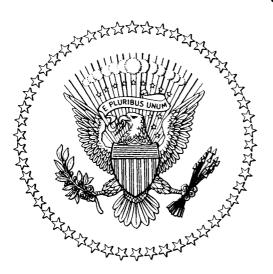
ECONOMIC REPORT OF THE PRESIDENT

TRANSMITTED TO THE CONGRESS JANUARY 1978



TOGETHER WITH THE ANNUAL REPORT OF THE COUNCIL OF ECONOMIC ADVISERS

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Economic Report of the President



Transmitted to the Congress January 1978

TOGETHER WITH THE ANNUAL REPORT OF THE COUNCIL OF ECONOMIC ADVISERS

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ECONOMIC REPORT OF THE PRESIDENT

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To the Congress of the United States:

I will be working closely with the Congress in 1978 to enact a program addressed to the immediate and the long-term needs of our economy. I am proposing tax reductions and reforms to continue our strong economic recovery, to encourage increased investment by American businesses, and to create a simpler and fairer tax system. I am seeking legislation to address the special problems of the disadvantaged and the unemployed. And I am taking new steps to combat inflation.

This report to the Congress on the condition of the economy sets forth the overall framework within which my economic proposals were formulated. It outlines, for you and for the Nation, my economic priorities for the years ahead and my strategies for achieving them.

I have begun from the premise that our economy is basically healthy, but that well-chosen Government policies will assure continued progress toward our economic goals.

Last year more than four million new jobs were created in our country—an all-time record—and unemployment was reduced by more than one million persons. Output rose by almost 6 percent, and the benefits of this large increase were widely shared. The after-tax income of consumers, adjusted for inflation, rose substantially during 1977. Wages of the typical American worker increased by more than the rise of prices, and business profits also advanced.

The American economy is completing three years of recovery from the severe recession of 1974–75. Recovery in most other nations has lagged far behind our own. In the economies of our six major trading partners, seven million persons were unemployed at year's end—more than at the depths of the 1974–75 recession. Our inflation rate is also lower than in most other nations around the world. We have a great many accomplishments. But much progress remains to be made, and there are problems to be dealt with along the way.

The recession of 1974–75 was the worst in 40 years, and the substantial increase in output over the past three years still leaves the economy operating below its productive potential. We cannot be content when almost $6\frac{1}{2}$ million people actively seeking jobs cannot find work, when $3\frac{1}{4}$ million workers take part-time jobs because they cannot find fulltime employment, and when one million people have stopped looking for a job because they have lost hope of finding one. We cannot be content when a substantial portion of our industrial plant stands idle, as it does today.

We cannot be satisfied with an economic recovery that bypasses significant segments of the American people. Unemployment among minorities is more than twice as high as that among whites—and unemployment among minority teenagers is tragically high. Women have fewer satisfying job opportunities than men, and older Americans often find their access to the job market blocked. Farm incomes have dropped precipitously.

We must also address other problems if we are to assure full restoration of prosperity. Inflation is a serious economic concern for all Americans. The inflation rate is too high and must be brought down. Moreover, a residue of unease and caution about the future still pervades the thinking of some of our people. Businesses are still hesitant in their long-term investment planning, and the stock market remains depressed despite the substantial increase in business profits.

The economic difficulties that we face in the United States also confront most nations around the world. Our mutual problems are the legacy of the trauma suffered by the world economy during the early 1970s. The massive escalation of oil prices since 1973 continues to impose great burdens on the world economy. Oil imports drain away the purchasing power of oil-importing nations and upset the international balance of payments.

Many foreign governments have been reluctant to adopt policies needed to stimulate economic growth because they are concerned that inflationary pressures might be renewed or that their balance of international payments might be worsened. Abroad, as well as at home, concerns about the future have deterred business investment in new plants and equipment. As a consequence, economic growth has stagnated in many countries, and the rise in the capital stock needed to increase productivity, raise standards of living, and avoid future inflationary bottlenecks is not occurring.

The problems we face today are more complex and difficult than those of an earlier era. We cannot concentrate just on inflation, or just on unemployment, or just on deficits in the Federal budget or our international payments. Nor can we act in isolation from other countries. We must deal with all of these problems simultaneously and on a worldwide basis. Our problems cannot be solved overnight. But we can resolve them if we fix our sights on long-term objectives, adopt programs that will help us to realize our goals, and remain prepared to make adjustments as basic circumstances change.

In making my decisions on tax and budget policies for fiscal 1979, and in planning more generally for our Nation's future, I have been guided by four objectives for our economy that I believe our Nation should pursue.

We must continue to move steadily toward a high-employment economy in which the benefits of prosperity are widely shared. Progress in reducing unemployment of our labor and capital resources must be sure and sustainable. Over the next several years I believe we can increase our real output by $4\frac{1}{2}$ to 5 percent per year, and reduce unemployment by about one-half of a percentage point each year. An especially high priority is to increase job opportunities for the disadvantaged, particularly for black and Spanish-speaking Americans, and to deal more effectively with local pockets of unemployment, such as those in urban areas. We should eliminate unfair advantages through reform of the tax system, and restructure our welfare system to assure that the fruits of economic growth are enjoyed by all Americans.

We should rely principally on the private sector to lead the economic expansion and to create new jobs for a growing labor force. Five out of every six new jobs in the economy are created in the private sector. There are good reasons for continuing to rely mainly on the private sector in the years ahead. By emphasizing the creation of private jobs, our resources will be used more efficiently, our future capacity to produce will expand more rapidly, and the standard of living for our people will rise faster. Reliance upon the private sector does not mean neglecting the tasks that government can and must perform. The Federal Government can be an active partner to help achieve progress toward meeting national needs and, through competent management, still absorb a declining portion of the Nation's output.

We must contain and reduce the rate of inflation as we move toward a more fully employed economy. Inflation extracts a heavy toll from all Americans, and particularly from the poor and those on fixed incomes. Reducing inflation would benefit us all. A more stable price environment would make it easier for business firms and consumers to plan for the future. Thus, reduced inflation would substantially enhance our chances to maintain a strong economic expansion and return to a highemployment economy. In the years ahead we must seek to unwind the inflation we have inherited from the past and take the steps necessary to prevent new inflationary pressures as we approach high employment.

We must act in ways that contribute to the health of the world economy. As the strongest economy in the world, the United States has unique responsibilities to improve the international economic climate. The wellbeing of the United States depends on the condition of other nations around the world. Their economic destiny is, in turn, shaped by ours. The United States can retain its stature in the world only by pursuing policies that measure up to its role as a leader in international economic affairs.

These four economic objectives are sufficiently ambitious to constitute a serious challenge, but sufficiently realistic to be within our reach. A well-designed program will permit us to achieve them. The principal elements of my economic strategy are:

- Adopting promptly an effective national energy program;
- Managing Federal budget expenditures carefully and prudently, so that we can meet national needs while gradually reducing the share of our national output devoted to Federal spending;
- Using tax reductions to ensure steady growth of the private economy and reforming the tax system to make it fairer, simpler, and more progressive;
- Working to reduce the Federal deficit and balance the budget as rapidly as the developing strength of the economy allows;
- Improving existing programs and developing new ones to attack the problem of structural unemployment among the disadvantaged;
- Promoting greater business capital formation in order to enhance productivity gains, increase standards of living, and reduce the chances that capacity shortages would inhibit expansion later on;
- Adopting more effective programs to reduce the current rate of inflation and prevent a reacceleration of inflation as we approach high employment; and
- Pursuing international economic policies that promote economic recovery throughout the world, encourage an expansion of world trade, and maintain a strong international monetary system.

Prompt Adoption of the National Energy Plan

It has now been over four years since our economy was buffeted by the oil embargo and its aftermath of sharply increased oil prices. The massive oil price increase in 1973–74 contributed to the double-digit inflation of

1974 and to the worst recession in 40 years. It is a primary factor today behind the large deficit in our international balance of payments. Yet the United States still has not enacted a comprehensive and effective energy policy.

Our dependence on imported oil is sapping the strength of the American economy. Last year our imports of oil reached a total of about \$45 billion, compared with $81/_2$ billion in 1973. The increased expenditures on those imports have been like a sudden and massive tax imposed on the American people. Only part of the revenues have been returned to the United States in the form of higher exports of American goods to oilproducing countries. As a consequence, that "tax" has become a major obstacle to economic growth.

The huge deficit in foreign trade arising from our oil imports has contributed to the fall in the value of the dollar abroad. The dollar's decline has raised the cost of the goods we import and contributed to inflation. Our deficit also has unsettled international monetary markets, with adverse consequences for our international trading partners. Our response to the energy crisis is therefore a central element in our international and domestic economic policy. The energy program will not solve our problems at once, but it will pave the way for a balanced foreign trade position and a strong and sound dollar.

Our energy problems will worsen in the years to come unless we curb our appetite for oil and gas. Without decisive action, we will put additional pressure on the world oil market, aggravate inflationary pressures at home, and increase our vulnerability to the threat of oil supply disruptions. Together, these forces could severely limit the potential for continued economic progress over the coming decade.

The United States has no choice but to adjust to the new era of expensive energy. We can only choose when and how. If we act today, we have time to make a gradual transition to more efficient energy use by conserving energy, increasing domestic energy production, and developing alternative sources of energy. If we delay, adjustment later will be harsh and painful, requiring draconian measures to accomplish what can now be done gradually and with far less anguish.

The energy problem we face is enormously complex. Finding an acceptable and effective solution has not been easy for me or for the Congress. I look forward to working closely with the Congress early this year to assure a speedy resolution. An acceptable bill must satisfy the following principles:

• First, the program must effectively reduce our consumption of limited energy supplies—oil and gas—while encouraging energy

production and promoting a transition to the use of resources that are more abundant.

- Second, the program must be fair. No segment of the population should bear a disproportionate share of the cost or burden of adjustment, and no industry should reap unnecessary and undeserved windfall gains.
- Third, the program must be consistent with our overall economic strategy. It must neither undermine our efforts to continue the recovery nor obstruct achievement of our long-term budgetary goals.

Dealing with the energy problem is a difficult test for our Nation. It is a test of our economic and political maturity. Our people would surely react if there were an immediate crisis. But I am asking them to undertake sacrifices to *prevent* a crisis. If we fail to act today, we will bring a crisis upon ourselves and our children in years to come.

Careful Management of Federal Budget Expenditures

My Administration has given high priority to making more effective use of limited Federal resources. In fiscal 1976, Federal outlays amounted to $22\frac{1}{2}$ percent of the Nation's gross national product. This is considerably higher than the share devoted to government spending that prevailed for many years. To some degree, the recent higher share reflects the fact that the economy is still performing below its capacity, and that Federal programs to support the unemployed and the needy are larger than they would be in a high-employment economy. But it also stems from very rapid growth in a number of Federal programs instituted over the past 10 to 15 years.

Most of our Federal expenditure programs are designed to achieve important national goals that the private sector of the economy cannot accomplish. Only the government can provide for the national defense, and government resources are essential to cushion the hardships created by economic recession, to preserve our national resources, to protect the environment, and to meet other critical needs.

The Federal Government has a particular obligation to provide assistance to those who remain in need even during good times. Last year I presented to the Congress a program to reform the welfare system—the Better Jobs and Income Act of 1977—that is a concrete example of our commitment to devote resources to the most pressing national needs. My program will cost money. But it also will establish a more easily understood welfare system that is less costly to administer, less subject to abuse, and more responsive to the true needs of those who receive a helping hand from government. This program will create up to 1.4 million jobs for those able to work, and it will replace the patchwork of Federal, State, and local programs with a consistent income-support system that will relieve much of the enormous burden now placed on State and local governments.

In the management of a business enterprise, efficiency is enforced by the discipline of the market place. The collective judgments of millions of consumers establish an environment in which waste and efficiency are eventually penalized. The government, however, is not subject to that discipline. We in government must therefore impose stringent controls on ourselves to ensure greater efficiency and to make better choices among the possible uses of the taxpayers' money.

To assist us in this endeavor, I have adopted methods of budgetary control that have been tested in the business community. Early last year I asked the Office of Management and Budget to inaugurate a system of zero-based budgeting throughout the Federal Government. Within this budgetary system, every Federal program is given careful scrutiny—no matter how large or how small it may be, no matter how long it has been in existence or how recently established. This new system of budgetary planning helped to hold down less essential outlays in the budget for fiscal 1979 and focus our resources on our important national needs. It will produce even greater savings in subsequent years. A process of multiyear budgeting also has been inaugurated within the Federal Government that will require tentative budget plans to be developed and reviewed for three years ahead. With this system we can more effectively control future expenditures—by avoiding commitments now to endeavors that would grow in the future beyond the proportions we desire.

In formulating my recommendations for the 1979 budget, I have exercised very strict controls over spending. Adjusted for inflation, the increase in outlays has been held to less than 2 percent and the share of Federal expenditures in GNP will fall to 22.0 percent. I intend to continue prudent expenditure controls in the future. With good management we can, I believe, achieve our Nation's important social goals and still reduce over time the share of gross national product committed to Federal expenditures to about 21 percent.

Using Tax Reductions to Promote Steady Economic Expansion

I propose to rely principally upon growth in the private sector of the economy to reduce unemployment and raise incomes. Special Federal efforts will, of course, be necessary to deal with such problems as structural unemployment, but tax reductions will be the primary means by which Federal budget policy will promote growth. Careful mangement of budget outlays and a growing economy should permit substantial reductions in the years ahead. Tax reductions will be needed to strengthen consumer purchasing power and expand consumer markets. Stable growth in markets, together with added tax incentives for business, will lead to rising business investment and growing productivity.

As inflation and real economic growth raise the incomes of most Americans, they are pushed into higher income tax brackets. The tax burden on individuals is raised just as if higher rates had been enacted. The payroll taxes levied on workers and business firms for social security and unemployment insurance will also increase substantially over the years ahead. These are very large increases, but they are needed to keep our social security and unemployment insurance systems soundly financed.

Between 1977 and 1979, taxes on businesses and individuals will rise very sharply as a result of these several factors. Even though our economy is basically healthy, this increasingly heavy tax burden would exert a mounting drag on economic growth. It must, therefore, be counteracted by tax reductions. The magnitude and timing of the reductions should be designed to maintain economic growth at a steady pace, taking into account the effects both of the growing tax burden and of other factors at work in the economy.

Consistent with this strategy, I am proposing a \$25 billion program of net tax reductions accompanied by substantial tax reforms.

Individual income taxes will be reduced primarily through across-theboard reductions in personal tax rates, with special emphasis on low- and middle-income taxpayers. Personal taxes also will be simplified by my proposal to replace the existing personal exemption and credit with a tax credit of \$240 for each person in the taxpayer's family.

There also will be important reforms that will improve the individual income tax system and raise substantial revenues, enabling me to recommend larger personal tax reductions.

Overall, I am proposing personal tax reductions of \$24 billion, offset by \$7 billion in tax reforms. These tax cuts, which will take effect next October 1, will significantly improve the progressivity of the tax system. The typical four-person family with \$15,000 in income will receive a tax cut of \$258---or more than 19 percent. As a result of the changes I am recommending, filling out tax returns will be simpler for many people.

Individuals also will benefit from reductions I have proposed in the Federal excise tax on telephone bills, and in the Federal payroll tax for unemployment insurance. These two proposals will add about \$2 billion to consumers' purchasing power that will be realized principally through lower prices. Business taxes will be reduced by more than \$8 billion in 1979 under my tax program, offset partially by more than \$2 billion in business tax reforms for a net tax reduction of nearly \$6 billion. I have recommended that the overall corporate tax rate be reduced on October 1 from the current 48 percent to 45 percent, and be cut further to 44 percent in 1980. I also recommend that the existing 10-percent investment tax credit be made permanent, and that the benefits of this credit be extended to investments in industrial and utility structures. My proposal will enable businesses to use the investment tax credit to offset up to 90 percent of their Federal tax liability, compared with the 50-percent limit now imposed.

Important new tax reforms also will affect businesses. I am, for example, proposing to reduce the deductibility of a large class of business entertainment expenses. I have also proposed changes in the tax status of international business transactions that are of significant cost to taxpayers but that benefit the public insufficiently.

Because tax reform measures will raise \$9 billion in revenue, it has been possible for me to recommend \$34 billion in overall tax reductions while keeping the net loss in revenues to \$25 billion, the level I believe is appropriate given the state of our economy and the size of the budget deficit.

These proposals do not include any adjustment to take account of congressional action on my energy proposals. I proposed last April that the Congress pass a wellhead tax and rebate the proceeds of that tax directly to the American people. This is the best course to follow because it protects the real incomes of consumers and avoids a new source of fiscal drag. If the final energy bill includes a full rebate of the net proceeds of the wellhead tax, no further action on my part will be necessary. However, if the final bill allows for a rebate only for 1978—as provided in the House version—I will send a supplemental message to the Congress recommending that the individual tax reduction I am now proposing be increased by the amount of the net proceeds of the wellhead tax.

These tax reductions are essential to healthy economic recovery during 1978 and 1979. Prospects for continuation of that recovery in the near term are favorable. Consumers have been spending freely, and many other economic indicators recently have been moving up strongly. Without the tax reductions I have proposed, however, the longer-term prospects for economic growth would become increasingly poor. Because of the fiscal drag imposed by rising payroll taxes and inflation, economic growth would slow substantially in late 1978, and fall to about $3\frac{1}{2}$ percent in 1979. The unemployment rate would stop declining and might

begin to rise again, and the growth of investment outlays for new plant and equipment would slow significantly.

With the reductions in taxes I have proposed, on the other hand, the economy should grow by $4\frac{1}{2}$ to 5 percent in both 1978 and 1979. Nearly one million new jobs would be created. Unemployment would therefore continue to fall and by late 1979 should be down to around $5\frac{1}{2}$ to 6 percent. Capacity utilization and after-tax business profits would both improve, and thus the rate of investment in new plants and equipment should increase significantly.

Success in keeping a firm rein on spending will permit further tax reductions in years to come. Our ability to foresee the future course of the economy is not good enough, however, to enable us to know when additional reductions will be needed or how large they should be. It would therefore be imprudent to plan specific policy measures now for more than the current and the next fiscal year. But I will make recommendations for budget and tax policies for 1980 and beyond that are in keeping with our objectives of steady growth in the economy, more stable prices, and principal reliance on the private sector to achieve economic expansion.

Working to Reduce the Federal Deficit and Balance the Budget as Soon as the Strength of the Economy Allows

Federal budgetary policy can play a constructive role in maintaining the health of the economy. There are times when large deficits in the Federal budget must be tolerated because they are needed to bolster the purchasing power of consumers and businesses. A budget deficit that persisted during a period of high employment and strong further growth of private demand, however, would put upward pressures on prices and would aggravate our inflationary problem. Under those circumstances, a budget deficit would also absorb savings that would be better used by the private sector to build new factories and offices and to purchase new machines. In order to assure that our economic progress remains on a solid footing and is not undermined by inflation, we must reduce the Federal budget deficit and achieve a balanced budget as soon as the developing strength in the economy allows.

The first requisite is careful management and control of Federal spending. The second is a prudent weighing of the need for tax reductions against the goal of budget balance.

This year I have proposed budgets that call for a deficit of \$62 billion in 1978, and one only slightly smaller in 1979. Had I decided not to recommend a tax cut to put additional purchasing power in the hands of consumers and businesses, the deficit in 1979 could have been \$15 to \$20 billion smaller. But I believe that tax reduction is essential to continued progress in an economy still characterized by substantial unemployment and idle plant capacity.

How rapidly we can restore budget balance depends on the strength of the private economy. Over the next few years, two factors will be of particular importance.

The first is the financial condition of State and local governments. In the past, the aggregate budget of these governments tended to be approximately in balance. Today the State and local sector as a whole is in surplus. In 1977, for example, aggregate State and local receipts from all sources exceeded expenditures by nearly \$30 billion. This overall surplus does not mean that every State and local government is in good financial condition. Many are hard pressed. Moreover, a large part of the aggregate surplus represents accumulations of pension funds for the 13 million employees of State and local governments.

Substantial surpluses in the State and local sector are likely to continue in the future. They absorb the incomes of consumers and business, and so act as a drag on the economy.

The second factor affecting the pace at which we can expect to move toward budget balance is the large deficit in America's foreign trade in goods and services. Imports into the United States have been swollen by the enormous quantity of oil we buy abroad to drive our cars, heat our homes, and fuel our industry. Our exports have grown only slowly, in large measure because economic growth abroad has been much slower than in the United States. As a result, the United States last year recorded a deficit of close to \$18 billion in our current international accounts. This deficit has the same general effect on economic activity as a multibillion dollar increase in taxes.

Enactment of an effective energy program ultimately will reverse our growing dependence on oil imports. Moreover, economic growth in other countries should be improving over the next few years. But we may expect a current account deficit of some size to continue in the near future.

If strong economic expansion is to be maintained in the face of these major drains on the economy, additional tax reductions may be necessary beyond those I have proposed for 1979. But we will be better able to judge this question in a year or two, and we should not prejudge it now.

In formulating my budgetary decisions thus far, I have been careful to avoid commitments that would make it impossible for us to balance the budget by 1981. With unusually strong growth in the private economy, we would need a balanced Federal budget. In an economy growing less strongly, however, balancing the budget by 1981 would be possible only by forgoing tax reductions needed to reach our goal of high employment. In those circumstances, the date for reaching the goal of budget balance would have to be deferred.

What is important is that the planning and execution of Federal fiscal policies proceed in a prudent manner. Every decision on spending and taxes during my Administration has been, and will continue to be, made in the context of long-run budgetary planning that avoids the creation of excess demand during periods of high employment. That is an essential ingredient of responsible budgetary policy.

Programs to Attack the Problem of Structural Unemployment

Meaningful job opportunities ought to be available for all Americans who wish to work. But overall fiscal and monetary policy alone will not provide employment to many in our Nation. If we are to reduce unemployment satisfactorily, we must do more.

Eleven percent of adult American workers from minority groups are now jobless—close to the rate a year ago, and over twice as high as the unemployment rate for white adults. About 17 percent of our teenagers are unemployed today; among black teenagers the unemployment rate is nearly 40 percent. These intolerably high rates of unemployment must be brought down. This is an important goal, but achieving it will be a difficult task.

A generally healthy and growing economy is a prerequisite for dealing effectively with structural unemployment, but it is not enough. Even in good times some groups suffer from very high unemployment, which adds to the difficulty of achieving low unemployment and low inflation simultaneously. As the economy moves toward high employment, employers try to fill job vacancies from those groups of workers with substantial training and experience. Wage rates are bid up and prices follow, while large numbers from other groups are still looking unsuccessfully for work. Efforts to reduce unemployment among the unskilled and otherwise disadvantaged can be frustrated by inflationary pressures set off in those sectors of the labor market already fully employed.

To reach high levels of employment while maintaining reasonable price stability, we must take effective and adequate measures now to increase the employment opportunities of the disadvantaged. This principle is a key element of the Humphrey-Hawkins Bill—The Full Employment and Balanced Growth Act. I support this legislation and hope the Congress will enact it.

We have already taken several significant steps in this direction. Last year I proposed and the Congress appropriated \$8.4 billion to expand the Public Service Employment Program to 725,000 jobs. These jobs are more sharply targeted on the long-term unemployed and the poor than previous programs under the Comprehensive Employment and Training Act. Direct opportunities for youth also have been expanded. The Youth Employment and Demonstration Projects Act of 1977, which is providing job experience and training in skills to unemployed youths, also was proposed by my Administration and enacted in 1977, providing 166,000 work and training positions for unemployed youths.

Several further measures are proposed in my 1979 budget. I have recommended that Public Service Employment be continued at the 725,000 job level throughout 1979, and that the number of jobs be phased down gradually in subsequent years as progress is made in reducing the overall level of unemployment. I have also recommended an expansion to \$1.2 billion of the Youth Employment and Demonstration Projects Act to provide work opportunities and skill training for the unemployed youth who most need help. The Better Jobs and Income Program that I sent to the Congress in mid-1977 will create up to 1.4 million jobs, supplemented by cash allowances, for poor people who are able to work. An initial demonstration project for this program that will create 50,000 jobs is proposed in my 1979 budget, and more jobs will be phased in gradually once the welfare reform program is enacted.

Government programs can provide valuable assistance to the unemployed. In the end, however, we must turn to the private sector for the bulk of permanent job opportunities for the disadvantaged. It is in private industry that most productive jobs with opportunity for advancement are found. For this reason, I am requesting \$400 million in my 1979 budget to begin a major new initiative for private sector hiring of the disadvantaged. Details of this proposal will be submitted to the Congress shortly. I am requesting the fullest cooperation of the business community in this initiative and have been assured by business leaders that it will be forthcoming.

Greater Emphasis on Promoting Business Capital Formation

Over a broad expanse of years, improvement of the standard of living in this Nation depends primarily on growth in the productivity of the American work force. During the first two decades of the postwar period, the productivity of American labor increased at an average annual rate of about 3 percent. Over the past ten years, however, productivity growth has slowed markedly—to about 2 percent or less a year.

The reasons for this break with past trends are complex, but one factor that clearly stands out is the relatively slow growth in the stock of business plant and equipment. Historically, improvements in productivity have been linked closely to investment in plant and equipment. Investment in new facilities has embodied new and more productive technology and has provided our work force with more and better tools.

Business investment has lagged during the recovery for several reasons. Some of the fears engendered by the steep recession and severe inflation of 1973–75 have remained and have reduced the incentive for businesses to invest. Uncertainties about energy supplies and energy prices have also been a deterrent to investment, and so have concerns about governmental regulations in a variety of areas. Finally, high costs of capital goods and a depressed stock market have diminished the incentives and raised the costs to businesses of investment in new plant and equipment.

Industrial capacity is ample now. But without a substantial increase in investment over the next few years, problems would build for the future. Rapid growth of capacity is needed to assure that shortages of particular products do not emerge before we regain high employment. If capacity is not sufficient, bottlenecks may develop in some sectors, forcing up prices of industrial commodities. Inadequate rates of capital formation will also hold back the gains in productivity needed to improve standards of living and to avoid further aggravation of our inflation problem.

My tax and other economic proposals will encourage a greater rate of business investment in several ways. By promoting a sustainable rate of economic recovery, they will assure businesses of an expanding market for the output from new factories and equipment. The specific tax reductions for business I have proposed will increase after-tax profits and so directly provide additional incentives for investment.

We must also have conditions in financial markets that permit businesses to raise the funds they need for investment. Prudent Federal budgetary policies will contribute significantly to that end, as will policies that deal effectively with inflation. Both will ease the Federal Reserve's task of pursuing monetary policies that support full recovery.

More Effective Programs to Reduce the Rate of Inflation

We cannot achieve full prosperity unless we deal effectively with inflation. We must take steps to reduce the high rate of inflation inherited from the past and to guard against a renewed outbreak of inflation as we regain a high-employment economy.

Our economy is not suffering at present from excess demand. Monetary growth in recent years has not been excessive, and Federal budget deficits have occurred in an economy with high unemployment and excess capacity. Yet prices continue to rise as a result of an inflationary process that has been under way for a decade. Our present inflation began back in the late 1960s and accelerated sharply in the early years of the 1970s. Since 1974 the rate of consumer price inflation has declined substantially—from 12 percent to between 6 and $6\frac{1}{2}$ percent at present. But that improvement is due largely to the termination of special influences affecting prices during 1974—the sharp rise of food and fuel prices, and the bulge in prices following the removal of wage and price controls.

Recent experience has demonstrated that the inflation we have inherited from the past cannot be cured by policies that slow growth and keep unemployment high. Since 1975, inflation has persisted stubbornly at a 6 to $6\frac{1}{2}$ percent rate—even though unemployment went as high as 9 percent and still stands above 6 percent, and even though a substantial proportion of our industrial capacity has been idle. The human tragedy and waste of resources associated with policies of slow growth are intolerable, and the impact of such policies on the current inflation is very small. Moreover, by discouraging investment in new capacity, slow growth sows the seeds of future inflationary problems when the economy does return to high employment. Economic stagnation is not the answer to inflation.

Our first task in combating inflation is to guard against a renewed outbreak of higher price increases in the future. Firm discipline over the Federal budget and a prudent monetary policy are the most important steps that can be taken. Programs to attack structural pockets of unemployment among our people will make it possible to achieve higher levels of employment without exerting pressures on prices. Greater investment also will make a major contribution toward assuring that the capacity of our industry will be adequate to meet the needs of a highemployment economy.

Enactment of an energy program will eventually reduce the demand for oil imports—contributing to market conditions that discourage substantial oil price increases, and combating the inflation that results from a decline in the exchange value of the dollar. The programs I have inaugurated to build a 30- to 35-million metric ton grain reserve will provide a buffer against sudden upward movements in food prices in the event of bad weather.

Our second task—reducing the current rate of inflation—will be harder. Yet we must tackle the problem. Unless the inflation rate is brought down, the rate of price increase may well rise as unemployment falls to lower levels in later years, with consequences that would thwart our efforts to bring about full recovery.

The government has an obligation to set an example for the private sector, and we can play an important role in moderating inflation by reducing the effects of our own actions on prices. By adopting tax incentives and other policies to improve the growth of investment and productivity, we will help reduce the rise in costs and hence in prices.

The excise tax reductions I have proposed in my 1979 budget also will contribute moderately to lower costs and prices.

Government regulations also add to costs and raise prices. To some extent, this is the inevitable cost of much needed improvements in the environment and in the health and safety of workers and consumers. But there is no question that the scope of regulation has become excessive and that too little attention is given to its economic costs. We should not, and will not, give up our efforts to achieve cleaner air and water and a safer workplace. But, wherever possible, the extent of regulation should be reduced. We have eliminated hundreds of unneeded regulations already and will continue to pare down the remainder.

I also intend to put a high priority on minimizing the adverse effects of governmental regulations on the economy. To this end, I have established a high-level interagency committee that—together with the relevant regulatory agency—will review the economic effects of major regulations. This committee will seek to assure that the costs of each regulation have been fully considered, and that all alternatives have been explored, so that we may find and apply the least costly means of achieving our regulatory objectives. I have also directed my advisers to explore ways in which we can undertake an assessment of the impact of regulation on the economy as a whole and within each major sector. We need to find a way to set priorities among regulatory objectives and understand more fully the combined effects of our regulatory actions on the private economy.

Where regulation of economic activity has become outmoded and substantial overhaul is called for, I will pursue effective legislation. For example, I have supported actively congressional efforts to reform regulation of the airline industry, and I am considering proposals to reform the regulation of other industries.

I have given special attention to reducing the runaway cost of health care. The cost of a day in the hospital has more than doubled since 1970. Continuing escalation in the charges for hospital care can no longer be tolerated. I have submitted legislation, the Hospital Cost Containment Act of 1977, that would limit sharply the rate of growth in hospital spending, and I urge the Congress to enact this legislation in 1978.

The States can also play a role in moderating the current inflation. In 1976, State governments collected \$50 billion in sales taxes. For the most part, these taxes enter directly into the cost of goods we buy and thus increase the price level. Today, State governments with significant surpluses are considering tax reductions. I urge those in a position to do so to consider the advantages to the national economy of reducing sales taxes, thereby helping to slow inflation.

Government alone cannot unwind the current inflation, however. Today's inflationary process is largely the consequence of self-fulfilling expectations. Businessmen, expecting inflation to continue, are less resistant to cost increases than they might be, since they have come to believe that, with all prices rising, their own increased costs can be passed on to consumers through higher prices. Wage increases are based on the expectation that prices will continue to rise. Wage gains in one sector spur similar demands in others.

There are gainers and losers in this process, since some groups in the economy are more successful than others at defending themselves against inflation. On the whole, however, the main result is continued inflation. No one group—neither business, nor labor, nor government—can stop this spiral on its own. What is needed is a joint effort.

Since the current inflation has developed strong momentum, it cannot be brought to a sudden halt. But we can achieve a gradual but sustained deceleration—having each succeeding year's inflation lower than the previous one. The benefits of slower growth of prices and wages would be broadly shared. Everyone would be better off. A conscious effort should be made by those who make wage and price decisions to take the individual actions necessary to bring about an economy-wide deceleration of inflation.

I am therefore asking the business community and American workers to participate in a voluntary program to decelerate the rate of price and wage increase. This program is based on the initial presumption that prices and wages in each industry should rise significantly less in 1978 than they did on average during the past two years.

I recognize that not all wages and prices can be expected to decelerate at the same pace. For example, where profit margins have been particularly squeezed, or where wages are lagging seriously, deceleration in 1978 would be less than for other firms or groups of workers. In exceptional cases deceleration may not be possible at all. Conversely, firms or groups that have done exceptionally well in the recent past may be expected to do more.

To enhance the prospects for success of this deceleration program, I have asked that major firms and unions respond to requests from members of my Administration to discuss with them on an informal basis steps that can be taken during the coming year to achieve deceleration in their industries. In reviewing the economic situation prior to making my recommendations to the Congress on the size of the pay raise for Federal workers, due to take effect next October, I will keep this objective of deceleration in mind.

This program does not establish a uniform set of numerical standards against which each price or wage action is to be measured. The past inflation has introduced too many distortions into the economy to make that possible or desirable. But it does establish a standard of behavior for each industry for the coming year: every effort should be made to reduce the rate of wage and price increase in 1978 to below the average rate of the past two years.

I have chosen this approach after reviewing extensively all of the available options. There is no guarantee that establishing a voluntary deceleration standard will unwind the current inflation. I believe, however, that with the cooperation of business and labor, this proposal will work. Deceleration is a feasible standard of behavior, for it seeks restraint in wage and price actions in exchange for a general reduction in inflation. It is also a fair standard. Industries and workers with far different histories and current situations will not be asked to fit within the constraint of a single numerical guideline.

The inflation problem will not be easy to overcome. It will take time and patience. But the importance of these efforts cannot be overestimated. Unless we gain better control over the inflation rate, the prospects for regaining a fully employed economy will be seriously reduced. My Administration cannot and will not pursue policies in the future that threaten to trigger a new and more virulent round of inflation in this country. To do so would be the surest way of destroying the hopes of our citizens for a long-lasting prosperity.

International Economic Policies that Promote Economic Recovery Throughout the World

Outside the United States, the world economy has seen a hesitant recovery from the deep recession of 1974–75. The rapid pace of economic growth that was widespread over most of the postwar years has all but disappeared. Unemployment is high, and in most industrial countries except the United States it is rising. Inflation is at high levels and declining only very slowly.

