}$ The former German Democratic Republic (East Germany) included in Western Europe beginning fourth quarter 1990 and in Eastern Europe prior to that time.
${ }^{3}$ Organization of Petroleum Exporting Countries, consisting of Algeria, Ecuador (through 1992), Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.
${ }^{4}$ Latin America, other Western Hemisphere, and other countries in Asia and Africa, less members of OPEC
Note.- Data are on an international transactions basis and exclude military.
Source: Department of Commerce, Bureau of Economic Analysis.

Table B-102.-U.S. international trade in goods on balance of payments (BOP) and Census basis, and trade in services on BOP basis, 1974-95
[Billions of dollars; monthly data seasonally adjusted]

| Year or month | Goods: Exports (f.a.s. value) ${ }^{12}$ |  |  |  |  |  |  | Goods: Imports (customs value, except as noted) ${ }^{5}$ |  |  |  |  |  |  | Services (BOP basis) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total, BOP basis ${ }^{3}$ | Census basis (by end-use category) |  |  |  |  |  | Total, BOP basis | Census basis (by end-use category) |  |  |  |  |  | Exports | Imports |
|  |  | Total, Census basis ${ }^{3}$ | Foods, feeds, and bev-erages | In-dustrial supplies and materials | $\begin{gathered} \text { Cap- } \\ \text { ital } \\ \text { goods } \\ \text { ex- } \\ \text { cept } \\ \text { auto- } \\ \text { mo- } \\ \text { tive } \end{gathered}$ | Auto- <br> mo- <br> tive <br> vehi- <br> cles, <br> parts, <br> and <br> en- <br> gines | Con- <br> sumer goods (nonfood) except auto-motive |  | Total, Census basis ${ }^{4}$ | Foods, feeds, and bev-erages | In- dus- trial sup- plies and ma- terials | Capgoods except auto-motive | Auto- <br> mo- <br> tive <br> vehi- <br> cles, parts, and engines | Consumer goods (nonfood) except auto-motive |  |  |
|  | F.a.s. value ${ }^{2}$ |  |  |  |  |  |  | F.a.s. value ${ }^{2}$ |  |  |  |  |  |  | $\begin{aligned} & 22.6 \\ & 25.5 \\ & 28.0 \\ & 31.5 \\ & 36.4 \\ & 39.7 \\ & 47.6 \end{aligned}$ | 21.422.024.627.632.236.741.5 |
|  | $\begin{array}{r} 98.3 \\ 107.1 \\ 114.7 \\ 120.8 \\ 142.1 \\ 184.4 \\ 224.3 \end{array}$ | $\begin{array}{r} 99.4 \\ 108.9 \\ 116.8 \\ 123.2 \\ 145.8 \\ 186.4 . \\ 225.6 \end{array} .$ |  | ............ | ........ | ............. | ........... | 103.8 <br> 98.2 <br> 124.2 <br> 151.9 <br> 176.0 <br> 212.0 <br> 249.8 | $\begin{array}{r\|} \hline 103.3 \\ 99.3 \\ 124.6 \\ 151.5 \\ 176.1 \\ 210.3 \\ 245.3 \\ \hline \end{array}$ |  |  |  | $\square$ |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 72.7 | 15.7 |  | Customs value |  |  |  |  |  |  |  |  |
| 1981 .. | 237.0 | $\begin{aligned} & 238.7 \\ & 216.4 \end{aligned}$ | 31.3 | 61.7 |  |  |  | 265.1 | 261.0 |  |  |  |  |  | 57.4 | 45.5 |
| 1982 |  |  |  |  |  |  | 14.3 | 247.6 | 244.0 | 17.1 | 112.0 | 35.4 | 33.3 | 39.7 | 64.1 | 51.7 |
| 1983 | 201.8 | 205.6 | 30.9 | 56.7 | 67.2 | 16.8 | 13.4 | 268.9 | 258.0 | 18.2 | 107.0 | 40.9 | 40.8 | 44.9 | 64.3 | 55.0 |
| 1984 | 219.9 | 224.0 | 31.5 | 61.7 | 72.0 | 20.6 | 13.3 | 332.4 | 6330.7 | 21.0 | 123.7 | 59.8 | 53.5 | 60.0 | 71.2 | 67.7 |
| 1985 | 215.9 | 7218.8 | 24.0 | 58.5 | 73.9 | 22.9 | 12.6 | 338.1 | ${ }^{6} 336.5$ | 21.9 | 113.9 | 65.1 | 66.8 | 68.3 | 73.2 | 72.9 |
| 1986 | 223.3 | 7227.2 | 22.3 | 57.3 | 75.8 | 21.7 | 14.2 | 368.4 | 365.4 | 24.4 | 101.3 | 71.8 | 78.2 | 79.4 | 86.5 | 81.0 |
| 1987 | 250.2 | 254.1 | 24.3 | 66.7 | 86.2 | 24.6 | 17.7 | 409.8 | 406.2 | 24.8 | 111.0 | 84.5 | 85.2 | 88.7 | 98.5 | 91.7 |
| 1988 .................... | 320.2 | 322.4 | 32.3 | 85.1 | 109.2 | 29.3 | 23.1 | 447.2 | 441.0 | 24.8 | 118.3 | 101.4 | 87.7 | 95.9 | 111.1 | 99.5 |
| 1989 ................... | 362.1 | 363.8 | 37.2 | 99.3 | 138.8 | 34.8 | 36.4 | 477.4 | 473.2 | 25.1 | 132.3 | 113.3 | 86.1 | 102.9 | 127.4 | 103.5 |
| 1990 | 389.3 | 393.6 | 35.1 | 104.4 | 152.7 | 37.4 | 43.3 | 498.3 | 495.3 | 26.6 | 143.2 | 116.4 | 87.3 | 105.7 | 147.8 | 118.8 |
| 1991 | 416.9 | 421.7 | 35.7 | 109.7 | 166.7 | 40.0 | 45.9 | 491.0 | 488.5 | 26.5 | 131.6 | 120.7 | 85.7 | 108.0 | 164.3 | 119.6 |
| 1992 | 440.4 | 448.2 | 40.3 | 109.1 | 175.9 | 47.0 | 51.4 | 536.5 | 532.7 | 27.6 | 138.6 | 134.3 | 91.8 | 122.7 | 178.6 | 122.0 |
| 1993 ................... | 456.8 | 465.1 | 40.6 | 111.8 | 181.7 | 52.4 | 54.7 | 589.4 | 580.7 | 27.9 | 145.6 | 152.4 | 102.4 | 134.0 | 187.8 | 130.0 |
| 1994 | 502.5 | 512.6 | 41.9 | 121.4 | 205.2 | 57.6 | 60.0 | 668.6 | 663.3 | 31.0 | 162.0 | 184.4 | 118.3 | 146.3 | 198.7 | 138.8 |
| 1994:Jan .............. | 38.9 | 39.7 | 3.4 | 9.0 | 16.2 | 4.5 | 4.6 | 50.3 | 49.9 | 2.4 | 11.7 | 14.0 | 8.5 | 11.6 | 15.4 | 11.0 |
| Feb .............. | 37.4 | 38.2 | 3.2 | 8.7 | 15.4 | 4.5 | 4.5 | 51.1 | 50.3 | 2.3 | 11.9 | 14.0 | 8.9 | 11.6 | 15.6 | 11.6 |
| Mar ............. | 42.1 | 42.8 | 3.4 | 10.6 | 17.3 | 4.7 | 4.9 | 53.6 | 52.5 | 2.6 | 12.6 | 14.5 | 9.4 | 11.5 | 16.7 | 11.7 |
| Apr .............. | 40.4 | 41.1 | 3.2 | 9.6 | 16.8 | 4.8 | 4.8 | 53.8 | 53.2 | 2.5 | 12.7 | 14.7 | 9.4 | 11.9 | 16.0 | 11.4 |
| May .............. | 40.4 | 41.3 | 3.3 | 9.9 | 16.6 | 4.6 | 4.9 | 54.5 | 54.0 | 2.5 | 13.1 | 14.9 | 9.6 | 12.1 | 16.4 | 11.5 |
| June ............ | 41.9 | 42.8 | 3.2 | 9.8 | 17.6 | 4.7 | 5.2 | 55.9 | 55.7 | 2.6 | 14.0 | 15.2 | 10.0 | 12.1 | 16.7 | 11.6 |
| July ............. | 40.4 | 41.2 | 3.1 | 10.2 | 16.3 | 4.3 | 4.9 | 56.3 | 56.0 | 2.6 | 14.4 | 15.3 | 9.9 | 12.1 | 16.6 | 11.6 |
| Aug ............. | 43.7 | 44.7 | 3.6 | 10.7 | 17.6 | 5.1 | 5.2 | 57.9 | 57.6 | 2.7 | 14.7 | 15.4 | 10.7 | 12.4 | 16.6 | 11.7 |
| Sept ............. | 43.3 | 44.1 | 3.7 | 10.3 | 17.8 | 5.0 | 5.1 | 57.8 | 57.6 | 2.7 | 14.2 | 16.3 | 10.0 | 12.5 | 17.7 | 11.8 |
| Oct ............... | 43.3 | 44.3 | 3.8 | 10.7 | 17.0 | 4.9 | 5.2 | 58.2 | 58.0 | 2.7 | 13.9 | 16.4 | 10.3 | 12.8 | 16.7 | 11.6 |
| Nov ............. | 44.4 | 45.3 | 4.0 | 10.7 | 18.0 | 5.0 | 5.4 | 59.7 | 59.5 | 2.6 | 14.5 | 16.8 | 10.7 | 12.9 | 17.3 | 11.7 |
| Dec ... | 46.2 | 47.2 | 4.2 | 11.3 | 18.7 | 5.5 | 5.3 | 59.4 | 59.2 | 2.7 | 14.2 | 16.8 | 10.8 | 12.9 | 17.0 | 11.6 |
| 1995:Jan .... | 44.9 | 45.6 | 3.9 | 11.6 | 17.1 | 5.5 | 5.1 | 60.7 | 60.5 | 2.8 | 14.5 | 17.1 | 11.0 | 13.3 | 17.3 | 11.8 |
| Feb | 45.6 | 46.3 | 3.9 | 11.7 | 17.9 | 5.3 | 5.3 | 59.9 | 59.7 | 2.8 | 14.4 | 16.9 | 10.8 | 13.1 | 16.5 | 11.7 |
| Mar ............. | 47.9 | 48.7 | 4.1 | 12.6 | 19.2 | 5.1 | 5.4 | 62.5 | 61.6 | 2.9 | 15.3 | 17.6 | 10.7 | 13.3 | 17.4 | 12.1 |
| Apr .............. | 47.2 | 47.8 | 4.2 | 12.3 | 18.8 | 5.1 | 5.3 | 63.5 | 62.6 | 2.7 | 15.5 | 18.0 | 11.0 | 13.6 | 17.2 | 12.1 |
| May ............. | 48.3 | 49.1 | 4.0 | 12.4 | 19.4 | 5.1 | 5.5 | 64.3 | 63.1 | 2.7 | 15.8 | 18.1 | 10.7 | 13.8 | 17.3 | 12.1 |
| June ............. | 47.4 | 48.2 | 3.9 | 12.7 | 19.5 | 4.5 | 5.4 | 63.9 | 63.0 | 2.8 | 15.7 | 18.7 | 10.4 | 13.4 | 17.3 | 12.2 |
| July ............. | 46.4 | 47.1 | 4.2 | 11.8 | 19.0 | 4.4 | 5.2 | 62.6 | 62.4 | 2.7 | 15.3 | 18.9 | 10.0 | 13.5 | 17.3 | 12.1 |
| Aug ............. | 49.1 | 49.8 | 4.5 | 12.1 | 20.0 | 5.3 | 5.5 | 62.6 | 62.4 | 2.8 | 14.9 | 18.9 | 10.4 | 13.5 | 17.3 | 12.1 |
| Sept ............. | 49.8 | 50.5 | 4.8 | 12.4 | 19.7 | 5.6 | 5.5 | 63.5 | 63.3 | 2.8 | 15.3 | 19.3 | 10.4 | 13.5 | 17.7 | 12.2 |
| Oct .............. | 49.0 | 49.8 | 4.4 | 12.6 | 20.3 | 4.8 | 5.5 | 62.7 | 62.3 | 2.8 | 14.7 | 19.7 | 9.5 | 13.3 | 17.8 | 12.2 |
| Nov $p$............ | 49.4 | 50.2 | 4.4 | 11.8 | 20.8 | 4.9 | 5.5 | 61.9 | 61.6 | 2.7 | 14.9 | 19.3 | 9.6 | 12.9 | 17.9 | 12.5 |

[^78]Table B-103.-Intenational investment position of the U nited States at year-end, 1986-94
[Billions of dollars]

| Type of |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| investment |  |  |  |  |  |

## ${ }^{1}$ Valued at market price.

Note.- For details regarding these data, see Survey of Current Business, June issues 1991-1995.
Source: Department of Commerce, Bureau of Economic Analysis.

Table B-104.—Industrial production and consumer prices, major industrial countries, 1970-95

| Year or quarter | United States | Canada | Japan | European Union ${ }^{1}$ | France | Germany ${ }^{2}$ | Italy | United Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Industrial production (1987=100)3 |  |  |  |  |  |  |  |
| 1970 | 61.4 | 59.0 | 55.0 | 73.1 | 72 | 75.5 | 68.3 | 78.9 |
| 1971 | 62.2 | 62.3 | 56.5 | 74.7 | 77 | 77.0 | 68.0 | 78.5 |
| 1972 ................ | 68.3 | 67.8 | 59.6 | 78.0 | 81 | 79.9 | 70.8 | 79.9 |
| 1973 | 73.8 | 75.8 | 69.0 | 83.7 | 87 | 85.0 | 77.7 | 87.0 |
| 1974 | 72.7 | 77.3 | 66.3 | 84.3 | 90 | 84.8 | 81.2 | 85.4 |
| 1975 | 66.3 | 71.6 | 59.3 | 78.7 | 83 | 79.6 | 73.7 | 80.8 |
| 1976 | 72.4 | 76.5 | 65.9 | 84.5 | 90 | 86.8 | 82.9 | 83.4 |
| 1977 | 78.2 | 79.0 | 68.6 | 86.6 | 92 | 88.0 | 83.8 | 87.6 |
| 1978 | 82.6 | 81.8 | 73.0 | 89.0 | 94 | 90.4 | 85.4 | 90.1 |
| 1979 .................................. | 85.7 | 85.7 | 78.2 | 93.1 | 99 | 94.7 | 91.1 | 93.6 |
| 1980 | 84.1 | 82.8 | 81.8 | 92.8 | 98.9 | 95.0 | 96.2 | 87.0 |
| 1981 | 85.7 | 84.5 | 82.6 | 91.1 | 98.3 | 93.2 | 94.7 | 84.2 |
| 1982 | 81.9 | 76.2 | 83.0 | 89.9 | 97.3 | 90.3 | 91.7 | 85.8 |
| 1983 ................................... | 84.9 | 81.2 | 85.5 | 90.8 | 96.5 | 90.9 | 88.9 | 88.9 |
| 1984 ................................... | 92.8 | 91.0 | 93.5 | 92.8 | 97.1 | 93.5 | 91.8 | 89.0 |
| 1985 ................................... | 94.4 | 96.1 | 96.9 | 95.8 | 97.2 | 97.7 | 92.9 | 93.9 |
| 1986 ................................... | 95.3 | 95.4 | 96.7 | 98.0 | 98.0 | 99.6 | 96.2 | 96.2 |
| 1987 ................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1988 .................................. | 104.4 | 105.3 | 109.4 | 104.2 | 104.6 | 103.9 | 105.9 | 104.8 |
| 1989 ................................... | 106.0 | 105.2 | 115.7 | 108.2 | 108.9 | 108.8 | 109.2 | 107.0 |
| 1990 | 106.0 | 101.7 | 120.6 | 110.4 | 111.0 | 114.5 | 109.4 | 106.7 |
| 1991. | 104.2 | 97.4 | 122.9 | 109.6 | 111.0 | 118.7 | 108.4 | 102.8 |
| 1992 | 107.7 | 98.5 | 115.8 | 108.4 | 109.7 | 116.3 | 108.2 | 102.7 |
| 1993 | 111.5 | 102.9 | 111.0 | 104.9 | 105.6 | 107.4 | 105.5 | 104.7 |
| 1994 .................................... | 118.1 | 109.6 | 112.3 | 109.8 | 111.0 | 110.8 | 110.7 | 110.0 |
| 1995 p ................................ | 121.9 | ................ | 115.8 | .................. | ............... | ......... | .......... | ......... |
| 1994: \| | 115.5 | 105.4 | 110.1 | 106.5 | 105.6 | 107.9 | 105.4 | 107.5 |
| II ............................... | 117.5 | 108.4 | 110.7 | 109.1 | 108.3 | 110.1 | 110.0 | 109.9 |
| III .............................. | 118.8 | 111.3 | 113.5 | 111.0 | 110.3 | 111.4 | 113.0 | 111.4 |
| IV .............................. | 120.6 | 113.3 | 114.5 | 111.9 | 110.5 | 112.8 | 114.7 | 111.2 |
| 1995: I | 121.8 | 114.2 | 116.1 | 112.5 | 111.8 | 110.5 | 115.2 | 112.1 |
| II ................................ | 121.4 | 113.6 | 116.3 | 113.1 | 111.9 | 111.8 | 116.5 | 112.2 |
| IV $p$...................................... | 122.3 | 114.0 | 114.2 | .................. | ............... | 110.8 | 120.0 | 112.9 |
|  | 122.6 |  | 116.4 | .................. | ............... | .................... | ............. | .................. |
|  | Consumer prices (1982-84=100) |  |  |  |  |  |  |  |
| 1970 .................................. | 38.8 | 35.1 | 38.5 | 26.6 | 28.7 | 52.9 | 16.8 | 21.8 |
| 1971 .................................. | 40.5 | 36.1 | 40.9 | 28.3 | 30.3 | 55.6 | 17.6 | 23.8 |
| 1972 .................................... | 41.8 | 37.9 | 42.9 | 30.1 | 32.2 | 58.7 | 18.7 | 25.5 |
| 1973 ................................... | 44.4 | 40.7 | 47.9 | 32.7 | 34.5 | 62.8 | 20.6 | 27.9 |
| 1974 .................................. | 49.3 | 45.2 | 59.0 | 37.4 | 39.3 | 67.2 | 24.6 | 32.3 |
| 1975 ..................................... | 53.8 | 50.1 | 65.9 | 42.8 | 43.9 | 71.2 | 28.8 | 40.2 |
| 1976 ............................ | 56.9 | 53.8 | 72.2 | 47.9 | 48.1 | 74.2 | 33.6 | 46.8 |
| 1977 | 60.6 | 58.1 | 78.1 | 53.8 | 52.7 | 76.9 | 40.1 | 54.2 |
| 1978 ............................. | 65.2 | 63.3 | 81.4 | 58.7 | 57.5 | 79.0 | 45.1 | 58.7 |
| 1979 ................................. | 72.6 | 69.1 | 84.4 | 65.1 | 63.6 | 82.2 | 52.1 | 66.6 |
| 1980 .................................... | 82.4 | 76.1 | 91.0 | 74.0 | 72.3 | 86.7 | 63.5 | 78.5 |
| 1981 ................................ | 90.9 | 85.6 | 95.3 | 83.2 | 82.0 | 92.2 | 75.3 | 87.9 |
| 1982 | 96.5 | 94.9 | 98.0 | 92.2 | 91.6 | 97.1 | 87.7 | 95.4 |
| 1983 .................................. | 99.6 | 100.4 | 99.8 | 100.2 | 100.5 | 100.3 | 100.8 | 99.8 |
| 1984 ................................... | 103.9 | 104.8 | 102.1 | 107.4 | 107.9 | 102.7 | 111.5 | 104.8 |
| 1985 .................................. | 107.6 | 108.9 | 104.1 | 114.0 | 114.2 | 104.8 | 121.1 | 111.1 |
| 1986 ................................... | 109.6 | 113.4 | 104.8 | 118.2 | 117.2 | 104.7 | 128.5 | 114.9 |
| 1987 .................................. | 113.6 | 118.4 | 104.9 | 122.2 | 120.9 | 104.9 | 134.4 | 119.7 |
| 1988 .................................. | 118.3 | 123.2 | 105.7 | 126.7 | 124.2 | 106.3 | 141.1 | 125.6 |
| 1989 .................................. | 124.0 | 129.3 | 108.0 | 133.3 | 128.6 | 109.2 | 150.4 | 135.4 |
| 1990 ................................... | 130.7 | 135.5 | 111.4 | 140.8 | 133.0 | 112.2 | 159.5 | 148.2 |
| 1991 | 136.2 | 143.1 | 115.0 | 148.0 | 137.2 | 116.2 | 169.8 | 156.9 |
| 1992 | 140.3 | 145.2 | 116.9 | 154.2 | 140.6 | 120.9 | 178.8 | 162.7 |
| 1993 | 144.5 | 147.9 | 118.5 | 159.4 | 143.5 | 125.2 | 186.3 | 165.3 |
| 1994 ..................................... | 148.2 | 148.2 | 119.3 | 164.2 | 145.9 | 128.6 | 193.6 | 169.3 |
| 1995 p ................................ | 152.4 | 151.4 | 119.2 | ............... | 148.4 | 130.8 | 204.0 | 175.2 |
| 1994:I ................................. | 146.7 | 148.0 | 118.9 | 162.5 | 144.9 | 127.5 | 191.2 | 166.8 |
| II ................................ | 147.6 | 147.5 | 119.4 | 164.2 | 145.8 | 128.3 | 192.8 | 169.8 |
| III .............................. | 148.9 | 148.3 | 119.1 | 164.8 | 146.0 | 129.1 | 194.2 | 169.9 |
| IV .............................. | 149.6 | 148.8 | 119.7 | 165.6 | 146.6 | 129.1 | 196.5 | 171.0 |
| 1995:I ................................. | 150.9 | 150.4 | 119.0 | 167.3 | 147.4 | 130.1 | 199.5 | 172.5 |
| II ................................ | 152.2 | 151.5 | 119.5 | 169.1 | 148.2 | 130.8 | 203.4 | 175.6 |
| III .............................. | 152.9 | 151.8 | 119.1 | 170.0 | 148.6 | 131.3 | 205.4 | 176.1 |
| IV $p$............................ | 153.6 | 151.9 | 119.1 | ................... | 149.5 | 131.1 | 208.0 | 176.4 |