The imbalances in the international economic system continue to strain the world economy. Because of the surpluses of oil-exporting countries, many countries have sizable deficits, including the United States. Some industrial nations are also running large and persistent surpluses thus increasing the pressures on countries in deficit. These imbalances have been a major factor contributing to disorder in exchange markets in recent months. The condition of the world economy requires above all that nations work together to develop mutually beneficial solutions to global problems. If we fail to work together, we will lose the gains in living standards arising from the expansion of world commerce over the past three decades. If the world economy becomes a collection of isolated and weak nations, we will all lose.

The first priority in our international economic policy is continued economic recovery throughout the industrial world. Growth of the U.S. economy—the largest and strongest in the world—is of vital importance. The economic program that I have proposed will ensure that America remains a leader and a source of strength in the world economy. It is important that other strong nations join with us to take direct actions to spur demand within their own economies. World recovery cannot proceed if nations rely upon exports as the principal source of economic expansion.

At the same time all countries must continue the battle against inflation. This will require prudent fiscal and monetary policies. Such policies must be supplemented by steps to reduce structural unemployment, measures to avoid bottlenecks by encouraging investment, and cooperation in the accumulation of commodity reserves to insulate the world from unforeseen shocks.

Reducing the widespread imbalances in international payments will require several parallel steps. To begin with, each individual country must ensure that its own policies help relieve the strains. The United States will do its part. In 1977 we had a current account deficit of about \$18 billion. While not a cause for alarm, this is a matter of concern. We can take a most constructive step toward correcting this deficit by moving quickly to enact the National Energy Plan.

Countries in surplus should also do their part. Balance of payments surpluses in some countries have contributed to the economic stagnation among their trading partners. Where their own economies have slack, it is appropriate for nations in surplus to stimulate the growth of domestic demand—thereby increasing their imports and improving the prospects for growth in deficit countries. In some countries, lifting restraints on imports from abroad and reducing excessive government efforts to promote exports would be useful. After consultations with the United States, the Japanese have indicated they will take a series of steps toward reducing their large surplus.

The system of flexible exchange rates for currencies also can be helpful in correcting unsustainable imbalances in payments among countries. Since its inception in 1973, this system has operated well under unprecedented strains. During 1977 the U.S. dollar has fallen in value against several key currencies. The decline in the dollar's value has occurred primarily against the currencies of those nations that have large trade and payments surpluses, and was not surprising in view of our large payments deficit and their surpluses. Late in 1977, however, movements in our exchange rate became both disorderly and excessively rapid. The United States reaffirmed its intention to step in when conditions in exchange markets become disorderly and to work in close cooperation with our friends abroad in this effort.

Under the flexible exchange rate system basic economic forces must continue to be the fundamental determinant of the value of currencies. However, we will not permit speculative activities in currency markets to disrupt our economy or those of our trading partners. We recognize fully our obligation in this regard, and we have taken steps to fulfill it.

Although substantial progress can be made toward a balanced world economy, some imbalances will persist for a substantial period of time. Financing requirements will remain large while adustments occur. The private markets can and will continue to channel the bulk of the financing from surplus to deficit countries. But it is essential that adequate official financing also be available, in case of need, to encourage countries with severe payments problems to adopt orderly and responsible corrective measures. To meet this critical need the United States has strongly supported a proposal to strengthen the International Monetary Fund by the establishment of a new Supplementary Financing Facility.

The United States also will continue to contribute resources to promote growth in the economies of the developing nations. International assistance efforts—through bilateral aid and multilateral institutions—must continue to expand. We must also keep our doors open to imports from developing countries, so that their economies can grow and prosper through expanded trade.

A keystone of our international economic policy is to work with our trading partners to protect a free and open trading system. The American economy benefits by exporting those products that we make efficiently, and by importing those that we produce least efficiently. An open trading system increases our real incomes, strengthens competition in our markets, and contributes to combating inflation.

The United States will firmly resist the demands for protection that inevitably develop when the world economy suffers from high unemployment. The ensuing decline in world trade would worsen our problem of inflation, create inefficiencies in American enterprise, and lead to fewer jobs for American workers. But international competition must be fair. We have already taken and we will, when necessary, continue to take steps to ensure that our businesses and workers do not suffer from unfair trade practices.

I place great importance on the Multilateral Trade Negotiations now under way in Geneva. I believe our negotiators will bring home agreements that are fair and balanced and that will benefit our economy immensely over the years to come. The importance of these discussions can hardly be overemphasized. The trading system that emerges from the negotiations will set the tone for international commerce well into the 1980s. Our commitment to a successful conclusion to these talks underscores our long-term emphasis on the retention and expansion of open and fair trade among nations.

The Challenge Before Us

In this message I have outlined my fundamental economic goals and the strategy for attaining them. It is an ambitious, but I believe a realistic, agenda for the future. It calls for a broad range of actions to improve the health and fairness of the American economy. And it calls upon the American people to participate actively in many of these efforts.

I ask the Congress and the American people to join with me in a sustained effort to achieve a lasting prosperity. We all share the same fundamental goals. We can work together to reach them.

Timmy Carter

January 20, 1978.

THE ANNUAL REPORT

OF THE

COUNCIL OF ECONOMIC ADVISERS

LETTER OF TRANSMITTAL

COUNCIL OF ECONOMIC ADVISERS, Washington, D.C., January 27, 1978.

MR. PRESIDENT:

The Council of Economic Advisers herewith submits its 1978 Annual Report in accordance with the provisions of the Employment Act of 1946. Cordially,

Charles L. Schult

CHARLES L. SCHULTZE Chairman.

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Lyle E. GRAMLEY Innan hordhan

WILLIAM NORDHAUS

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CHAPTER 1

Progress During 1977—The Third Year of Recovery

A^S THE NEW ADMINISTRATION took office at the beginning of 1977, the economy was turning up strongly from a period of very slow real growth during the latter part of 1976. With the unemployment rate hovering near 8 percent and with inflation still a serious problem, however, the Nation was far from the goals of "maximum employment, production, and purchasing power" established in the Employment Act of 1946. Progress toward these goals was essential to the achievement of rising living standards and greater equality of income and of opportunity. Strong and steady growth in the U.S. economy was also needed to help sustain the pace of economic expansion among the nations of the Western world. An economic stimulus program was therefore designed by the new Administration to keep the economy on a path of recovery at a pace sufficient to reduce the unemployment of labor and capital resources significantly.

In the course of the year, continuing progress was made in closing the substantial gap between actual and potential real output that existed at the beginning of 1977. Real gross national product (GNP) expanded in each quarter at a pace above its long-term potential growth, and the gain in 1977 as a whole amounted to 4.9 percent. By the fourth quarter, real GNP was 5.7 percent higher than it had been a year earlier.

This increase in real output made possible a 4.1-million increase in employment between the end of 1976 and the end of 1977. A temporary slackening in the rate of expansion around midyear limited the midyear reduction in unemployment, but unemployment fell significantly early in the year and again in the later months. The unemployment rate fell to 7.0 percent for 1977 as a whole and reached 6.4 percent at year-end.

The expansion in total output was large enough to permit a substantial improvement in living standards. Real per capita disposable income rose by 4.9 percent during the year. At the same time, the increase in industrial production of 5.6 percent lifted capacity utilization in manufacturing from 81 percent at the end of 1976 to 83 percent at the end of 1977. This increase played an important role in the 9.5-percent advance of corporate profits for the year as a whole.

DEVELOPMENTS DURING THE YEAR

The pace of economic expansion was exceptionally strong during the early part of 1977. As the year opened, businesses were increasing their production schedules in an effort to rebuild stocks depleted by the unexpectedly sharp rise of consumer spending in the latter months of 1976. The rate of nonfarm inventory investment rose from near zero in the fourth quarter of 1976 to 1 percent of real GNP by the second quarter of 1977, accounting for almost 30 percent of the expansion in real output during the first half of the year. The rise in consumer spending that began in late 1976 continued in the opening months of 1977. With final sales and inventory accumulation both moving up briskly, real GNP in the first quarter increased at an annual rate of $7\frac{1}{2}$ percent (Table 1).

The pace of advance in economic activity early in the year was so rapid that an abnormally cold winter had only a mild transitory effect on overall economic performance. January temperatures were as much as 20 percent below normal in some parts of the country, causing shortages of natural gas and numerous plant shutdowns. Plant closings typically lasted only one to a few days, however, and most of the loss in output was made up before the end of the first quarter.

Construction activity was significantly depressed by the winter weather but rebounded in the second quarter. Government spending also rose sharply. The strength of these two sectors offset a developing weakness in consumer spending, and growth of real GNP in the second quarter remained at a relatively rapid 6-percent annual rate.

During these 2 quarters of large gains in real output substantial progress was made in reducing unemployment. From December to April total civilian employment rose by almost $1\frac{1}{2}$ million, and the unemployment rate fell by 0.7 percentage point. Job gains were widespread among manufacturing,

	1977						
Component	1	11	111	IV 1	Year 1	to 1977 IV 1	
GNP	7.5	6.2	5.1	4.2	4.9	5.7	
Final sales: Total 2 Domestic 3 Private domestic 4	3.8 4.9 6.7	5. 1 5. 5 4. 2	4.4 3.6 2.9	6.8 7.3 8.2	4.7 5.2 5.9	5.0 5.3 5.5	
Change in inventory accumulation (billions of 1972 dollars)	11.5	3.5	2.5	-8.0	3.1	9, 5	

TABLE 1.—Growth of real GNP and final sales in 1977

[Percent change, seasonally adjusted annual rate]

¹ Preliminary.

2 GNP other than inventory accumulation.
 3 GNP other than inventory accumulation and net exports.
 4 Personal consumption expenditures, business fixed investment, and residential construction.

Note .- Percent changes based on data in 1972 dollars.

Source: Department of Commerce, Bureau of Economic Analysis.

construction, retail trade, services, and other industries. The length of the workweek in manufacturing also increased.

The rapid pace of expansion in the first half could not have been expected to continue since it was based, in part, on a rebuilding of stocks and a restoration of inventory investment to a more normal relationship with GNP. The slowdown in the rate of expansion during the middle of the year was more widespread and prolonged, however, than could be accounted for solely by patterns of inventory accumulation.

The rise of consumer spending slowed abruptly in the second quarter when the personal saving rate rose substantially. During the first 2 years of the recovery, consumers' purchases of goods and services had risen much faster than their after-tax incomes, so that by early 1977 the fraction of disposable income devoted to saving had fallen to the lowest level in 25 years. Restoration of a more normal allocation of consumer incomes between consumption and saving was inevitable, and the major part of the adjustment took place in the second quarter.

As retail sales faltered, manufacturers adjusted their production schedules promptly to avoid an undesired buildup of inventories—as they had in 1976, when consumer spending also slowed temporarily. As a consequence, demands for labor moderated, and the unemployment rate stopped declining. Total hours worked in nonfarm establishments, which had been rising strongly in the first 4 months of the year, topped out and remained essentially unchanged from May through September; the rise of industrial output during this period slowed to about half the pace recorded in the first 5 months of the year.

The caution exhibited by businesses in their inventory policies was even more evident in their willingness to make longer-term investment commitments. Plans for business capital outlays normally gain increasing strength as rates of capacity utilization and profits rise during the course of an economic recovery. For a time in late 1976 and early 1977 it appeared that the usual cyclical processes were occurring: the real value of contracts and orders for plant and equipment was improving vigorously. Around the middle of the year, however, the rise of this indicator of business fixed investment slowed, and production of business equipment, though continuing to advance, increased at a more moderate pace than earlier in the year.

The hesitancy of business capital spending (which is examined later in this chapter) was singularly disappointing. These outlays, in real terms, have yet to recover their peak levels reached in late 1973 and early 1974. Industrial capacity has therefore been expanding at a very sluggish pace—and at a time when the labor force is increasing rapidly. Over the long run, continuing growth of real output and a stronger rise of productivity will depend heavily on restoring a more vigorous rate of expansion in business outlays for new plant and equipment. Developments in the foreign sector also restrained the rate of economic expansion. Imports of oil rose substantially early in the year, partly as a consequence of the effects of the cold winter on fuel consumption; and other imports increased more than would have been anticipated on the basis of historical relationships between growth of real output and these imports. U.S. exports meanwhile increased scarcely at all in real terms because of the very slow rate of economic expansion among most of our major trading partners.

The midyear slowdown of economic expansion would have been more serious had it not been for the effects of the Administration's stimulus programs. These programs began to increase government spending and disposable personal incomes by midyear, and their stimulative effects continued to build over the remainder of 1977. Fiscal policy was thus instrumental in the quickening tempo of activity late in 1977.

Signs of an emergence from the pause of 1977 first became evident late in the fall, when new retail sales figures indicated that consumers had begun to increase their purchases of goods in the third quarter. A combination of factors led to a further strengthening of consumer spending during the fourth quarter. Growth in personal income was sustained by rising output and employment in other sectors and was further bolstered by the Federal pay raise in October and by the growing effects of the stimulus programs. With consumer prices increasing at a relatively moderate rate during this period, gains in nominal income were translated into greater purchasing power and rising consumer spending. In the fourth quarter, consumer outlays for durable and nondurable goods, adjusted for inflation, rose at an annual rate of over 10 percent.

This surge of consumer buying—coupled as it was with some improvement in the pace of fixed investment—was not fully anticipated by businesses, whose production schedules were still geared to the slower pace of retail sales that had prevailed earlier. The rate of inventory accumulation therefore declined steeply in the fourth quarter, holding down overall GNP growth to an annual rate of 4.2 percent. It is clear, however, that activity was strengthening as the year came to a close. Employment in the final 2 months rose rapidly, and the unemployment rate fell to 6.4 percent in December.

Failure to make any significant progress on the inflation front in 1977 was a disappointment. (A more detailed analysis of this difficult problem is presented in Chapter 4.) Consumer prices of goods and services other than food and energy, a measure of the underlying rate of inflation, increased by 6.4 percent in the 12 months ending in December 1977, about the same rate as in 1976.

An underlying inflation rate of 6 to $6\frac{1}{2}$ percent has persisted since mid-1975 and is deeply embedded in the wage-cost-price structure. In the nonfarm business sector, compensation per hour—which includes both wages and fringes—in the fourth quarter of 1977 was about $8\frac{1}{2}$ percent more than a year earlier. This increase in labor cost exceeded productivity gains by about 6 percent and therefore put strong upward pressures on prices. These price increases, in turn, wiped out most of the rise in workers' nominal earnings.

Changes in food and fuel prices during 1977 caused substantial variation in the overall rate of price change from the underlying rate of inflation. In the first half, both food and energy prices were rising rapidly, reflecting the cold winter and the increasing prices of imported foods (particularly coffee, tea, and cocca). Overall consumer prices increased during this period at an annual rate of 9 percent. As food supplies improved, the rise of consumer prices slowed materially to an annual rate of around $4\frac{1}{2}$ percent in the second half of 1977.

THE ROLES OF THE MAJOR SECTORS OF DEMAND

The sources of economic expansion shifted somewhat during 1977. During the first 2 years of the current economic recovery, household spending for personal consumption and new housing were the principal dynamic elements. In turn, the increase in final demand stemming from these sources prompted a pronounced swing from decumulation to rebuilding of inventories during the first year of the upturn. As the rise of consumer spending moderated last year, growth in business fixed investment and particularly accelerated government spending assumed more important roles in determining the pace of expansion.

PERSONAL CONSUMPTION

The saving rate during 1977 rose considerably, marking a reversal of the pattern of the preceding 3 years. This reversal and the pronounced midyear weakness of consumer spending were due to a number of causes. Some of them have their roots in the forces that had disturbed the economy generally, and the household sector in particular, earlier in the 1970s. High inflation rates eroded the real value of household wealth held in savings at depository institutions and in other nominally denominated forms. Employment growth in the early 1970s was also less steady than during most of the 1960s. These two developments may well have prompted somewhat more cautious consumer behavior and caused higher saving rates. The saving rate reached an exceptionally high level in 1973-the cyclical peak year, which was marked by accelerating inflation and a sharp and largely unanticipated rise in farm income. In the following year of recession, households held the real value of consumption of nondurables and services level while the real value of both durable purchases and saving declined in the face of falling real incomes.

By late 1975 the economy was moving up again, the pace of inflation had abated somewhat from double-digit rates, and household income had been bolstered by tax cuts. As confidence was renewed, consumers were apparently attempting to regain previously planned consumption levels and to rebuild their stocks of durable goods. Although spending for durable goods rose somewhat erratically during 1976, the overall gain was strong, and the saving rate dropped sharply further from its recession level, reaching a 25-year low in the first quarter of 1977. By then, real per capita consumption was almost 8 percent higher than its cyclical peak in the third quarter of 1973. Once consumption levels had been brought more closely into balance with individuals' plans and anticipated earnings, it became natural for households to resume a historically more normal balance between current consumption and saving for future needs.

A number of nonrecurring factors contributed to the final phase of decline in the saving rate in the first quarter of last year: deferred automobile purchases because of the strike at the Ford Motor Company late in 1976, unusually large estate and gift tax payments, and exceptionally large home heating expenses. The extent of the decline during 1976 and in the first quarter of 1977 was underestimated, however, in preliminary data. More complete data becoming available later in the year made it more apparent that the slowing in consumption growth, which began in the spring, was an inevitable result of the restoration of more customary spending and saving patterns.

The saving rate rose abruptly in the second quarter and more gradually in the following quarters. Surveys of consumers' attitudes showed only a small reduction in consumer confidence in this period. The pattern of consumer expenditures last year also implies sustained confidence. Households continued to invest in durable goods and houses, committing future income to repayments of consumer and mortgage credit. Automobile sales increased to an 11.7-million unit annual rate in the second quarter, just 6 percent short of the rate at the all-time quarterly peak in 1973. New private home sales through the middle quarters of the year were virtually unchanged from the very strong 800,000 annual rate of late 1976 and early 1977, and sales of existing houses also rose substantially during the year. The strength of home purchases and increases in mortgage credit undoubtedly contributed to increased outlays for household durables.

The slower rise in the saving rate in the fourth quarter was coupled with resumption of strong growth in disposable income. These forces led to a vigorous increase in consumption.

HOUSING

The pace of single-family homebuilding was at a record level last year, although the rate of increase of aggregate residential construction expenditures slowed to 15 percent from 22 percent in 1976. Housing starts for the year came to almost 2 million units. Single-family starts totaled a record 1½ million—150,000 more than in any previous year—and the rate was higher at year-end. The demographic determinants of housing demand are increasingly favoring a high rate of single-family home construction as the post-World War II baby boom population is reaching the childbearing age. Furthermore the demand for single-family homes, which are predominantly owner-occupied, appears to reflect the belief that homeownership is valuable as an investment. The rate of increase of new home prices, exclusive of changes due to quality or size differences, is currently about 11 percent annually, or about 5 percentage points greater than the average increase of other prices. Although part of this price pattern is a temporary response of the prices of new construction materials to strong demand, land prices have also been rising substantially.

In California particularly, and to a lesser extent elsewhere in the country, there was an element of speculation in the housing markets in the early part of the year. An increasing number of homes were being bought by individuals who could not indefinitely carry the mortgages, but who anticipated a speculative profit from a near-term resale. In some areas of Southern California the inflation in new home prices reached a 25-percent annual rate. At first, lenders' willingness to grant mortgages in such cases fueled the speculative surge of construction that was evident early in 1977. The Federal Home Loan Bank of San Francisco, however, took effective steps to dampen the expansion of mortgage credit, and lenders were encouraged to require a commitment from home purchasers to occupy the homes they bought. By midyear both price increases for new homes and new housing starts had slowed in the West.

New starts of multifamily units last year came to 535,000, up 43 percent from 1976 but still well below the 1972 peak of 1 million units. The lower level of unsubsidized multiunit building in recent years results, in part, from the overbuilding that occurred in some regions of the country from 1971 to 1973. Since 1976, multifamily construction has turned up in most of the country as vacancy rates have declined. The Northeast was an exception as outmigration and the prevalence of rent controls have curbed expansion.

INVENTORIES

Inventory accumulation contributed substantially to growth of real GNP in the first quarter of 1977. The rate of accumulation in nonfarm inventories, in 1972 dollars, rose from near zero in the last quarter of 1976 to about \$10 billion. Thereafter the rate of nonfarm inventory accumulation rose only moderately further in the second and third quarters and then declined sharply at year-end.

Businesses continued in 1977 to follow the very cautious inventory policies that have typified this expansion. Book values of inventories of nondurable goods rose slightly more rapidly than sales in the second quarter as consumption of nondurable goods slackened. In the summer months, new orders and the growth of production slowed sharply, preventing substantial undesired accumulation of stocks during a period of sluggish sales. The book value of business stocks therefore rose only two-thirds as much in the third quarter as in the second. Part of this slowdown, however, was due to a reduced rate of increase in prices, particularly for farm products and foods.

NET EXPORTS

The foreign sector has acted as a drag on the speed of expansion in the U.S. economy throughout the past 2 years. In constant dollar terms, U.S. imports in the GNP accounts rose 9 percent last year while exports rose less than $2\frac{1}{2}$ percent. The rise in U.S. real income was, of course, an important factor. Automobile imports rose especially rapidly, reflecting near-record total car sales in the United States. The slow pace of recovery in other countries led foreign producers to compete more aggressively in external markets given their weak demand at home. This also contributed to the strength of U.S. imports and to the weakness of U.S. exports. Hesitant investment abroad lowered demand for capital goods, particularly affecting U.S. export volume, which is heavily dependent on sales of capital goods.

In nominal terms the deterioration of net exports last year was even more dramatic than it was in real terms because of the very high growth of imported oil, whose price has moved up more since the 1972 base date than the average price of other imports or exports. The combination of cold winter weather, petroleum inventory building during much of the year, flat domestic energy output, and rising demand generated a 20-percent increase in oil imports. The cost to the United States for imported oil rose about \$10 billion from 1976 to 1977. This increase accounted for approximately 60 percent of the deterioration in the nominal net export position, which swung \$9 billion into deficit last year. In addition, price increases in late 1976 and early 1977 raised the cost of commodity imports, particularly coffee, tea, and cocoa.

BUSINESS FIXED INVESTMENT

Business investment in plant and equipment played an important role in the 1977 pattern of expansion. It moved up strongly in the first quarter, rebounding from the effects of strikes at automotive and equipment firms in the fourth quarter of 1976. In the third quarter, the pace slackened, contributing to the midyear pause, but it quickened again in the final quarter of the year. Abstracting from erratic quarter-to-quarter movements, business fixed investment rose, in real terms, by close to 8 percent during the year as a whole—about the same as in 1976.

This component of demand did not begin to recover from the 1974 recession until the final quarter of 1975—one-half year after the upturn in total output. Although investment continued to grow more rapidly than total output during 1977, it had regained by the end of the year only about threefourths of the ground lost during the recession. This is a weaker performance than in the typical postwar cyclical upswing. The shortfall is discussed in a separate section later in this chapter.

GOVERNMENT SPENDING

Spending by both the Federal and State and local governments was a particularly important source of economic expansion in mid-1977 when the contribution of other sectors to continued growth of output was moderating. The real value of Federal Government purchases had been essentially unchanged during 1976, and in the fourth quarter of that year was only 1 percent above its level at the cyclical trough 7 quarters earlier. In contrast, the real value of Federal purchases rose by 7.2 percent in 1977; the most significant increases occurred in the second and third quarters.

Both the defense and nondefense components of Federal purchases accelerated sharply. The upswing in real defense purchases marked the end of the decline that began in 1969. While defense procurement rose strongly, however, the number of military personnel remained about constant.

The increase of nondefense Federal purchases at midyear was significantly affected by Commodity Credit Corporation (CCC) transactions. Steep declines of farm crop prices led to a large increase from a year earlier in CCC purchases for crops under loan agreements. CCC purchases added about $41/_{2}$ billion, at an annual rate, to the value of Federal purchases by the third quarter; the pace leveled off in the fourth quarter. These acquisitions represent a transfer from private inventory accumulation to government purchases and do not contribute directly to expanded output. Other Federal nondefense purchases from the private sector, however, also rose in real terms during 1977.

State and local government purchases grew at an annual rate of only 1.4 percent, in real terms, from the recession trough through the end of 1976; but these purchases increased by 3.2 percent during 1977. Earlier in the current cyclical upswing, States and localities were recovering from substantial operating account deficits that had accumulated during the previous downturn. Fiscal positions improved as the recovery proceeded, reflecting increased revenues generated by rising incomes and adjustments in both tax rates and spending patterns. These lagged adjustments moved budgets into substantial surplus by mid-1976.

Beginning in 1977, real purchases by State and local governments rose more notably as a result of their stronger fiscal positions. Their fiscal situations were further improved during the year by significant increases in Federal grants as part of the Administration's stimulus package. This package included an expansion of public service jobs from about 310,000 in the spring to 615,000 positions at the end of the year. About 80 percent of these jobs were with State and local government units. At the same time there were indications that State and local capital formation, which dropped off sharply in 1975 and 1976, was reviving. Construction of educational facilities continued to decline, as children born in the late stages of the baby boom reached adulthood and left school, but housing and redevelopment building, and sewer and water supply construction rose vigorously during the second half of last year. Many of these projects were assisted by an increase in Federal grants for local public works.

EMPLOYMENT AND UNEMPLOYMENT

Growth in economic activity over the 4 quarters of 1977 was sufficient to generate over 4 million new jobs. Employment increased rapidly in the first half of the year as a result of the strong growth in total output; but as the pace of expansion moderated in the third quarter, employment growth slackened. The midyear slowdown was also evident in total hours of work at nonagricultural establishments in the private goods-producing business sector, which declined during the third quarter when manufacturing production and employment flattened out temporarily. Strong expansion of employment resumed again late in the year.

Gains in employment in the first half of the year lowered the unemployment rate from 7.9 percent in the last quarter of 1976 to 7.1 percent in the second quarter of 1977. Only moderate further progress was made until the fourth quarter, when unemployment began declining again, reaching a 3-year low of 6.4 percent in December.

A major disappointment with respect to our economic performance in 1977 was the unemployment situation of black Americans. Total black employment increased by 4.8 percent from the fourth quarter of 1976 to the fourth quarter of 1977, exceeding the 4.4-percent increase in white employment, but the black unemployment rate remained unchanged at 13.4 percent as the labor force grew rapidly. The unemployment rate for black teenagers rose, however, from 36.6 percent to 38.3 percent. Although labor force growth explains the failure of these unemployment rates to fall, it does not dispel the problem of high unemployment among minorities. Furthermore, the problem for teenagers in particular is unlikely to be corrected merely by expansion of the total economy. Effective structural measures are needed as the recovery continues. This problem is discussed more extensively in Chapter 4.

The distribution of employment gains among sectors was in many respects typical for periods of fairly balanced cyclical recovery. During the year employment in manufacturing establishments grew 4.0 percent, an increase of 762,000 jobs. Contract construction employment grew at a rapid 10.0-percent pace, providing an increase of 359,000 jobs as expansion in that sector remained strong throughout the year. The 3.6-percent rise in employment in the private service-producing industries was slightly slower than the growth in manufacturing, but secular growth in this sector provided an increase of 2 million jobs.

Employment in the government sector grew 2.6 percent during 1977, considerably less rapidly than in the private sector. Federal employment has accounted for a dwindling share of total employment in the past decade and

was virtually unchanged during the year. State and local employment, on the other hand, has been the fastest growing major sector of the economy for the past two decades. From 1953 to 1973 the average annual rate of growth was 4.8 percent. This growth rate declined to 3.3 percent from 1973 to 1976, when the expansion of State and local expenditures was relatively slow. State and local employment grew by 3.1 percent, or 392,000 jobs, in 1977; much of the increase was in the second half of the year. Over 200,000 of the additional jobs on State and local payrolls were financed under the expansion of Comprehensive Employment and Training Act (CETA) jobs that was part of the Administration's stimulus package.

An unusual aspect of employment growth in the past year was a sudden spurt in the number of self-employed workers. After growing at a fairly steady 1.1 percent per year from 1967 to 1976, the number of self-employed workers in the nonagricultural sector increased by 5.6 percent in 1977, accounting for over 10 percent of the net employment growth for the year.

Improvement in the employment situation is also apparent in indicators other than the overall unemployment rate. As jobs became more available, the number of workers who had been unemployed for 27 weeks or more fell from 1.3 million, or 1.4 percent of the civilian labor force, in the final quarter of 1976 to 920,000, or 0.9 percent of the labor force at the end of 1977. The average duration of unemployment fell gradually from 15.5 to 13.9 weeks. Similarly, improvement in labor market conditions resulted in a decline in the fraction of the labor force that were unemployed because they lost their jobs—rather than being unemployed because they were entering or reentering the labor force or had left their jobs voluntarily. The unemployment rate attributable to job loss fell from 3.8 percent at the end of 1976 to 3.0 percent in the fourth quarter of 1977.

The labor force grew very rapidly during 1977, rising by 3.1 percent or 3 million persons between the fourth quarter of 1976 and the fourth quarter of 1977. The number of adult men in the labor force increased 1.9 percent, closely in line with the long-term trend. Unemployment for this group fell from 6.0 percent to 4.8 percent. Employment developments for adult women were sharply different. As their number in the labor force increased by 4.5 percent, the unemployment rate of adult women fell by only 0.7 percentage point to 6.8 percent in the fourth quarter. The teenage labor force grew by 4.6 percent; the unemployment rate of teenagers fell during 1977, but remained a distressingly high 16.7 percent in the fourth quarter.

The role of high labor force participation in rapid labor force growth and slower decline in aggregate unemployment is shown by the rising ratio of employment to the total civilian noninstitutional population of working ageup 1.7 percentage points during 1977 to 58 percent in December. This is a post-World War II record. At the cyclical peak in the fourth quarter of 1973, this ratio was 57.3 percent, when unemployment was 4.8 percent. In 1968, when the unemployment rate was 3.6 percent, the employment to population ratio was considerably lower than in either 1977 or 1973. Hence, given the income and career aspirations of broad segments of the population, the economy is confronted with a challenge not only to create jobs but to match workers to employment opportunities.

PRICES AND WAGES IN 1977

The pace of inflation last year was essentially unchanged from 1976, excluding the effects of a few especially volatile factors. The rise in the consumer price index accelerated to 9 percent in the first half of the year, from a 4.8-percent rate during 1976, in response to short supplies of food and strong demands for energy caused by the harsh winter weather. In the second half, however, these forces were absent. Indeed, as the new spring crops came in, wholesale prices of food and farm products declined sharply. As the benefits were passed on to consumers, the rise in consumer prices slowed to an annual rate of $4\frac{1}{2}$ percent in the second half.

Farm supplies are subject to disturbances from weather and these show up in volatile price movements because of relatively inelastic demand for food products. Other prices may also be subjected to shocks that have little to do with the overall balance of supply and demand in the economy. Energy prices are a current example of this phenomenon. For this reason, it is important to look at the movements of price indexes after these special factors have been removed—that is, to look at the "underlying rate" of inflation. This underlying rate, measured by the consumer price index exclusive of food and energy prices, has remained relatively steady in the range of 6 to $6\frac{1}{2}$ percent during almost the entire 3 years of expansion.

The stability of the underlying inflation rate reflects, on the one hand, the continued high levels of unemployment and excess capacity, which have forestalled the acceleration of inflation that has often occurred in the course of extended cyclical expansion. On the other hand, inflationary expectations and institutional characteristics of modern economies have kept the inflation rate from declining. These characteristics are discussed more extensively in Chapter 4.

WAGES, PRODUCTIVITY, AND UNIT LABOR COSTS

During the first year of the recovery, productivity rose faster than its long-run trend, as it typically does in such periods. Since businesses tend to calculate costs on the basis of secular trends in productivity and set their prices accordingly, the rise in prices exceeded that of unit labor costs, and profits per unit of output improved markedly. Since then, the growth of productivity has slowed, and the movements of prices and unit labor costs have been more nearly parallel.

On a year-over-year basis, the rate of change in hourly compensation was essentially the same last year as in 1976. Compensation per hour in the private nonfarm sector showed an 8.5 percent increase, about 0.2 percent less than in 1976. The rate of growth of private nonfarm productivity, however, slowed substantially to 2 percent. The rise in labor cost per unit of output therefore increased to about $6\frac{1}{2}$ percent.

Hourly compensation increased about 1 percentage point faster than the index of average hourly earnings during the year. The latter measure shows the change in wages exclusive of the effects of shifts of employment among industries and changes in manufacturing overtime; it is often used as a measure of the basic rate of wage increases, though it is only an approximation. About one-half of the difference in 1977 between hourly compensation and average hourly earnings was accounted for by the shift of employment toward high-wage industries. The remaining difference was primarily due to the increase of fringe benefits, included in compensation but not counted in the earnings index. Fringe benefits per hour have risen more rapidly than wages but rose at about the same rate last year as in 1976.

Data on collective bargaining agreements show about 1 percent greater effective wage-rate adjustments than the data for all nonfarm hourly earnings, but also show a rate of increase that was approximately stable between 1976 and 1977. (Effective wage-rate adjustments include wage changes resulting from current settlements, prior settlements, and cost-of-living clauses.) In the 12 months ending in September of last year, the latest span for which data are available, the average effective wage increase for workers included in major agreements covering 1,000 or more employees was 8.3 percent, compared with 8.1 percent in all of 1976.

New collective bargaining agreements concluded last year generally provided for wage increases greater than the 1977 rate of increase of average hourly earnings. Those that were concluded in the first 9 months of last year and included cost-of-living adjustment clauses provided an average annual basic wage increase of 5.0 percent, plus the augmentation from the escalators. If inflation continues at a 6-percent rate, the total annual wage sincrease would be about 8 percent. Wage increases in contracts without escalator clauses averaged 6.9 percent annually over the life of the contract. These data, however, omit increases in fringe benefits. The data on combined changes in wages and fringe benefits, which are limited to agreements covering 5,000 or more workers, suggest that total labor compensation under collective bargaining agreements probably continued to rise more rapidly than compensation for all nonfarm employees. First-year negotiated adjustments of wages and benefits averaged 9.6 percent last year.

The productivity increase of 2 percent in the private nonfarm economy in 1977, on a year-over-year basis, is approximately in line with the long-run trend. This rate is down from 4 percent in 1976 and during the first stage of recovery in 1975. The growth of productivity is typically greatest in the early quarters of expansion, when overhead labor becomes more fully utilized and the cyclically sensitive and high-productivity industries recover faster than the rest of the economy. The progressive decline in recent productivity growth was therefore consistent with the usual cyclical pattern. An analysis of long-term trends in productivity growth is presented in Chapter 4.