[^79]Table B-105.-Civilian unemployment rate, and hourly compensation, major industrial countries, 1970-95
[Quarterly data seasonally adjusted]

| Year or quarter | United States | Canada | Japan | France | Germany ${ }^{1}$ | Italy | United Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Civilian unemployment rate (percent) ${ }^{2}$ |  |  |  |  |  |  |
| 1970 | 4.9 | 5.7 | 1.2 | 2.5 | 0.5 | 3.2 | 3.1 |
| 1971 | 5.9 | 6.2 | 1.3 | 2.8 | . 6 | 3.3 | 3.9 |
| 1972 | 5.6 | 6.2 | 1.4 | 2.9 | . 7 | 3.8 | 4.2 |
| 1973 | 4.9 | 5.5 | 1.3 | 2.8 | . 7 | 3.7 | 3.2 |
| 1974 | 5.6 | 5.3 | 1.4 | 2.9 | 1.6 | 3.1 | 3.1 |
| 1975 | 8.5 | 6.9 | 1.9 | 4.2 | 3.4 | 3.4 | 4.6 |
| 1976 | 7.7 | 7.2 | 2.0 | 4.6 | 3.4 | 3.9 | 5.9 |
| 1977 | 7.1 | 8.1 | 2.0 | 5.2 | 3.4 | 4.1 | 6.4 |
| 1978 | 6.1 | 8.4 | 2.3 | 5.4 | 3.3 | 4.1 | 6.3 |
| 1979 | 5.8 | 7.5 | 2.1 | 6.1 | 2.9 | 4.4 | 5.4 |
| 1980 | 7.1 | 7.5 | 2.0 | 6.5 | 2.8 | 4.4 | 7.0 |
| 1981 | 7.6 | 7.6 | 2.2 | 7.6 | 4.0 | 4.9 | 10.5 |
| 1982 | 9.7 | 11.0 | 2.4 | 8.3 | 5.6 | 5.4 | 11.3 |
| 1983 | 9.6 | 11.9 | 2.7 | 8.6 | ${ }^{3} 6.9$ | 5.9 | 11.8 |
| 1984 | 7.5 | 11.3 | 2.8 | 10.0 | 7.1 | 5.9 | 11.8 |
| 1985 | 7.2 | 10.5 | 2.6 | 10.5 | 7.2 | 6.0 | 11.2 |
| 1986 | 7.0 | 9.6 | 2.8 | 10.6 | 6.6 | 37.5 | 11.2 |
| 1987 | 6.2 | 8.9 | 2.9 | 10.8 | 6.3 | 7.9 | 10.3 |
| 1988 | 5.5 | 7.8 | 2.5 | 10.3 | 6.3 | 7.9 | 8.6 |
| 1989 | 5.3 | 7.5 | 2.3 | 9.6 | 5.7 | 7.8 | 7.3 |
| 1990 | 5.5 | 8.1 | 2.1 | 9.1 | 5.0 | 7.0 | 7.0 |
| 1991 | 6.7 | 10.4 | 2.1 | 9.6 | p 4.3 | ${ }^{3} 6.9$ | 8.9 |
| 1992 | 7.4 | 11.3 | 2.2 | 10.5 | p 4.6 | p 7.3 | 10.1 |
| 1993 | 6.8 | 11.2 | 2.5 | 11.9 | p 5.7 | ${ }^{3} p 10.3$ | p 10.5 |
| 1994 | ${ }^{3} 6.1$ | 10.4 | 2.9 | 12.7 | $p 6.5$ | $p 11.4$ | p 9.6 |
| 1995 ....................................................... | 5.6 | 9.5 | ............ | ............ | .............. | p 12.1 | p 8.8 |
| 1994:1 | ${ }^{3} 6.6$ | 11.0 | 2.8 | 12.7 | 6.4 | 11.0 | 10.0 |
| 1 | 6.2 | 10.6 | 2.9 | 12.7 | 6.5 | 11.6 | 9.8 |
| III | 6.0 | 10.2 | 3.0 | 12.7 | 6.5 | 11.1 | 9.6 |
| IV ................................................... | 5.6 | 9.8 | 2.9 | 12.6 | 6.5 | 11.8 | 9.0 |
| 1995: 1 | 5.5 | 9.7 | 3.0 | 12.5 | 6.5 | 12.2 | 8.8 |
|  | 5.7 | 9.5 | 3.2 | 12.3 | 6.5 | 12.2 | 8.8 |
| III | 5.6 | 9.5 | 3.2 | 12.1 | 6.6 | 12.0 | 8.8 |
| IV .... | 5.6 | 9.4 |  |  |  | 12.0 | 8.6 |
|  | Manufacturing hourly compensation in U.S. dollars (1982=100)4 |  |  |  |  |  |  |
| 1970 | ......... | 33.9 | 17.4 | 22.0 | 22.9 | 25.1 | 20.2 |
| 1971 | ....... | 37.7 | 20.7 | 24.7 | 27.0 | 29.4 | 23.8 |
| 1972 | ............. | 41.3 | 27.3 | 29.8 | 32.5 | 34.9 | 28.5 |
| 1973 | .............. | 44.3 | 37.4 | 38.8 | 44.2 | 41.2 | 31.7 |
| 1974 | ...... | 52.2 | 45.6 | 42.4 | 51.6 | 48.1 | 36.3 |
| 1975 | ........... | 57.3 | 52.1 | 58.3 | 59.7 | 60.5 | 46.0 |
| 1976 |  | 67.7 | 56.2 | 59.9 | 62.9 | 59.0 | 43.3 |
| 1977 | 62.8 | 69.5 | 68.6 | 66.2 | 74.5 | 65.7 | 47.2 |
| 1978 | 67.9 | 69.8 | 94.0 | 81.5 | 92.8 | 78.8 | 60.4 |
| 1979 | 74.4 | 74.8 | 95.5 | 97.6 | 109.1 | 97.4 | 79.1 |
| 1980 | 83.3 | 83.0 | 98.3 | 113.4 | 119.3 | 111.1 | 105.0 |
| 1981 | 91.5 | 93.1 | 107.6 | 101.8 | 102.2 | 100.9 | 105.4 |
| 1982 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1983 | 102.7 | 106.2 | 107.7 | 95.2 | 99.9 | 104.3 | 92.6 |
| 1984 | 106.0 | 105.9 | 111.0 | 90.1 | 93.9 | 103.5 | 87.6 |
| 1985 | 111.3 | 105.6 | 115.0 | 95.0 | 96.0 | 107.0 | 92.9 |
| 1986 | 115.8 | 107.8 | 171.2 | 128.3 | 135.6 | 142.7 | 113.7 |
| 1987 | 118.4 | 116.3 | 204.2 | 153.3 | 171.4 | 173.3 | 140.5 |
| 1988 | 123.1 | 130.9 | 234.4 | 160.5 | 182.1 | 179.3 | 162.4 |
| 1989 | 127.9 | 141.2 | 231.2 | 158.0 | 178.4 | 187.0 | 163.7 |
| 1990 | 134.7 | 151.3 | 237.5 | 194.8 | 222.2 | 238.1 | 184.3 |
| 1991 | 141.9 | 164.0 | 270.6 | 197.1 | 230.7 | 254.3 | 201.6 |
| 1992 | 147.9 | 161.6 | 299.4 | 217.4 | 258.4 | 275.1 | 221.9 |
| 1993 | 152.0 | 151.9 | 357.1 | 210.8 | 261.9 | 229.8 | 202.4 |
| 1994 ........................................................... | 154.5 | 147.7 | 395.5 | 220.9 | 278.2 | 226.9 | 214.7 |

[^80]Source: Department of Labor, Bureau of Labor Statistics.

Table B-106.-F ordign exchange rates, 1969-95
[Currency units per U.S. dollar, except as noted]

| Period | Belgium (franc) | Canada (dollar) | France (franc) | Germany (mark) | Italy (lira) | Japan (yen) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| March 1973 .............. | 39.408 | 0.9967 | 4.5156 | 2.8132 | 568.17 | 261.90 |
| 1969 ..................... | 50.142 | 1.0769 | 5.1999 | 3.9251 | 627.32 | 358.36 |
| 1970 ....................... | 49.656 | 1.0444 | 5.5288 | 3.6465 | 627.12 | 358.16 |
| 1971 ....................... | 48.598 | 1.0099 | 5.5100 | 3.4830 | 618.34 | 347.79 |
| 1972 ....................... | 44.020 | . 9907 | 5.0444 | 3.1886 | 583.70 | 303.13 |
| 1973 ....................... | 38.955 | 1.0002 | 4.4535 | 2.6715 | 582.41 | 271.31 |
| 1974 ....................... | 38.959 | . 9780 | 4.8107 | 2.5868 | 650.81 | 291.84 |
| 1975 ........................ | 36.800 | 1.0175 | 4.2877 | 2.4614 | 653.10 | 296.78 |
| 1976 ........................ | 38.609 | . 9863 | 4.7825 | 2.5185 | 833.58 | 296.45 |
| 1977 ........................ | 35.849 | 1.0633 | 4.9161 | 2.3236 | 882.78 | 268.62 |
| 1978 ....................... | 31.495 | 1.1405 | 4.5091 | 2.0097 | 849.13 | 210.39 |
| 1979 ...................... | 29.342 | 1.1713 | 4.2567 | 1.8343 | 831.11 | 219.02 |
| 1980 ....................... | 29.238 | 1.1693 | 4.2251 | 1.8175 | 856.21 | 226.63 |
| 1981 ...................... | 37.195 | 1.1990 | 5.4397 | 2.2632 | 1138.58 | 220.63 |
| 1982 ....................... | 45.781 | 1.2344 | 6.5794 | 2.4281 | 1354.00 | 249.06 |
| 1983 ..................... | 51.123 | 1.2325 | 7.6204 | 2.5539 | 1519.32 | 237.55 |
| 1984 ....................... | 57.752 | 1.2952 | 8.7356 | 2.8455 | 1756.11 | 237.46 |
| 1985 ..................... | 59.337 | 1.3659 | 8.9800 | 2.9420 | 1908.88 | 238.47 |
| 1986 ....................... | 44.664 | 1.3896 | 6.9257 | 2.1705 | 1491.16 | 168.35 |
| 1987 ....................... | 37.358 | 1.3259 | 6.0122 | 1.7981 | 1297.03 | 144.60 |
| 1988 ....................... | 36.785 | 1.2306 | 5.9595 | 1.7570 | 1302.39 | 128.17 |
| 1989 ....................... | 39.409 | 1.1842 | 6.3802 | 1.8808 | 1372.28 | 138.07 |
| 1990 ...................... | 33.424 | 1.1668 | 5.4467 | 1.6166 | 1198.27 | 145.00 |
| 1991 ............. | 34.195 | 1.1460 | 5.6468 | 1.6610 | 1241.28 | 134.59 |
| 1992 .. | 32.148 | 1.2085 | 5.2935 | 1.5618 | 1232.17 | 126.78 |
| 1993 .. | 34.581 | 1.2902 | 5.6669 | 1.6545 | 1573.41 | 111.08 |
| 1994 .................... | 33.426 | 1.3664 | 5.5459 | 1.6216 | 1611.49 | 102.18 |
| 1995 ....................... | 29.472 | 1.3725 | 4.9864 | 1.4321 | 1629.45 | 93.96 |
| 1994: \| ............... | 35.573 | 1.3425 | 5.8551 | 1.7213 | 1683.14 | 107.51 |
| II ................. | 34.189 | 1.3825 | 5.6812 | 1.6601 | 1604.10 | 103.24 |
| III .................. | 32.153 | 1.3717 | 5.3428 | 1.5604 | 1570.58 | 99.09 |
| IV .................. | 31.778 | 1.3684 | 5.3026 | 1.5440 | 1589.34 | 98.88 |
| 1995: \| | 30.418 | 1.4073 | 5.1539 | 1.4756 | 1643.04 | 95.87 |
| II .......... | 28.749 | 1.3714 | 4.9202 | 1.3978 | 1666.46 | 84.50 |
| III ................... | 29.461 | 1.3557 | 4.9474 | 1.4321 | 1609.96 | 94.25 |
| IV ................... | 29.286 | 1.3560 | 4.9269 | 1.4238 | 1597.47 | 101.54 |
|  | Netherlands | Sweden | Switzerland | United Kingdom | Multilateral trad the U.S. dollar | ted value of $1973=100 \text { ) }$ |
|  |  |  |  |  | Nominal | Real ${ }^{2}$ |
| March 1973 | 2.8714 | 4.4294 | 3.2171 | 2.4724 | 100.0 | 100.0 |
| 1969 | 3.6240 | 5.1701 | 4.3131 | 2.3901 | 122.4 |  |
| 1970 ..... | 3.6166 | 5.1862 | 4.3106 | 2.3959 | 121.1 |  |
| 1971 ....................... | 3.4953 | 5.1051 | 4.1171 | 2.4442 | 117.8 |  |
| 1972 ....................... | 3.2098 | 4.7571 | 3.8186 | 2.5034 | 109.1 |  |
| 1973 ...................... | 2.7946 | 4.3619 | 3.1688 | 2.4525 | 99.1 | 98.8 |
| 1974 .... | 2.6879 | 4.4387 | 2.9805 | 2.3403 | 101.4 | 99.3 |
| 1975 ...................... | 2.5293 | 4.1531 | 2.5839 | 2.2217 | 98.5 | 94.0 |
| 1976 ....................... | 2.6449 | 4.3580 | 2.5002 | 1.8048 | 105.7 | 97.5 |
| 1977 ....................... | 2.4548 | 4.4802 | 2.4065 | 1.7449 | 103.4 | 93.3 |
| 1978 ........................ | 2.1643 | 4.5207 | 1.7907 | 1.9184 | 92.4 | 84.3 |
| 1979 ....................... | 2.0073 | 4.2893 | 1.6644 | 2.1224 | 88.1 | 83.2 |
| 1980 ...................... | 1.9875 | 4.2310 | 1.6772 | 2.3246 | 87.4 | 84.9 |
| 1981 ...................... | 2.4999 | 5.0660 | 1.9675 | 2.0243 | 103.4 | 100.9 |
| 1982 ................. | 2.6719 | 6.2839 | 2.0327 | 1.7480 | 116.6 | 111.7 |
| 1983 .. | 2.8544 | 7.6718 | 2.1007 | 1.5159 | 125.3 | 117.3 |
| 1984 ..................... | 3.2085 | 8.2708 | 2.3500 | 1.3368 | 138.2 | 128.8 |
| 1985 ....................... | 3.3185 | 8.6032 | 2.4552 | 1.2974 | 143.0 | 132.4 |
| 1986 ....................... | 2.4485 | 7.1273 | 1.7979 | 1.4677 | 112.2 | 103.6 |
| 1987 ....................... | 2.0264 | 6.3469 | 1.4918 | 1.6398 | 96.9 | 90.8 |
| 1988 ...................... | 1.9778 | 6.1370 | 1.4643 | 1.7813 | 92.7 | 88.2 |
| 1989 ...................... | 2.1219 | 6.4559 | 1.6369 | 1.6382 | 98.6 | 94.4 |
| 1990 ...................... | 1.8215 | 5.9231 | 1.3901 | 1.7841 | 89.1 | 86.0 |
| 1991 ...................... | 1.8720 | 6.0521 | 1.4356 | 1.7674 | 89.8 | 86.5 |
| 1992 ....................... | 1.7587 | 5.8258 | 1.4064 | 1.7663 | 86.6 | 83.4 |
| 1993 ....................... | 1.8585 | 7.7956 | 1.4781 | 1.5016 | 93.2 | 90.0 |
| 1994 ...................... | 1.8190 | 7.7161 | 1.3667 | 1.5319 | 91.3 | 88.7 |
| 1995 ...................... | 1.6044 | 7.1406 | 1.1812 | 1.5785 | 84.2 | 82.5 |
| 1994:I ..................... | 1.9311 | 8.0029 | 1.4512 | 1.4881 | 95.5 | 92.6 |
| II ..................... | 1.8632 | 7.7999 | 1.4073 | 1.5046 | 92.9 | 90.1 |
| III .................. | 1.7510 | 7.6716 | 1.3106 | 1.5515 | 88.8 | 86.5 |
| IV .................. | 1.7302 | 7.3832 | 1.2970 | 1.5843 | 88.0 | 85.8 |
| 1995:I ..................... | 1.6548 | 7.3774 | 1.2389 | 1.5829 | 86.3 | 84.4 |
| II ..................... | 1.5651 | 7.3040 | 1.1560 | 1.5962 | 82.3 | 80.4 |
| III ................... | 1.6043 | 7.1815 | 1.1803 | 1.5733 | 84.1 | 82.3 |
| IV ................... | 1.5947 | 6.6936 | 1.1505 | 1.5606 | 84.4 | 82.9 |

${ }^{1}$ Value is U.S. dollars per pound.
${ }^{2}$ Adjusted by changes in consumer prices.
Note.- Certified noon buying rates in New York.