FOOD PRICES IN 1977

Movements of food prices exerted a major effect on the overall rate of price change during the past year. Between the fourth quarter of 1976 and the fourth quarter of 1977 the consumer price index for food increased 7.7 percent.

The severe freeze in July 1975 that reduced the 1976–77 Brazilian coffee crop by 60 percent was reflected in U.S. food prices in early 1977. Reduced supplies from Brazil, normally the world's largest coffee producer, caused world supplies to decline 17 percent and average retail coffee prices in the United States to increase 54 percent during the first 6 months of last year.

During the middle of last January temperatures in Florida were below freezing for several days, reducing the fruit crop and heavily damaging the vegetable crop. Prices of these commodities escalated rapidly until supplies became available from other areas. Fruit and vegetable prices increased at an annual rate of 24 percent in the first quarter but declined in the third quarter (Table 2).

Abundant supplies of all other food products helped to restrain price changes over the year. Food grain prices declined throughout the year as U.S. farmers harvested a third consecutive large crop. The lower food grain prices were reflected in the modest 4-percent increase from the fourth quarter of 1976 to the fourth quarter of 1977 in the cereal and bakery component of the consumer price index.

Declining feed grain prices prompted significantly increased cattle feeding in the latter months of the year. Total beef and veal production nonetheless declined 4 percent in 1977. The decline would have been larger if the drought conditions in the West and Southwest had not encouraged more rapid slaughtering. Last year marked the third consecutive year of a cyclical reduction in the U.S. cattle herd that has been the deepest in history.

		1977				1976 IV
Consumer price component	1976 IV	1	11	u	IV	1977 IV
All food. Food away from home. Food at home. Meats. Cereals and bakery products. Fruits and vegetables. Beverages (nonalcoholic) ¹	$ \begin{array}{r} 0.4 \\ 3.4 \\4 \\ -16.7 \\ -6.2 \\ 22.3 \\ 32.0 \\ \end{array} $	10. 0 9. 2 10. 4 6. 6 	13. 8 12. 1 14. 4 11. 9 6. 9 3. 8 119. 0	4. 2 7. 4 3. 2 -6. 4 8. 1 -12. 8 20. 3	2.9 3.8 2.7 6.4 3.3 19.0 -10.0	7.7 8.0 7.5 4.4 4.1 7.5 41.9

TABLE 2.—Changes in retail food prices, 1976–77

[Percent change, seasonally adjusted annual rate]

¹ Not seasonally adjusted.

Source: Department of Labor, Bureau of Labor Statistics.

Total meat production, however, was unchanged from 1976, as production of competing meat and poultry products rose to offset declines in beef output. Consumers substituted more abundant pork and poultry for beef products during 1977; as a result there were only modest increases in prices for meat products in general. From the fourth quarter of 1976 to the final quarter of 1977, beef prices rose only 4 percent, pork prices rose 6 percent, and poultry prices increased by 7 percent. Retail prices of dairy products increased 5 percent, largely reflecting the March increase in the support price of milk.

Consumer expenditures on food, exclusive of alcoholic beverages, totaled \$218 billion in 1977, of which \$180 billion was for domestically produced food products. The value at the farm of the domestically produced foods was \$56 billion, unchanged from 1976. The marketing bill—the cost of processing, transporting, wholesaling, and retailing—was \$124 billion, more than double the farm value.

The largest expense component of food marketing firms is labor; hourly compensation in this sector increased 8 percent in 1977. Total labor costs (\$58.8 billion) exceeded the farm value of domestically produced foods for the first time last year. Costs for packaging materials, transportation, energy, and all other inputs increased over the levels of a year earlier.

OTHER PRICE DEVELOPMENTS

Prices in 1977 for most goods and services other than food and agricultural products moved in a fairly homogeneous fashion. A few exceptions should be mentioned.

At the retail level, energy prices again posed a special problem early in the year, as noted above, although the pace of increase in energy prices slowed slightly later in the year. Prices of houses, both new and old, rose sharply. On the other hand, prices of apparel and household appliances lagged behind the aggregate indexes.

Medical costs, led by physicians' fees and hospital charges, continued to rise at rates substantially above those of other items, and insurance costs have also risen rapidly. This Administration has proposed to try to reduce inflation in hospital costs by negotiation between representatives of hospitals and physicians, insurers, and the government, which now pays more than half of all hospital charges. The initial goal is to reduce cost increases per admission to 9 percent in fiscal 1978.

At the wholesale level, costs of construction materials rose rapidly during most of the year as prices of lumber and other building materials, especially insulation, moved up sharply. These, of course, contributed to the rise in the price of houses. The rise in lumber prices seem clearly associated with the strength in single-family construction activity, which is particularly lumber intensive. Wholesale and retail fuel prices rose significantly early in the year. Paralleling the moderate rise in retail prices of apparel, textile prices rose less rapidly than the overall average, possibly as a consequence of weak consumer demand and strong worldwide competition as well as of good cotton crops. The pace of inflation has also been relatively moderate for nonpetroleum chemicals, rubber, scrap metals, and most internationally traded commodities. Although many raw industrial commodity prices rose early in the year, possibly as a result of speculation occasioned by fears that inflation would accelerate, increases tapered off and some prices fell in the latter half of 1977. Excess world capacity undoubtedly helped to keep these prices in check.

THE FEDERAL BUDGET AND FISCAL POLICY

Soon after the new Administration came into office, it proposed a series of measures intended to raise the rate of growth in real output in 1977 and 1978 to a pace that would lead to significant reductions in the unemployment rate. The package of stimulative measures that was proposed would have had a 2-year budgetary impact of \$31 billion.

Given the lags inherent in the implementation of fiscal policy, however, the new measures did not have an effect until early summer. Indeed, in the first quarter of 1977, fiscal policy was actually contractionary by almost any measure because of the unusually slow growth in Federal spending in combination with a sharp upturn in receipts. For the rest of 1977, however, fiscal policy was more expansive, as expenditures resumed their normal growth and the initiatives in the stimulus package began to take effect.

THE PRESIDENT'S STIMULUS PACKAGE

The Administration's stimulus program had seven components:

- A one-time \$50 rebate on 1976 taxes and \$50 payments to social security, supplemental security income, and railroad retirement beneficiaries. The proposed rebates and payments totaled \$11.4 billion and were to be payable in the spring of 1977.
- 2. A simplification and a permanent increase in the personal standard deduction. The existing percentage standard deduction was to be converted to a flat deduction of \$2,800 for couples filing jointly and \$2,400 for single individuals. This change would have reduced personal taxes by \$4 billion a year once it was fully in effect.
- 3. A choice for business firms between a 2-percentage point increase in the investment tax credit and a new 4-percent credit against employerpaid social security taxes. The business tax cut would have been worth \$21/2 billion annually when fully implemented.
- 4. An increase in the number of public service jobs funded under Titles II and VI of the Comprehensive Employment and Training Act from the existing 310,000 to 725,000 by mid-1978.
- 5. An additional 346,000 positions to be added to the various specialized employment, training, and youth programs under other titles of CETA.

- 6. A \$4-billion increase in the authorization for emergency public works spending beyond the \$2 billion already authorized in 1976 by the Local Public Works Capital Development and Investment Act.
- 7. An increase in the amount of Federal grants made available to States and localities in periods of high employment under the countercyclical revenue sharing program.

These various components of the President's proposal were designed to provide stimulus in both 1977 and 1978. A 2-year program was needed for a continuing improvement in sales and income. Yet it was necessary to preserve sufficient policy flexibility so that the program could be adjusted up or down as circumstances required. The rebate would add immediately to consumer income and therefore allow the stimulus to take effect quickly. The other tax cuts, together with the expansion of CETA jobs, State and local fiscal assistance, and public works, would take effect more gradually, spreading across the last half of 1977 and into 1978. The increases in spending were designed to phase down as unemployment declined; and permanent tax reductions were held to a minimum to allow more time to consider longer-run budget priorities and the desirability of additional tax cuts in conjunction with tax reform.

THE STIMULUS PROGRAM ACTUALLY ENACTED

Review of the economic situation and the stimulus measures by both the Congress and the Administration in the late winter and early spring led to some revisions in the original proposal. In view of the substantial improvement in the rate of expansion of total output and consumer spending in the early part of the year, it was felt that the one-time rebate, which had been designed to give a quick boost to spending, was no longer necessary. The Administration withdrew the proposal in April. In the absence of the rebate for individuals, it was felt that the optional business tax credits were no longer appropriate. The removal of these two items reduced the total size of the Administration's proposed stimulus package by \$14 billion.

The tax reduction components of the stimulus program that was enacted were incorporated in the Tax Reduction and Simplification Act of 1977. This bill, which became law in late May, included the following items:

- 1. A permanent increase in the personal standard deduction to a flat \$2,200 for single individuals and heads of households and a flat \$3,200 for married couples filing jointly.
- 2. A nonrefundable employment tax credit for 1977 and 1978 equal to the lesser of one-half the wage or \$2,100 for each new employee hired after growth in the firm's wage bill, as specified in the act, exceeds 2 percent. (The wage bill is total wages paid up to \$4,200 per employee.) The total credit available for any one year cannot exceed either \$100,000 or 25 percent of the firm's Federal unemployment tax base. Unused credits are subject to carry-back and carry-forward rules in effect for the investment tax credit. The employer's normal

tax deduction for wage costs is reduced by the amount of the employment credit.

- 3. Extension through the end of 1978 of several tax reduction measures enacted in 1975 and 1976: the general personal income tax credit, the 10-percent earned income tax credit for low-income families with dependents, and the reduction in the corporate tax rate from 22 to 20 percent on the first \$25,000 of corporate income and from 48 to 22 percent on the second \$25,000 (the rate remains at 48 percent for earnings above \$50,000).
- 4. An increase in funds for countercyclical revenue sharing in 1977 and 1978, and an adjustment of the formula under which the funds are distributed to State and local governments to emphasize local unemployment rates.
- 5. Several miscellaneous changes in the tax code and modifications of provisions in the Tax Reform Act of 1976.

The remaining parts of the stimulus program—the expansion of public works, public service employment, and other employment and training programs—were generally approved as requested in authorizing legislation enacted during the spring of 1977 and funded by the Economic Stimulus Appropriations Act. Table 3 shows the budgetary impact of the program passed by the Congress, on a basis consistent with the Federal budget document submitted in January 1978.

 TABLE 3.—Budgetary impact of the economic stimulus program, national income and product accounts, calendar years 1977-78

Program	1977	1978
Total	6.1	16. 9
Tax programs: Change in standard deduction and other Business tax incentives	4.9 3.3 1.6	9.9 7.4 2.6
Expenditure programs: Grants-in-aid to State and local governments. Training and youth programs. Public service employment. Countercyclical assistance. Local public works.	1.2 .0 .7 .5 .0	7.0 1.3 3.5 .6 1.6

[Billions of dollars]

Sources: Department of Commerce (Bureau of Economic Analysis) and Office of Management and Budget.

FEDERAL EXPENDITURES IN 1977

Total Federal Government expenditures rose by $9\frac{1}{2}$ percent in 1977 (Table 4), up slightly from the growth in 1976.* As noted earlier, beginning in the second quarter, growth in real Federal defense and nondefense purchases was the most rapid since the mid-1960s and was an important factor in sustaining real growth in the economy during the year.

^{*}Unless otherwise noted, reference is to calendar years and to the Federal sector in the national income and product accounts (NIPA).

Grants to State and local governments grew somewhat less rapidly than purchases. Most of the growth in grants occurred in the second half of the year, in part as a result of the expenditure components of the President's stimulus program. The growth in Federal transfer payments in 1977 was slowed by declining outlays for unemployment insurance; other social insurance expenditures rose enough for benefits to keep pace with the increase in the general price level.

TABLE	4.—Federal	Governme	ent recei	pts and	expenditures,	national	income	and
		product a	ccounts,	calendar	years 1976–7	7		

[Billions of dollars]

Receipt or expenditure category	1976	1977 1
Federal Government receipts	332.3	373.
Personal tax and nontax receipts Corporate tax accruals Indirect business tax and nontax accruals Contributions for social insurance	147.3 55.9 23.4 105.7	170. 59. 24. 118.
Federal Government expenditures	386. 3	423.
Purchases of goods and services	130. 1	145.
National defense	86. 8 43. 3	94. 51.
Transfer payments	162.0	173.
To persons To foreigners	158. 8 3. 2	169. 3.
Grants-in-aid to State and local governments Net interest paid Subsidies less current surplus of government enterprises	61.0 27.2 5.9	67. 29. 7.
Surplus or deficit (—).	-54.0	-49.1

¹ Preliminary.

Note .--- Detail may not add to totals because of rounding.

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

FEDERAL RECEIPTS AND THE DEFICIT IN 1977

Federal receipts rose by \$41.6 billion in 1977, a somewhat smaller increase than occurred in 1976. The growth was unevenly distributed over the year, with a very large increase in the first quarter and much smaller ones in subsequent quarters. The abnormally large \$20.4-billion (annual rate) increase in the first quarter was due to an extra \$4 billion in payroll tax increases and a nonrecurring \$5.5-billion increase in estate and gift taxes. The additional payroll taxes were the result of the temporary 0.2 percentage point increase in the Federal unemployment insurance (UI) tax rate mandated by the Unemployment Compensation Amendments of 1976, increases in State unemployment insurance taxes—which are counted in the Federal sector—to meet the higher costs of unemployment benefits paid during the recession, and an automatic rise in the taxable wage base for social security. The increase in estate and gift tax collections occurred in response to the revisions made in the Tax Reform Act of 1976. Since gifts were treated more liberally under the old law, there was an incentive to cluster gifts at the very end of 1976, before the new law came into effect. The receipts were collected in early 1977.

The reduction in the rate of increase in receipts during the remainder of the year reflected the personal and corporate tax cuts enacted as part of the stimulus package. For the year as a whole personal taxes and contributions for social insurance grew the most rapidly. Together they now account for 77 percent of total Federal receipts, compared with 60 percent in 1957. Most of this increase results from legislated increases in social insurance taxes. Periodic tax reductions have maintained the share of personal taxes in total Federal receipts at a fairly constant 45 percent over the past 20 years, offsetting the rise that would have resulted otherwise because of the progressivity of this tax. The total Federal tax share of GNP rose from 19.5 percent in 1976 to 19.8 percent in 1977.

The Federal deficit on a national income and product accounts (NIPA) basis declined in 1977 for the second year in a row, falling to \$49.6 billion for the year. This was \$9.5 billion smaller than the deficit projected in February, even after adjusting for withdrawal of portions of the stimulus package.

Several tax changes became effective on January 1, 1978, as a result of previously enacted legislation. The wage base subject to unemployment insurance taxes increased from \$4,200 to \$6,000 per worker. This change is necessary to keep receipts rising in line with the higher unemployment insurance expenditures. The maximum amount of wages subject to social security taxes was also raised from \$16,500 to \$17,700 and the total tax rate increased from 11.7 to 12.1 percent. The Social Security taxes, but they are not to take effect until 1979 and subsequent years. Finally, the Federal excise tax on telephone service was reduced from 5 to 4 percent.

THE HIGH-EMPLOYMENT BUDGET

Table 5 shows the high-employment Federal budget for recent years. This budget shows the difference between total receipts and expenditures under the assumption that the economy is operating at a constant high-employment level. The use of high-employment GNP as the level of activity underlying this hypothetical budget is a convenient but arbitrary convention. The purpose is to adjust the budget for cyclical changes in the economy, and this could as well be accomplished using any other trend path of GNP. The high-employment budget eliminates changes in receipts that occur automatically in response to the cyclical behavior of output and employment leaving only those changes due to discretionary fiscal policy and to the secular growth of output and prices. Automatic changes in unemployment compensation payments are excluded from high-employment expenditures; expenditures resulting from new programs, including those explicitly for countercyclical purposes, are included.

TABLE 5.—Actual and high-employment Federal receipts and expenditures, national income and product accounts, calendar years 1970-77

		Act	ual		High-employment			
Calendar year		Expendi-	Surplus or deficit (Expendi-	Surplus or deficit (—)	
	Receipts	tures	Amount	Percent of GNP	Receipts	tures	Amount	Percent of GNP ²
1970	192. 1 198. 6 227. 5 258. 3 288. 6 286. 9 332. 3 373. 9	204. 2 220. 6 244. 7 265. 0 299. 3 357. 1 386. 3 423. 5	12. 1 22. 0 17. 3 6. 7 10. 7 70. 2 54. 0 49. 6	-1.2 -2.1 -1.5 5 8 -4.6 -3.2 -2.6	201. 1 209. 5 232. 1 256. 6 306. 1 326. 0 263. 8 401. 9	203. 8 219. 4 243. 9 264. 9 298. 3 350. 3 381. 1 419. 8	$\begin{array}{r} -2.7 \\ -9.9 \\ -11.8 \\ -8.3 \\ 7.8 \\ -24.2 \\ -17.3 \\ -17.9 \end{array}$	-0.3 9 -1.0 6 1.4 -1.0 9
1977: 1 1/ 11/	364. 9 371. 2 373. 2	403.7 411.5 432.1	38.8 40.3 58.9	2.1 -2.2 -3.1	397. 1 398. 8 399. 3	399. 2 407. 8 428. 4	-2.1 -9.0 -29.1	 1

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ Preliminary.

² High-employment surplus or deficit as percent of high-employment GNP.

Note .--- Detail may not add to totals because of rounding.

Sources: Department of Commerce (Bureau of Economic Analysis), Office of Management and Budget, and Council of Economic Advisers.

The restrictive shift of fiscal policy in the first quarter of 1977 and the subsequent expansionary swing are reflected in the high-employment budget. Even excluding the nonrecurring increase in gift taxes, the high-employment deficit fell by \$8.4 billion to \$2.1 billion in the first quarter. Thereafter it rose to \$29.1 billion in the third quarter. From the end of 1976 to the third quarter of 1977 the high-employment deficit rose by \$13.0 billion, while the actual deficit rose by only \$3.0 billion. The difference is a measure of the extra increase in receipts and reduction in expenditures generated by the cyclical increase in GNP toward its high-employment path.

The change in the high-employment surplus is a convenient measure of whether fiscal policy is moving in a contractionary or expansionary direction. A shift in fiscal policy may result either explicitly from discretionary changes in taxes or expenditures, or implicitly from normal growth in real output and prices, which automatically lifts revenues by more than expenditures. Hence, if fiscal policy is to remain unchanged in its effects on the private economy, regular discretionary reductions in taxes or increases in expenditures are necessary to neutralize this fiscal drag.

The level of the high-employment surplus or deficit consistent with maintaining high-employment output depends on the balance between non-Federal saving and investment that would occur at that level of economic activity. An imbalance must be accommodated by the Federal surplus or deficit, or be corrected by the effects of monetary policy or other measures. There is no given level of the high-employment surplus that is suitable in all situations. In particular, just as a balanced actual budget is often not a desirable objective of fiscal policy, a balanced high-employment budget will only on occasion be appropriate. As discussed in more detail in Chapter 2, the appropriate level of the high-employment surplus or deficit in the Federal budget depends on the spending decisions of the private sector and of State and local governments, and on the factors affecting the foreign trade balance.

The appropriate path of the high-employment surplus must take into account the movements of actual output relative to the high-employment trend. When the economy is recovering from recession, investment tends to be restrained by both current and past levels of excess capacity, and a more stimulative fiscal policy is necessary to raise capacity utilization. As private demand gains momentum and the economy approaches high employment, the high-employment Federal budget should move closer toward, or into, balance to make room for accelerating private investment. The desirable level and rate of change of the high-employment budget also depend, of course, on the stance of monetary policy and other circumstances specific to any given period.

The high-employment budget should not be interpreted as a precise measure of the Federal sector's impact on the economy. In the first place, different types of taxes and expenditures have widely differing impacts on income and output. For example, an increase in Federal purchases yields larger gains in output than an increase in transfer payments or a reduction in taxes. Similarly, some kinds of tax reductions tend to have a larger stimulative effect than others. Secondly, the effects on aggregate demand of a given tax change will depend on the stage of the business cycle because of the cyclical variability of income shares. Nevertheless, the high-employment budget is a useful simple indicator of the direction of fiscal thrust.

MONETARY POLICY

Short-term interest rates rose fairly sharply from April through October of last year, following an unusual period of downward drift during the first 2 years of the current expansion. Nonetheless, financial markets showed few signs of stress during 1977. Deposit flows to thrift institutions remained fairly high, although some slowing was apparent late in the year. Mortgage credit rose rapidly and there were few signs of tightening of mortgage terms. The volume of new corporate bond issues was down slightly from the preceding year as businesses shifted somewhat toward mortgages and shorterterm borrowing. The yields on new corporate bonds and on long-term Treasury issues rose in the first quarter but then remained stable until late in the year, when a further increase occurred. State and local bond yields drifted slightly lower in 1977, despite a considerable increase in offerings. On balance, the strong liquidity positions and ample cash flow of major lending institutions early in the year limited the upward movement of long-term rates and accommodated substantial credit flows, though at rising costs to many borrowers.

The sharp increase of almost 2 percentage points in the Federal funds rate between April and October was unsettling, however, both because of its speed and because of uncertainties about its implications for the future of interest rates. From March through October the narrowly defined money supply (M_1 , the sum of demand deposits and currency) grew erratically but rapidly, averaging a 10-percent annual rate. This was substantially faster than the $6\frac{1}{2}$ -percent upper limit of the target growth range announced by the Federal Reserve at the end of 1976 for the year ahead. Consequently, the Federal Reserve moved to tighten the availability of bank reserves, which led to increases in the Federal funds rate and other short-term interest rates.

The unusually rapid growth of M_1 in 1977 was sharply at variance with the pattern of growth during the first 2 years of the current expansion. During that earlier period money growth had been unusually slow relative to nominal GNP. The resulting rapid rise in velocity (the ratio of GNP to M_1) was accompanied by stable or slightly declining interest rates, indicating that the private sector was developing new means for economizing on cash balances (see discussion later in this chapter). Questions arose during the year concerning the possibility that the unusual velocity pattern would not continue. If velocity growth were returning to a historically more normal pattern, further increases in interest rates would be required to hold growth of the monetary aggregates within the Federal Reserve's target ranges.

INTEREST RATES AND SECURITY YIELDS

Movements of virtually all short-term interest rates tended to follow the Federal funds rate during the year, rising from late spring through early fall and then leveling out through December. During the year as a whole the rate on 3-month Treasury bills rose from 4.5 to 6.1 percent. The prime rate charged by banks on short-term business loans followed, rising from $6\frac{1}{4}$ percent to $7\frac{3}{4}$ percent. There were, however, reports of shading of the prime rate, as banks sought to expand their business loans.

Long-term interest rates were relatively stable during the year, after declining rapidly in the preceding 2 years. The yield on newly issued Aaarated utility bonds averaged 8.2 percent, compared with an average 8.5 percent during 1976. The yield for 20-year Treasury securities rose unevenly from a January low of 7.5 to 7.9 percent in December, but averaged 7.7 percent for the year, compared with 7.9 percent in 1976.

Corporations had no apparent difficulties in marketing new debt issues, for there was ample demand from both financial institutions and individuals wary of common stocks. Although the yield curve became substantially flatter, as short rates rose relative to long, the curve remained positively sloped particularly within the 1-year range. This resulted in part from the fact that bond market participants expected some further rise in short rates.

Interest rates on municipal bonds were an exception to the general pattern of interest rates: yields on lower-rated tax exempt bonds continued to fall. Yields on Baa-rated municipal bonds fell from 6.7 percent in December 1976 to 5.8 percent in December 1977. as investors' fears of municipal bankruptcies abated. Inflation also pushed more incomes into the range where the tax exemption is valuable, and the growth of tax exempt mutual funds offered individuals greater access to the municipal bond market. This downward movement of yields was not shared by the more highly rated municipals: the yield on Aaa bonds fluctuated in a narrow band of 5.1 to 5.3 percent.

Despite relatively stable long-term interest rates and rising profits, many stock prices fell in 1977. The widely quoted Dow-Jones average of selected industrial stock prices fell from 1005 at the end of 1976 to a 1977 low of 801 in early November. The broader New York Stock Exchange composite index fell by 14 percent over the same period. Stocks with low price-earnings ratios and high dividend yields generally did better than others. The securities dealers' index (NASDAQ) rose during 1977 by over 7 percent. There have been a number of reasons for the decline in many stock prices in the face of rising corporate earnings. Fears of unfavorable changes in tax laws, particularly with respect to capital gains taxes, and uncertainties about the final form of other policy measures, such as the energy bill, undoubtedly played a part. The dominant factors affecting stock prices, however, were probably rising interest rates and fears of an economic slowdown.

The condition of the stock market is both a symptom of economic uncertainties and a source of economic problems. A lower value of corporate shares makes it expensive for corporations to raise new equity to finance new plant. It also creates an incentive to use internal funds to buy debt or equity investments, rather than make new investment in real assets. The reduction in wealth may also reduce other components of aggregate demand, and this in turn further reduces the incentive for investing in new plant.

SAVINGS FLOWS, CREDIT AVAILABILITY, AND USES OF FUNDS

Business credit availability remained ample at commercial banks, insurance companies, and pension funds. The latter two classes of institutions have been active lenders in the new issues markets, as the funds available to them rose during 1977.

Although new corporate long-term bond issues were down slightly from 1976, the rise in new commercial mortgages offset this decline. Short-term corporate borrowing from commercial banks and finance companies rose more rapidly in 1977 than earlier in the recovery. Nevertheless, total business borrowing needs remained moderate.

While M_1 growth rates rose during the course of 1977, the growth rate of time and savings deposits at commercial banks (other than negotiable certificates of deposit at large commercial banks) fell. For the 6 months ending in March 1977, the growth rate of these deposits was 15.8 percent, at an annual rate. For the 9 months ending in December the growth rate slowed to 9.3 percent. There was some outflow from State and local savings accounts and growth in personal savings accounts slowed. The rate of savings flows at thrift institutions slowed late in the year, falling from a 14.8 percent anual rate through October to about 11 percent in the final 2 months of the year. It might have slowed earlier but for the success of the thrift institutions in capturing funds previously held at banks in the "wild card" certificates that were issued in 1973 and matured last summer. As a consequence of continued inflows during the major part of the year, mort-gage credit remained readily available.

The continuation of strong savings flows at thrift institutions during most of the year was attributable to several causes. Short-term rates remained below the levels of the previous business cycle peak in November 1973 and were generally below the regulatory ceilings on deposits until late in the year. The response of the public to changes in relative interest rates is likely to be gradual at first and then to gain momentum when interest rates approach or surpass previous peaks.

It is also important that the deposit and liability structure of financial intermediaries has changed substantially since 1973, the last period of credit market tightness. On the deposit side, the institutions rely less on passbook accounts, and more on long-term certificates of deposit. At savings and loan associations, for example, passbook accounts fell from over 50 percent of deposits in late 1972 to under 40 percent in 1977. At the other end of the maturity range, long-term certificates have become more important.

This movement to longer maturities has created a more stable deposit structure. Most obviously, certificate deposits are virtually locked in until the certificate matures, since the penalties for early withdrawal are severe. In addition, the yield curve embodied in the interest rate ceilings imposed by the Federal Reserve (Regulation Q), the Federal Deposit Insurance Corporation, and the Federal Home Loan Bank Board is somewhat steeper than the current yield curve on market securities. As a result, although market rates were above effective ceilings at the shorter end of the maturity range late in the year, ceilings on the long maturity certificates were still above market yields on comparable-maturity government securities.

In previous periods of credit stringency, thrift institutions were also in a poor position to pay rates high enough to attract funds. The average mortgage held by savings and loan associations yielded only 7 percent at the end of 1972. By mid-1977 this had risen to over 8 percent. As a result thrift institutions are better positioned to attract high-cost funds than they were previously.

Reflecting the ready availability of mortgage credit, mortgage borrowings rose sharply in 1977. The substantial excess of mortgage borrowings over the value of new residential construction may indicate that some funds were pulled out of the housing market and used to support consumption expenditures or buy financial assets. By mid-1977, mortgages outstanding had reached 45 percent of personal income, above the historic peak of 44.3 percent reached in 1965 (Table 6). Consumer credit outstanding reached

TABLE 6.—Mortgage and consumer debt outstanding as percent of disposable personal income, 1974-77

Period	Debt				
	Total	Mortgage	Consumer		
1974	62.4	43. 5	18. 9		
1975	60. 3	42.6	17.7		
1976	61. 3	43. 4	17.8		
1977: First 3 quarters	63, 5	45. 1	18.4		

[Percent]

Sources: Department of Commerce (Bureau of Economic Analysis) and Board of Governors of the Federal Reserve System.

18¹/₂ percent of disposable income in mid-1977, up substantially from 1976 but still below the 1973-74 peak.

Although the total Federal deficit of \$45 billion in fiscal 1977, on a unified budget basis, was down from the \$61 billion of fiscal 1976, the Federal Government remained a large borrowing sector. This large Federal deficit was substantially offset, however, by the \$27-billion surplus of State and local governments (including both operating and social insurance funds) during the same 4 quarters. The total government deficit (on a NIPA basis) was \$18 billion for fiscal 1977. In addition, about \$25 billion of Federal debt was purchased for foreign official accounts.

State and local government issues continued to grow as marketing became easier. These governments, however, bought more financial assets, primarily Treasury securities, than they sold. Some of the securities purchased were special issues, as State and local governments utilized the limited legal opportunities to issue new tax exempt securities of their own, in advance of maturing issues, investing the proceeds in special taxable Treasury issues.

THE STATE OF THE ECONOMY AT YEAR-END

Prospects for continued expansion were favorable as 1977 came to a close. The sectors of the economy were in good balance, inventories were relatively lean, and the balance sheets of businesses and financial institutions were strong. Nevertheless much remains to be accomplished to achieve the Nation's economic goals. The great resources of the U.S. economy are still incompletely utilized. Since the cyclical peak in the fourth quarter of 1973, growth in real output has averaged 2.3 percent per year. This is an abnormally slow rate of growth for a 4-year period. Capacity utilization in manufacturing still hovers 4 to 5 percentage points below levels that, in the past, have been consistent with high employment, and its low level is contributing significantly to lagging profit growth and a rate of investment that is too low to meet long-run needs.

Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis The unemployment problem remains one of the most critical facing the Nation. Not only is the aggregate rate too high, but the composition of unemployment implies that recovery is bypassing some segments of society. Young people and minorities, in particular, continue to account for a disproportionate share of the unemployed, and continued rapid growth of demand may make only small inroads into this problem. It is important to identify and correct the imperfections in labor markets that limit the employment opportunities of these groups if prosperity is to be equitably shared.

Progress in curbing inflation has also been painfully slow because it has proved difficult to reverse the momentum that develops when past inflation comes to be expected. Stabilizing the rate of inflation is an important first step. Reducing the rate further remains a challenging goal.

Continued and accelerated growth in productivity is also required both as a major contributor to the reduction of inflation, and in order to sustain or enhance the U.S. position in international trade. Stronger growth of investment will be required to achieve this objective, as well as to avoid capacity bottlenecks at future levels of high employment, to accommodate needs for environmental control equipment, and to adapt to changing technological and cost conditions affecting particular areas and industries.

A critical challenge remaining at the end of 1977 is a successful shift toward greater energy self-sufficiency. This must entail both conservation of existing resources of oil and gas and conversion to more abundant alternative energy sources. Passage of the Administration's National Energy Plan and the help of all sectors of our economy in its implementation are the first steps in laying the foundation for secure economic growth over the coming decades.

SPECIAL ISSUES

A number of special issues occupied the attention of economic policy makers and observers during the past year. These issues require separate consideration not only because of their importance for interpreting the events of 1977 but also because of their significance for the entire recovery and for its continuation. These issues include developments in financial markets that affect the uses of money balances and their implications for monetary policy, the ability accurately to control and forecast Federal Government expenditures, and the underlying strength of investment propensities in the U.S. economy.

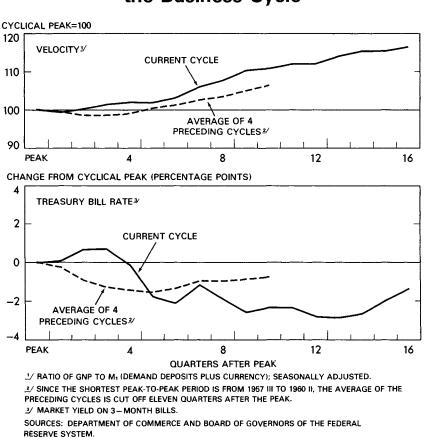
MONEY GROWTH AND VELOCITY

Velocity, the ratio of GNP to M_1 , rose by 8.3 percent in the first year of recovery, and by 3.5 percent in the second year, which ended with the first quarter of 1977. These are exceptional increases for a period when interest rates were not increasing. Customarily the increases in velocity during cyclical expansions are in part the result of rising interest rates that lead

Digitized for FRASER 248-947 O - 78 - 5 http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis to economizing of money balances. Velocity increases during the first 2 years of the current expansion occurred despite declines in short-term interest rates. Thus the behavior of velocity in the current recovery stands in sharp contrast to previous cyclical patterns. This contrast is shown in Chart 1.

Shifts in velocity, or the relation of money demand to income and interest rates, complicate the implementation of monetary policy. For example, a decline in interest rates could indicate a reduction in the public's preferences for money holdings or a weakening in the pace of economic activity. The appropriate response to the former shift might be slower growth in the money supply, while the response to the latter might be more stimulative monetary policy. Developments influencing the relation of money balances to the usual determinants of money demand consequently have significant policy implications.

Chart 1



Velocity and Interest Rates Over the Business Cycle The behavior of velocity in the current recovery cannot be completely explained by the behavior of the factors that usually determine money demand. Most statistical analyses that served to explain money demand in the 1950s and 1960s overpredict money demand for the period from late 1974 through early 1977. Many reasons have been suggested for the apparent downward shift in money demand relative to GNP. The principal cause appears to be changes in cash management techniques of businesses and individuals. Some of the more frequently suggested factors are summarized below:

- 1. The high interest rates of 1973-74 encouraged the public to institute programs to conserve on money balances. When rates fell, these programs were not dismantled. As a result the amount of money demanded did not return to its earlier relation to GNP.
- 2. The growth of cash management services offered by banks has reduced corporations' demand for cash. These services allow corporations to keep demand deposits at minimal levels. For example, some banks automatically invest any excess funds in overnight repurchase agreements for some large corporate customers.
- 3. The growth of negotiable order of withdrawal (NOW) accounts, money market mutual funds, and credit union share drafts has absorbed funds that would otherwise have gone into demand deposits.
- 4. The growth of corporate and State and local government savings accounts may have absorbed funds from demand deposits.
- 5. The growing availability and use of overdraft accounts and credit cards have reduced individuals' needs to keep large demand deposit balances. Growing use of telephonic transfers of funds from savings accounts to demand balances and third-party transfer arrangements have worked in the same direction.