Table B-107.-International reserves, selected years, 1952-95
[Millions of SDRs; end of period]

| Area and country | 1952 | 1962 | 1972 | 1982 | 1992 | 1993 | 1994 | 1995 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Oct | Nov |
| All countries | 49,388 | 62,851 | 146,658 | 361,209 | 725,550 | 789,096 | 844,242 | 936,928 |  |
| Industrial countries ${ }^{1}$ | 39,280 | 53,502 | 113,362 | 214,025 | 424,229 | 440,423 | 460,716 | 509,312 | 511,036 |
| United States | 24,714 | 17,220 | 12,112 | 29,918 | 52,995 | 54,558 | 52,510 | 59,458 | 59,431 |
| Canada | 1,944 | 2,561 | 5,572 | 3,439 | 8,662 | 9,299 | 8,552 | 10,520 | 10,134 |
| Australia .................................... | 920 | 1,168 | 5,656 | 6,053 | 8,429 | 8,359 | 8,007 | 7,694 | 8,232 |
| Japan ......................................... | 1,101 | 2,021 | 16,916 | 22,001 | 52,937 | 72,577 | 87,062 | 122,454 | 123,372 |
| New Zealand ............................... | 183 | 251 | 767 | 577 | 2,239 | 2,430 | 2,540 | 2,761 | 2,906 |
| Austria | 116 | 1,081 | 2,505 | 5,544 | 9,703 | 11,288 | 12,165 | 13,908 | 13,754 |
| Belgium ...................................... | 1,133 | 1,753 | 3,564 | 4,757 | 10,914 | 9,187 | 10,382 | 11,293 | 11,278 |
| Denmark ..................................... | 150 | 256 | 787 | 2,111 | 8,090 | 7,557 | 6,260 | 7,108 | 7,152 |
| Finland ........................................ | 132 | 237 | 664 | 1,420 | 3,862 | 4,009 | 7,374 | 6,762 | 7,215 |
| France ....................................... | 686 | 4,049 | 9,224 | 17,850 | 22,522 | 19,354 | 20,851 | 21,063 | 21,173 |
| Germany | 960 | 6,958 | 21,908 | 43,909 | 69,489 | 59,856 | 56,325 | 59,324 | 59,992 |
| Greece | 94 | 287 | 950 | 916 | 3,606 | 5,792 | 10,222 | 10,193 | 9,763 |
| Iceland .......................................... | 8 | 32 | 78 | 133 | 364 | 312 | 202 | 227 | 208 |
| Ireland .......................................... | 318 | 359 | 1,038 | 2,390 | 2,514 | 4,326 | 4,201 | 5,659 | 5,522 |
| Italy ............................................. | 722 | 4,068 | 5,605 | 15,108 | 22,438 | 22,387 | 24,435 | 24,655 |  |
| Netherlands ................................. | 953 | 1,943 | 4,407 | 10,723 | 17,492 | 24,046 | 24,872 | 25,239 | 24,452 |
| Norway | 164 | 304 | 1,220 | 6,273 | 8,725 | 14,327 | 13,074 | 15,700 | 15,742 |
| Portugal | 603 | 680 | 2,129 | 1,179 | 14,474 | 12,094 | 11,189 |  |  |
| Spain . | 134 | 1,045 | 4,618 | 7,450 | 33,640 | 30,429 | 29,021 | 23,447 | 23,567 |
| Sweden | 504 | 802 | 1,453 | 3,397 | 16,667 | 14,081 | 16,141 | 15,725 | 15,566 |
| Switzerland ................................... | 1,667 | 2,919 | 6,961 | 16,930 | 27,100 | 26,674 | 26,704 | 25,251 | 26,034 |
| United Kingdom ............................ | 1,956 | 3,308 | 5,201 | 11,904 | 27,300 | 27,420 | 28,739 | ........... |  |
| Developing countries: Total ${ }^{2}$................. | 9,648 | 9,349 | 33,295 | 147,184 | 301,321 | 348,673 | 383,526 | 427,616 |  |
| By area: |  |  |  |  |  |  |  |  |  |
| Africa | 1,786 | 2,110 | 3,962 | 7,737 | 12,826 | 13,778 | 16,367 | 16,504 | 17,621 |
| Asia ${ }^{2}$ | 3,793 | 2,772 | 8,129 | 44,490 | 164,403 | 190,810 | 229,296 | 249,709 |  |
| Europe | 269 | 381 | 2,680 | 5,359 | 15,171 | 17,176 | 19,374 | 31,130 | 30,735 |
| Middle East .................................. | 1,183 | 1,805 | 9,436 | 64,039 | 44,151 | 47,319 | 46,341 | 50,309 | 50,394 |
| Western Hemisphere ....................... | 2,616 | 2,282 | 9,089 | 25,563 | 64,770 | 79,589 | 72,148 | 79,964 | 82,161 |
| Memo: |  |  |  |  |  |  |  |  |  |
| Oil-exporting countries $\qquad$ Non-oil developing countries ${ }^{2}$ | 1,699 7 | 2,030 7,319 | 9,956 23,339 | 67,108 80,076 | 46,144 255,177 | 46,532 302,141 | 44,445 339,081 | 44,369 383,247 | 44,563 |
| Non-oil developing countries ${ }^{2}$........ | 1,949 | 7,319 | 23,339 | 80,076 | 255,177 | 302,141 | 339,081 | 383,247 | .............. |

${ }^{1}$ Includes data for Luxembourg.
${ }^{2}$ Includes data for Taiwan Province of China.
Note. - International reserves is comprised of monetary authorities' holdings of gold (at SDR 35 per ounce), special drawing rights (SDRs) reserve positions in the International Monetary Fund, and foreign exchange. Data exclude U.S.S.R., other Eastern European countries, and Cuba (after 1960).
U.S. dollars per SDR (end of period) are: 1952 and 1962-1.00000; 1972-1.08571; 1982-1.10311; 1992-1.37500; 1993-1.37356; 1994-1.45985; October 1995-1.49455; and November 1995-1.48615.
Source: International Monetary Fund, International Financial Statistics.

Table B-108.-G rowth rates in real gross domestic product, 1977-95
[Percent change at annual rate]

| Area and country | 1977-86 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 19951 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| World ................................................ | 3.3 | 4.0 | 4.6 | 3.5 | 2.4 | 1.3 | 2.0 | 2.5 | 3.6 | 3.7 |
| Industrial countries ..................... | 2.7 | 3.2 | 4.4 | 3.3 | 2.4 | . 8 | 1.5 | 1.1 | 3.1 | 2.5 |
| United States ${ }^{2}$ | 2.7 | 3.1 | 3.9 | 2.5 | 1.2 | -. 6 | 2.3 | 3.1 | 4.1 | 2.9 |
| Canada ......... | 3.1 | 4.2 | 5.0 | 2.4 | -. 2 | -1.8 | . 8 | 2.2 | 4.6 | 2.2 |
| Japan ......................................... | 4.0 | 4.1 | 6.2 | 4.7 | 4.8 | 4.3 | 1.1 | -. 2 | . 5 | . 5 |
| European Union ............................. | 2.1 | 2.9 | 4.2 | 3.5 | 3.0 | 1.1 | 1.0 | -. 6 | 2.8 | 2.9 |
| France | 2.2 | 2.3 | 4.4 | 4.3 | 2.5 | . 8 | 1.3 | -1.5 | 2.9 | 2.9 |
| Germany ${ }^{3}$................................ | 1.9 | 1.5 | 3.7 | 3.6 | 5.7 | 2.8 | 2.2 | -1.2 | 2.9 | 2.6 |
| Italy ........ | 2.7 | 3.1 | 4.1 | 2.9 | 2.1 | 1.2 | . 7 | -1.2 | 2.2 | 3.0 |
| United Kingdom ${ }^{4}$....................... | 2.1 | 4.8 | 5.0 | 2.2 | . 4 | -2.0 | -. 5 | 2.2 | 3.8 | 2.7 |
| Developing countries ........................ | 4.5 | 5.7 | 5.2 | 4.2 | 4.0 | 4.9 | 5.9 | 6.1 | 6.2 | 6.0 |
| Africa .......................................... | 2.1 | 1.6 | 3.6 | 3.4 | 2.1 | 1.7 | . 7 | . 8 | 2.6 | 3.0 |
| Asia ........................................... | 6.7 | 8.1 | 9.1 | 6.0 | 5.7 | 6.4 | 8.2 | 8.7 | 8.5 | 8.7 |
| Middle East and Europe ................ | 2.6 | 5.0 | -. 5 | 2.7 | 4.8 | 3.2 | 5.5 | 3.6 | . 3 | 2.4 |
| Western Hemisphere ..................... | 3.2 | 3.4 | 1.1 | 1.6 | . 6 | 3.5 | 2.7 | 3.3 | 4.6 | 1.8 |
| Countries in transition ${ }^{5}$..................... | 3.3 | 2.5 | 4.0 | 2.0 | -3.9 | -11.6 | -15.2 | -9.1 | -9.5 | -2.1 |
| Central and eastern Europe .. | .............. | ............ | ........... | ............ | ............ | -11.1 | -11.3 | -6.1 | -3.8 | . 2 |
| Asia ...................................... |  |  |  | . | .... | -12.0 | -18.7 | -11.8 | -15.2 | -4.6 |

[^81] GDP.