The size of these influences is difficult to determine. The volume of new deposit instruments (NOW accounts, money market funds, credit union share drafts, and corporate and State and local government savings accounts) is between 5 and 10 percent of M_1 , but some portion of these funds was certainly drawn from sources other than demand deposits. The size of the impact of the other potential causes is largely conjectural.

The broader definitions of the money supply, M_2 and M_3 , have shown much less evidence of a shift in money demand. M_2 includes, in addition to M_1 , time and savings deposits at commercial banks, other than large negotiable certificates of deposit at large banks. M_3 includes, in addition to M_2 , deposits at thrift institutions (mutual savings banks, savings and loan associations, and credit unions).

The growth rates of the more broadly defined money stocks have generally been closer than M_1 to the target ranges set by the Federal Reserve for 1977 From the fourth quarter of 1976 to the fourth quarter of 1977, M_2 grew by 9.6 percent, at the high end of the target range of 7 to 10 percent, and M_3 by 11.6 percent, slightly above its range of $8\frac{1}{2}$ to $11\frac{1}{2}$ percent.

Since April, the behavior of velocity of M_1 has been more generally in line with the trend from the early post-World War II years to 1974. Following the sharp growth of M_1 in the second and third quarters, money growth in the fourth quarter slowed to a 7-percent annual rate. Given the increase of about three-fourths percentage point in short-term interest rates, and the 10.7-percent rate of growth of nominal GNP, this growth in M_1 appears consistent with the relationship between money demand and GNP that prevailed prior to 1974. The pattern of velocity in the last 3 quarters of 1977 may indicate that the effects of structural changes in financial markets are no longer growing, though it is too early to be certain.

FEDERAL SPENDING SHORTFALLS

Federal spending in 1977 fell short of the levels projected in the new Administration's budget. This is consistent with a tendency for the Federal budget in January of each year to overestimate the level of expenditures for the current year. In 6 of the last 8 years, actual spending, as measured in the NIPA accounts, has fallen below the level projected in the January budget by amounts ranging from \$0.4 billion to \$7.6 billion (Table 7). In fiscal 1977 the shortfall was \$13.7 billion, measured from the new Administration's projections sent to the Congress in February. This was 3.3 percent of actual spending.

Although it is desirable to increase efficiency and minimize costs in the provision of Federal Government services, *unanticipated* shortfalls in expenditures can undermine effective implementation of fiscal policy. Shortfalls may have adverse effects on real economic activity because fiscal policy becomes less expansionary, or more restrictive, than was intended when the budget was planned. A number of steps are involved in the formulation and implementation of fiscal policy. Projections are made of the likely course of private demand and nondiscretionary government spending. These are balanced against the economy's supply capabilities. The discretionary changes

 TABLE 7.—Comparison of projected and actual Federal expenditures, national income and product accounts, fiscal years 1970-77

			Actual less	projection
Fiscal year	Projection 1	Actual	Amount	Percent of actual
1970	196. 0 212. 4 238. 2 259. 7 286. 4 324. 3 378. 7 425. 5	195. 6 212. 7 232. 9 256. 2 278. 8 328. 7 372. 3 411. 8	-0.4 .3 -5.3 -3.5 -7.6 4.4 -6.4 -13.7	0.2 -1.1 -2.3 -1.4 -2.7 1.3 -1.7 -3.3

[Billions of dollars, except as noted]

¹ Projections made in the <u>Budget of the United States</u> <u>Government</u> published in January of the current fiscal year, (February Budget used for 1977), adjusted for revisions by applying projected percent changes to revised data.

Sources: Department of Commerce (Bureau of Economic Analysis), Office of Management and Budget, and Council of Economic Advisers.

in taxes or spending required to achieve the desired fiscal stance must be determined in light of these projections. Adjustments are, of course, made in the fiscal program by both the Congress and the Administration between presentation of the budget in January and the period to which it applies, which begins 9 months later and ends 21 months later. Nevertheless the process of changing taxes and expenditures is not sufficiently flexible to allow rapid adjustments to unanticipated fluctuations in Federal outlays for basic activities. Reliable expenditure projections are necessary if fiscal measures are to be controllable and effective policy tools.

The magnitude of the effects of shortfalls on the real economy depends on which categories of spending are affected. A shortfall in purchases will have the strongest negative impact because they directly affect economic activity. Underspending in transfers and grants will have a smaller effect, since they are received by individuals and State and local governments, who spend only a part of their receipts. Shortfalls in financial transactions and other asset transfers—which are included in the unified budget, but not in the Federal sector in the national income and product accounts shown in Table 7—have only an indirect effect on aggregate demand. Nevertheless shortfalls in financial transactions do directly affect the size of the total Federal deficit that must be financed by the Treasury. Uncertainties about borrowing requirements resulting from inaccurate estimates of the Federal deficit may be unsettling to financial markets.

The existence of periodic shortfalls may be explained partly by difficulties in forecasting with precision certain key economic and demographic variables that determine spending levels—for example, the rate of inflation and the numbers eligible for various transfer programs. In addition, the timing of legislation necessary to implement parts of the budget may be hard to forecast. In principle, however, there should be no reason why these problems should cause a systematic bias in expenditure estimates.

Nonetheless, there is an apparent upward bias in Federal spending projections. There are several possible explanations for this phenomenon. First, agencies naturally tend to be overly optimistic about their current-year spending estimates, because authorizations for the following year often depend on actual outlays for the current year. Second, there is also a tendency to overestimate the spend-out rates for new program initiatives, both because of the lack of experience with the new programs and because of optimism about their likely success. For example, it was originally estimated that \$0.6 billion would be spent on public works in 1977 under the increased authorization contained in the stimulus package. In fact, spending was negligible, although commitments by the Federal Government for specific local projects were completed on schedule. Finally, there are no formal penalties in the Federal budget system for errors in estimating outlays. The spending ceilings in the Congressional Budget Resolutions are a constraint on legislative appropriations but they do not constrain Administration estimates of outlays.

Since these institutional forces are largely beyond effective control, it is likely that administrative agencies will always tend to overestimate outlays. Nevertheless steps are being taken to mitigate this problem. First, there must be regular monitoring and scrutiny of agency budgets by the Office of Management and Budget (OMB) to ensure that their outlay projections reflect the best information available. Revised outlay estimates for fiscal 1978 published last November identified \$11 billion in reductions from estimates made the previous July. Second, to the extent that a regular pattern remains in the difference between actual and predicted levels of Federal spending, adjustments can be made to reflect this in fiscal policy decisions. Continuing efforts by OMB, in cooperation with Federal agencies, can result in more reliable estimates and will improve fiscal management.

BUSINESS FIXED INVESTMENT

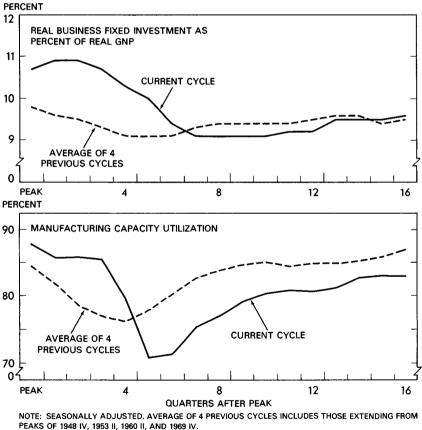
Real business fixed investment has grown very slowly over the past 4 years in comparison with its performance in earlier business cycles in the post-World War II period. In the final quarter of last year, real investment outlays were 2 percent below their level at the business cycle peak in the final quarter of 1973. At the comparable stage in four previous cyclical recoveries (excluding the 1957–60 cycle, which is too short for comparison), real business fixed investment averaged 14 percent above its level at the previous cyclical peak.

In large measure, the lag of business capital outlays results from the depth of the last recession—the most severe in the post-World War II period and its effects on many of the determinants of investment. Investment in structures, however, has been significantly below expectations and has pulled down the investment total. Furthermore, surveys of plans for investment in 1978 do not at the present time suggest the strength that would normally have developed after a sustained period of increases in capacity utilization and in profits.

The investment performance in the current expansion is disturbing for two reasons. First, strong investment is needed to sustain economic expansion and keep the economy moving toward high employment. Higher levels of investment spending during the expansion to date would have made a welcome contribution to total demand. Second, sluggish investment implies slow growth of capacity. Although measurement of capacity is necessarily imprecise, estimates of the growth of capacity in manufacturing industries indicate that growth has slowed in recent years. This growth averaged 4.0 percent from 1968 to 1973 and has fallen to 2.9 percent from 1973 to 1977. In view of the large growth of employment needed in the years ahead to reach unemployment targets in the face of rapid labor force growth, a faster expansion of capacity than the 1973–77 pace will be required to avoid capacity bottlenecks at high employment. Investment must rise as a share of total GNP in coming years in order to achieve adequate growth of capacity. Chart 2 compares the ratio of real business fixed investment to real GNP with its average over four previous recoveries. There has been a sharp decline in this ratio from the unusually high 1973–74 peak. This peak occurred when capacity shortages were providing a strong incentive for investment spending. Investment spending declined more slowly relative to real GNP in the 1974–75 recession than in previous downturns, but its ultimate decline was greater. The recovery of investment relative to GNP was also slower than normal through the end of 1976, 12 quarters after the cyclical peak. The ratio at the end of 1977, however, was 9.6 percent, or 0.1 percentage point above the average of this ratio at a comparable stage of four previous cycles. This comparison overstates the amount of invest-

Chart 2

Investment and Capacity Utilization Over the Business Cycle



SOURCES DEPARTMENT OF COMMERCE AND BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM.

Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis ment that added to capacity, however, because purchases of mandated pollution abatement equipment comprise a larger share of investment than in the past. The ratio of real busines fixed investment, excluding pollution control equipment, to real GNP was about 9.2 percent in 1977.

The bottom panel of Chart 2 suggests that the effect of the recession on capacity utilization is important in explaining the sluggishness in investment. Capacity utilization fell dramatically in 1974-75, to the lowest level for any recession in the postwar period, and it remained at depressed levels longer than in previous cycles. An improvement began in 1975, and the 1976-77 upturn in investment was clearly associated with the further rise in capacity utilization, although the utilization rate remained slightly below its 1955-70 average (Table 8).

Many other determinants of investment also remain below their 1955-70 averages, although they have improved considerably during the expansion. Corporate cash flow fell markedly in 1974 but recovered quite quickly and strongly. Its ratio to GNP in 1976 and 1977 was very close to the pre-1970s

			Nonfinancial corporations					
Year	Ratio of real investment to real GNP	Capacity utili- zation rate in manufactur- ing ¹	Cash flow as percent of GNP ²	Net rate of return on depreciable assets ³	Rate of return on stock- holders' equity 4	Ratio of market value to replace- ment cost of net assets 5		
1955	9.4	87. 0	9.3	15.0	6.5	0. 931		
1956	9.8	86. 2	8.9	13.3	5.8	. 923		
1957	9.7	83. 6	8.9	11.7	4.9	. 857		
1958	8.7	75. 0	8.7	9.5	3.8	. 873		
1959	8.7	81. 7	9.2	12.3	4.9	1. 047		
960	9.0	80. 1	8, 9	11. 2	4, 4	1.022		
961	8.7	77. 3	8, 8	11. 1	4, 3	1.151		
962	8.9	81. 4	9, 4	12. 7	5, 6	1.092		
963	8.9	83. 5	9, 6	13. 6	6, 1	1.205		
964	9.3	85. 7	10, 0	14. 7	7, 1	1.292		
965	10. 3	89.6	10. 4	16. 2	8.1	1.356		
966	10. 8	91.1	10. 3	16. 1	8.8	1.203		
967	10. 3	86.9	9. 9	14. 0	7.7	1.214		
968	10. 3	87.0	9. 4	14. 2	7.0	1.259		
968	10. 6	86.2	8. 6	12. 8	6.3	1.127		
1970	10. 2	79. 2	7.9	9.9	5.0	. 911		
1971	9. 7	78. 1	8.2	10.4	4.5	1. 006		
1972	10. 0	83. 1	8.6	11.5	6.2	1. 089		
1973	10. 6	87. 6	8.0	12.3	5.8	1. 026		
1974	10. 7	84. 2	6.9	11.3	9.9	. 762		
1975	9.4	73.6	8.8	9.5	6. 1	. 750		
1976	9.2	80.2	9.1	10.8	5. 8	. 838		
1977 °	9.5	82.3	9.0	10.6	5. 9	. 788		
1955-70 average	9.6	83. 8	9.3	13.0	6.0	1.091		

TABLE 8.—Determinants of business fixed investment, 1955-77

(Percent)

1 Federal Reserve Board index.

³ Equity plus interest-bearing debt divided by current replacement cost of net assets. ⁴ Preliminary.

Sources: Department of Commerce (Bureau of Economic Analysis), Board of Governors of the Federal Reserve System, and Council of Economic Advisers.

 ² Cash flow calculated as after-tax profits plus capital consumption allowance plus inventory valuation adjustment.
 ³ Profits before taxes plus capital consumption adjustment plus net interest paid divided by the stock of depreciable assets valued at current replacement cost.

After-tax profits corrected for inflation effects divided by net worth (physical capital component valued at current replacement cost).

average. This enlarged cash flow was not devoted to increased investment early in the expansion, however, but was used instead to reduce debt that had risen because of heavy external financing in 1972–73 and the drop in earnings in 1974. By 1977, short-term corporate debt was much lower and liquidity was much improved.

Despite the strong rise in cash flow, the rate of return on depreciable assets shown in the fourth column of the table did not rise correspondingly. An important factor in the early growth of cash flow was a strong increase in depreciation allowances, which contribute to internal funds but are not part of net return. The rate of return on depreciable assets is also lower relative to cash flow in 1975–77 because depreciation allowable for tax purposes falls below replacement cost in periods of inflation. There is a gap of about $2\frac{1}{2}$ percentage points between current levels of the net rate of return on nonfinancial corporate capital and the 1955–70 average of 13 percent. Much of the gap exists, however, because recovery is still incomplete.

Cyclical adjustments can only approximate the effect of differing capacity utilization rates on the rate of return. They suggest, however, that if the rate of capacity utilization in 1977 had been at a high-employment level, the rate of return would also have been improved, though still below highemployment levels prior to 1970. The rate of return has fallen from the high level attained during the mid-1960s, but it appears to be recovering from the depressed periods of the early 1970s, when profits may have been affected not only by slack capacity but also by price controls. Thus, stronger overall performance of the economy holds the promise of raising the return to capital.

Corporation taxes and interest payments are subtracted from the rate of return on depreciable assets to obtain profits earned on stockholders' equity, shown in Table 8. This measure of profits differs from "book value" profits reported by corporations, by excluding inventory profits and measuring depreciation on a replacement-cost basis. In periods of rising prices, profits must also be adjusted to reflect the reduction in the real value of corporate debt that is induced by inflation. This reduction in the real value offsets the part of nominal interest costs that is a premium to compensate lenders for anticipated continuation of inflation. Although these adjustments involve a number of statistical problems, reasonable approximations can be made. As shown in the table, the after-tax return on corporate equity in 1977 approximately matched the 1955–70 average. On a cyclically adjusted basis this profit rate appears to be slightly above the 1955–70 average.

The ratio of the market valuation of the assets of nonfinancial corporations to their replacement cost is a way of formulating the joint roles of financial and nonfinancial influences on investment decisions. The recurrent weakness of stock market values during the recovery, despite rising corporate profits, has strongly influenced this ratio and may indicate unfavorable expectations shared by business managers and investors in equities. A great variety of factors influence the stock market—including, of course, anticipations of economic growth and profitability and the prospects for all the policies that will influence them. Monetary policy may have an additional, more direct, effect through its influence on the rate of return on alternatives to equity investment.

The ratio of market values to replacement cost has remained considerably below 1 throughout this recovery. This may be an indication that it is more profitable, on average, to buy existing financial assets than to invest in new plant and equipment. At the margin, of course, the ratio of market value to replacement cost may be greater than the average in particular industries or for particular types of equipment. For example, this is likely to be true now for energy-intensive production processes. Old capital may have lost considerable value as energy prices rose, but new energy-conserving equipment could have a much higher value. Thus, enactment by the Congress of a national energy policy that clarifies the long-range relation between fuel prices and the prices of other inputs to production could lead to substantially greater investment than the current average ratio of market value to replacement cost would indicate. Other economic policy measures being proposed, tax measures in particular, may also create more favorable attitudes toward investment in both real and equity assets.

Interest rates on short- and long-term corporate debt and the earnings-toprice ratio on equities both influence the cost of funds to business, and both are likely to influence investment decisions. In the case of interest rates, however, it is the real rate, exclusive of inflation premiums, that is relevant. On an annual average basis the interest rate on long-term bonds less the rate of inflation (an approximation of the real rate of interest) and the earnings-to-price ratio on equities were both higher in 1977 than in 1973. (See Chart 5 in Chapter 2.) They moved in divergent directions between 1976 and 1977—the real interest rate declined slightly while the earningsto-price ratio rose—but parallel upward movements occurred in the course ot 1977.

Studies of investment behavior conducted by the Council in the past year have explored the relation of investment to a number of its measurable determinants—growth of output, capacity utilization, cash flow, the rental price of capital services, and the ratio of the market value of assets to their replacement cost. In order to test whether the relationship of investment to these determinants has changed in the recent period, statistical relationships were estimated by econometric methods for the 1957–73 period. Projections for the period from 1974 through 1977 were generated from many of these earlier relationships. (Not all could be extended through 1977 because of lags in data availability.) These projections produce a wide range of estimates, and all the alternative formulations involve a substantial margin of error. Conclusions about the performance of investment therefore remain uncertain.

It appears, however, that total investment outlays during the expansion have fallen somewhat short of those implied by historical relationships of investment to its determinants. Investment expenditures fell much more sharply in 1975 than would have been expected and remained depressed for a longer time. Once the upturn occurred, late in 1975, the rate of growth of investment was for a time approximately in line with econometric projections. An unusually rapid acceleration would have been required, however, to make up for the 1975 shortfall and this did not occur. Indeed, the rate of growth appears to have drifted below the projections in the latter part of last year, and surveys taken late last year of the investment planned for 1978 suggest a widening gap.

The components of business fixed investment have differed widely in their behavior during the expansion. The level of investment in equipment was largely consistent with the econometric projections through early 1977. Excluding the effects of strikes in the fourth quarter of 1976, the divergence between actual and projected growth rates was probably well within the margin of error for these projections. Later in 1977, however, the increase in equipment investment appeared to be a bit slower than most of the econometric projections would suggest.

The investment level for structures during the past few years, however, has fallen consistently and substantially below what would have been expected on the basis of all of the econometric projections. Not only was the decline extraordinarily sharp in 1975 but the subsequent recovery was slower than might have been expected. The result has been a widening gap between the actual level of investment in structures and the level that would have been projected on the basis of historical patterns. Since investment in structures accounts for approximately one-third of business fixed investment, its slow growth has had an important impact on the total. In the fourth quarter of last year, real outlays for private nonresidential construction were 13 percent below their level at the end of 1973, while outlays for producers' durable equipment were about $4\frac{1}{2}$ percent higher than at the end of 1973.

A number of possible reasons exist for the lagging investment performance. The perceived risk of investment may have increased in the 1970s as a result of higher inflation rates and larger cyclical fluctuations in output. Although a steady and fully anticipated inflation rate of 6 percent is not inherently riskier than price stability, high inflation rates have historically been associated with larger variations in the rate of price increase, both here and abroad. For this reason, measures to control inflation are important.

Uncertainties about future rates of change of specific output prices and costs are even more likely to affect investment behavior adversely. Changes in energy costs are an obvious example. At least during a period of adjustment, flexibility of foreign exchange rates may also have caused increased uncertainties. Apart from these examples, it is unlikely that other relative prices and costs have become substantially more volatile in recent years.

Uncertainties about future expansion of sales were undoubtedly increased by the depth of the last recession, but they should be abating as the expansion in the United States continues. Excess capacity and slow growth in other industrial countries, together with deep import penetration into a few key industries, may, however, be continuing to restrain business optimism.

Environmental and safety regulations have also been assuming a larger role in decisions regarding investment. The effect is hard to quantify, but there is direct evidence that environmental regulations are more stringent for new installations and may have a particularly inhibiting effect on investment in structures. On the other hand, mandated antipollution investments may actually have raised investment levels from what they would otherwise have been in some industries; this increases aggregate demand but does not enlarge productive capacity.

Finally, it should be noted that during a substantial part of the 1950s and 1960s heavy investments were made in fuel and power facilities that are long lived. Demand for electricity was growing extremely rapidly, stimulating continuous expansion in generating capacity, and the network of natural gas pipelines was also considerably extended. Investment in structures from 1973 to 1976 included outlays for the Alaska pipeline that have now ended. Increased investment by energy-producing industries can be expected in the future; but the timing is uncertain, and in the case of electricity higher energy prices may limit the growth in demand and capacity expansion.

At a time when strong growth in the capital stock is needed to meet future goals, investment appears to be drifting below normal trends. This drift must be reversed. A stable financial environment and tax measures specifically directed to enhancing investment incentives are particularly important. The situation should also be especially helped by progress in the fields of energy and regulation. These measures will be most effective in the context of a steady continuation of overall expansion.

CHAPTER 2

Economic Outlook and Policy

THE ECONOMY is entering its fourth consecutive year of sustained growth, and the prospects for continuation of the recovery in the near term are quite favorable. Final sales were up strongly at the end of 1977, and the effects of last year's stimulus package continue to build, setting the stage for a resumption of healthy production gains in the early part of 1978.

Over the longer term, however, without additional fiscal measures, economic growth would slow below the rate necessary to maintain satisfactory progress toward our goal of returning to high employment. The non-Federal sectors of the economy do not appear to possess sufficient strength on their own to support a sustained high rate of real output growth throughout 1979. In addition, Federal fiscal policy would itself gradually become more restrictive as the spending increases contained in the 1977–78 stimulus package gradually diminish, and as Federal receipts show rapid gains because of income growth and payroll tax increases. While it is difficult to determine precisely when economic growth would slow, the underlying trends in the economy—together with the effects of fiscal policy—point clearly to a reduction in the pace of expansion later this year or early in 1979. Therefore, to ensure that the economy continues to grow at a satisfactory rate in 1979 and beyond, the Administration is proposing a \$25-billion tax cut for individuals and businesses to take effect in the fourth quarter of 1978.

ECONOMIC POLICY IN THE NEAR TERM

THE NEED FOR TAX REDUCTION

Personal consumption and housing have been the key sectors leading the economic recovery since 1975. In 1976 and early 1977 the personal saving rate fell well below its average over the past 20 years, and housing starts rose to more than 2 million units at an annual rate by the middle of last year. However, the saving rate has now returned to just under 6 percent and is expected to remain in this vicinity during 1978 and 1979. The boom in residential construction may also be reaching a peak, as interest rates are likely to be somewhat higher in 1978 than in 1977. Hence, these sectors cannot be counted on to sustain above-trend growth in total demand.

Both the foreign and the State and local sectors are currently withdrawing much more from the spending stream than they are returning to it. Our international current account balance is likely to remain in substantial deficit in the near term. Oil imports will continue at high levels over the next several years, and the economies of our major trading partners are expected to show only moderate improvement. In the State and local sector, budgetary surpluses have been rising as receipts have grown more rapidly than expenditures, particularly during the last 2 years. These surpluses are expected to decline gradually, but they will remain high—partly because a significant proportion is the result of secular growth in State and local employee pension funds.

The Federal sector would also have a restraining influence on the economy if there were no further adjustments in fiscal policy. Federal outlays are rising strongly in fiscal 1978, but the increase in fiscal 1979 will be small less than 2 percent in real terms. Moreover, the combination of higher payroll taxes and rising effective personal tax rates due to inflation and real growth will increase Federal receipts substantially in 1978 and 1979. Hence significant tax reductions are needed just to neutralize the fiscal restraint built into the Federal budget.

Finally, a major uncertainty in the near-term outlook concerns the behavior of business fixed investment. Strong and steady growth of capital spending is essential to continuation of satisfactory growth in aggregate demand and new productive capacity. But the performance of investment has been disappointing thus far in the recovery and plans for increased spending remain modest. In the absence of tax reductions, the usual strengthening of investment plans that takes place during an economic upswing might not occur.

THE ADMINISTRATION'S TAX PROPOSALS

There are three main components of the Administration's proposed tax reduction.

- 1. A \$17-billion net reduction in individual income taxes, effective October 1, 1978. Tax reduction is achieved by substituting a \$240 per capita credit for the existing \$750 personal exemption and the general tax credit, and by reducing personal tax rates.
- 2. A \$6-billion net tax reduction for businesses in the form of permanent rate cuts on corporate profits and a liberalization of the investment tax credit. The corporate tax rate would be lowered from 20 percent to 18 percent on the first \$25,000 of profits, from 22 percent to 20 percent on the next \$25,000, and from 48 percent to 45 percent on profits above \$50,000. These changes would take effect on October 1, 1978. There would be a further 1-percentage point reduction in the tax rate on corporate profits above \$50,000 on January 1, 1980, thereby lowering this rate to 44 percent. In addition, the 10-percent investment tax credit on investment in equipment would be made perma-

nent and extended to industrial and utility structures; the full 10-percent credit would be available for investment in specified pollution abatement facilities that also qualify for accelerated depreciation; and the investment credit could be used to offset 90 percent of tax liability in any one year. Except for the last proposal, these changes in the investment credit would become effective January 1, 1978.

A \$2-billion cut in payroll and excise taxes. The 4-percent telephone excise tax, already being phased out, would be repealed on October 1, 1978. In addition, the Federal unemployment insurance tax rate would be lowered from 0.7 percent to 0.5 percent on January 1, 1979.

The \$25 billion in tax reductions proposed by the Administration is net of \$9 billion in revenue-increasing reforms of the tax structure. The reform elements of the program are discussed in detail in Chapter 5 of this *Report*.

The proposed tax reductions, together with the projected increases in Federal expenditures and the effects of the 1977 tax cut, will result in a \$5-billion net increase in the high-employment Federal budget deficit between calendar years 1977 and 1979. The personal tax reduction will augment after-tax incomes of individuals and increase the demand for consumer goods. The strengthening of these markets will in turn improve the prospects for business investment spending. Moreover, the cut in corporate tax rates will increase cash flow of business enterprises, and the changes in the investment credit will directly lower the cost of new capital investment. The reduction in excise and payroll taxes will lead to a modest lowering of price levels, as well as providing fiscal stimulus.

MONETARY POLICY

Under current economic conditions, monetary and fiscal policy can reinforce each other in fostering stable economic growth and the increased rate of investment needed to avoid the emergence of capacity limitations in the future. Interest rates moved up early in 1978; a level of short-term interest rates moderately higher than in 1977 would be consistent with a normal cyclical expansion of demands for money and credit relative to supplies. If the rise in short-term interest rates is limited, long-term interest rates may change very little. The prospects for relatively stable long-term rates are greatly enhanced by the fact that supplies of both labor and capital are sufficiently ample to permit rising aggregate demand to be translated into real growth in output rather than a higher rate of inflation. The growth in monetary aggregates that will be consistent with this favorable interest rate environment will depend significantly on factors affecting velocity, which were discussed in Chapter 1.

THE OUTLOOK FOR 1978

Growth of real output during 1978 is expected to be in the $4\frac{1}{2}$ - to 5percent range if the proposed tax cut is approved by the Congress (Table 9). Expansion in the first half of the year will be sustained by higher spending for public service employment and public works programs and by larger than normal tax refunds. By midyear the effects of the jobs programs will have reached their peak, but consumer spending and business investment are expected to accelerate in the second half in response to the tax reduction.*

Measure	Unit	1977 IV 1	Forecast range 1978 IV	Percent change	
Real GNP	Billions of 1972 dollars 2	1, 361	1, 422 to 1, 429	4½ to 5	
Real personal consumption	do	876	914 to 918	434 to 434	
Real business fixed investment	do	130	139 to 141	7 to 8	
Real residential construction	do	60	59 to 61	-1 to 132	
Real government purchases	do	277	287 to 289	334 to 414	
Unemployment rate	Percent	6.6	6 to 634	(3)	
Consumer price index 4	1967 = 100	185	196 to 197	5¾ to 6¼	

TABLE 9.—Key economic measures, 1977-78 [Seasonally adjusted, except as noted]

¹ Preliminary

² Annual rates

³ Not applicable. ⁴ Not seasonally adjusted.

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

The rate of inflation is expected to be close to 6 percent in 1978. Food and fuel prices, which rose sharply in the first half of last year because of the severe winter weather, will contribute much less to the increase in prices this year. Continued slack in labor markets and the absence of a large number of significant collective bargaining settlements will help moderate the rate of increase in workers' average hourly earnings. On the other hand, federally mandated increases in labor costs will add about one-half percentage point to the price level during the year. Widespread cooperation with the President's program of deceleration would make it possible to reduce inflation to the lower end of the range shown in Table 9.

The projected growth of output this year should expand the number of jobs by about 23/4 million. The extent to which this increase in employment is translated into a reduction in the unemployment rate will, of course, depend on how rapidly the labor force grows. It is expected that labor force growth will remain relatively high, at a rate between $2\frac{1}{4}$ and $2\frac{1}{2}$ percent in 1978. The unemployment rate should decline by about one-half percentage point over the year.

BUSINESS FIXED INVESTMENT

Business fixed investment is expected to become a stronger force in the expansion of output during the course of 1978 as a consequence of the

^{*} Unless otherwise noted, growth rates in this chapter are measured from fourth quarter to fourth quarter.

stimulative effects of the proposed liberalization of the investment tax credit, and the reductions in personal and corporate income taxes. An increase of 7 to 8 percent in real terms is anticipated over the course of the year. The most recent Department of Commerce survey of plans for new plant and equipment expenditures indicates that investment spending in nominal terms will rise only 10 percent in 1978, year over year. However, if allowances are made for increases in capital goods prices of about $5\frac{1}{2}$ percent and for underestimates in the last two surveys, this survey would imply a real increase in spending for plant and equipment of 6 to 7 percent. The recent behavior of some important leading indicators of investment activity suggests a stronger investment performance than the plant and equipment survey does. Data on the value of new orders for nondefense capital goods, new plant and equipment projects started by manufacturers, and their new capital appropriations all show increases of 20 percent or more (annual rate) over the last half year.

As the dimensions of the energy program become more certain and the new tax proposals increasingly influence business expectations, it is anticipated that plans for plant and equipment outlays will be raised above their current levels.

GOVERNMENT DEMAND

Government purchases will be an important source of support to the expansion this year. In real terms, they are expected to rise about 4 percent. Though defense purchases in real terms were up last year and may rise further, the principal sources of strength this year will be in the Federal nondefense and State and local government areas. Nondefense Federal purchases (excluding Strategic Petroleum Reserve and Commodity Credit Corporation expenditures) are projected to rise 16 percent in current dollars. The real increase in these expenditures should also be large, though it may fall short of the level implied by the nominal projection.

State and local purchases will continue to rise rapidly in the first half of 1978, as Federal grants for local public works and employment programs in the 1977–78 stimulus package increase to their peak levels. Some slowing in the rate of expenditure growth may occur in the second half of 1978; but State and local operating surpluses are large, and these governmental units are therefore likely either to increase purchases or reduce taxes.

PERSONAL CONSUMPTION

Real disposable income will rise more than 5 percent during 1978, after allowing for the impact in the last quarter of the proposed reductions in personal taxes. However, since personal consumption does not fully reflect the impact of tax reductions for several quarters, the saving rate is likely to increase considerably in the fourth quarter. Consumption during the year should therefore grow somewhat more slowly than disposable income---increasing about $4\frac{1}{2}$ percent in real terms; but a strong upswing at year-end will continue into the first half of 1979. Real growth of demand for durable goods in 1978 will slow somewhat from the 73/4-percent rate of last year, and then strengthen again after the tax cuts.

Smaller projected food price increases in this year, together with generous worldwide supplies of natural and manmade fibers, suggest that price increases for nondurable goods will be modest in 1978. These developments will help stimulate an increase in demand for nondurable goods above the $3\frac{1}{2}$ percent of last year. The demand for heating services is expected to return to more normal levels this winter, a change that could also contribute to the growth of sales of both durable and nondurable goods.

HOUSING

Residential investment is expected to be relatively flat during the year at a level about 5 percent higher in real terms than the average of 1977. New housing units are currently being started at an annual rate of 2¼ million, including a record 1.6 million single-family units. Housing starts should remain at relatively high levels early in the year, but some reduction in single-family starts is expected by year-end. However, favorable demographic factors and relatively moderate changes in the availability of mortgage credit should limit the extent of any decline. Multifamily starts are expected to continue growing throughout the year, as the problems that have recently plagued this sector—low profitability caused in part by rent controls in some areas of the Northeast, and the legacy of overbuilding in other areas, particularly the South—are gradually overcome.

Two other components of residential investment are likely to rise significantly this year: additions and alterations to existing structures, and sales of mobile homes. Additions and alterations represent 14 percent of total residential investment and are responsive to sales of new and existing homes, which have risen about 50 percent since 1975. Mobile home shipments, which peaked at 575,900 in 1972 and declined to 212,700 in 1975, have recently been growing more strongly, reaching a rate of over 300,000 per year at the end of 1977. Further increases above this level are expected in 1978.

INVENTORIES

Production has responded promptly to changes in final sales in this expansion. Hence, except for moderate, unintended increases in nondurable goods inventories in each of the past two summers, the ratio of stocks to final sales in 1976 and 1977 was maintained at a fairly constant level, just under the historical average. Improved inventory monitoring techniques and short delivery lags due to excess capacity will be conducive to stable rates of inventory investment this year. However, accelerated final sales and a downturn in the rate of stockbuilding in the last quarter of 1977 will lead to an upswing of inventory investment in the first half of the year. This will be temporary, and the resulting stimulus is unlikely to be as large as that attributable to the restocking that occurred early in 1977. The rate of accumulation for all of 1978 is anticipated to average about 1 percent of real gross national product, or just sufficient to expand stocks in line with the growth of sales.

NET EXPORTS

The foreign sector is not expected to contribute significantly to the growth of output in 1978, but neither should it detract from the expansion as it has done in the past 2 years. Since approximately one-third of U.S. exports are capital goods, the generally weak performance of investment in other industrial economies has restrained the demand for U.S. exports. Though real growth in the economies of our major trading partners was disappointing in 1977, it should pick up somewhat this year and improve the prospects for U.S. exports. Growth outside the OECD area is also expected to show some acceleration this year, which should have a beneficial effect on our exports. In addition, there should be a resumption of growth in demand from countries such as Brazil and Mexico, where restrictive actions were taken in the last 2 years to reduce large trade deficits caused by the recession and oil price increases. Given these modest improvements in the world economy, U.S. merchandise exports, after adjustment for inflation, are expected to rise 4 to 5 percent in 1978.

Growth of imports should slow in 1978. Imports other than fuel rose more in 1977 than would have been forecast on the basis of historical relationships between imports and GNP, but this phenomenon is not expected to continue in 1978. The volume of U.S. oil imports should be unchanged this year, compared with a rise of 20 percent last year. Cold weather in the early months of 1977 and a buildup of petroleum inventories last summer contributed to the sharp rise of fuel imports in 1977, but these developments are unlikely to recur this year. Production of North Slope oil averaging about 1 million barrels a day, four times the output available last year, will also restrain the growth of petroleum imports in 1978. The decision of the oil-exporting countries to freeze prices will mean that the value of oil imports will show little change this year. The high level of oil imports will nevertheless continue to be an important factor in the United States' persistent foreign trade deficit.

LABOR FORCE AND EMPLOYMENT

The $4\frac{1}{2}$ - to 5-percent expansion of output should increase employment during the year by nearly 3 percent. Given the projected increase in the labor force of $2\frac{1}{4}$ to $2\frac{1}{2}$ percent, the unemployment rate should fall to a range of 6 to $6\frac{1}{4}$ percent by year-end. The projections for labor force participation rates of women and teenagers assume continued increases that are above previous historical trends, but somewhat below the unusually large increases of the past 2 years.

It should be noted that projections of labor force growth have not been very reliable in recent years. For example, the 3.1-percent increase in the labor force in 1977 was substantially larger than most estimates of a year ago. Consequently, unemployment rate forecasts can prove inaccurate even when projections for the growth of output and employment are correct.

INFLATION

Before allowing for the Administration's program for the deceleration of inflation, prices would be expected to rise this year at a rate of 6 percent or somewhat above—the underlying rate for the past $2\frac{1}{2}$ years. The underlying rate is measured by consumer prices excluding food and energy, and it parallels the difference between the rates of increase of productivity and compensation per hour worked. Average hourly earnings and productivity would rise this year by about 7¹/₄ and 2 percent respectively. However, total unit labor costs would rise by more than the $5\frac{1}{4}$ percent that these figures suggest, partly because privately negotiated fringe benefits are increasing more rapidly than basic wages, and partly because of government-mandated additions to payroll costs. The 15-percent step-up of the minimum wage to \$2.65 an hour, and the \$6 billion in higher payroll taxes for employers in 1978, will add about 1 percent to labor costs of the private sector. Total compensation per hour including fringes and employer payroll taxes would therefore rise about $8\frac{1}{2}$ percent in 1978, and unit labor costs by 6 to $6\frac{1}{2}$ percent.

A number of special factors will also influence the actual rise of prices in 1978. Implementation of the first stage of the crude oil equalization tax will add 0.2 percent to the aggregate price level at year-end. The recent decline in the value of the dollar in foreign exchange markets will also add to pressures on prices. On the other hand, highly competitive markets for many goods, caused by the weakness of economic recovery abroad and by generally low capacity utilization rates at home, will work against any acceleration of inflation. The food price outlook should also lead to moderation in the rate of inflation this year. Retail food prices rose by 73⁄4 percent last year, but are expected to increase in 1978 by less than the rise in prices of nonfood commodities and services. This deceleration will help to moderate the increase in the general price level, offsetting the effects of the mandated cost and price increases.

Ample grain stocks and depressed crop prices are currently stimulating pork and poultry production and hence will restrain retail price increases for these items. Large harvests of fruits and vegetables in the second half of last year should assure abundant supplies of these commodities through mid-1978. On the other hand, because cattle herds have been cut drastically and the cost of feed grains is extremely low, increased cattle feeding is likely. This should be reflected in reduced marketing of cattle and more rapid increases in retail prices for red meat in the second half of 1978.

The action of the oil-producing countries in not increasing the price of crude oil will provide modest additional restraint on inflation this year. Repeal of the Federal excise tax on telephone service in the last quarter of 1978 and the 0.2-percentage point reduction in the Federal unemployment insurance tax in January 1979 will also ease the pressure on prices next year.

The President's request to business and labor to cooperate in a voluntary program to decelerate wage and price increases, discussed in Chapter 4, is expected to help moderate the rate of inflation in 1978. With success of the program, the rate of price increase in 1978 could fall below the level of 6 percent or more that would otherwise occur.

INCOME AND SAVING FLOWS

The combination of $4\frac{1}{2}$ - to 5-percent real growth and about 6 percent inflation will cause nominal GNP to grow approximately 11 percent in 1978. Both personal income and corporate profits are expected to rise at about the same rate as GNP.

In the year ahead, the household sector will contribute an increased volume of saving to credit markets, while the growth of household credit demands should moderate. Personal saving will expand by approximately one-third as a result of the projected increase in after-tax income and an increase in the saving rate. Though part of this increased saving will be absorbed by home mortgage and consumer credit, growth in these uses of funds will be less than in 1977. Business credit needs will expand in 1978, but an adequate growth of profits should sustain the flow of internal funds. In the past 2 years gross internal funds have amounted to more than 75 percent of capital expenditures of nonfinancial corporate businesses.

Apart from the usual seasonal fluctuations, the Federal Government's net new issues of securities are likely to change very little between the latter half of 1977 and the first half of this year. Toward the end of 1978, however, new funds raised by the Federal Government will increase, since the decline in receipts resulting from the proposed tax reduction will be only partially offset by the growth of revenues that normally occurs in an expanding economy.

A greater volume of funds will flow through credit markets this year, primarily because the higher net household saving must be channeled to the debtor sectors to meet growing financial needs. As noted earlier, these increased credit flows are likely to be accompanied by a somewhat higher level of interest rates than in 1977, particularly on short-term securities. Given current economic prospects, however, there need not be large or unsettling changes in interest rates during 1978.

THE OUTLOOK FOR 1979

Forecasting more than a year ahead is a hazardous exercise, since uncertainties about probable economic developments grow with the passage of time. Nevertheless some general comments can be made about the likely state of the economy in 1979 and its response to the Administration's tax proposal.

The \$25-billion tax cut effective in October 1978 will provide the necessary impetus to extend the recovery into its fifth successive year. Business investment should be particularly strong in 1979, since capacity utilization rates will have risen further, and the effects of the tax cuts will have been incorporated into plans for plant and equipment expenditures. Consumer spending will be supported by the \$17-billion reduction in personal taxes. And there is likely to be a further reduction of State and local surpluses.

If the recovery proceeds along these lines, and there are no severe unexpected shocks, real output in 1979 should increase at about the same rate as in 1978—that is, by $4\frac{1}{2}$ to 5 percent. Moreover the unemployment rate should continue to decline to a range of $5\frac{1}{2}$ to 6 percent by year-end as a result of another $2\frac{3}{4}$ -million increase in the number of jobs.

Price forecasting beyond a year is even more difficult than projecting output. Before taking into account any effects of the Administration's deceleration program, the underlying rate of inflation would be close to 6 percent or slightly above in 1979. Government-mandated cost and price increases will be smaller than in 1978. The proposed repeal of the telephone excise tax and the reduction in the Federal unemployment insurance tax would also help restrain price increases.

On the negative side, there are other factors that could lead to stronger pressures on wages and prices in 1979. First, labor markets may tighten somewhat as a result of continued economic expansion, and this could increase the upward momentum of wages. Moreover, 1979 will also be a heavier year of collective bargaining: agreements covering $3\frac{1}{2}$ million workers will expire or will be open to negotiation in 1979, compared with agreements covering $1\frac{3}{4}$ million workers in 1978. Second, healthy domestic demand could push the manufacturing capacity utilization rate to higher levels by late 1979 and encourage firms to increase their profit margins by raising prices. The stronger growth of investment projected for late 1978 and 1979 should moderate the rise in utilization rates, however, and the availability of ample capacity abroad for production of most major materials should also act as a restraint on price increases above general cost trends.

Most important to the long-run improvement of inflation will be the cooperation of business and labor in the program of gradual deceleration of prices and wages. There must be a well-coordinated, good-faith effort on the part of both sides if progress is to be made in unwinding the inflationary pressures inherited from the past. Next year will pose a critical test for the new program because of the heavy calendar of collective bargaining and the fact that utilization rates for both labor and capital will have risen substantially.

POLICY REQUIREMENTS FOR THE LONGER TERM

Upon taking office in early 1977, this Administration set out specific objectives for economic growth and the reduction of unemployment. Putting these goals explicitly on the record serves the important purposes of informing the Congress and the public of the Administration's policy objectives and identifying the means by which they will be pursued. Setting explicit goals also disciplines the formulation and execution of policies, and creates a system of early warning signals for midcourse policy adjustments.

The Administration's longer-term goals for the domestic economy can be simply stated: steady progress toward the achievement of a high-employment economy, with the benefits shared widely by all major groups in society; principal reliance on growth in the private sector to promote economic expansion; and a gradual reduction in the rate of inflation. The President's budget for fiscal 1979 sets out annual projections for real gross national product, the unemployment rate, and the rate of inflation through 1983. For 1978 and 1979 these numbers represent the Administration's "best-guess" forecast and are consistent with the tax and spending policies proposed in the budget. Beyond 1979 they are not a forecast, but projections of the path of real output necessary to achieve steady reductions in the unemployment rate of about one-half percentage point per year.

Projections in the budget show real GNP reaching its potential by late 1981 and the unemployment rate dropping below 5 percent. If the economy is to achieve high employment by 1981, a sustained expansion of real output of nearly 5 percent a year will be required.

ACHIEVING THE U.S. ECONOMY'S POTENTIAL

Potential output is an estimate of what the economy could produce at high rates of utilization of the factors of production—labor, capital, and natural resources. The historical series for potential GNP was completely revised in the 1977 *Economic Report* by the previous Council of Economic Advisers, and the level in 1976 was lowered by 4 percent. There were two principal reasons for this downward revision. First, the rate of secular productivity growth implicit in the earlier estimates was substantially reduced. This change reflects the deceleration of productivity since the late 1960s. Second, the high-employment unemployment rate was adjusted for changes in the age-sex composition of the labor force. This benchmark unemployment rate is calculated to be 4.9 percent in 1977, compared with 4.0 percent in 1955 (Table 10). The present Council has reviewed the new estimates and concluded that they are a major improvement. Through additional research, the quality of our potential GNP estimates should continue to improve in the future.

For the next 4 years, real potential GNP is projected to grow at a rate between 3.3 percent and 3.8 percent per year, and to rise to between \$1,610 billion and \$1,640 billion in 1981 (Chart 3). The benchmark unemploy-

TABLE 10.—Potential gross national product and benchmark unemployment rate, 1952-77

Year	Potential GNP	Actual GNP	GNP gap (potential less actual)	Benchmark unemployment rate (percent)
1952	584. 9	598. 5	-13.6	4.0
1953	608. 2	621. 8	-13.6	4.0
1954	629. 7	613. 7	16.0	4.0
1955	651.4	654.8	3.4	4.0
1956	673.9	668.8	5.1	4.0
1957	697.2	680.9	16.3	4.0
1958	721.3	679.5	41.8	4.0
1959	746.2	720.4	25.8	4.1
1960	771. 9	736. 8	35. 1	4, 1
1961	798. 6	755. 3	43. 3	4, 1
1962	826. 4	799. 1	27. 3	4, 1
1963	857. 1	830. 7	26. 4	4, 2
1964	890, 3	874. 4	15. 9	4, 3
1965	925. 0	925.9	9	4.4
1966	960. 8	981.0	20.2	4.5
1967	996. 3	1,007.7	11.4	14.4
1968	1, 031. 7	1,051.8	20.1	4.4
1969	1, 068. 3	1,078.8	10.5	4.4
1970	1, 106. 2	1,075.3	30. 9	4.5
1971	1, 145. 5	1,107.5	38. 0	4.6
1972	1, 186. 1	1,171.1	15. 0	4.7
1973	1, 228. 2	1,235.0	6. 8	4.8
1974	1, 271. 7	1,217.8	53. 9	4.8
1975	1, 316. 9	1, 202. 1	114.8	4.8
	1, 363. 6	1, 274. 7	88.9	4.9
	1, 412. 0	2 1, 337. 6	2 74.4	4.9

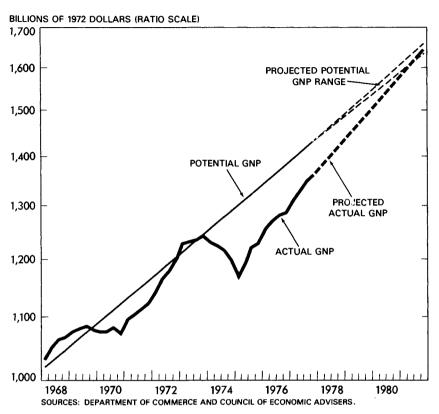
[Billions of 1972 dollars, except as noted]

¹ Shift in benchmark unemployment rate from 1966 to 1967 because of 1967 change in sampling procedure in the Current Population Survey.
² Preliminary.

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

ment rate associated with this range of potential GNP estimates would fall slightly from its current level to about 4.8 percent.

In addition to the usual uncertainties about the future, forecasts of potential GNP under current conditions are subject to a wide margin of error. The principal source of uncertainty in projecting potential output lies in estimates of productivity. The abrupt decline in the level of productivity in 1973-74, which is much larger than can be explained by cyclical factors, has not been reversed. Improvements in productivity since the recovery began early in 1975 have followed normal cyclical patterns: gains have exceeded long-term trend rates of growth, but have not been large enough to close the gap opened up by the 1973-74 recession. Future productivity growth will be strongly influenced by additions to the capital stock. Unless investment shows a marked acceleration in the next few years, the trend rate of productivity growth is unlikely to regain the pace of the 1950s and 1960s. If the recent modest increases in output per hour persist over the next 4 years, potential GNP growth will probably be nearer the low end of the projected range. On the other hand, if labor force participation should continue to rise at unusually rapid rates, as it did in 1977, or if productivity growth should resume its earlier pace, the rate of potential GNP growth would be closer to the upper end of the range.



Actual and Potential Gross National Product

LONG-RUN BUDGETARY STRATEGY

The Administration has frequently indicated its determination to maintain control over the growth of Federal expenditures, and to rely principally upon growth in the private sector as the major source of economic expansion in the years ahead. The share of Federal outlays in GNP during the past 3 years has been between 22 and 23 percent—well above the 18- to 21-percent share that characterized the previous two decades. In part, the higher share in recent years reflects the fact that GNP is still well below its potential level. But the increase is also a result of rapid growth in Federal transfer payments and grants to State and local governments during the last 10 years.

Decisions about the level and composition of Federal expenditures are particularly difficult. Many essential national goals—such as national defense, equal opportunities, a fair distribution of income, support for basic research, and preservation of natural resources—can only be reached through Federal programs. Government expenditures, however, are not subject to the discipline of the market place. Private markets are imperfect, but they do tend to encourage efficiency in the use of resources by rewarding firms that are most efficient and eventually weeding out those that cannot perform effectively. These market functions must be accomplished in government by budgetary planning that stresses careful choice of priorities and efficiency in the use of our Nation's scarce resources. Placing limits on the overall growth of Federal expenditures is an effective tool for maintaining such control.

This Administration, after careful review of national priorities, has concluded that the Federal Government can respond effectively and compassionately to the needs of the country within a carefully managed and closely controlled budget. The path of expenditures projected in the fiscal 1979 budget reflects this judgment. Budget outlays are projected to increase by less than 2 percent in real terms between fiscal 1978 and 1979. This restraint on expenditures is also carried into the future; over time, outlays will be steadily reduced to about 21 percent of GNP.

Managing the Federal budget to meet national needs, while gradually reducing the share of Federal outlays in GNP, has important implications for economic policy. If the course of Federal spending is determined by these principles, tax reductions then become an important device for maintaining a stable rate of growth in the private sector. Tax reductions work quickly to stimulate spending, and the effects tend to spread quite broadly over the various sectors of the economy. Moreover, they can be designed to emphasize either stimulus to consumer spending or growth of business investment, depending on the particular circumstances that prevail. Tax reductions are thus a powerful and flexible instrument of economic stabilization policy.

Over the course of the next several years, the amount of reduction in income taxes needed to keep the economy moving ahead steadily will depend on a variety of factors, including the course of monetary policy, the degree of drag from the foreign and State and local sectors, and the willingness of consumers and business to spend. It will also depend on other aspects of the Federal budget. Higher payroll taxes for social security and unemployment insurance are scheduled to take effect in 1978 and 1979, as shown in Table 11. In addition, inflation and economic growth will push individual taxpayers into higher tax brackets, raising the effective tax rate on personal income. The Administration's proposed reduction in personal income taxes would approximately offset the effects of these increases on individual tax payments. In 1977 the share of personal income absorbed by Federal personal taxes and the contributions of employees and the self-employed to the social security system was 14.3 percent. This share will show a small decline by 1979 if the Administration's tax proposals are enacted. Total Federal revenues as a percentage of GNP, on the other hand, will rise slightly over this period. The size of the new tax package, however, was not

TABLE 11.—Projected effects on Federal receipts of selected tax changes, national income and product accounts, calendar years 1978-81 1

Tax increases or reductions ²	1978	1979	1980	1981
Payroll tax increases	7.0	14. 9	15.0	29.6
Social security and unemployment insurance ³ Social Security Amendments of 1977	6.9 .1	7.5 7.4	5, 0 10, 0	8.9 20.7
Proposed tax reductions	6.9	27.4	27.9	29. 2
Individuals 4 Business 5 Unemployment insurance Telephone excise	4.1 2.4 0 .4	19.7 5.7 .8 1.2	18.9 7.2 .9 .9	21.0 6.7 1.0 .5

[Billions of dollars]

¹ All projections based on the path of GNP, incomes, and unemployment assumed in the Budget of the United States Government, Fiscal Year 1979.

Continuent, riscal real 1972. ² Entries are cumulative differences in tax levels above those that would prevail under 1977 tax rates. ³ Social security rate increases of 0.4 percent in 1978 and 0.5 percent in 1981. Increases due to automatic social security base changes are not included. Changes in unemployment insurance (UI) taxes are due to 1978 increase in the Federal taxable wage base, expanded coverage of the UI system, and estimated adjustments in effective State UI tax rates. ⁴ The amount of tax reduction for individuals shown here differs from the amount estimated by the Treasury on a liability basis. The principal reason for this is that the tax reduction provisions of the proposal would take effect on October 1, 1978, while the reform provisions would not take effect until January 1, 1979. Since withholding schedules would be adjusted in October 1978 to reflect the amount of net tax reduction, refunds would be required in 1979 to compensate for over-withholding in 1978. Refunds are treated in the national income and product accounts on a collections rather than a liability basis. basis. ⁵ Includes tax reductions for individuals due to changes in the investment tax credit.

Sources: Department of Health, Education, and Welfare, Department of Labor, Department of the Treasury, Office of Management and Budget, and Council of Economic Advisers.

designed to achieve a particular ratio of tax revenue to income, but to ensure satisfactory progress toward our economic goals. This requires taking into account a number of factors, including developments on the expenditure side of the Federal budget.

As noted in Chapter 1, the simplest measure of the total fiscal impact of the Federal sector on the economy is the change in the high-employment budget. As shown by the \$9-billion increase in the high-employment deficit in calendar 1978 (Table 12), the Administration's enacted and proposed tax

[Billions of dollars]								
Item	1977	1978	1979	1980	1981			
Receipts	401, 9	447.0	488.5	547.7	619.9			
Expenditures	419.8	473. 9	511.1	557.3	594. 8			
Surplus or deficit (—)	—17. 9	—26. 9	-22.6	— 9. 6	25, 1			

TABLE 12.—Projected high-employment Federal receipts and expenditures, national income and product accounts, calendar years 1977-81

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Sources: Department of Commerce (Bureau of Economic Analysis), Office of Management and Budget, and Council of Economic Advisers.

reductions, together with the expenditure path projected in the budget, result in a substantial net increase in fiscal stimulus. In 1979 the high-employment deficit declines slightly, indicating a moderately less expansive fiscal stance as the economy improves. Over the 2-year period 1977-79, the Federal budget provides \$5 billion of net fiscal stimulus. Beyond 1979, total

tax revenues would rise more rapidly than expenditures; and in the absence of additional tax reductions or changes in expenditure programs, a highemployment surplus of \$25.1 billion would exist by 1981 (Table 12 and Chart 4). The actual path of the high-employment budget after 1979 will, of course, depend on fiscal policy decisions yet to be made.

THE BUDGET AND THE ECONOMY OVER THE LONGER RUN

Whether the economy can actually achieve high employment in 1981 with a balanced Federal budget depends upon the strength of the non-Federal sectors of the economy. Our ability to forecast economic developments over a period of 4 years is, however, extremely limited. One alternative to developing an explicit economic forecast for 1981 is to examine the distribution of saving and investment by sector in past periods of high employment. For the economy as a whole, the net saving (excess of receipts over expenditures) in one or more sectors must be offset by net investment (excess of expenditures over receipts) in the remaining sectors. What one economic unit saves, another unit must invest. An analysis of how saving and investment might be distributed at high employment provides some insights about the prospects for balancing the budget over the next several years.

Chart 4

High-Employment Federal Surplus as Percent of High-Employment GNP

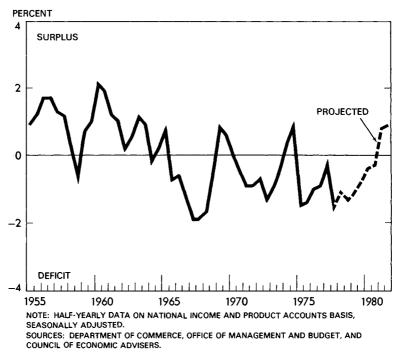


Table 13 shows net saving by major sectors of the economy in three past periods of relatively high employment and in 1977. Some interesting patterns emerge from these data.

First, net private saving in a high-employment economy has typically been rather small. Investment in plant, equipment, and inventories by businesses, together with investment in new residences, is generally about equal to total saving by individuals and business enterprises.

TABLE	13Net	saving	by	sector,	nation a l	income	and	product	accounts,	selected
			•	calen	dar years	, 1955–2	77	-		

Sector	1955–56 average	1965–66 average	1972–73 average	1977 ¹	
Non-Federal sectors	5. 2	0.6	12.0	49.6	
Private sector	-3.5	3, 3	-6.6	1.4	
Personal Business ²	17.3 20.7	31.6 -28.3	59. 8 66. 4	67.8 66.4	
Other sectors	-1.8	-2.7	18. 5	48. 3	
State and local government Foreign ³	-1.1 7	_2.9	13. 4 5. 2	29. 2 19. 1	
Federal sector	5.2	0.6	-12.0	-49.6	

[Billions of dollars]

¹ Preliminary.

² Corporate and noncorporate business saving, plus the statistical discrepancy, less gross private domestic investment. ³ Net capital grants received by the United States less net foreign investment.

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

Second, in 1955–56 and again in 1965–66, the total net saving attributable to State and local governments and the foreign sector was also near zero. As a result, in these periods a Federal budget that was approximately in balance was consistent with a high-employment economy. Indeed, 1965– 66 was a period in which real GNP was above its potential level and pressures on prices were mounting. In this situation a surplus in the Federal budget would have been appropriate.

Third, in recent years the aggregate net saving by State and local governments and the foreign sector has become very large. In 1977, net private saving was again near zero, but a Federal deficit of nearly \$50 billion was required to counterbalance the aggregate surpluses of State and local governments and the excess of receipts over expenditures stemming from our international trade and payments. Since economic activity in 1977 was well below its potential, an even larger Federal deficit would have existed in a high-employment economy last year, given the substantial volume of net saving in the non-Federal sectors.

The trend toward significant positive net saving by State and local governments developed in the early 1970s, when the secularly rising surpluses in their employee retirement accounts began to dominate their aggregate budget positions. In addition, surpluses in their operating accounts (exclusive of the social insurance trust funds) have risen sharply in the last 2 years as a result of rapid increases in Federal grants, growth in tax receipts from economic recovery, and slow growth in expenditures. Economic and demographic factors are such that continued growth of the trust fund surpluses in the foresceable future may be expected. Moreover, a sudden reversal of the conservative budgetary policies in evidence since the last recession is unlikely, so that operating surpluses of State and local governments will decline slowly. Hence, the restraint on the economy resulting from net saving in this sector will persist, though it will probably diminish somewhat over the next few years.

The excess of receipts over expenditures in the foreign sector stems principally from two sources: the continuing heavy dependence of the United States on foreign sources of energy, and differences in the pace of economic expansion at home and abroad that have resulted in a much more rapid increase in nonfuel imports than exports. The National Energy Plan, discussed in Chapter 5, is designed in part to reduce the outflow of dollars, but the reduction will require a period of years. The growth rate differentials between the United States and its major trading partners have persisted since the last recession, and they became especially pronounced last year. These differentials are expected to narrow in 1978 as recovery abroad improves. Recent alignments of exchange rates and the steps announced by Japan to reduce its current account surplus should also help reduce our deficit. However, while some improvement in our external balance may be forthcoming, the foreign sector is very likely to continue to act as a net drain on U.S. income for some years.

Whether we can reduce the Federal deficit to zero by 1981 and still achieve a high-employment economy will depend on how sectoral savinginvestment balances change over the next few years—something that cannot be known with certainty at present. Developments in a variety of areas including monetary policy, fiscal behavior of State and local governments, oil prices, growth rates of the economies of our major trading partners, and foreign trade policies of other countries—will influence the outcome. As the figures in Table 13 indicate, rather marked shifts in net saving by the non-Federal sectors would be required to reach high employment with a balanced budget in 1981. Recognizing that fact means that we must stand ready to provide additional tax reductions if they are needed to keep the pace of economic activity advancing strongly. Should further cuts of significant size prove necessary, the return to a balanced budget would have to be postponed until after 1981.

These fiscal policy decisions for the longer term should not be made at this time. If developments are favorable—if business capital spending grows fast enough to generate significant net investment in the private sector, if State and local surpluses diminish substantially, if the foreign sector deficit improves materially—the need for further tax reductions to sustain continued economic expansion would be greatly reduced. Developments in these areas would be difficult to predict. Responsible budgetary policy must retain the flexibility to cope with a range of outcomes.

THE ROLE OF MONEY AND CREDIT IN REACHING HIGH EMPLOYMENT

As noted above, the amount of fiscal stimulus required over the next few years will be significantly influenced by the pace of investment in business plant and equipment and in housing.

Investment in business plant and equipment will only be undertaken if rates of return on these assets are favorable in relation to the cost of financing and the returns from alternative financial investments. Among the determinants of business fixed investment discussed in Chapter 1, the rental price of capital services and the ratio of market valuation to the replacement cost of capital assets are the most directly affected by monetary policy, and they are a principal channel through which monetary developments are linked to the real sector of the economy. Monetary policy directly affects the interest rates on short-term and highly liquid obligations, such as Federal funds, Treasury bills, and commercial paper. The rates of return on longer-term debt instruments and equities vary in relation to each other and to short-term interest rates, depending on cyclical developments, inflation, and expectations about the future. Nevertheless these rates tend to infiuence each other because of the opportunities for both lenders and borrowers to shift their holdings among different types and maturities of financial instruments (Chart 5). Monetary policy, through its direct impact on interest rates for short-term obligations, can influence, but not determine, the cost of financing business investment and hence affect its growth in the years to come.

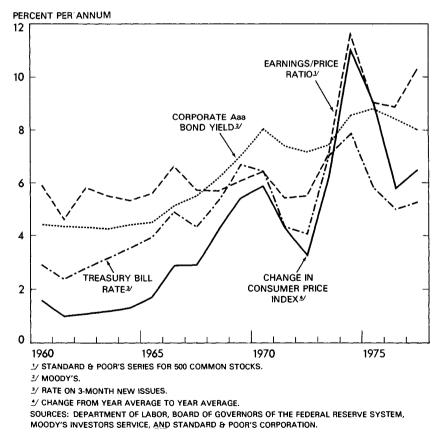
Monetary policy is also important for the housing sector. Residential construction is highly sensitive to financial conditions—both on the demand side through the mortgage market and on the supply side through construction loans to builders. For the average buyer of a single-family home, the purchase price is about 2 times income. For such a family, an increase of 1 percentage point in mortgage rates would raise the share of income committed to interest payments by about $1\frac{1}{2}$ percent. Hence the state of financial markets will significantly influence the demand for housing and the pace of residential construction.

Maintenance of a financial environment conducive to significant increases in investment during a prolonged period of economic expansion is a difficult task, and will require an appropriate balance between monetary and fiscal policy; but it is not without precedent. Between 1960 and 1965, real output grew at a fairly steady rate from a level about 5 percent below potential to a level that was approximately equal to potential. Fiscal policy was stimulative throughout this period, and monetary policy was supportive. The inflation rate was very moderate—1.3 percent per year during the period—and interest rates were quite stable; the short-term Treasury bill rate rose only 1.02 percentage points during the entire period, while rates on long-term Treasury bonds rose only 0.1 percentage point. This pattern of interest rates was associated with growth in the money supply (M_1) at an average annual rate of 3.5 percent, so that velocity grew about $3\frac{1}{2}$ percent per year, a rate slightly above postwar trends.

Careful management of economic policy will be necessary to reach and maintain high employment in the years ahead. At the present time there are still ample supplies of idle labor and capital resources available. In the period immediatey ahead, growth in real output can therefore proceed at a rate above its long-term trend without risking a resurgence of demand-induced inflation. But fiscal and monetary policies should not attempt to close the remaining output gap at an excessively rapid pace, since this could lead to an unbalanced and unsustainable pattern of recovery. And

Chart 5

Rates of Interest or Return and the Rate of Inflation



as the economy approaches its potential, macroeconomic policies must adjust in order to avoid the creation of excess aggregate demand.

The inflation problem for the immediate future does not stem from excess aggregate demand, but from the momentum of inflation inherited from the past. An inflation rate in the 6- to $6\frac{1}{2}$ -percent range is a serious problem and it needs to be lowered while slack remains in the economy. When higher rates of inflation become built into the expectations of the public, however, the process of unwinding the inflationary momentum is a slow and arduous task and one that is only partially amenable to the tools of demand management. If the anti-inflation proposal by the President is widely supported and succeeds in lowering inflation rates, gradually slower growth of the monetary aggregates will be consistent with a strong and healthy economic expansion. Efforts to hasten the process of reducing this inherited inflation rate through restrictive fiscal and monetary policies would, however, be unproductive. Such measures would result mainly in a slowing of real growth rather than a reduction in the rate of price increase.

ECONOMIC GOALS BEYOND 1981

The projections in the budget show the unemployment rate continuing to decline to 4 percent in 1983, in line with the targets embodied in the proposed Full Employment and Balanced Growth Act. A primary objective of this legislative proposal (popularly called the Humphrey-Hawkins bill) is to modify and extend the general principles enunciated in the Employment Act of 1946. That act, which also established the Council of Economic Advisers and requires the President to submit an annual Economic Report, gave the Federal Government the responsibility for promoting high levels of employment and output. It established broad economic objectives that have served as useful guidelines for the formulation of macroeconomic policy during the past 30 years. However, the economy has changed in many respects since 1946; the task of making economic policy has become more complex; and the standards for acceptable economic performance have been raised. The Administration therefore believes that an updating of the Employment Act of 1946 is appropriate to deal with the changing economic environment and a new set of policy requirements.

The Full Employment and Balanced Growth Act would require the President to enunciate explicit short-term (2-year) goals and to recommend the fiscal policies necessary to achieve them. It would also require the President to set forth intermediate-term (5-year) goals each year and to present projections of Federal receipts and outlays consistent with them. The target for the overall unemployment rate in 1983, assuming the bill is enacted in 1978, would be 4 percent.

The bill would for the first time explicitly establish the goal of reasonable price stability as a high priority objective of national policy. Moreover it directs the President to pursue this goal by a variety of measures: an earlywarning system to detect emerging capacity problems, stockpiling of agricultural commodities and other critical raw materials to dampen price fluctuations, regulatory reform, vigorous enforcement of the antitrust laws, and the promotion of labor-management cooperation in efforts to boost productivity.

Though the bill sets ambitious economic goals, it is designed to achieve a careful balance among various competing objectives. The potential conflict between low rates of unemployment and inflation is implicitly recognized, and flexibility is retained to adjust the economic strategy. In the third *Economic Report* after passage of the bill, and in any subsequent ones, the President may modify the numerical unemployment goal contained in the bill, or the timetable for achieving it, if he finds such changes necessary.

In recognition of the fact that macroeconomic policies alone are not able to reduce unemployment to acceptable levels, the President is directed to develop, as appropriate, supplementary employment programs to help achieve the long-run unemployment target. There is no requirement that any specific programs be introduced, but those recommended to the President for his consideration include the following: countercyclical employment programs, including public works projects, countercyclical public service employment, and countercyclical revenue sharing; regional and structural employment policies designed to reduce unemployment among specific demographic groups and within depressed geographic areas; youth employment programs; job training and counseling programs to prepare persons for employment in the private sector; and finally, establishment of such additional public or private nonprofit employment projects as are needed to meet the long-term target for the unemployment rate. These additional projects may be created only after an official finding by the President that all other means of reducing unemployment are insufficient. Any new programs would require authorization and funding by the Congress.

The bill requires the Congress to evaluate the President's economic strategy and adopt its own set of goals and policies, which may or may not coincide with those of the President. The Federal Reserve would be required to submit its own plan for monetary policy to the Congress and to explain the relationship between its intended policies and the President's short-term goals. These procedures for establishing and reviewing goals and policies are designed to achieve a better coordination of the actions of the President, the Congress, and the Federal Reserve, and to produce a more coherent set of macroeconomic policies.

The procedures established by the Full Employment and Balanced Growth Act are an important advance beyond the Employment Act of 1946. The bill does not authorize massive new Federal programs. Nor does it impose controls on the economy or create additional governmental institutions. On the contrary, it reaffirms the critical importance of a healthy and dynamic private sector in achieving our long-term goals, and it relies on existing institutions to improve the formulation and coordination of economic policy. While this new framework cannot guarantee a return to full employment and price stability, it should help identify the most serious obstacles and point the way toward rational solutions.