Sources: Department of Commerce (Bureau of Economic Analysis) and International Monetary Fund.


[^0]:    * For a detailed table of contents of the Council's Report, see page 13.

[^1]:    Note: General government includes Federal, State and local.
    Source: Organization for Economic Cooperation and Development.

[^2]:    ${ }^{1}$ Family economic income (FEI) is defined as the sum of adjusted gross income, unreported income, IRA and Keogh deductions, nontaxable transfer payments, employer-provided fringe benefits, tax-exempt interest, inside build-up on tax-favored investments, imputed rental value of owner-occupied housing, and inflation-adjusted capital gains and losses accrued during the year. FEI aggregates the incomes for all family members.
    ${ }^{2}$ Effective tax rate equals total taxes divided by family economic income.
    Note. - Estate and gift taxes and custom duties are excluded. It is assumed that: individual incomes taxes are borne by the people who pay them; corporate income taxes are borne by all owners of capital; excise taxes on purchases by individuals are borne by the purchaser and those on business purchases are borne by individuals in proportion to total consumption; and payroll taxes are assumed borne by employees.

    Source: Department of the Treasury.

    ## similar to the before-tax measures, with substantial increases in income inequality occurring in the 1980s.

[^3]:    Note: Elderly dependency is the ratio of the population age 65 and over to those age 20-64.

[^4]:    ${ }^{1}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services.
    ${ }^{2}$ GDP plus net receipts of factor income from rest of the world.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^5]:    ${ }^{1}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services.
    ${ }^{2}$ GDP plus net receipts of factor income from rest of the world.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^6]:    See next page for continuation of table.

[^7]:    ${ }^{1}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services.
    ${ }^{2}$ Percent change from preceding period; quarterly changes are at annual ratres.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^8]:    ${ }^{1}$ Percent changes shown here are calculated using unrounded data. Quarterly percent changes are at annual rates.

[^9]:    Source: Department of Commerce, Bureau of Economic Analysis.

[^10]:    ${ }^{1}$ Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.

    Source: Department of Commerce, Bureau of Economic Analysis.

[^11]:    ${ }^{1}$ Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in serv-

[^12]:    ${ }^{1}$ Includes compensation of employees in government enterprises.
    ${ }^{2}$ Compensation of government employees.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^13]:    ${ }^{1}$ Includes compensation of employees in government enterprises.
    ${ }^{2}$ Compensation of government employees.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^14]:    ${ }^{1}$ Indirect business tax and nontax liability plus business transfer payments less subsidies.

[^15]:    ${ }^{1}$ Includes other items not shown separately.
    ${ }^{2}$ Includes imputed rental value of owner-occupied housing
    Source: Department of Commerce, Bureau of Economic Analysis.

[^16]:    ${ }^{1}$ Includes other items not shown separately.
    ${ }^{2}$ Includes imputed rental value of owner-occupied housing.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^17]:    ${ }^{1}$ Includes other items, not shown separately.
    ${ }^{2}$ Includes new computers and peripheral equipment only.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^18]:    ${ }^{1}$ Inventories at end of quarter. Quarter-to-quarter change calculated from this table is not the current-dollar change in business inventories (CBI) component of GDP. The former is the difference between two inventory stocks, each valued at their 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 CBI is stated at annual rates.
    ${ }^{2}$ Inventories of construction establishments are included in "other" nonfarm inventories.
    ${ }^{3}$ Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and general government and includes a small amount of final sales by farms.

    Note. - The industry classification of inventories is on an establishment basis. Estimates for nonfarm industries other than manufacturing and trade for 1986 and earlier periods are based on the 1972 Standard Industrial Classification (SIC). Manufacturing estimates for 1981 and earlier periods and trade estimates for 1966 and earlier periods are based on the 1972 SIC; later estimates for these industries are based on the 1987 SIC. The resulting discontinuities are small.

    Source: Department of Commerce, Bureau of Economic Analysis.

[^19]:    ${ }^{1}$ Inventories at end of quarter. Quarter-to-quarter changes calculated from this table are at quarterly rates, whereas the real-dollar change in business inventories component of GDP is stated at annual rates.
    ${ }^{2}$ Inventories of construction establishments are included in "other" nonfarm inventories.
    ${ }^{3}$ Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and general government and includes a small amount of final sales by farms.

    Note. - The industry classification of inventories is on an establishment basis. Estimates for nonfarm industries other than manufacturing and trade for 1986 and earlier periods are based on the 1972 Standard Industrial Classification (SIC). Manufacturing estimates for 1981 and earlier periods and trade estimates for 1966 and earlier periods are based on the 1972 SIC; later estimates for these industries are based on the 1987 SIC. The resulting discontinuities are small.

    Source: Department of Commerce, Bureau of Economic Analysis.

[^20]:    ${ }^{1}$ Includes capital grants received by the United States (net), not shown separately. See Table B-28 for data.
    ${ }^{2}$ Certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.
    ${ }^{3}$ Mainly receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.
    ${ }^{4}$ Mainly payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

[^21]:    ${ }^{1}$ Certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.
    2 Mainly receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.
    ${ }^{3}$ Mainly payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^22]:    ${ }^{1}$ Mainly receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.
    ${ }^{2}$ Mainly payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

[^23]:    ${ }^{1}$ Includes rest of world.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^24]:    ${ }^{1}$ National income is the total net income earned in production. It differs from gross domestic product mainly in that it excludes depreciation charges and other allowances for business and institutional consumption of durable capital goods and indirect business taxes. See Table B-22.

    See next page for continuation of table.

[^25]:    ${ }^{2}$ Without capital consumption adjustment
    ${ }^{3}$ Without inventory valuation and capital consumption adjustments.

[^26]:    1 Percents based on data in millions of dollars.

[^27]:    ${ }^{1}$ Population of the United States including Armed Forces overseas; includes Alaska and Hawaii beginning 1960. Annual data are averages of quarterly data. Quarterly data are averages for the period.

    Source: Department of Commerce (Bureau of Economic Analysis and Bureau of the Census).

[^28]:    ${ }^{4}$ For details on government investment, see Table B-16.
    ${ }^{5}$ Net exports of goods and services plus net receipts of factor income from rest of the world less net transfers plus net capital grants received by the United States. See also Table B-20.
    ${ }^{6}$ Consists of a U.S. payment to India under the Agricultural Trade Development and Assistance Act. This payment is included in capital grants received by the United States, net.

[^29]:    ${ }^{1}$ The term "family" refers to a group of two or more persons related by birth, marriage, or adoption and residing together. Every family must include a reference person. Beginning 1979, based on householder concept and restricted to primary families.
    ${ }^{2}$ Current dollar median money income deflated by CPI-U-X1.
    ${ }_{3}$ Prior to 1979, data are for persons 14 years and over.
    ${ }^{4}$ Based on 1980 census population controls; comparable with succeeding years.
    ${ }^{5}$ Reflects implementation of Hispanic population controls; comparable with succeeding years.
    ${ }^{6}$ Based on revised methodology; comparable with succeeding years.
    ${ }^{7}$ Based on 1990 census population controls; comparable with succeeding years.

[^30]:    Note.- Includes Armed Forces overseas beginning 1940. Includes Alaska and Hawaii beginning 1950.
    All estimates are consistent with decennial census enumerations.
    Source: Department of Commerce, Bureau of the Census.

[^31]:    ${ }^{1}$ 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.
    See next page for continuation of table.

[^32]:    Note. - See footnote 5 and Note, Table B-31.

[^33]:    Note. - See footnote 5 and Note, Table B-31.

[^34]:    ${ }^{1}$ Civilian labor force as percent of civilian noninstitutional population in group specified.

[^35]:    ${ }^{1}$ Civilian employment as percent of civilian noninstitutional population in group specified.

[^36]:    ${ }^{1}$ Unemployed as percent of civilian labor force in group specified.

[^37]:    ** Monthly data are seasonally adjusted.

[^38]:    ${ }^{1}$ Employer costs for employee benefits.

[^39]:    ${ }^{1}$ Output refers to real gross domestic product originating in the sector.
    ${ }^{2}$ Hours at work of all persons engaged in the 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.
    ${ }^{4}$ Hourly compensation divided by the consumer price index for all urban consumers.
    ${ }^{5}$ Current dollar output divided by the output index.
    Note.- Percent changes are based on original data and may differ slightly from percent changes based on indexes in Table B-45.
    See Note, Table B-45.

[^40]:    ${ }^{1}$ Beginning 1960, farm residential buildings included in residential buildings; prior to 1960, included in nonresidential buildings and other construction.
    ${ }^{2}$ Includes residential improvements, not shown separately. Prior to 1964, also includes nonhousekeeping units (hotels, motels, etc.).
    ${ }^{3}$ Office buildings, warehouses, stores, restaurants, garages, etc., and, beginning 1964, hotels and motels; prior to 1964 hotels and motels are included in total residential.
    ${ }^{4}$ Religious, educational, hospital and institutional, miscellaneous nonresidential, farm (see also footnote 1), public utilities (telecommunications, gas, electric, railroad, and petroleum pipelines), and all other private.
    ${ }^{5}$ Includes Federal grants-in-aid for State and local projects.
    Source: Department of Commerce, Bureau of the Census.