A 4-percent rate of unemployment in 1983 is a very ambitious objective, for it would imply that actual GNP would exceed our present estimates of potential GNP. The major unanswered question regarding this target is whether it can be achieved without creating pressures in labor and product markets that would touch off a new round of inflation. Given the present structure of these markets, it is unlikely that a 4-percent unemployment rate could be achieved through aggregate demand policies alone without at the same time causing a significant increase in the rate of inflation. Responsible policy, however, requires not that we abandon efforts to reach the 1983 unemployment goal, but that we work steadily to reduce the conflict between low unemployment and inflation by developing structural measures to improve the functioning of markets. Chapter 4 discusses in some detail the role of such policies in improving the efficiency of labor markets.

CHAPTER 3

The World Economy-a Hesitant Recovery

THE WORLD ECONOMY in 1977 continued to feel the aftershocks of the 1972–75 period: output remained well below productive potential while unemployment reached new peaks in many countries, inflation continued at high levels, and unusually large imbalances in current accounts persisted. These are problems that are likely to continue to command the attention of policy makers in the coming year. Economic growth in the United States was stronger than that in industrial countries abroad. This difference in growth rates and strongly rising oil imports contributed to the emergence of an unprecedented U.S. deficit on current account transactions. Concern over the U.S. deficit was a major factor leading to a substantial depreciation of the dollar against many foreign currencies, which was especially rapid toward the end of the year.

This chapter focuses on the causes of the hesitant recovery of the world economy from the 1974-75 recession, and on the challenge to the conduct of national economic policies that it represents. Developments in the world economy over the past 5 years are assessed. Then a closer look is taken at developments in 1977-concentrating on the largest foreign industrial countries, which along with the United States set the pace for the world economy as a whole. Finally, the major continuing problems in the world economy that grew out of the disturbances in the first half of the 1970s are assessed, and the Administration's approach to these problems is set forth. Thus the discussion is not a complete catalog of world economic problems or of U.S. international economic policies. One important omission is the long-standing challenge to raise incomes in the poorer countries. U.S. programs specifically directed toward this goal are not examined. Nevertheless, solutions to the problems that are examined--hesitant world recovery, imbalanced international payments, volatile commodity prices, and slow growth of world trade-are crucial to the success of development programs.

ORIGINS OF THE CURRENT WORLD ECONOMIC DISORDER

Although individual countries have from time to time faced conditions similar to today's, the combination of prolonged inflation along with unemployment in many countries and large current account imbalances is a new experience. A first step toward developing policies to deal with the present constellation of problems is to study how they arose and to sort out what has changed in the world economy and what has not.

The period from the late 1940s to the late 1960s counts as one of the most successful periods of modern world economic history. Successive steps were taken to liberalize world trade. Real incomes in Western Europe grew at an average rate of 4.6 percent between 1955 and 1970. The economy of Japan grew an average of 9.5 percent per year as that economy joined the front ranks of the industrial economies. Major economic gains were also made in many developing countries, and growth in this group averaged 5.1 percent per year. Problems with inflation and with international payments tended to be isolated in individual countries and were tractable. Consumer price increases in the group of developed countries making up the Organization for Economic Cooperation and Development (OECD) were brought under increasingly better control and averaged only 2.6 percent per year from 1961 to 1966.

During the late 1960s problems began to appear. Inflationary tendencies gradually developed as labor and product markets tightened in some countries and wage pressures increased even in economies that appeared to have some slack. The mild recessions that occurred in various countries seemed less able to eliminate the inflationary momentum that had built up in the preceding expansions. In addition, the mechanisms of the Bretton Woods system of par value exchange rates were increasingly unsuited to deal with the imbalances that arose in countries' payments positions. Although these developments posed serious puzzles for policy makers in the late 1960s and early 1970s, the problems seemed manageable. In retrospect, they were dwarfed by later events.

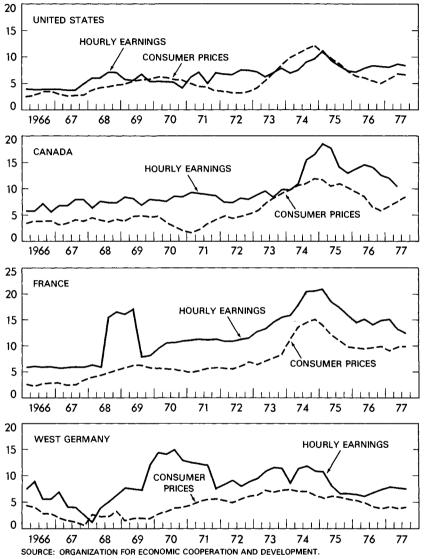
INFLATION

The slow upward drift of inflation rates in the late 1960s quickened after 1971, carrying inflation in most industrial countries above 10 percent per year in 1974 and more than twice that high in some countries. Although inflation rates have since receded, they remain well above those previously experienced, and further declines are now coming only slowly in most countries (Chart 6).

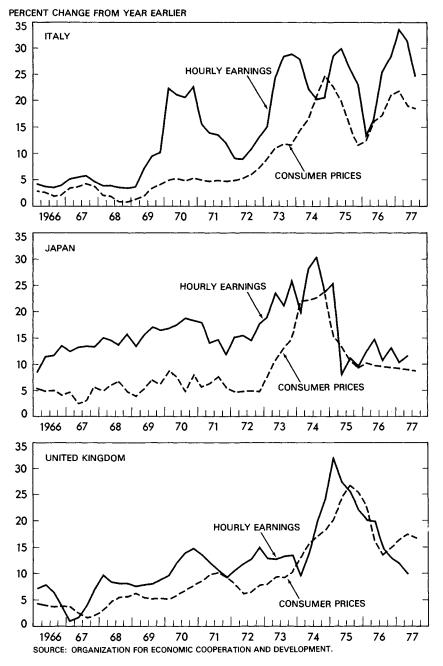
The upward movement of inflation rates was the consequence of a series of events that culminated with the oil embargo and oil price increases of late 1973. Economic policies in virtually all industrial countries were oriented toward expansion in 1972. As a result, growth was strong virtually everywhere that year and the next year. Although aggregate capacity utilization and unemployment data indicate that demand had been pushed beyond potential output in only a few national economies, the nearly simultaneous expansions outran available supplies of many raw materials and strained worldwide capacity in a number of basic industries. Industrial commodity prices climbed rapidly. The nonfood component of *The Economist* index of

Consumer Prices and Hourly Earnings in Major Industrial Countries









Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis commodity prices (measured in dollars and excluding petroleum) rose 158.5 percent from December 1971 to December 1973. Less than one-twentieth of this increase can be attributed directly to the depreciation of the dollar in the early 1970s.

Grain prices also began to rise following declines in world harvests of wheat, corn, and rice in 1972 from year-earlier levels. World grain stocks (held mainly in the United States) had been whittled down from mid-1960s levels, so that poor harvests had a greater effect on prices than earlier. The food component of *The Economist* index rose 142.5 percent from December 1971 to December 1973.

Prices of manufactures also began to move up at a faster clip in 1973, reflecting higher input costs and strong demand. Consumer price increases in the large countries ranged from 7.3 percent in Germany to 15.0 percent in Japan over the 4 quarters ending in the fourth quarter of 1973. Wage pressures built up steadily in most countries. Trends in consumer prices and hourly earnings for the seven largest industrial countries are shown in Chart 6.

Although inflation rose in all countries during this period, there was considerable divergence of inflationary experience across countries. This divergence partly reflected differences in demand pressure and the extent and speed of wage responses to increases in the cost of living. The exchange rate realignments that began in 1971 also contributed to widening differences in inflation rates. Countries that had recorded above average inflation in the years up to 1971 and consequently experienced declines in their currencies faced additional inflationary pressure from rising import prices. Countries whose prices had been more stable, and whose currencies therefore tended to appreciate, received a dividend from slower import price increases. The shift to flexible rates among major currencies over the 1971–73 period also provided countries with more freedom to pursue policies with different consequences for inflation.

Inflation was already recognized as a serious problem in late 1973, when the world was surprised by the Arab oil embargo and a series of oil price increases that more than quadrupled the 1972 world price of crude oil. Of all the shocks of the early 1970s, the oil price increases have had the most profound and persistent effects. The direct effect alone added about $1\frac{1}{2}$ percent to the price level in developed countries in 1974. Prices of substitute fuels were also bid up, thus further increasing price levels.

Coming at a time when upward price pressures were already intensifying, the oil price increases touched off an inflationary chain reaction. Fears that those who controlled supplies of other raw materials might succeed in emulating the Organization of Petroleum Exporting Countries (OPEC), speculation fed by fluctuations in exchange rates for major currencies, and a very tight supply situation led to another burst of industrial commodity price increases. With stocks of grains having already reached very low levels, a second poor world harvest in 1974 contributed to further large increases in food prices.

The rise in oil, food, and other commodity prices reduced real incomes from wages and profits in manufacturing and service sectors. Attempts by workers and firms to restore previous positions put added upward pressure on wages and prices. The extent of these secondary wage-price forces varied with conditions in individual economies. Where automatic wage adjustments to compensate for consumer price rises were widespread, as in Italy or the United Kingdom, or where wages were adjusted annually, as in Japan, the pressures were greatest. Average increases in hourly earnings over 12-month periods reached 30 percent or more in these countries. Even in Germany, where wage pressures were more moderate, increases in hourly earnings approached 12 percent over a 12-month period.

The direct upward pressures from commodity prices abated as the world moved into recession in late 1974 and early 1975. Indeed, most non-oil commodity prices moved sharply downward. As a result, inflation rates receded, but the wage-price momentum that had been built into economies sustained rates of consumer price increase that continued to be roughly double what they had been in the late 1960s. In some countries such as Italy, the upward shift in the ongoing rate of price increase was substantially greater. The persistent high unemployment and low capacity utilization in the world since 1975 has had a relatively small effect in dissipating the momentum of the wage-price spiral.

CURRENT ACCOUNT IMBALANCES

The oil price increases of 1973 led to huge surpluses in the current accounts of most OPEC countries, and to their mirror image—large deficits—elsewhere. The OPEC countries could not immediately increase their imports to match their higher revenues. Hence their combined current account surplus, which measures the amount by which export receipts (including investment earnings) exceed payments for imports and net transfer payments, climbed from less than \$10 billion in 1973 to over \$60 billion in 1974. A large part of the corresponding shift in the position of the rest of the world was seen in the emergence of a combined deficit of more than \$30 billion in the OECD countries, including the United States, after surpluses averaging \$4.3 billion for 1971–73. The deficit of the non-OPEC developing countries widened to about \$25 billion, from an average of \$8 billion in 1971–73 (Table 14).

After being compressed by reduced oil consumption during the recession of 1975, the combined OPEC surplus expanded to the neighborhood of \$40 billion in 1976 and 1977 as demand for oil picked up again. This surplus has become concentrated in the Persian Gulf states, whose revenues continue to outstrip their ability to absorb goods and services. The deficit of the non-OPEC developing countries has receded from a peak of \$40 billion in 1975 to less than \$25 billion in 1977, while the deficit in the OECD countries has risen to more than \$30 billion again.

Area and country	1973	1974	1975	1976	1977 ²		
0ECD	2. 8	-32.8	-6.3	26. 5	- 32		
United States Canada Japan European Community West Germany	4 .0 1 1.7 4.3	3 -2.3 -1.5 -4.7 -11.3 9.7	11.6 -4.7 7 .7 3.8	-1.4 -4.2 3.7 -7.8 3.4	-18 -4 10		
Developing countries:							
OPEC Non-OPEC	9.0 8.0	61.8 24.5	30.8 40.0	42.3 -26.3	40 —23		
Other 4	-5.5	9.8	-18.0	-13.3	-11		
Residual ⁸	1.7	5.3	33.5	23.8	26		

TABLE 14.-World current account patterns, 1973-77¹

[Ritlians of ILS_dollars]

1 Data are on the OECD basis. ² Preliminary estimates.

Freimmary estimates.
 Excludes cancellation of Indian debt (--\$2.0 billion) and extraordinary grants (-\$0.7 billion).
 Includes the Communist countries, South Africa, and non-OECD Europe.
 Residual arises from timing differences and inconsistencies in nationally collected data.

Source: Organization for Economic Cooperation and Development (OECD).

RECESSION

The massive increase in commodity prices-especially oil-led directly and indirectly to the worst recession since the 1930s. The direct effects were the result of a transfer from consumer incomes in the industrial countries to the revenues of oil-exporting countries. Spending generally declined in importing countries in response to the change in real incomes, while the OPEC countries increased their spending only slowly at first. Even after the OPEC countries made the initial adjustment of their spending to their increased wealth, their saving remained high. The result was a massive change in world saving patterns, as is dramatically shown in Table 14 by the pattern of current accounts in 1974. The change became increasingly evident as the total real gross national product (GNP) of the seven largest OECD countries fell at an increasingly rapid rate starting in the first half of 1974.

Two less direct responses added to the contractionary impetus of the price increases. First, consumers and business became progressively more pessimistic as 1974 wore on. There were extraordinary rises in saving rates in all major foreign countries, while sharp declines in real investment occurred in most areas.

A second depressing effect came in the reactions of policy makers. Virtually every country was faced with the dilemma of how to respond to the simultaneously inflationary and contractionary effects of the oil price rise. On the one hand, there was widespread reluctance to accommodate the inflationary effects by allowing nominal demand to grow at a sufficient pace to keep unemployment from rising. Many felt that such an accommodative policy would allow the new wage-price spiral to continue unchecked. On the other hand, most analysts perceived that a continuation of restrictive policies—initiated to counter the tight markets in 1973—would lead to a sharp decline in real incomes and to a serious contraction.

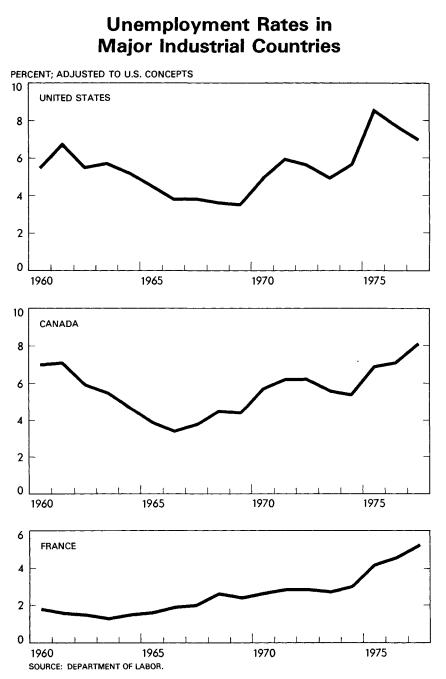
Faced with this dilemma, countries chose different routes. The predominant response was to continue the restrictive policies initiated in 1973 into 1974. When the full contractionary force of the oil price increase was not felt immediately, monetary policy in some countries was made even more restrictive. Fiscal policy automatically became more restrictive when inflation raised tax liabilities by pushing individuals into higher personal income tax brackets and caused real corporate profits to be overstated.

By late 1974 the cumulative effects of the oil price increases and contractionary monetary and fiscal policies began to be felt more strongly. Rising saving rates added to contractionary forces as consumers became more cautious. Real investment fell with firms' growing concerns about the outlook for sales, high interest rates, and the structure of their balance sheets. Firms also moved to reduce inventories of materials that had been built up as a hedge against further commodity price increases. The combination of these forces produced the deepest recessions of the postwar period. Those few countries that were less affected by the oil price increase, like Canada, or that moved to counter its contractionary effects, like Sweden, had milder recessions. They were seriously affected by the subsequent prolonged period of weak demand in other industrial countries, however. Governments in these countries also ultimately adopted more restrictive policies to control inflation.

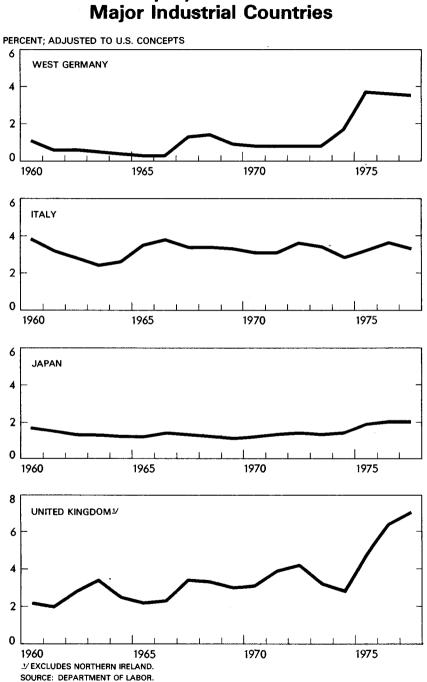
In 1975 authorities in most countries moved to counter their deepening recessions with expansionary fiscal policies. The view that increased rates of monetary expansion would raise inflationary expectations even under depressed conditions inhibited most countries from taking similar steps on the monetary side. The expansionary fiscal measures and the completion of inventory adjustments provided an initial burst of growth in most countries after the trough was passed. Since then real private spending has been relatively sluggish in most countries, and fiscal policies have become more restrictive. Hence output growth in industrial countries has slowed markedly outside the United States. Unemployment rates in most foreign countries now stand at or above the levels reached in 1975 and are rising (Chart 7).

THE WORLD ECONOMY IN 1977

Outside the United States, the major industrial countries virtually stagnated after the first quarter of 1977 (Table 15). Growth in the smaller industrial countries averaged even less than in the larger ones. Unemployment reached new highs in many countries. Commodity prices surged upward at the beginning of 1977, but the rise was short lived. Wage increases were smaller than a year earlier, and the momentum of inflation edged slowly downward. Sharply declining prices for food and many industrial commodities helped to bring inflation rates below underlying rates for most of the second half of the year.



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Unemployment Rates in Major Industrial Countries

TABLE 15.-Real GNP growth in major industrial countries, 1976-77

Country	1976				1977		
	1		ш	١٧	1	11	1
United States Canada France ² West Germany Italy ³ Japan United Kingdom ³	8.8 13.3 7.4 8.9 10.0 12.0 10.8	5. 1 3. 6 4. 9 4. 0 5. 5 6. 0 -2. 2	3.9 1.3 1.6 1.0 1.0 1.6 .7	1. 2 8 1. 6 5. 8 7. 6 3. 4 3. 7	7.5 7.8 8.8 3.9 7.5 8.8 3.6	6, 2 -1, 2 -5, 1 -, 8 -9, 9 6, 8 , 4	5. 1 5. 3 .9

[Percent change at seasonally adjusted annual rate]

¹ Preliminary. ² Gross domestic product excluding nonmarket activity such as compensation of employees in the government sector. ³ Gross domestic product.

Source: Department of Commerce (Bureau of Economic Analysis), Organization for Economic Cooperation and Development, and national sources.

As inflationary fears receded, current account imbalances became the most serious constraint on expansion in many economies. Persian Gulf oil producers and several industrial countries continued to have large surpluses. Other governments were inhibited from adopting the more stimulative economic policies that were needed to restore the momentum of economic expansion, in part because of concerns that they would be unable to finance the larger current account deficits that would result. The emergence of a large current account deficit in the United States in 1977 was associated with some improvement in the positions of industrial and developing countries that had been hard pressed in 1976, but more than one-third of the U.S. deficit was offset by a jump in the surplus of Japan.

AGGREGATE REAL GROWTH

The growth of real economic activity in 1977 was disappointingespecially in Western Europe. Real output in OECD Europe increased only an estimated 2 percent. By the third quarter, the number of unemployed in these countries excluding Portugal and Turkey stood at about 7 million, or 900,000 above the figure a year earlier. This performance was, in part, the consequence of the restrictive policies adopted by a number of countries as a means of slowing inflation and reducing current account deficits. Italy and the United Kingdom accepted restrictions on their economic policies as part of the establishment of standby credits with the International Monetary Fund (IMF). Other countries-France, many smaller industrial countries, and many developing nations-also assigned high priority to reducing inflation and current account deficits, and maintained or adopted restrictive monetary and fiscal policies in 1977.

Because of the constraints on policies felt by many governments, hopes for sustaining a global recovery in 1977 were pinned to a group of "strong countries," those with relatively moderate inflation rates and favorable balance of payments positions. The United States, Germany, and Japan were the major states in this group, but Switzerland and the Netherlands also fit the description. The United States was in a somewhat different position from the others in that it had moved to approximate current account balance in 1976. A deficit was seen as an acceptable position for the United States and, given the continuing OPEC surplus, even a desirable one from a global standpoint. It was expected that the other strong countries would also move toward and into current account deficit.

For world growth to be maintained at a satisfactory rate, it was necessary that growth in domestic demand in these strong countries be vigorous, thereby counteracting the restrictive measures taken in the "policyconstrained" countries. Reduction of current account deficits in the policyconstrained countries would be facilitated by such a strategy, and these countries would soon be able to move back to quicker recoveries.

A comparison of major countries' publicly announced forecasts for 1977 with what now appears the likely outcome (Table 16) shows that, except for the United States, countries have fallen below their governments' growth expectations. Germany has probably fallen 2 to $2\frac{1}{2}$ percentage points short of the $4\frac{1}{2}$ to 5 percent growth rate discussed early in the year. German authorities had counted on strong private demand at home and growing exports to achieve satisfactory growth. Investment and exports did not rise as much as expected, however, and the government budget deficit was smaller than projected. As a result, output growth stalled after the first quarter. The government responded by postponing measures intended to reduce the public sector deficit and by adopting a small fiscal stimulus package in November. However, the package came too late to affect the outcome for 1977.

The Japanese announced a growth target of 6.7 percent for the fiscal year ending in March 1978. Although the Japanese economy fell well behind the pace needed to achieve this, stimulative measures adopted in September and a second set of measures taken at the end of the calendar year will make the gap less than it would have been. Japanese GNP growth was supported mainly by strong exports. Domestic demand expanded at an average rate of less than 4 percent for the first 3 quarters of calendar year 1977. Thus the pattern of Japanese growth in 1977, and the resulting in-

	(Percent)		
Country	Change from	Early 1977 forecast	Realized 1
United States. Canada France West Germany. Italy Japan United Kingdom	do	5 ³ 4-6 3-4 4.6 412-5 2.6 6.7 1.2	584 214 284 214 214 214 214 214 214 215 2 5 1/2

TABLE 16.—National forecasts and realized real GNP growth for 1977

[Percent]

¹ Preliminary estimates.

Sources: Forecasts from public statements of government officials and other official sources; estimates of realized growth from Department of Commerce, Organization for Economic Cooperation and Development, and Council of Economic Advisers. crease in the current account surplus by nearly \$7 billion, served to tighten current account constraints on other countries.

Economic growth in all other major foreign countries also fell short of expectations. The pervasively weak element in the growth of demand in 1977 was business fixed investment. Among the seven largest countries, only in Canada was real business fixed investment above 1972–73 levels. Business fixed investment has slowed in most countries since 1976, and virtually no growth appears to have occurred in the second half of 1977 in any of the large foreign countries.

Real private consumption expenditures rose only moderately in most countries in 1977. Consumption declined in the United Kingdom, where falling real wages depressed disposable income and hence real consumption, and was virtually unchanged in Italy because of sharply increased personal tax collections. In Germany and France, taxes net of government transfer payments also took an increased share of household income in 1977. Saving rates in the large foreign countries were lower than in 1976, except for Japan, but the declines since the recovery began were generally less than in the United States.

Government spending made only a modest contribution to demand growth in most countries. Authorities in Italy and the United Kingdom followed strongly restrictive demand management policies. Limiting the government share of total spending over the medium term is an independent policy objective in these and other countries. Authorities have therefore been reluctant to increase spending in the short run as an aggregate demand measure. Japan, where the government sector is still substantially smaller than in other countries, was an exception to the general pattern of slow growth in real government spending.

Despite the slower growth of world trade in 1977, the growth of real exports was relatively strong in Japan, Canada, Italy, and the United Kingdom. Except for Japan, these are countries whose exports benefited from substantial exchange rate depreciations, although in Canada the growth of the U.S. market was undoubtedly more important for exports, and petroleum exports played a role for the United Kingdom. In Germany and France exports grew more slowly, and in the smaller OECD countries they contracted, on average. Thus the smaller countries were most adversely affected by external developments, and these countries were the ones registering the slowest real growth—with output declining in many of them.

INFLATION IN 1977

While inflation rates in most countries remained high in 1977 (Table 17), they did come down somewhat—particularly in those countries where inflation had been highest. A surge in world commodity prices in late 1976 and early 1977 pushed up consumer prices in the first half of the year. However, these prices turned around by midyear. In some countries—the United Kingdom, Italy, France, and a number of smaller countries—price pressures

continued to be exacerbated in the first half of 1977 by large exchange rate depreciations that had occurred in 1976. These currencies were stable, even rising somewhat in 1977, and this source of price pressure abated or was reversed as 1977 progressed.

Country	1976				1977		
	1	н	ш	IV	1	H	111
nited States anada rance fest Germany aly apan nited Kingdom	5. 2 6. 2 10. 2 4. 4 15. 1 7. 9 14. 6	4.9 6.0 8.7 4.5 26.9 10.8 8.8	5.7 4.4 10.4 3.3 14.6 9.6 15.1	4.4 7.0 10.5 3.1 28.2 8.9 21.7	8.4 9.9 6.5 5.2 20.8 7.3 21.0	8.8 9.4 12.2 3.8 16.4 8.9 12.4	5. 7. 10. 3. 14. 6. 11.

 TABLE 17.—Inflation in major industrial countries, 1976–77
 [Percent change in the consumer price index; seasonally adjusted annual rate]

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

A significant decline in inflation was achieved in 1977 in the United Kingdom, where a wage restraint program prevented import price increases from being reflected in wage settlements. Although no wage norm was agreed to following the end of the second year of wage restraint in August 1977, the government has been largely successful in preventing contracts from being reopened until 12 months after the previous settlement. Increases since August have not averaged substantially more than the 10-percent figure that the government views as consistent with controlling inflation.

Inflation also declined in 1977 in Italy. Italian wages, which are indexed to the cost of living, did respond to import prices and rose sharply through the first half of 1977. With the stabilization of the lira and the turnaround in commodity prices, cost-of-living increases in wages are now declining rapidly. The declining trend has been reinforced by some shrinkage of wage increases granted in addition to cost-of-living increases.

Thus inflation has been moderating in the two large countries where it had been most rapid. Elsewhere, however, wages and prices appear to be locked in a stable pattern of increases. Price increases in Japan have been held down by the appreciation of the yen in 1977; and other countries whose currencies appreciated substantially late in the year should post lower price increases in early 1978. It remains to be seen, however, to what extent these smaller price increases will lower inflation rates over the longer term by holding down money wage increases. In other countries there appears to be little risk that inflation will accelerate markedly, but also little hope that it can be brought down quickly from current levels. Wage settlements and prices of manufactured goods have proved to be relatively insensitive to the high unemployment and low capacity utilization now prevailing. Wage and price controls have been effective only when combined with very restrictive demand management policies and only for limited periods of time. The Canadian government is in the process of phasing out one of the few remaining general programs of wage and price controls. In addition, there have been tentative experiments with the use of taxes as measures to slow inflation. In one approach, governments have proposed general tax reductions in return for agreements by labor unions to accept lower money wage settlements. When tax relief is warranted on other grounds and labor negotiations are highly centralized, something may be gained through such a bargaining process. An alternative set of approaches, discussed in Chapter 4, would use decentralized tax incentives for reducing inflation. These approaches are novel and raise important substantive questions that must be answered before they could be responsibly proposed.

CURRENT ACCOUNT POSITIONS IN 1977

Four industrial countries that have had persistent surpluses—Japan, Germany, Switzerland, and the Netherlands—had a combined surplus of about \$16 billion in 1977. The United Kingdom and Italy moved from deficit into surplus.

Efforts by other OECD countries to reduce their sizable deficits in 1976 met with little success because of slow growth in their export markets. Some countries within this group—Portugal and Turkey, for example—have encountered difficulties in continuing to finance deficits. The non-OPEC developing countries appear to have reduced slightly their combined current account deficit in 1977. Their export earnings were boosted by commodity price increases early in the year, and some of them had sharply curtailed imports as well. Brazil and Mexico achieved substantial reductions in their deficits and a number of Asian countries appear to have realized smaller shifts.

The \$17-billion rise in the U.S. current account deficit from \$1 billion in 1976 to about \$18 billion in 1977 reflected a \$20-billion increase in our trade deficit. Although an increase in the deficit was widely expected, the magnitude of the shift proved to be much greater than anticipated, since growth abroad failed to develop as strongly as expected and U.S. oil imports were pushed up by a series of unforeseen developments. Rising payments for oil accounted for more than one-half of the increase in our trade deficit in 1977. The weak U.S. export performance and rise in the trade deficit in 1977 does not appear to stem from trends in relative domestic prices. U.S. and foreign prices measured in dollars held about the same relationship in early 1977 as in mid-1974, although there have been fluctuations in the interim. There has been some shift in relative export prices for manufactured goods, however, suggesting a greater willingness on the part of exporters in some foreign economies to compete on the basis of price. Nevertheless the depreciation of the dollar in late 1977 should result in a noticeable improvement in U.S. competitiveness, with the trade volume response occurring after a lag of 1 or 2 years.

FOREIGN EXCHANGE MARKETS

The most notable development in foreign exchange markets in the first half of 1977 was the strength of the U.K. pound and the Italian lira after these countries completed standby financing agreements with the IMF. As the year progressed, exchange market attention focused increasingly on the dollar.

Concern over the large U.S. current account deficit generated downward pressure on the dollar-particularly vis-a-vis the currencies of countries with large surpluses. As market uncertainties grew over what measures would be enacted by the United States to control the rise in oil imports, and as demand in foreign economies showed few signs of strengthening, the pressures intensified. The decline of the dollar from December 1976 to December 1977 against a weighted average of the currencies of ten major foreign countries (Belgium, Canada, France, Germany, Italy, Japan, the Netherlands, Sweden, Switzerland, and the United Kingdom) was 5.5 percent, weighting currencies by countries' shares of the total trade of the group. Weighting the same currencies by countries' trade with the United States gives a depreciation of only 2.4 percent during 1977. The difference is mainly due to the much larger weight of the weak Canadian dollar in the latter index. Indexes including more currencies also tend to show smaller depreciations of the dollar, since currencies excluded from the index of ten currencies were virtually all weaker than the average of those included.

The yen appreciated against the dollar by 22.3 percent from December 1976 to December 1977, the largest appreciation of any currency. Increases in the dollar value of several other currencies were also sizable: German mark, 10.8 percent; Swiss franc, 18.0 percent; and U.K. pound, 10.5 percent. On the other side, the Canadian dollar fell 7.2 percent.

The magnitude of these movements was not unusual for the floating rate period. In the period since the dollar floated, it has twice depreciated by more than 7 percent on a weighted average basis in 12 months or less. Three times the dollar appreciated by 7 percent or more, with the appreciation exceeding 13 percent in two cases. Individual rate changes of 10 percent have been common, and even the change in the yen rate this year has been matched several times by movements of other currencies. Rapid movements at the end of the year occurred under disturbed market conditions, however, with wide spreads between bid and ask quotations and large intraday gyrations in rates. Thus the efficiency of the current system of rate determination was called into question—a topic pursued below.

UNFINISHED BUSINESS

At the beginning of 1978, the world economy faces the same problems that have confronted policy makers since 1975—unemployment is high, margins of unused productive capacity are substantial, inflation continues at excessive rates, protectionist forces are strong, and current accounts are extremely unbalanced. On the brighter side, the virulence of underlying contractionary and inflationary forces has abated as governments have taken cautious, and for the most part cooperative, steps to improve economic performance. The international financial system has adapted to the need to channel the large accumulation of savings in OPEC countries to countries in deficit.

The serious problems that have beset the world economy have led some to argue that we must permanently set more limited economic objectives. In some respects this is true—we must plan for a world of less secure and more expensive energy. Nevertheless, higher employment and output are achievable virtually everywhere without creating new inflationary pressures. The problems are global and the pursuit of appropriate domestic policies is constrained in many countries by international payments imbalances. Achieving the potential of the world economy will require bold policies and close international economic cooperation.

Four major economic challenges are discussed below. International cooperation is essential to meeting each one of them. If, instead of working together to sustain economic recovery and solve our other problems, governments accept a continuation of the poor performance of 1977 as inevitable, the world may well face a darkening economic future. Unilateral protectionist trade policies will flourish. Pressures for international arrangements to allocate markets in especially depressed sectors will grow stronger. The result will be a more rigid world economy, no longer capable of generating the rapid growth of trade and incomes that has characterized the post-World War II period. The developing countries, which are looking for opportunities to participate more broadly in world trade, will be particularly hurt by such an outcome.

TO RESTORE HEALTH TO THE INTERNATIONAL ECONOMY

Foreign industrial economies as a group have shown only scattered signs of renewed strength following their extreme weakness in mid-1977. The Japanese economy is experiencing very slow growth. Even with the stimulative measures announced at the end of 1977, the appreciation of the yen, together with a high personal saving rate and depressed investment, raises questions whether growth in 1978 will exceed 1977. In Europe, the economic outlook with existing policies is for rising unemployment of labor and falling capacity utilization. For the OECD as a whole, GNP growth is likely to average $3\frac{1}{2}$ to 4 percent in 1978, unless there are major policy changes in addition to those announced for Japan and those proposed for the United States in this *Report*.

At the same time, most forecasts indicate that the rate of increase of consumer prices in the OECD should slow somewhat from about 8 percent in 1977 to around 7 percent in 1978. There continues to be sufficient slack in most economies to permit growth at rates moderately higher than current forecasts without forgoing a gradual reduction in average inflation rates.

Governments recognize the need for stronger expansion. In November 1977 the member countries submitted their preliminary objectives for 1978 to the OECD. In the aggregate these goals would lead to $4\frac{1}{2}$ percent real GNP growth for the OECD as a whole. Such an outcome would be the minimum that could be expected to arrest the rise of unemployment abroad.

The generally sluggish behavior of business fixed investment has been a major factor keeping countries from achieving their goals. Stronger investment is important in the short run to provide stimulus for sustained recovery. Over the longer run, some are concerned that capacity constraints may have become relatively more important limitations on noninflationary expansion. Thus when capacity limits are reached, unemployment may still be above levels that would be inflationary on the wage side. Greater business fixed investment during the recovery period would reduce the potential for capacity constraints and make possible a further reduction in unemployment.

A number of explanations have been offered for the weakness of investment. No single explanation will suffice for all countries. Nevertheless a substantial portion of the current weakness of investment in every country is accounted for by the low current and prospective rates of capacity utilization and the effects of low levels of output on profits. In addition, the persistence of inflation has undoubtedly added to concerns that recoveries may not be sustained. Much investment that has occurred has been for modernization projects that promise to save more in labor, energy, and other inputs than their capital costs; projects that would add to capacity have in many instances been deferred.

Considerable attention has been focused, as well, on low after-tax returns on capital and the poor outlook for improvement as explanations for sluggish investment. Measures of profits and the total return on capital must be treated with some reservations, but there is substantial evidence that over the past 15 to 20 years they have declined relative to GNP and relative to capital stocks in many foreign countries. Moreover it appears—in contrast to the U.S. experience—that the fall in the return on capital has been too large and too prolonged to be entirely attributable to the recent recessions, at least in Germany, the United Kingdom, and Italy.

Investment is not being held back by insufficient savings. Given the savings represented by the OPEC current account surplus and with consumer saving rates in most foreign economies high by historical standards, there is no shortage of savings in the world today. Thus a higher return on capital is not required today to assure an adequate supply of funds for investment. Rather, to encourage firms to make use of the available pool of savings for productive investment, what is needed is a sufficient margin of the expected return on capital over the cost of capital.

One way to increase this margin and call forth more investment is to raise expectations and reduce uncertainties concerning after-tax returns on capital.

Many government actions can have an effect on these expectations by achieving continued economic recovery, reducing tax liabilities associated with new investment, and reducing uncertainties and inefficiencies that result from the government regulatory process. A second way to increase the margin is to maintain an expansionary monetary policy, which reduces the cost of capital. Monetary policy is more flexible than policies that work by raising the rate of return on capital, but there is a role for both kinds of policies. Each generates higher expected incomes for those who are willing to accept the risk of new investment. But the two kinds of policies do, of course, have different effects on the distribution of income, and these must be taken into account.

To some extent, views concerning the indicators of macroeconomic management threaten to prevent some countries from reaching their goals. As discussed below, the significance of current account positions has changed in view of the OPEC surplus. In addition, attitudes about budget deficits and the growth of monetary aggregates should be formulated in the light of current economic conditions. As noted in Chapter 2, it is difficult to hold down deficits in government budgets when the drag on industrial economies from external deficits is as high as it is now, and especially so when investment is weak as well. Similarly, rates of monetary expansion must make realistic allowance for the inherited momentum of price and wage increases and the rate at which this momentum can be dissipated. It is important to avoid such a progressive tightening of monetary conditions that investment objectives are thwarted.

In recent years, the appropriate use of monetary and fiscal policies has sometimes been constrained by views on their significance and impact. The principal tools of macroeconomic policy are not themselves the ultimate objectives of policy. In reality, monetary growth rates and budget deficits are strategic variables, and they must adapt to economic conditions. The significance of these strategic variables lies in their effects on output, unemployment, and inflation.

Sometimes it has been suggested that monetary growth or budget deficits affect inflation rates directly through expectations, aside from their effect through actual or expected demand. Expectations of inflation are indeed important determinants of economic behavior, but these expectations are linked to actual price pressures that are expected to develop in markets. It is difficult to see how inflation (or the expectation thereof) would be raised significantly more by monetary or fiscal policy measures that moved an economy toward full utilization of its productive potential, compared with a fortuitous shift in exports or in saving behavior that had the same effect on demand. A more carefully articulated view is that monetary and fiscal policy affect the level and composition of economic activity—and thus affect inflation through this linkage.

A program for achieving full recovery in the industrial economies must begin with measures to raise domestic demand and capacity utilization. Only then is sufficient investment likely to be forthcoming to achieve structural objectives such as reducing dependence on export demand and forestalling potential imbalances between capital stocks and labor forces. Both monetary and fiscal policy can make a contribution. With excess capacity everywhere, world recovery can proceed without undue concern that reasonable expansionary policies will trigger a new round of inflation. As recovery continues and utilization of capacity reaches high levels, unemployment may still remain unacceptably high in some countries. A more cautious approach to further reductions in unemployment would then have to be taken. It may be necessary to move progressively toward fiscal restraint to keep demand within the productive potential of the economy, and meanwhile continue to promote investment with continued stimulative monetary policy and special incentives for investment.

Improved cooperation in economic policy making will be essential if countries are to succeed in carrying out such a program. The consequences of insufficient attention to the global implications of national policies are seen in the inflationary pressures generated by the simultaneous expansion of 1973 and in the poor performance resulting from too great a reliance on exportled growth in 1977. The mechanisms for international cooperation have improved in recent years.

The heads of state of the largest industrial countries have met three times since 1974 to address economic problems. At the London Summit last May the heads of state discussed their domestic economic goals and agreed to monitor progress toward them.

While not all of the specific goals for 1977 that were laid down at the London Summit have been achieved, the exercise has proved a useful tool in improving international economic cooperation. When the German and Japanese economies proved to be weaker than officials in those countries had expected, the Summit commitments reinforced domestic considerations that led both governments to implement stimulative measures in the fall. Summit commitments also supported the efforts of other governments to maintain policies directed primarily at reducing inflation and current account deficits.

The process of setting economic objectives and examining their consistency and desirability is being extended in the Economic Policy Committee (EPC) of the OECD. The EPC will continue to monitor economic activity in 1978 relative to countries' own internal goals and to the overall balance of demand and supply in the world economy. The international discussion of goals and the means to achieve them is necessary to assess the consistency of individual countries' aims, to guide the formation of policies that have good promise of achieving them, and to respond to developments that push economies off their desired courses.

TO DEAL WITH EXTERNAL IMBALANCES

A country's current account balance measures its net receipts from trade in goods and services (including investment income) plus net transfers from the rest of the world. It is closely related to the level of economic activity.

Higher demand at home generally leads to more imports and thereby to a smaller surplus or larger deficit. Moreover, a decline in the balance generated by external forces must be offset by stronger domestic demand if GNP growth is to remain unchanged. Thus a country's current account position is an important indicator for setting demand management policies.

A country's current account balance is a useful economic indicator for a second reason. A current account surplus must by definition be matched by a net outflow of private and official investment to the rest of the world, while a deficit must be matched by a net inflow of investment. Policy makers must consider the sustainability of a current account deficit—whether the willingness of foreign investors to acquire claims on a country or the willingness of domestic investors to reduce claims on foreigners will remain strong enough to finance a given deficit. Changes in a country's current account position may require exchange rate changes to reconcile domestic objectives with a current account position that can be sustained. But neither the current account nor the exchange rate should be viewed as an ultimate objective of policy in the same sense that real income and the rate of unemployment are. These external variables do not directly affect the welfare of citizens, although they have important effects on variables that do.

The presumption in the past has been that a mature industrial country like the United States would normally be in current account surplus, thus supporting a private capital outflow to capital-poor developing countries where the productivity of capital was thought to be relatively high. The emergence of the OPEC countries as major capital exporters and the troubled state of the world economy have altered this presumption, at least for the present. Although developing countries continue to welcome small current account deficits—that is, an inflow of capital—large deficits are not welcome, since these countries' export earnings are insufficient to meet the resulting increase in debt service. Thus industrial countries following appropriate policies are more likely to have current account deficits under today's conditions. Surpluses most often occur when domestic demand is particularly weak, when the currency is undervalued, or when there are barriers to imports or inducements to exports which are disruptive to world trade.

Over the last 4 years, there has been an extraordinary divergence in countries' current account positions. Surpluses have been common among those countries best able to finance a deficit—including the United States in 1975. As a result, borrowing by many weaker countries with large deficits strained the limits of international lenders' willingness to extend credits to them, and the fabric of the international financial system was stretched thin. The movement of the United States into deficit has relieved these strains somewhat but has led to new strains in exchange markets.

Some perspective on the relative current account positions of the OECD countries in 1977 is given in Table 18. The current account positions of

the OECD countries in 1977 (as projected by the OECD) are shown, as well as the size of the surpluses or deficits relative to gross domestic product (GDP). The scaling by GDP is intended to facilitate comparisons of countries of different size, not to suggest a norm for current account positions. As can be seen in the table, the relative size of the estimated deficit is somewhat larger for the United States than for the OECD countries as a whole. Several major countries and many smaller countries have relative deficits substantially larger than the U.S. deficit, however. The table also shows clearly the extreme positions of many small countries.

In time, as the United States and others finally accept the need to take effective measures to limit oil consumption, the OPEC surplus will dwindle and the corresponding deficits will shrink. But in the interim only action by OPEC members to reduce oil prices or dramatically raise imports, or a repetition of the 1975 world recession, would significantly reduce the OPEC surplus. The latter would be an extraordinarily costly way to reduce oil imports. Hence, for some time to come, appropriate national policies and international cooperation will be particularly important to ensure that the international financial system remains adequate to the demands that will be made on it and to reduce the large imbalances that exist aside from the OPEC surplus.

Country	Billions of U.S. dollars	Percent of 1976 gross domestic product
Switzerland Japan Belgium-Luxembourg. Italy. Netherlands.	$\begin{array}{c} 3^{1/4} \\ 10 \\ 1^{1/2} \\ 1 \\ 1^{1/2} \\ 1 \\ 1^{1/2} \end{array}$	594 134 34 1/2 1/2
West Germany United Kingdom Iceland	214 84 0	1/2 1/4 0
TOTAL OECD	-32	-3/4
France Finland United States. Canada. Spain	$ \begin{array}{r} -3 \\ -14 \\ -18 \\ -414 \\ -3 \\ \end{array} $	$\begin{array}{r} -3/4 \\ -1 \\ -1^{1/4} \\ -2^{1/4} \\ -2^{3/4} \end{array}$
Australia Sweden ¹ Denmark Greece New Zealand	$\begin{array}{r} -3 \\ -3^{1}_{4} \\ -1^{8}_{4} \\ -1^{1}_{4} \\ -\frac{8}_{4} \end{array}$	$\begin{array}{r} -31_4 \\ -41_2 \\ -41_2 \\ -53_4 \\ -53_4 \end{array}$
Ireland Austria Turkey Portugal Norway	$\begin{array}{r} -\frac{1}{2} \\ -\frac{23}{4} \\ -\frac{23}{4} \\ -\frac{11}{4} \\ -5^{1}_{4} \end{array}$	$\begin{array}{r} -61_{2} \\ -63_{4} \\ -7 \\ 2 -81_{2} \\ -163_{4} \end{array}$

TABLE 18.—OECD	current account	estimates for 1977
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 2 Estimates not comparable with those shown in national sources because of an OECD correction for a once-and-for-all negative impact of \$14 billion on the current account balance due to a change in Sweden's method of statistical reporting. 2 Calculated using 1975 gross domestic product.

Sources: Organization for Economic Cooperation and Development (OECD) and Council of Economic Advisers.

When current account imbalances arise for a given country, there are several alternative courses of action. If a deficit appears temporary—from, say, a bout of cold weather or a sharp cyclical movement—one would expect extraordinary deficits to be financed by private and official capital flows. For large and unsustainable surpluses or deficits, which are likely to persist and reflect underlying trends, adjustment must come either through adjustment of macroeconomic variables, such as a change in interest rates or economic activity, or through changes in the exchange rates. Finally, there are a number of "microeconomic measures" that can be pursued, such as trade policy, protective actions, changes in the tax structure, or export promotion. By and large these latter measures are not appropriate to promoting adjustment between regions: they greatly distort the underlying priorities of an economy with little payoff in adjusting imbalances. The roles of exchange rate adjustment, macroeconomic measures, and financing are explored further in the following sections.

Exchange Rates and Current Account Adjustments

During the first half of the 1970s, the industrial world moved from the Bretton Woods system of predominantly par value exchange rates to one in which the exchange rates between major currencies are determined primarily by market forces. The role of the exchange rate in the adjustment of countries' current account positions is potentially a powerful one. Exchange rate changes can help to eliminate persistent current account imbalances, and they can forestall imbalances that otherwise would arise in a world where inflation rates and real growth rates differ widely. Now that we have several years of experience operating with more flexible exchange rates, it is useful to review events and ask how, and how well, the system has functioned.

The present system of flexible exchange rates is not a pure floating rate system. Many smaller countries have continued to maintain the exchange rates of their currencies within specified limits with respect to one or more major currencies. The European Joint Float (the so-called "Snake," currently consisting of the currencies of Belgium, Denmark, Germany, the Netherlands, and Norway) is a significant regional arrangement for keeping exchange rate movements among members within fixed limits. The existing exchange rate system is also distinguishable from a pure floating rate system in that governments and central banks buy or sell foreign currencies in intervention operations to counter disorderly market conditions, to slow movements in rates, and occasionally to prevent rates from moving.

In the period since the dollar floated in March 1973 exchange markets have gradually adjusted to the new regime. Although there have been large rate movements during this period, these movements have generally reflected fundamental developments. The historical record indicates, however, that exchange market attention has focused on different factors at different times.

Soon after it was allowed to float in March 1973, the dollar came under downward pressure once again, and by July it had fallen to levels that with hindsight appear too depressed. To a certain degree, the further decline was caused by those forces that had generated pressure under the par value system—at the old exchange rate the United States was not competitive. Also important, however, was the desire of foreign holders of dollars to diversify their foreign exchange positions, given the initial uncertainty in the market about how the new system would function and the likelihood of larger, more frequent, and less predictable changes in exchange rates. One piece of evidence for this diversification is the substantial decline in the dollar share of gross Eurocurrency assets that occurred in 1973. Evidence that central banks stood willing to enter the market forcefully to counter disorderly market conditions helped to dispel some of the uncertainties and contributed to a stabilization of the dollar in July 1973.

Following the Arab oil embargo and the announcement of higher OPEC oil prices in late 1973, exchange markets focused on individual countries' dependence on foreign oil. In view of the United States' relatively high degree of self-sufficiency in energy, as well as the central role of the dollar as an investment vehicle for OPEC surpluses, the dollar appreciated by 12.7 percent on a weighted-average basis from October 1973 to January 1974.

During the recession and early recovery period from mid-1974 through the end of 1975, exchange rate movements were dominated by differences in interest rates. U.S. short-term interest rates fell relative to rates in other major countries during the U.S. recession. The decline in interest yields on dollar assets relative to yields available in other currencies caused investors to attempt to shift out of dollars, and the dollar depreciated over a 6-month period by 8.1 percent against a multilateral weighted average of ten currencies. Short-term dollar interest rates turned around as the U.S. recession bottomed out in the second quarter of 1975, while rates in other countries continued to fall. As a result, the dollar rose, wiping out the earlier depreciation by September. It is interesting to note that neither the swing in the U.S. current account from a deficit in 1974 to a surplus at an annual rate of \$16 billion in the second quarter of 1975, nor the subsequent turnaround in the current account---developments that were largely the result of the depth and timing of the recession in the United States and in major foreign economies-had a major impact on the value of the dollar during this period.

In 1976, exchange market participants seemed most influenced by differential rates of inflation. Market commentary, at least, was preoccupied by these differences although countries whose currencies depreciated also had current account deficits. The dollar appreciated by a small amount during the year, in line with the better-than-average U.S. price performance. The currencies of the two major countries with the highest inflation rates the United Kingdom and Italy—depreciated against the dollar by 17.0 percent and 21.3 percent respectively.

Most accounts of exchange rate movements in 1977 relate these movements to trade and current account developments. Indeed the initial pressures on the dollar developed in the wake of a string of record monthly trade deficits—reflecting a major increase in oil imports and differences in growth rates between the United States and other OECD countries. As it became clear that these deficits were unlikely to shrink over a reasonable period of time, the pressure on the dollar intensified. The countries with the largest appreciations, Japan, Germany, and Switzerland, were those with the largest and most persistent current account surpluses. The turnaround in the pound sterling also coincided with the turnaround in the U.K. current account.

Although Germany and Switzerland had somewhat lower inflation than the United States, only a small fraction of the appreciation of these currencies could be attributed to actual differences in inflation rates. Moreover, developments during the year did not warrant a shift in expectations of future inflation large enough to account for a substantial part of the movement in exchange rates.

The dollar depreciation in 1977 ran counter to a strong rise in U.S. interest rates and declines in most foreign interest rates. During the year, U.S. shortterm interest rates rose about 350 basis points relative to those in major European countries. In the past, interest rate movements of this magnitude generated substantial private capital inflows or exchange rate changes.

The size and timing of the exchange rate changes in the episodes recounted above illustrate some implications of the fact that trade and price developments affect exchange rates through their effects on the supply and demand for assets denominated in different currencies. Among the most important determinants of the price of any asset are portfolio risk, current return-for example, interest-and expectations concerning its own future value. Interest rates and perceptions of risk have been major determinants of exchange rates, as seen in the 1973 and 1975 episodes. Moreover, relative price and current account developments have strongly affected exchange markets, primarily by altering expectations concerning future exchange rates. Thus exchange rates have responded to inflation and current account developments as market participants have concluded they would persist. Rate changes have sometimes led to actual changes in underlying variables and often followed them. When nonfinancial developments have been viewed as temporary, such as the U.S. current account surplus in 1975, they have had little effect on expectations and therefore on exchange rates.

While exchange rate movements during the flexible rate period have broadly reflected underlying developments, sustained large movements in one direction, followed by reversals, have occurred surprisingly often. These movements have often not corresponded to discounts or premia on forward exchange rates. They have been of sufficient regularity and magnitude to cast doubt on whether large exchange rate changes have always reflected the workings of a market in which new information is efficiently incorporated into currency prices. Markets have also been characterized from time to time by very thin trading, much wider than normal bid-ask spreads, and large intraday rate movements in the absence of significant fundamental developments. When these disorderly conditions prevail in the market, there is a question whether the longer-run prospects for currencies may be lost from sight. Critics of floating exchange rates have pointed to these features of the current regime to underscore the need for more active intervention by central banks and governments.

Responding in part to these concerns, as well as to domestic policy needs, foreign central banks in 1977 made heavy purchases of dollars to smooth, and in some cases to limit, the appreciations of their currencies against the dollar. These activities are crudely indicated by reserve movements over the year. British official reserves rose \$16.2 billion through October, when large-scale intervention was suspended. Japanese reserves rose \$6.6 billion and German reserves \$5.3 billion for the full year.

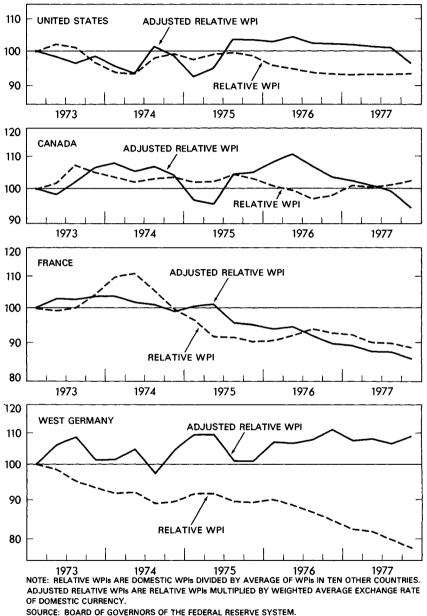
It is unlikely that intervention had a major lasting impact on exchange rates. The large volume of liquid funds in international financial markets and the one-sided risks that arise when central banks come into the market heavily on one side have meant that a large and continuing flow of intervention would be needed to keep rates from moving in response to changing expectations among managers of private foreign exchange positions. Thus the volume of intervention required to keep a rate from moving is not a reliable indicator of how far the rate would go if it were permitted to adjust freely. When the Bank of England suspended its massive intervention on October 31, 1977, the pound moved to a level only 1.8 percent higher against a weighted average of foreign currencies than the level at which it had been held. Even with the later weakness in the dollar the weighted average pound was only 5.0 percent above its October level in mid-January. While intervention can be a useful tool in restoring order to exchange markets, substantially larger intervention than seen in 1977 would be necessary to have a large effect on rates for any time.

Eliminating most cumulative rate movements would not be desirable even if it were easier. Flexible exchange rates have been beneficial because they have helped to reduce the large changes in countries' relative price levels that would have occurred as a consequence of differential price movements among trading partners (Chart 8). Some significant and lasting changes in relative price levels have resulted from exchange rate changes, however. These changes have generally helped to reduce unsustainable current account surpluses or deficits.

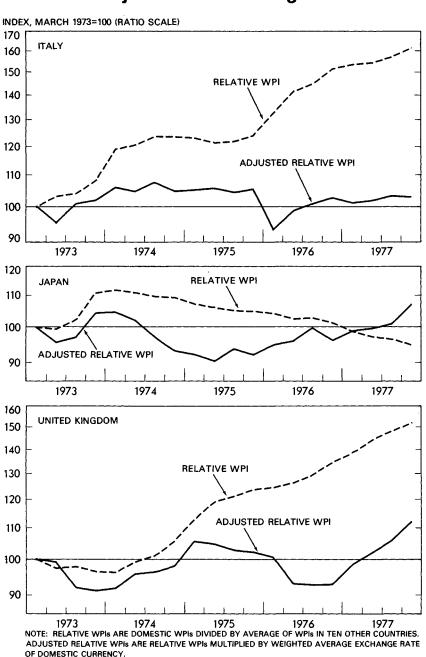
It is not an indictment of flexible exchange rates that current account imbalances have continued to occur and in some cases have proved to be



INDEX, MARCH 1973=100 (RATIO SCALE)



Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis



Relative Wholesale Prices Unadjusted and Adjusted for Exchange Rates

SOURCE: BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM.

persistent. Not all imbalances can or should be dealt with through exchange rate adjustment. As noted above, it is normal and sustainable for some countries that have especially attractive investment opportunities to be capital importers, and therefore to have a deficit while others have surpluses. In addition, the aggregate deficit that is the counterpart of the OPEC surplus cannot be eliminated by exchange rate changes, although exchange rates can play a role in allocating this deficit among countries.

Finally, while exchange rate changes can have a significant impact on current account balances after 1 to 2 years, their effect initially may be perverse, since the strongest immediate effect of an exchange rate change is to raise many import prices and thereby increase the size of the deficit. This fact has two important implications. First, if imbalances seem to be temporary—owing to demand conditions that are likely to be reversed or to supply disruptions such as droughts-expectations will not be changed, and such imbalances normally will be financed by private capital flows. Exchange rates need not change. Second, when exchange markets are orderly and functioning efficiently, exchange rates will respond quickly, even abruptly, whenever it becomes clear that a country's underlying position has moved away from what is sustainable over the longer term. Once exchange markets have moved to reflect the new assessment, a return to exchange rate stability is possible even though the adjustment in trade flows may take considerable time. Capital flows can be expected to finance imbalances during the period of transition without the need for significant changes in interest rates.

The Administration's policy toward dollar exchange rates has been to let market forces determine them but to intervene when necessary to counter disorderly market conditions. This approach is based on the view that it is better to give market forces continuous influence on rates, rather than to have a period of officially determined rates followed by a sharp and disruptive adjustment. The historical experience with attempts to fix exchange rates is not an enviable one. Such policies more often than not sustained inappropriate exchange rates rather than correcting the underlying values of currencies; more often than not they generated large private capital flows that led to serious dislocations in financial markets and spilled over to affect other policy objectives.

While the Administration does not believe it is appropriate to maintain any particular value for the dollar, it recognizes its responsibility to act forcefully when market conditions become disorderly. Many managers of private foreign exchange positions normally help to stabilize the market by adjusting their positions on the basis of careful assessments of factors affecting currency values over the medium term. These managers tend to cover more of their foreign exchange exposure in the face of the increasing risks associated with market disorder. Rates are buffeted by the flow of commercial transactions and the buy and sell orders of traders whose time horizon is measured in days or at most weeks. Under these circumstances, intervention can help to restore markets to their normal functioning. It is not the objective of such intervention to maintain a particular rate. To fix a rate would endanger the leeway that a flexible exchange rate system has provided for countries to pursue domestic objectives.

In summary, while exchange rate fluctuations sometimes have been undesirably large and are often unpleasant reminders about unsatisfactory aspects of underlying economic conditions, the evolution of the system of market-determined exchange rates has been a major achievement of this decade.

Macroeconomic Policy and Current Account Adjustment

In setting policies to achieve domestic objectives, authorities must consider the strong two-way interactions between domestic growth and inflation on the one hand, and the current account balance and exchange rate on the other. Going one way, stronger domestic demand tends to result in a larger current account deficit within a short time. Going the other way, an increase in the current account balance resulting from an exchange rate change or external factors will raise domestic output and employment.

In considering policies to achieve domestic goals, authorities sometimes find that policies appropriate for achieving domestic objectives also move the current account toward a more sustainable position. At other times, they face a dilemma. Two easy cases present no dilemma. One of these occurs when a country is falling short of its domestic goals and has a current account balance that is in surplus. Authorities should then view the current account position as an additional signal to adopt expansionary measures. The second easy case occurs when demand threatens to strain the potential of the economy. A current account deficit then reinforces the need to adopt restrictive measures. In both cases current account adjustment may take place without sacrificing domestic objectives and with policy actions reducing the need for exchange rate adjustment.

The dilemma arises when there is conflict between domestic goals and the requirement for the current account to be maintained in a sustainable range. This may occur when an economy with inflationary demand pressures has a surplus. In the world economy today, however, nations more often face the dilemma of a sluggish economy with an unsustainable current account deficit. In this case, the appropriate response is to use domestic fiscal and monetary policy to attain domestic objectives, while allowing exchange rate adjustment to restore sustainable external positions. Especially for large countries like the United States, where the economic cost of changing domestic growth is large relative to the improvement in the current account that would result, it is not appropriate to modify domestic objectives for economic growth in order to reduce the current account deficit.

A second way in which macroeconomic policy can affect the external balance is through a shift in the mix of policies. Thus a country might shift to a tighter monetary policy and a more expansionary fiscal policy when faced with a large current account deficit and a weak currency. In principle, such a change in the policy mix could be made with an unchanged GNP growth target. If investment were undesirably strong, and if it were thought that the current account deficit would soon improve, such a change in the mix of policies might be appropriate. In practice, however, differences in the lags with which each policy works and the uncertainties surrounding their effects make a shift of this kind difficult to achieve. Such policies also have effects on the composition of demand and output. First, to the extent that they strengthen the currency they reduce exports and increase imports with a significant time lag. Second, they tend to shift demand away from private investment and toward other forms of spending, thus reducing the rate of capacity growth.

It should be noted that allowing exchange rates to adjust when a country's domestic objectives and external positions are inconsistent has effects on the domestic economy that must be taken into account in setting domestic objectives and policies. Appreciation of a country's exchange rate tends to depress demand. Depreciation tends to add to inflationary pressures by raising import prices, and to reduce real incomes as imports become more expensive.

Thus, when exchange rate changes do occur, they must be supported with monetary and fiscal policy if an unchanged domestic growth target is to be met and if the full adjustment of the current account is to be realized. Countries with appreciating currencies will face a slowing of demand growth as exports are reduced and imports rise. If these effects are not offset by stimulative policies, the economy will slow and some of the potential adjustment will not be realized, since import growth will be retarded along with the slowing of domestic demand. Countries with depreciating currencies will experience a stimulus to demand that may also have to be offset. Whether the adjustment of policies should be greater in countries with appreciating or with depreciating currencies should depend on whether the countries are undershooting or overshooting their internal goals for output and employment.

It should also be noted that adjustment through exchange rate movements succeeds only if the improvement in competitiveness of countries with depreciating currencies is not undone by higher wage and price increases to maintain workers' purchasing power or to obtain higher profit rates. In those economies where such wage and price adjustments are rapid and nearly proportional to exchange rate changes, gains in competitiveness from exchange rate depreciation evaporate quickly. Adjustment through exchange rate change is much more difficult and costly in terms of inflation. Such countries may be forced to accept depressed demand as the only effective way of reducing a deficit. Hence structural measures by authorities that retard the pass-through of import price increases into domestic prices and wages have a high payoff in allowing less costly external adjustment.

Strengthening International Financial Institutions

Private financial institutions have been the main source of financing for the large current account deficits since the oil crisis—accounting for roughly three-fourths of the total flows from 1974 to 1976. During this period, current account deficits totaled \$225 billion, and countries in deficit borrowed over \$300 billion. Some inflows, particularly in industrial countries, have been a private response to market incentives. A large share of the financing for many countries, however, has been raised by governments or by government-controlled corporations from private international banks. Private and official net borrowing from international banks by countries in deficit totaled an estimated \$160 billion over the 1974 to 1976 period. These banks in turn received funds directly or indirectly from countries in surplus. Funds raised by countries in deficit from other private sources, including international bond issues and direct investment inflows, totaled about \$100 billion.

About one-fourth of all current account financing, or more than \$50 billion, was financed through official credits. These credits have played a crucial role in the overall financing process by providing assistance to countries with limited access to financial markets. Without official financing a number of countries would have been forced to take overly drastic measures and reduce their current account deficits at an excessively rapid pace. Such measures would have been disruptive to their own economies and to the world trading system. Moreover, in the absence of official financing, deficits would become concentrated in fewer countries. Some countries that have been able to meet their needs from private markets would find their access to private credit jeopardized by larger deficits. Thus the availability of a continuing flow of official financing to countries has been essential to the stability of the world financing system and to the continued flow of financing through private financial institutions.

Two long-established sets of multilateral institutions have played a major role in providing financing during the recent period: the international development banks and the International Monetary Fund. The international development banks—the World Bank group and regional development banks—provide financing for sound development projects and assist developing countries to formulate appropriate development strategies. In doing so they help meet countries' overall financing needs while fostering investment in productive activities that will generate the funds needed to service the debts. Their new credits totaled \$9.2 billion in the year ending June 30, 1977. These institutions had more than \$60 billion in loans outstanding then.

Part of the resources of these institutions are provided by governments in the form of capital subscriptions and direct contributions. For their nonconcessionary activities, however, the development banks rely heavily on securities issued in international markets and this reliance on debt has been increasing. In order to preserve their well-deserved reputation for prudent and sound financial management and their key role as a source of capital to developing countries for productive long-term investment, an increase in resources contributed by governments is needed.

Strong U.S. support for the development banks is essential to their continued ability to assist developing countries. Through such support, the United States can both enhance the stability of the international financial system and respond to the needs of the developing countries. Moreover, U.S. resources devoted to these institutions are multiplied by contributions from other countries and by funds raised from markets. In 1977, legislation was enacted authorizing over \$5 billion for increased U.S. participation in these institutions. Appropriations in support of the development banks for fiscal 1978 were \$1.9 billion, an increase of 70 percent over the year before. This demonstrates strong U.S. commitment to these institutions, but further large sums will be needed in the years ahead to maintain their strength.

The International Monetary Fund was established at the end of World War II specifically to augment the resources available to finance temporary payments imbalances in a par value system of exchange rates. While the nature and circumstances of countries' needs have been altered by the introduction of more flexible exchange rates, the need for official financing of deficits has continued. A country that draws on Fund resources must satisfy conditions laid down by the Fund to assure that policies are consistent with adjustment of the country's external position. The goals are a current account that is sustainable without continued official support and repayment of the drawing. Thus the operations of the Fund not only finance deficits but also constructively influence policies.

The large current account imbalances since 1974 have resulted in heavy demands on the Fund. It provided about \$15 billion of financing in the 1974–76 period. The IMF has also found it necessary to broaden its view of appropriate adjustment. Whereas the previous expectation had been that adjustment could take place and drawings could be repaid within 3 to 5 years, it has not been possible to eradicate the aggregate oil deficit so quickly. The IMF membership has responded to the new circumstances by increasing the resources of the Fund's general account and raising the limitations on countries' drawings. In addition, a temporary "oil facility" was set up in 1974 to help countries meet their larger oil bills. The resources for this facility, which concluded its lending program in 1976, were provided primarily by oil-exporting countries, but several industrial countries also contributed substantially.

As OPEC countries have continued to pile up assets, a continuous flow of new financing has been needed. The IMF's usable resources have fallen to about \$5 billion, with another \$3 billion available from larger countries only for lending to other large countries under the General Arrangements to Borrow. These resources will be increased by another \$6 to \$7 billion when the sixth quota review has been ratified by enough member governments. Even with these additions, however, the Fund's resources will be inadequate to assure available financing for those countries that need it. Moreover, there is a particular need for long-term funds.

To meet this need the decision was made to seek to establish the Supplementary Financing Facility, which initially would have about \$10 billion provided by seven industrial countries and seven OPEC members. These funds would be available over the next 2 to 3 years to countries whose balance of payments needs exceed the amount available under the IMF's regular policies and require a longer period of adjustment than provided for under regular IMF policies. Borrowing countries must undertake to adopt corrective economic policy measures to deal with their balance of payments problems. When established, the Supplementary Financing Facility can make an important contribution to the stability of the international financial system for the next several years.

There will be a continuing need for growth in IMF resources, however, even if the Supplementary Financing Facility is established. Discussions are now under way in a seventh review of quotas. A further increase in quotas will be required to ensure that the IMF has sufficient resources to meet the legitimate demands on it over the longer term.

TO ACHIEVE GREATER STABILITY OF COMMODITY PRICES

The central role of food, fuel, and other raw materials in the domestic and world economies in recent years has been noted in every chapter of this *Report*. Although price fluctuations are always the norm, commodity prices have shown more than normal volatility over the last 5 years. The 56.4percent rise in *The Economist* index during 1973 was the largest rise in the last 80 years. Nonfuel commodity prices have leveled off since 1974, but the economic aftershock and fears of renewed bursts continue to be of concern today.

The increased volatility of commodity prices has caused serious economic dislocations in virtually all countries. In consuming countries, rising commodity prices in 1973 and 1974 were reflected in final product prices, fueling an inflationary wage-price spiral. Yet because of asymmetries in response, the subsequent decline in several key commodity prices did not evoke a comparable downward movement of wages and prices. Periodic declines in the prices of certain commodities over the past few years placed severe external constraints on developing countries that derive a substantial fraction of export earnings from sales of those commodities. Consequently, these countries have borrowed heavily on world markets and have been forced to curtail their purchases of goods from industrial countries in an effort to conserve their foreign exchange reserves.

The Need to Reduce Volatility

Random variations in weather, cyclical movements in demand, and political disturbances, along with the relative insensitivity of supply and demand to price changes, have made sharp price movements the rule rather than the exception for primary commodities. Private precautionary and speculative stockpiles and the development of organized commodity markets have in general allowed these fluctuations to be partially buffered. Private participants in these markets who sell their stocks when prices are relatively high and accumulate stocks when prices are relatively low exert a price stabilizing influence. The importance of these stocks is illustrated in the case of grains, where prices are more closely related to stock levels than to production flows (Chart 15, Chapter 5).