[^41]:    ${ }^{1}$ Units in structures built by private developers for sale upon completion to local public housing authorities under the Department of Hous ing and Urban Development "Turnkey" program are classified as private housing. Military housing starts, including those financed with mortgages insured by FHA under Section 803 of the National Housing Act, are included in publicly owned starts and excluded from total private starts.
    ${ }^{2}$ Authorized by issuance of local building permit: in 19,000 permit-issuing places beginning 1994; in 17,000 places for 1984-93; in 16,000 places for 1978-83; in 14,000 places for 1972-77; in 13,000 places for 1967-71; in 12,000 places for 1963-66; and in 10,000 places prior to 1963.
    ${ }^{3}$ Not available separately beginning J anuary 1970.
    ${ }^{4}$ Series discontinued December 1988.
    Source: Department of Commerce, Bureau of the Census.

[^42]:    ${ }^{1}$ Annual data are averages of monthly not seasonally adjusted figures.
    ${ }^{2}$ Seasonally adjusted, end of period. Inventories beginning January 1982 for manufacturing and December 1980 for wholesale and retai trade are not comparable with earlier periods.
    ${ }^{3}$ Inventory/sales ratio. Annual data are: beginning 1982, averages of monthly ratios; for 1958-81, ratio of December inventories to monthly average sales for the year; and for earlier years, weighted averages. Monthly data are ratio of inventories at end of month to sales for month.
    Note.- Earlier data are not strictly comparable with data beginning 1958 for manufacturing and beginning 1967 for wholesale and retail trade.

[^43]:    ${ }^{1}$ Annual data are averages of monthly not seasonally adjusted figures.
    ${ }^{2}$ Seasonally adjusted, end of period. Data beginning 1982 are not comparable with data for prior periods.

[^44]:    ${ }^{1}$ Includes alcoholic beverages, not shown separately.
    ${ }^{2}$ Household fuels - gas (piped), electricity, fuel oil, etc. - and motor fuel. Motor oil, coolant, etc. also included through 1982.
    Note. - Data beginning 1983 incorporate a rental equivalence measure for homeowners' costs.

[^45]:    ${ }^{1}$ Includes alcoholic beverages, not shown separately.
    ${ }^{2}$ December $1982=100$.

[^46]:    ${ }^{3}$ Includes other new vehicles, not shown separately. Includes direct pricing of new trucks and motorcycles beginning 1982.
    ${ }^{4}$ Includes direct pricing of diesel fuel and gasohol beginning 1981.

[^47]:    ${ }^{1}$ CPI-U-X1 is a rental equivalence approach to homeowners' costs for the consumer price index for years prior to 1983, the first year for which the official index (CPI-U) incorporates such a measure. CPI-U-X1 is rebased to the December 1982 value of the CPI-U (1982$84=100$ ); thus it is identical with CPI-U data for December 1982 and all subsequent periods. Data prior to 1967 estimated by moving the series at the same rate as the CPI-U for each year.

[^48]:    ${ }^{1}$ Changes from December to December are based on unadjusted indexes.
    ${ }^{2}$ Commodities and services.
    ${ }^{3}$ Household fuels-gas (piped), electricity, fuel oil, etc. - and motor fuel. Motor oil, coolant, etc. also included through 1982.

[^49]:    ${ }^{2}$ Intermediate materials for food manufacturing and feeds.

[^50]:    ${ }^{1}$ Intermediate materials for food manufacturing and feeds.

[^51]:    ${ }^{1}$ Consists of outstanding credit market debt of the U.S. Government, State and local governments, and private nonfinancial sectors; data

[^52]:    ${ }^{1}$ Includes continuing contract RPs.

[^53]:    1 Data are Wednesday values or prorated averages of Wednesday values for domestically chartered commercial banks, branches and agencies of foreign banks, New York State investment companies, and foreign-related institutions. Beginning 1988, data are adjusted for breaks caused by reclassifications of assets and liabilities.
    ${ }^{2}$ Excludes Federal funds sold to, reverse repurchase agreements (RPs) with, and loans to commercial banks in the United States.
    Note.- Data are not strictly comparable because of breaks in the series.

[^54]:    ${ }^{1}$ Rate on new issues within period; bank-discount basis.
    ${ }^{2}$ Yields on the more actively traded issues adjusted to constant maturities by the Treasury Department.
    ${ }^{3}$ 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 January 1973 not strictly comparable with prior rates.
    ${ }^{4}$ Bank-discount basis; prior to November 1979, data are for 4-6 months paper.
    ${ }^{5}$ For monthly data, high and low for the period. Prime rate for 1929-33 and 1947-48 are ranges of the rate in effect during the period.
    ${ }^{6}$ 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.
    7 From October 30,1942 , to April 24, 1946, a preferential rate of 0.50 percent was in effect for advances secured by Government securi-

[^55]:    See next page for continuation of table.

[^56]:    Source: Board of Governors of the Federal Reserve System.

[^57]:    ${ }^{1}$ Includes FHA insured multifamily properties, not shown separately.
    ${ }^{2}$ Derived figures. Total includes multifamily and commercial properties, not shown separately.

[^58]:    ${ }^{1}$ Includes savings banks and savings and loan associations. Data reported by Federal Savings and Loan Insurance Corporation-insured institutions include loans in process for 1987 and exclude loans in process beginning 1988.
    ${ }^{2}$ Includes loans held by nondeposit trust companies, but not by bank trust departments.
    ${ }^{3}$ Includes Government National Mortgage Association (GNMA), Federal Housing Administration, Veterans Administration, Farmers Home Administration (FmHA), 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 (FNMA), Federal Land Banks, Federal Home Loan Mortgage Corporation (FHLMC), and mortgage pass-through securities issued or guaranteed by GNMA, FHLMC, FNMA or FmHA. Other U.S. agencies (amounts small or current separate data not readily available) included with "individuals and others."
    ${ }^{4}$ Includes private mortgage pools.

[^59]:    ${ }^{1}$ Installment credit covers most short- and intermediate-term credit extended to individuals through regular business channels, usually to finance the purchase of consumer goods and services or to refinance debts incurred for such purposes, and scheduled to be repaid (or with the option of repayment) in two or more installments. Credit secured by real estate is excluded.
    ${ }^{2}$ Consists of credit cards at retailers, gasoline companies, and commercial banks, and check credit at commercial banks. Excludes 30 -day charge credit held by travel and entertainment companies. Prior to 1968, included in "other," except gasoline companies included in noninstallment credit prior to 1971. Beginning 1977, includes open-end credit at retailers, previously included in "other." Also beginning 1977, some retail credit was reclassified from commercial into consumer credit.
    ${ }^{3}$ Includes mobile home loans and all other installment loans not included in automobile or revolving credit, such as loans for education boats, trailers, or vacations. These loans may be secured or unsecured.
    ${ }^{4}$ Noninstallment credit is credit scheduled to be repaid in a lump sum, including single-payment loans, charge accounts, and service credit. Because of inconsistencies in the data and infrequent benchmarking, series is no longer published by the Federal Reserve Board on a regular basis. Data are shown here as a general indication of trends.
    ${ }^{5}$ Data newly available in January 1989 result in breaks in many series between December 1988 and subsequent months

[^60]:    ${ }^{1}$ Not strictly comparable with later data.
    ${ }^{2}$ Estimates for 1995 from Final Monthly Treasury Statement, October 1995, except GDP calculated using quarterly seasonally adjusted data.

    Note.- Through fiscal year 1976, the fiscal year was on a July 1-June 30 basis; beginning October 1976 (fiscal year 1977), the fiscal year is on an October 1 -September 30 basis. The 3-month period from July 1, 1976 through September 30, 1976 is a separate fiscal period known as the transition quarter.

    Refunds of receipts are excluded from receipts and outlays.
    Data shown in this table are from Budget of the United States Government, Fiscal Year 1996, February 1995 (except as noted); all GDP data shown are pre-1996 benchmark.

[^61]:    Note.- Through fiscal year 1976, the fiscal year was on a July 1-June 30 basis; beginning October 1976 (fiscal year 1977), the fiscal year is on an October 1-September 30 basis. The 3-month period from July 1, 1976 through September 30, 1976 is a separate fiscal period known as the transition quarter

    Refunds of receipts are excluded from receipts and outlays.
    Data shown in this table are from Budget of the United States Government, Fiscal Year 1996, February 1995, except 1995 data are from Final Monthly Treasury Statement, October 1995.

    Sources: Department of the Treasury and Office of Management and Budget.

[^62]:    ${ }^{1}$ Includes an item for the difference between wage accruals and disbursements, not shown separately.
    ${ }^{2}$ Prior to 1968, dividends received is included in interest received.

[^63]:    ${ }^{1}$ Includes an item for the difference between wage accruals and disbursements, not shown separately.

[^64]:    ${ }^{1}$ Includes an item for the difference between wage accruals and disbursements, not shown separately.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^65]:    ${ }^{1}$ Fiscal years not the same for all governments. See Note.
    ${ }^{2}$ 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 other taxes and charges and miscellaneous revenues.
    ${ }^{4}$ Includes expenditures for libraries, hospitals, health, employment security administration, veterans' services, air transportation, water transport and terminals, parking facilities, and 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 general expenditures, n.e.c.

    Note. - Data for fiscal years listed from 1962-63 to 1991-92 are the aggregations of data for government fiscal years that ended in the 12 -month period from July 1 to June 30 of those years. Data for 1963 and earlier years include data for government fiscal years ending during that particular calendar year.

[^66]:    ${ }^{1}$ Includes Federal Financing Bank securities, not shown separately, in the amount of 15,000 million dollars.
    ${ }^{2}$ Nonmarketable certificates of indebtedness, notes, bonds, and bills in the Treasury foreign series of dollar-denominated and foreigncurrency denominated issues.
    ${ }^{3}$ Includes depository bonds, retirement plan bonds, Rural Electrification Administration bonds, State and local bonds, and special issues held only by U.S. Government agencies and trust funds and the Federal home loan banks.
    ${ }^{4}$ Includes $\$ 5,610$ million in certificates not shown separately.
    Note. - Through fiscal year 1976, the fiscal year was on a July 1-June 30 basis; beginning October 1976 (fiscal year 1977), the fiscal year is on an October 1-September 30 basis.

    Source: Department of the Treasury.

[^67]:    ${ }^{1}$ U.S. savings bonds, series A-F and J, are included at current redemption value.
    ${ }^{2}$ Includes domestically chartered banks, U.S. branches and agencies of foreign banks, New York investment companies majority owned by foreign banks, and Edge Act corporations owned by domestically chartered and foreign banks.
    ${ }^{3}$ Includes partnerships and personal trust accounts.
    ${ }^{4}$ Includes U.S. savings notes. Sales began May 1, 1967, and were discontinued June 30, 1970.
    ${ }^{5}$ Exclusive of banks and insurance companies.
    ${ }^{6}$ State and local government holdings have been redefined (beginning 1979) to include their fully defeased debt that is backed by nonmarketable Federal securities. Includes State and local pension funds.
    7 Consists of the investments of foreign and international accounts (both official and private) in U.S. public debt issues. Reflects 1978 benchmark through December 1984; December 1984 benchmark through 1989; and December 1989 benchmark thereafter.
    ${ }^{8}$ Includes savings and loan associations, credit unions, nonprofit institutions, mutual savings banks, corporate pension trust funds, dealers and brokers, certain Government deposit accounts, and Government-sponsored enterprises.

[^68]:    ${ }^{1}$ Consists of the following industries: Depository institutions; nondepository credit institutions; security and commodity brokers; insurance carriers; regulated investment companies; small business investment companies; and real estate investment trusts.
    ${ }^{2}$ See Table B-88 for industry detail.
    Note. - The industry classification is on a company basis and is based on the 1987 Standard Industrial Classification (SIC) beginning 1987, and on the 1972 SIC for earlier years shown.
    Source: Department of Commerce, Bureau of Economic Analysis.

[^69]:    ${ }^{1}$ Annual ratios based on average equity for the year (using four end-of-quarter figures). Quarterly ratios based on equity at end of quarter only.
    2
    See footnote 3, Table B- 89.

    Note. - Based on data in millions of dollars.
    See Note, Table B-89.
    Source: Department of Commerce, Bureau of the Census.

[^70]:    ${ }^{1}$ Averages of daily closing prices, except NYSE data through May 1964 are averages of weekly closing prices.
    ${ }^{2}$ Includes stocks as follows: for NYSE, all stocks listed (more than 2,000); for Dow-Jones industrial average, 30 stocks; and for S\&P com-

[^71]:    ${ }^{1}$ Cash marketing receipts and inventory changes plus Government payments, other farm cash income, and nonmoney income furnished by farms.
    ${ }^{2}$ Physical changes in end-of-period inventory of crop and livestock commodities valued at average prices during the period.
    Note. - Data include net Commodity Credit Corporation Ioans and operator households.
    Source: Department of Agriculture.

[^72]:    ${ }^{1}$ Excludes commercial broilers; excludes horses and mules beginning 1959; excludes turkeys beginning 1986.
    ${ }^{2}$ 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.
    ${ }^{4}$ Currency and demand deposits.
    ${ }^{5}$ Includes CCC storage and drying facilities loans.
    ${ }^{6}$ Does not include CCC crop loans.
    ${ }^{7}$ Beginning 1974, data are for farms included in the new farm definition, that is, places with sales of $\$ 1,000$ or more annually.
    Note.- Data exclude operator households.
    Beginning 1959, data include Alaska and Hawaii.

[^73]:    ${ }^{1}$ Farm output measures the annual volume of net farm production available for eventual human use through sales from farms or consumption in farm households
    ${ }^{2}$ Gross production.
    ${ }^{3}$ Includes items not included in groups shown.
    ${ }^{4}$ See Table B-96 for farm inputs.
    Source: Department of Agriculture.

[^74]:    ${ }^{1}$ Farm population as defined by Department of Agriculture and Department of Commerce, i.e., civilian population living on farms in rural areas, regardless of occupation. See also footnote 8. Series discontinued in 1992.
    ${ }^{2}$ Total population of United States including Armed Forces overseas, as of July 1.
    ${ }^{3}$ Includes persons doing farmwork on all farms. These data, published by the Department of Agriculture, differ from those on agricultural employment by the Department of Labor (see Table B-31) because of differences in the method of approach, in concepts of employment, and in time of month for which the data are collected.
    ${ }^{4}$ Prior to 1982 this category was termed "family workers" and did not include nonfamily unpaid workers.
    ${ }^{5}$ Acreage harvested plus acreages in fruits, tree nuts, and farm gardens.
    ${ }^{6}$ Fertilizer, lime, and pesticides.
    ${ }^{7}$ Includes purchases of broiler- and egg-type chicks and turkey poults and livestock imports for purposes other than immediate slaughter.
    ${ }^{8}$ Based on new definition of a farm. Under old definition of a farm, farm population (in thousands and as percent of total population) for 1977, 1978, 1979, 1980, 1981, 1982, and 1983 is 7,806 and 3.6; 8,005 and $3.6 ; 7,553$ and $3.4 ; 7,241$ and $3.2 ; 7,014$ and $3.1 ; 6,880$ and 3.0 ; 7,029 and 3.0, respectively.
    ${ }^{9}$ Basis for farm employment series was discontinued for 1981 through 1984. Employment is estimated for these years.
    Note.- Population includes Alaska and Hawaii beginning 1960.

[^75]:    1 Includes items used for family living, not shown separately.
    ${ }^{2}$ Includes other production items not shown separately.
    ${ }^{3}$ Average for 48 States. Annual data are: March 1 for 1975, February 1 for 1976-81, April 1 for 1982-85, February 1 for 1986-89, and January 1 for 1990-95.

    Note- New series on a 1990-92 base. Data prior to 1975 are not available.

[^76]:    ${ }^{1}$ Adjusted from Census data for differences in valuation, coverage, and timing; excludes military.
    ${ }^{2}$ Quarterly data are not seasonally adjusted.
    ${ }^{3}$ Includes transfers of goods and services under U.S. military grant programs.

[^77]:    Source: Department of Commerce, Bureau of Economic Analysis.

[^78]:    ${ }^{1}$ 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.
    ${ }^{2}$ F.a.S. (free alongside ship) value basis at U.S. port of exportation for exports and at foreign port of exportation for imports.
    ${ }^{3}$ Includes undocumented exports to Canada through 1988. Beginning 1989, undocumented exports to Canada are included in the appropriate end-use category.
    ${ }^{4}$ Total includes "other" exports or imports, not shown separately.
    ${ }^{5}$ Total arrivals of imported goods other than intransit shipments.
    ${ }^{6}$ Total includes revisions not reflected in detail.
    ${ }^{7}$ Total exports are on a revised statistical month basis; end-use categories are on a statistical month basis.
    Note.-Goods on a Census basis are adjusted to a BOP basis by the Bureau of Economic Analysis, in line with concepts and definitions used to prepare international and national accounts. The adjustments are necessary to supplement coverage of Census data, to eliminate duplication of transactions recorded elsewhere in international accounts, and to value transactions according to a standard definition.

    Data include trade of the U.S. Virgin Islands.
    Source: Department of Commerce (Bureau of the Census and Bureau of Economic Analysis).

[^79]:    ${ }^{1}$ Consists of Belgium-Luxembourg, Denmark, France, Greece, Ireland, Italy, Netherlands, United Kingdom, Germany, Portugal, and Spain. Data exclude Austria, Finland and Sweden which became members January 1, 1995. Industrial production includes data for Greece beginning 1981; data for Portugal and Spain are included beginning 1982.
    ${ }^{2}$ Data are for West Germany only.
    ${ }^{3}$ All data exclude construction. Quarterly data are seasonally adjusted.
    Sources: National sources as reported by Department of Commerce (International Trade Administration, Office of Trade and Economic Analysis), Department of Labor (Bureau of Labor Statistics), and Board of Governors of the Federal Reserve System.

[^80]:    ${ }^{1}$ Data are for West Germany only.
    ${ }^{2}$ Civilian unemployment rates, approximating U.S. concepts. Quarterly data for France and 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 Germany (1983), Italy (1986, 1991, and 1993), and United States (1994). Based on the prior series, the rate for Germany was 7.2 percent in 1983, and the rate for Italy was 6.3 percent in 1986 and 6.6 in 1991 . The break in 1993 raised Italy's rate by approximately 1 percentage point. For details on break in series in 1994 for United States, see footnote 5, Table B-31.
    ${ }^{4}$ Hourly compensation in manufacturing, U.S. dollar basis. Data relate to all employed persons (wage and salary earners and the selfemployed) in the United States, Canada, Japan, France, and Germany, and to all employees (wage and salary earners) in the other countries. For France and United Kingdom, compensation adjusted to include changes in employment taxes that are not compensation to employees, but are labor costs to employers.

    Data for United States do not reflect U.S. productivity data released on February 8, 1996.

[^81]:    ${ }^{1}$ All figures are forecasts as published by the International Monetary Fund.
    ${ }^{2}$ U.S. GDP data were revised historically by the Department of Commerce in January 1996; data shown in this table are pre-benchmark estimates. See Table B-2 for revised GDP data.
    ${ }^{3}$ Through 1990 data are for West Germany only.
    ${ }^{4}$ Average of expenditure, income, and output estimates of GDP at market prices.
    ${ }^{5}$ For most countries included in the group, total output is measured by real net material product (NMP) or by NMP-based estimates of