A reduction in the volatility of commodity prices would serve a number of useful purposes. Aside from the relatively modest advantage to consumers of having more predictable price movements, moderation of price fluctuations lowers inflation by reducing the impact of the asymmetries in the relationship between commodity prices and general inflation. Producers also benefit, as countries in which price movements in a single commodity have a major impact on national income can achieve more stable economies. Furthermore, a lower level of price volatility would reduce producers' risks and remove an important deterrent to the development of greater supplies. Finally, major price movements sometimes induce governments to introduce rigid price and income support programs, with the kinds of problems discussed in Chapter 5. Once introduced, these programs develop their own momentum and can engender a new set of inefficient and price-raising side effects.

Unfortunately commodity price stabilization is neither politically easy nor economically costless. The economic costs of stabilization schemes are often paid through direct government outlays. Alternatively, the costs of stabilization may be paid directly by consumers through higher average prices. Some types of programs require capital outlays that could otherwise be used for investment in productive equipment. The benefits of any proposed program to reduce volatility must be weighed against these costs.

One price stabilizing technique is to encourage large stockholdings by the private sector. In the United States this is done for grains by subsidizing interest and storage costs, as in the Administration's farmer-held reserve discussed in Chapter 5. The costs are direct budgetary outlays that can be compared to the benefits of holding larger stocks. Outside of agriculture the United States has no major programs to encourage stockholding; but some European countries have instituted tax preferences for inventories, thereby encouraging larger commodity stocks and smaller price fluctuations.

Publicly held buffer stocks are another widely recognized stabilization tool. These usually require purchases and sales of the commodity to defend predetermined floor and ceiling prices within the limits of available financial resources or commodity stocks on hand. The effectiveness of such programs depends largely on the financial resources available for the programs, and on the rules governing the prices at which buffer stocks are bought or sold. In international discussions the United States has therefore favored pure buffer stock programs, which, if properly designed, would not raise the average of the price over time.

Commodity stabilization programs may include production and export controls to defend established price floors. While direct budget outlays are thereby avoided, systems involving production controls are likely to involve serious economic inefficiencies. While the ability of a buffer stock to affect prices is limited by its financial resources, production and export controls can indefinitely hold prices higher than they would be without them. Because the productive potential is unused rather than used to build buffer stocks, such programs can prevent prices from falling, but they cannot be used effectively to keep prices from rising.

Producers' vulnerability to sharp changes in income because of commodity price and quantity fluctuations can also be reduced through international efforts providing loans or grants to producer nations. Such transfers do not affect the price of commodities in the market place, but they can ameliorate the adverse impact of sharp price declines on producing countries. Compared to actions that raise the level of commodity prices, these compensatory measures are a more efficient and less inflationary way to transfer resources between countries. The Compensatory Financing and Buffer Stock facilities of the IMF and the STABEX system of the European Economic Community are operating at present to mitigate the impact of commodity price instability.

Recent Policy Developments

Since 1972, increased attention has focused on arrangements to stabilize commodity prices through internationally managed stockpile programs. International discussions under the auspices of the United Nations Conference on Trade and Development (UNCTAD) led in 1976 to enunciation of the UNCTAD Integrated Commodities Program. This program has provided the framework for discussions on a number of commodities of interest to the developing countries and on a "common fund" for international commodity agreements.

In 1976, and again in 1977, the idea of a common fund to provide additional financial support for international commodity agreements was a focal point of the North-South economic dialogue. As envisioned by the developed countries, the common fund would pool the resources of individual commodity agreements (ICAs) and enable those ICAs needing additional funds for stock accumulation to borrow through the common facility from other ICAs and from the private market. By pooling resources in a common fund, overall financial contributions by member nations to individual stockpiling agreements could be reduced because all ICAs would generally not be accumulating stocks at the same time. Moreover, because it would have broader-based financial backing, a common fund would probably find more ready acceptance in world credit markets than individual commodity agreements. The United States is prepared to participate in a common fund that is structured along these lines.

At the London Economic Summit in May 1977, the seven heads of state noted that it was their goal "to secure productive results from negotiations about the stabilization of commodity prices and the creation of a common fund for individual buffer stock agreements."

Developing countries envision a broader common fund financed by direct government contributions. Such a fund would serve as a source of finance for commodity agreements and would also supplement the functions of existing international financial institutions. Negotiations during 1977 were unable to bridge the conceptual gap between alternative versions of the common fund. However, negotiations will continue in 1978.

The United States attaches great importance to talks on individual commodities. While discussions on a common fund proceed, the United States is participating in talks involving several individual commodities. The United States joined the International Tin Agreement in 1976. Discussions on a commodity agreement for natural rubber, in which the United States has taken part, have made progress, and preliminary discussions on other commodities are getting under way.

Discussions on a system of nationally held wheat reserves, begun in June 1975 under the auspices of the International Wheat Council, are continuing in 1978. The United States favors a new International Wheat Agreement with a reserve system to replace the expiring agreement, which has no such provisions. In the U.S. proposal, each participating country would release or acquire reserve stocks at specified target price levels. Member consultations on additional measures would also be required in the event of extreme oversupply or shortage situations.

There were several major policy developments for sugar in 1977. In March the U.S. International Trade Commission (ITC) found, upon petition, that the domestic sugar industry was being threatened with serious injury by increased imports. It recommended a 5-year annual quota on sugar imports of 4.275 million tons. The President rejected the recommendation, however, and established an interim program of direct payments to U.S. producers. Congress later mandated a program to support the price of sugar in the U.S. market at a minimum of 13.5 cents per pound, but stipulated that it could be terminated if an international sugar agreement would achieve the same objective.

The Sugar Conference sponsored by the United Nations concluded an agreement in October 1977, which comes before the U.S. Congress for ratification early in 1978. The agreement sets minimum and maximum price targets of 11 and 21 cents, respectively. These targets will be defended through a system of export quotas and reserve stocks held by exporting countries. The carrying costs of the stocks will be financed through a fee levied against all sugar traded by member countries. Export quotas will remain in effect until

the world market price rises above 15 cents, a feature that may lead to production cutbacks after exporting countries have accumulated their mandated stockpiles.

This review of the analytical aspects of commodity price stabilization, alongside the reality of actual agreements, highlights critical issues of their design. On the one hand, policies to increase the size of private stockpiles or to develop public buffer stocks can help reduce long-run inflationary pressures. The history of the last 5 years has shown that drastic commodity price movements can hinder economic growth. Yet these commodity programs prevent prices from falling as stocks are acquired, and they absorb scarce capital in stocks that are essentially sterile outlets for a nation's savings. In addition, an agreement that restricts output will raise the long-run average price of a commodity and should be avoided. Higher long-run prices impose costs on commodity-importing developing countries that rank among the world's poorest nations. Alteration of the long-run price trend would also impair the ability of the price system to allocate resources efficiently. For these reasons, the United States will continue to give priority to pure buffer stocks as a price stabilizing technique. Each prospective commodity agreement must be examined in great detail to determine whether it contributes to or detracts from economic performance.

TO MAINTAIN THE GROWTH OF WORLD TRADE

Over the past 25 years world trade has grown more rapidly than world output, playing a key role in economic expansion by widening available markets for raw materials, industrial products, and agricultural goods. During this period the volume of world trade showed a fivefold increase—an average growth of 6.6 percent per year. This growth was facilitated by a major movement to reduce tariffs and other trade restrictions under the auspices of the General Agreement on Tariffs and Trade (GATT). The Kennedy Round of tariff negotiations, which was completed in 1967, resulted in an average reduction of one-third in the tariffs set by industrial countries on industrial products. The growth of world trade was also supported by the reduction of trade barriers on a regional basis, such as the elimination of tariffs within the European Common Market. In 1970 agreement was also reached on a generalized system of preferences for industrial countries' imports from developing countries.

The growth of world trade has slowed since 1974; trade volume was estimated to have expanded only 4 percent in 1977. The slower growth of trade is mainly attributable to the general weakness in the world economy. However, there has been a disturbing reversal of the trend toward trade liberalization; this development has also contributed to the slowing growth of trade. The GATT Secretariat has estimated that new restrictive trade measures have been imposed on 3 to 5 percent of world trade since 1974. The worldwide pressure for protection from imports was also evident in the United States. In 1977 the ITC investigated petitions for import relief by over 20 industries, covering imports of nearly \$5 billion. The ITC recommended increased protection in the form of tariffs or quantitative restrictions on \$3 billion of trade, including shoes, color television receivers, mushrooms, and above-ground swimming pools.

The Benefits of an Open Trading System

Despite rising domestic pressures for protection from imports at home and abroad, the Administration remains committed to a policy of open markets for both U.S. exports and imports. The case for open markets and against import restrictions is strong. In an open trading system a country will export those goods it can produce at relatively lower cost than other countries and import goods that other countries can produce at lower cost. Countries thereby realize gains from trade that make possible higher levels of consumption and investment. Import restrictions reduce these gains. Through an open trading system the United States can obtain larger quantities of goods for consumption and investment than it could by restricting imports and diverting resources from export industries to import-competing industries.

In addition to reducing the gains from trade, the imposition of import restrictions has an immediate inflationary impact. Consumers pay higher import prices and usually higher prices for domestic substitutes as well. Competition from imports not only helps to keep prices down but fosters efficiency and responsiveness among domestic producers. For example, production of attractively priced American small cars has obviously been hastened by the availability of small, low-priced, fuel-efficient imports.

Import restrictions do not increase employment, even if potential retaliation against exports is ignored. As a result of decreased imports and higher domestic prices, there may be an increase in domestic output and employment in the industry that is granted protection from imports. But the higher prices associated with reduced import competition reduce real consumer incomes and hence tend to reduce real consumption and output. In the absence of changes in overall economic policy, the net effect of these opposing tendencies in the protected industry and in the rest of the economy is usually a *reduction* of real output and employment. Only in the rare instances when import protection results in very small price increases and very large import reductions will protective measures increase employment.

Responses to import restrictions will make the net employment reduction larger. Unilateral imposition of new tariffs or quotas invites retaliation through higher barriers for our exports. Indeed GATT rules allow tariffs to be raised on imports from a country that imposes unilateral trade restrictions. Induced upward exchange rate adjustment also decreases the demand for exports. Thus, in most cases, import protection has the effect of shifting employment from dynamic export industries to contracting import-competing industries, while reducing aggregate employment.

Recent restrictions have primarily taken the form of quotas, import licensing requirements, and other nontariff barriers to trade. Quantitative restrictions are more damaging than equivalent tariffs to an open system of world trade. During recessions they provide less protection from imports at a time when business and labor are in a weaker position; during expansions they do not permit imports to play their role as safety valves, limiting sharp price increases when supplies are tight.

Dealing with Trade Problems

Although the advantages of an open trading system are widely understood, two conditions give rise to demands for protection. First, as markets evolve, countries lose comparative advantage in some products and gain comparative advantage in others. For example, as developing countries have entered markets for products that rely primarily on well-established technologies, the more advanced industrial countries have found their comparative advantage shifting to products using more skilled labor and more sophisticated technology. However, firms in industries that have lost markets to new competitors have capital in place, and their workers have specialized skills that make shifting to new industries costly for them. Their demands for protection from imports are often more effectively voiced than the demands of consumers for lower prices, even though the gains to consumers from an open trading system outweigh the costs to domestic firms and workers.

Second, excess capacity and high unemployment increase domestic sensitivity to competition from imports. Under these conditions, displaced labor and capital are less likely to be absorbed in industries where the United States has a comparative advantage. Moreover, imports that might have been considered a welcome supplement to limited domestic production in some industries during periods of high employment are blamed for domestic unemployment during periods of low utilization. Economic slack abroad also adds to trade tensions because it provides an incentive for some foreign producers to increase exports by cutting prices in the U.S. market. Selling abroad at less than home market prices constitutes grounds for assessing countervailing duties under GATT rules if the domestic industry is injured.

Adjustment assistance. The Federal trade adjustment assistance programs are designed to facilitate the adjustment of workers, firms, and communities injured by import competition. They provide readjustment allowances, training, and relocation payments for workers displaced by import competition. Technical and financial assistance is provided to affected firms, and public works money is allocated to trade-impacted communities. The Administration reviewed these programs in 1977 and is implementing a number of administrative improvements. A major effort has been undertaken to speed up and improve the delivery of assistance, and efforts have also been made to tailor assistance to the needs of particular industries. Import relief. Problems created by rapid growth of imports in several industries were so acute that the Administration established temporary import restrictions. These restrictions were intended to provide an opportunity for the affected domestic industries to stabilize, to permit firms to take measures to restore competitive positions, and to allow for more orderly adjustment. In two major cases—footwear and color television receivers where the International Trade Commission had found that increased imports were a substantial cause of serious injury to the domestic industry, the Administration decided to provide temporary import relief. Temporary orderly marketing agreements (OMAs), which are negotiated quotas, were established with major exporting countries. These OMAs will halt the rapid rise of imports and give domestic producers an opportunity to adjust to import competition over the longer term.

Steel trigger prices. Developments in the carbon steel industry presented the Administration with a particularly difficult trade policy problem. Steel industries throughout the world have been especially hard hit by the protracted weakness of economic activity in the industrial countries. Even under moderately optimistic assumptions about the growth of demand, excess steelmaking capacity is likely to persist through 1980.

The cost of production of steel in the United States rose by 89 percent over the past 5 years, according to a study by the Council on Wage and Price Stability (CWPS). The increase in costs was to a significant extent the result of developments within the industry itself. In part, they were the reflection of broader economic forces. Steel wages have risen 27 percent faster than the average manufacturing wage from 1972 to 1977. Raw material and energy costs—particularly coal—have shown very sharp price increases, while pollution abatement costs have risen sharply and will be an increasingly important component of costs in the future. According to CWPS, however, costs have also risen rapidly abroad and the domestic cost of production is not significantly above that of efficient foreign producers plus transportation and tariffs.

Poor domestic sales, reflecting sluggish demand and an increase in the import share, led to a drop in steel production in 1977. This development and other factors led to a series of layoffs and plant closings in 1977. These were concentrated in older steel plants in Ohio, Pennsylvania, and New York. This pattern was dictated by the desire of domestic firms to consolidate their operations in their most efficient installations. The timing and allocation of the layoffs were also affected by provisions in the new labor contract that will increase the cost of layoffs after 1977. The cost of meeting environmental standards at older facilities also played an important role. Thus, the layoffs reflected efforts by the industry to reduce costs over the long term, as well as to respond to the immediate problem of weak demand and import competition. Although several factors contributed to the layoffs, public attention focused on the problem of imports.

The industry filed a series of dumping cases in 1977, some of which led to findings that foreign steel was being sold in the United States below full costs of production. In light of evidence that significant volumes of foreign steel may have been dumped, the Administration developed a program designed to respond to the problems of the steel industry. The centerpiece of the program is a system of trigger prices for steel imports, based on the cost of production in the most efficient foreign country—currently Japan. If imported steel is sold in the United States below the trigger price for that product, an antidumping investigation will be initiated immediately by the Department of the Treasury. The industry maintains the right to file petitions under the regular procedure. Nevertheless, it is hoped that the system will eliminate the necessity for anti-dumping actions.

The trigger price concept has significant advantages over alternative measures. Although in a static and certain world of perfect competition a trigger price, a quota, and a tariff that gave the same protection would have the same effects on prices, their effects differ in practice. A tariff that assured the same protection would have directly increased steel prices by more than the trigger prices will. A quota would have resulted ultimately in an even larger rise in the price of imported steel and reduced competition in steel markets; it would also have undermined incentives for domestic producers to control costs and prices. Under the trigger price system, domestic producers will continue to face foreign competition at prices that reflect the costs of efficient foreign producers. If domestic steel prices are set to meet this competition, domestic producers should be able to regain the market share they lost in 1977.

Progress in Multilateral Trade Negotiations

The Administration has been working with foreign governments to reverse the worldwide slip toward more restrictions on imports and restore the trend toward trade liberalization. These efforts are centered in the round of multilateral trade negotiations now being held in Geneva. After being stalled for some time, the negotiations made significant progress in 1977 with agreement among the major participants on key procedures that will guide the negotiations during 1978. A working hypothesis was developed calling for an average reduction of tariffs on industrial products of about 40 percent. Procedures were established for participants to exchange requests for the reduction of agricultural tariffs and of specific industrial and agricultural nontariff barriers to trade. Draft texts aimed at improving international trading rules were prepared for use as the basis for further negotiation. In January 1978 countries are exchanging specific offers for reductions of tariff and nontariff barriers. This exchange marks the beginning of the final phase of the negotiations.

The trade negotiations are being conducted under difficult conditions in the world economy. These same conditions make it essential that agreement on significant liberalization be reached, however, so that further steps toward protection can be averted, the dynamism of world trade can be restored, and the potential contribution of trade expansion to overall economic growth can be realized.

CHAPTER 4

Inflation and Unemployment

T HE HISTORY OF INFLATION during the past 10 years has been dominated by two major episodes. In each of them a series of events set off a burst of inflation, followed by a period of economic slack during which the rate of price increase subsided only partially. The end result in both instances was a persistently higher rate of inflation. For the last 3 years, the underlying rate of inflation has remained in the 6- to $6\frac{1}{2}$ -percent range despite very high rates of unemployment.

Since 1970 similar developments have characterized the economies of other industrial nations. Throughout the industrial world, economic policy is now confronted with the simultaneous existence of substantial unemployment and strong inflationary momentum.

It is not difficult to identify the sources of the two inflationary episodes during the past decade, nor is it surprising that the resulting inflations were serious, given the magnitude of the initiating forces. What does pose major problems for both economic theory and policy is the persistence of inflation: why it keeps its momentum long after the initial shocks have disappeared and in the face of idle plant and unemployed workers.

Over the next several years, even as recovery proceeds, some slack will remain in our economy. The central task in dealing with inflation in the period immediately ahead will be to find ways to reduce the persistence of the inflation inherited from earlier years. Looking further ahead, a second major task will be to avoid a renewal of inflationary pressures or shocks as we regain a high-employment economy.

The two tasks are related. Unless we succeed in reducing the current rate of inherited inflation over the next several years—while some slack remains in the economy—any tendency for price and wage increases to accelerate in later years will raise the inflation rate from an already high base. If that should occur, prospects for maintaining a stable rate of economic growth with high employment would be endangered.

The problem of inflation amidst unemployment is dealt with here in three parts. The first reviews the two inflationary episodes of the past 10 years and emphasizes the distinction between the initiation and the perpetuation of inflation. The second addresses the particular problem of the present and the immediate future: the momentum of inflation inherited from the past. In doing so, it discusses the forces producing that momentum in the face of economic slack, reviews alternative ways of reducing the inflation rate, points up the advantages and disadvantages associated with each alternative, and outlines a "deceleration standard" for reducing inflation. The third part of the chapter looks farther ahead to the task of preventing the recurrence of renewed inflationary pressures as high employment is approached, focusing on the role of structural employment policies to improve the operation of the labor market and thus to reduce the inflationary pressures associated with an economy near capacity. This section also discusses the need for rapid investment growth to avoid inflationary bottlenecks and scarcities as industrial capacity utilization increases.

A REVIEW OF THE PAST 10 YEARS

EPISODE I: EXCESS DEMAND IN THE LATE 1960s

The current inflation had its roots in the late 1960s. During this period the economy reached very high levels of employment and resource utilization. The unemployment rate was less than 4 percent in every year from 1966 through 1969, when it reached 3.5 percent, the lowest rate since the Korean war. The major factor initiating inflation was the traditional one of excess demand. The economic stimulus from expenditures for the Vietnam war was added to an economy already approaching high employment. The rate of inflation in consumer prices rose from less than 2 percent in 1965 to over 6 percent in 1969.

If the Vietnam war had been financed out of increased taxes, the economic consequences of the added war expenditures would have been less serious. But the temporary increase in taxes in 1968 came well after strong demand pressures had already triggered a significant acceleration in price and wage inflation. Moreover when taxes were raised, monetary policy became more expansive for a brief period, offsetting some of the contractionary impact of the tax increase.

The 1970 Recession

The recession which began in late 1969 undid much of the reduction in unemployment that had been achieved over the prior decade, as the unemployment rate rose to 6 percent by the end of 1970. Yet inflation continued at a rapid pace. The advance of consumer prices did slow, but much of this reduction was due to the impact of declining mortgage interest rates on the consumer price index (CPI). If mortgage interest is excluded, the consumer price index showed little deceleration—from 5.7 percent in 1969 to slightly over 5 percent in 1970 and the first half of 1971 (Table 19). The increase in average hourly earnings in the private nonfarm sector actually accelerated during this period.

TABLE 19.—Changes in consumer prices, all items and selected components, 1970-77 [Percent change 1]

Component	Relative impor- tance, December 1977 (percent) ²	1970	1971	1972	1973	1974	1975	1976	1977
All items	100. 0	5.5	3.4	3. 4	8. 8	12. 2	7.0	4.8	6.8
Food Energy 3 Mortgage interest Other items	24.0 7.4 4.3 64.3	2.2 4.5 6.9 6.0	4.3 3.1 11.0 3.8	4.7 2.8 9 3.1	20. 1 16. 8 14. 7 3. 8	12. 2 21. 6 10. 5 10. 7	6.5 11.6 3.1 6.7	.6 6.9 4.8 6.6	8.0 7.2 1.9 5.9
Medical care	6, 9	7.3	4.8	3. 3	5. 2	12. 4	9.9	10. 1	8.8

Change from December to December, not seasonally adjusted.
 Detail may not add to total due to rounding.
 Gas and electricity, fuel oil and coal, and gasoline and motor oil.

Source: Department of Labor, Bureau of Labor Statistics.

The inflation would not have persisted during the 1970 recession if wages and prices were very sensitive to economic slack. On the basis of the experience of that period, and the similar one more recently, estimates of the size and duration of the demand restraint and output loss that it takes to slow inflation have been revised sharply upward.

Wage and Price Controls

In reaction to the failure of inflation to abate, a wage and price freeze was announced on August 15, 1971, and was followed by wage and price controls. The initial price freeze and the subsequent Phase II of controls did reduce the rate of inflation during the final months of 1971 and throughout 1972. The rise in consumer prices moderated substantially, to about 3 percent in the last half of 1971 and throughout 1972. But the controls had no lasting effect on the rate of inflation. Their relaxation in 1973 coincided with the beginning of a series of developments that inaugurated a new round of inflation. And the increase in business profit margins, which had been squeezed during the control period, contributed to the renewed upsurge in prices.

EPISODE II: THE ACCELERATION OF INFLATION IN 1973-74

The second inflationary episode stemmed in part from excess demand. Between the fourth quarter of 1971 and the first quarter of 1973 the economy grew very rapidly-real gross national product (GNP) increased at an annual rate of 73/4 percent. Among other reasons for this growth was the expansive economic policy pursued. The high-employment budget moved from a \$2.7-billion deficit in 1970 to an \$11.8-billion deficit in 1972; monetary policy was also eased significantly and remained easy through 1972. Unemployment dropped sharply in 1972, and capacity utilization reached high levels, especially in the materials sector. The phased dismantling of controls during 1973 coincided with and contributed to the opening of a new episode of inflationary events.

The major inflationary pressures in 1973 and 1974, however, were not caused by domestic monetary and fiscal policy. The fall of over 20 percent in the value of the U.S. dollar from mid-1971 to mid-1973 helped to cause a rapid rise in exports. Demand for U.S. goods was also increased by the simultaneous economic expansion in all industrial countries. The high operating rates in the rest of the world accentuated the problem of tight domestic capacity, as imports were not available to augment domestic supplies. The most obvious result of this expansion was a rapid rise in prices of industrial commodities. On world markets, prices of basic industrial commodities other than oil more than doubled between mid-1972 and mid-1974. Prices of intermediate products such as primary metals and chemicals also rose sharply in response to worldwide demand.

Other special factors were also at work. Food prices surged in 1973 and 1974 as a consequence of conditions that had been evolving slowly, but were brought into prominence by a series of poor world harvests beginning in 1972. The steep increase in oil prices put into effect by the Organization of Petroleum Exporting Countries (OPEC) in late 1973 caused the energy component of the CPI to rise by nearly 22 percent in 1974 alone; from the end of 1972 through 1975 it rose by nearly 60 percent.

Although each of these special events was sufficiently important to exert a marked impact on the overall price level, the dominant influence was the rise in fuel and food prices. Its force was not limited to direct effects. The pass-through of cost increases into other prices broadened the inflation, and the rise in consumer prices led to efforts by wage earners to recover lost real incomes. The inflation in prices for consumer items other than food, energy, and mortgage interest accelerated from 3.1 percent in 1972 to 3.8 percent in 1973 and to 10.7 percent in 1974. The rate of increase in hourly earnings remained relatively stable at around 6 to 7 percent until controls were removed in April 1974, but then rose sharply to an annual rate of about 10 percent during the remainder of the year. While the rise played a part in spreading the initial shocks through the rest of the economy, it was less than the increase in prices and represented a loss in real wages for workers.

The 1973-74 experience provided vivid evidence of the potential inflationary effects of factors other than aggregate demand pressures. It was, as well, an example of the effects of the downward insensitivity of prices and wages. Price increases in one sector exerted upward pressures in others, rather than leading to a readjustment of relative prices around a stable overall rate of inflation.

THE CURRENT SITUATION

Inflation has moderated substantially from the 12-percent rate of 1974. Improved weather and agricultural production reduced prices of agricultural products at the farm. Despite higher processing costs, the rise in retail food prices during 1976 was limited to less than 1 percent. Energy prices are no longer rising at the extreme rates of earlier years. The rapid growth in prices of other materials has also moderated.

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The slowing or reversal of price increases in these sectors, together with the severity of the 1974–75 recession, did result in a significant moderation of other price increases and wage gains. In 1973 and 1974 compensation per hour rose less than prices, but still climbed sharply. The rate of increase subsequently declined from an annual rate of almost 11 percent in 1974 to about 8 percent in 1975, but has not receded further.

After initial moderation in 1975, the rate of inflation remains high and relatively stable. The rate of increase of consumer prices fell from 1975 to 1976, but then rose again in 1977. These fluctuations were principally due to erratic variations in food and energy prices. Excluding those two categories, consumer prices rose at almost the same 6- to $6\frac{1}{2}$ -percent rate in each year from 1975 through 1977 (Chart 9).

Even allowing for delays in the response of wages and prices to underlying changes in demand, the failure of prices and wages to decelerate over the past several years starkly illustrates the strength of the forces that support inflation in the face of substantial economic slack.

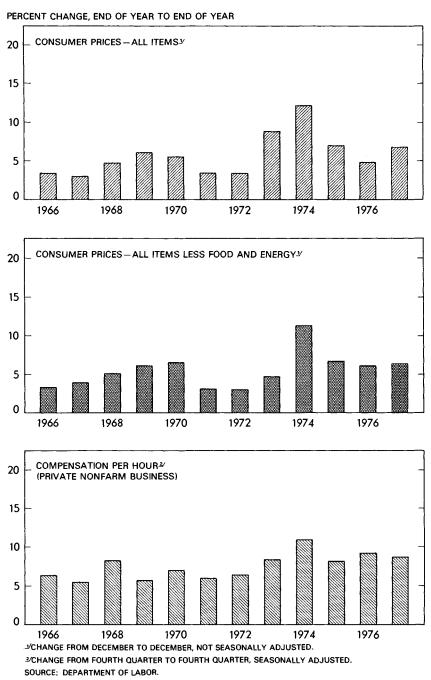
THE MOMENTUM OF INFLATION

An inflationary momentum becomes built into the structure of the economy in several ways. Expectations of inflation and workers' desires to maintain their real wages lead to indexing of wage rates to price increases in both a formal and an informal fashion. Workers as well as their employers are concerned with their wages relative to other workers'. As a result, a wage increase won in one sector of the economy can generate demands for equivalent increases elsewhere, even though economic conditions in individual labor markets may vary significantly. Since an acceleration of inflation is usually uneven in its initial stages, the wage structure becomes distorted, intensifying the conflict over relative wages. The normal reaction is larger wage gains in lagging sectors rather than smaller increases in leading sectors. This process of adjustment makes it difficult to stop the inflation, even after the initiating forces have disappeared.

Widespread belief that inflation will continue also leads businesses to accede to cost increases in the expectation of being able to pass the costs forward into higher prices. These price increases become the basis for still further rounds of wage increases.

In this process of ongoing wage and price increases, it is fruitless to try to identify a villain. While there are winners and losers—some groups do a little better and some a little worse in defending their standard of living the actual changes in the distribution of income between profits and wages have been relatively small lately. The poor performance of real wages in recent years has been the result of poor productivity gains and the higher price of imported oil, not of a shift in income away from workers to other Americans. Poor profits have stemmed principally from low capacity utiliza-





Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis tion and higher energy costs rather than from the pressure of wages on prices. The principal result of the struggle to defend living standards has been continued inflation.

Some of the factors that explain the inflexibility of prices and wages in the face of slack demand can be identified. Complex technology, specialization, and economies of scale have limited price competition in many individual markets. Price reductions are not seen as a means of sustaining revenues and profits during periods of decline in the total market, since each firm perceives that its competitors will match any price cuts. Competition tends to concentrate on other strategies than pricing: quality adjustment, for example, and the introduction of new products. The responsiveness of supply to changing demands is also reduced by the importance of fixed costs in many industries; decisions to expand capacity or enter into new markets must be based on long-term considerations rather than on more immediate changes in market conditions. The cost of entry into many major industries by new firms is often great enough to allow some pricing discretion by those already there.

The existence of formal escalator clauses tends both to increase the speed with which an inflation spreads through the economy and to perpetuate the inflation when it becomes established. In 1970 only one-fourth of workers covered by major collective bargaining agreements were protected by cost-of-living clauses; today 60 percent are (although virtually none of these clauses provide an automatic full escalation of wages to prior inflation). Many employers whose unions have escalator clauses extend the same protection to their nonunion employees. And employers without such escalators face strong pressures to grant wage rate increases that protect workers against inflation to maintain morale and productivity.

The structure of labor markets in modern industrial societies differs significantly from simple models of competitive behavior. Workers do not compete freely for all jobs. Some are denied the most attractive opportunities because of discrimination. Unemployment rates show a wide dispersion among different subgroups of the population, and the search for jobs by some workers does not fully restrain wage increases of others. Entry into the most attractive job markets is also sometimes limited by rules and practices that have often been successful in preventing increases in overall unemployment from putting downward pressures on rates of increase of wages or professional fees. Many firms, because of their interest in maintaining a stable, high-quality labor force, base wage policy on longer-term considerations. Wage rates are often determined by what is considered equitable, and prices are often set on the basis of traditional markups over cost, rather than being based on short-run demand and supply conditions in individual labor and product markets.

These characteristics of wage and price determination have been with us for a long time. Several recent developments, however, may have made the setting of wages and prices even less flexible. The cost of doing business has been steadily increased, in good times and bad, by regulations designed to meet objectives such as clean air and water and improved health and safety of consumers and workers. Another factor may have been the substantial growth of the noncompetitive sector of the economy. This sector (government and nonprofit establishments) represents about 26 percent of total employment today as against less than 20 percent in 1960. Although employment in the regulated industries whose prices are sheltered to a large degree from competitive forces—electric and gas utilities, communications, and most forms of commercial transportation—has not grown as rapidly, wage and price behavior in this sector also differs importantly from the competitive nodel. By 1977 the government, regulated, and nonprofit sectors together accounted for 31 percent of total employment.

Although we cannot measure the extent to which most of these factors impede the downward flexibility of wages and prices, that flexibility does appear to have been reduced during the postwar period, especially in the case of wages. As Table 20 shows, deceleration in wages has been less and less evident with each succeeding contraction. The table exaggerates the problem, since there were strong exogenous forces driving price and wage increases up in the year preceding the cyclical peak in 1948, and even stronger forces driving them up in the recent recession. Nevertheless, some longer-term decrease in downward flexibility, especially of wages, seems evident.

		hourly earning anufacturing		Cons	umer price i	Unemployment rate, wage and salary workers in manufacturing						
Cycle	At cyclical peak	2 quar- ters after trough	Change	At cyclical peak	2 quar- ters after trough	Change	At cyclical peak	2 quar- ters after trough	Change			
	Change from 4 quarters earlier						4-(quarter avera	age			
1948–49 1953–54 1957–58 1960–61 1969–70 1973–75	9.1 5.8 5.0 3.1 6.0 6.6	1.9 2.4 3.6 2.6 6.8 9.5	-7. 2 -3. 4 -1. 4 5 .8 2. 9	4.5 .9 3.5 1.8 5.8 8.4	-0.6 6 1.9 1.2 4.4 8.7	-5.1 -1.5 -1.6 6 -1.4 .3	4. 2 2. 8 4. 6 5. 8 3. 3 4. 3	8.2 7.1 9.3 8.0 6.7 10.4	4, 0 4, 2 4, 7 2, 2 3, 4 6, 1			

TABLE 20—Wage and price changes and unemployment rates over the business cycle [Percent]

¹ Adjusted for ov ertime and interindustry shifts.

Source: Department of Labor, Bureau of Labor Statistics.

At the same time, the acceleration of the inflation rate during the past 10 years cannot chiefly be blamed upon an increasing downward rigidity of wages and prices. Rather it appears to result from the relatively greater magnitude and frequency of the inflationary shocks that have occurred during the recent period, impinging upon an institutional structure of wage and price setting which, for some time, has allowed only very limited downward flexibility, especially in wage determination.

OTHER FACTORS AFFECTING THE CURRENT INFLATION

Among the factors contributing to the high inflation rates of the last decade are changes in the behavior of labor productivity, basic material costs, and price-cost margins.

Productivity

There has been only a small improvement in real incomes throughout the economy in recent years. This can be attributed to the slow growth in productivity (and the large increase in imported oil prices) rather than to a failure to gain large increases in nominal income. From 1950 through 1968 private nonfarm productivity expanded by about 2.6 percent annually (Chart 10). From 1968 through 1977 it rose by about 1.4 percent per year. Part of this difference in performance is caused by the incomplete recovery from the recession: productivity tends to grow faster than its longer-run trend when the economy is on the upswing of a cycle and slower during the downswing. But correcting for cyclical factors still leaves a difference: 2.5 percent in the

Chart 10

INDEX, 1967=100 (RATIO SCALE) 130 120 TREND 110 100 130 90 CYCLICALLY 120 ADJUSTED¹/ 80 ACTUAL 110 70 60 100 1950 1955 1960 1965 1970 1975 1/THE CYCLICAL ADJUSTMENT IS BASED ON A REGRESSION OF PRODUCTIVITY ON THE CURRENT AND LAGGED UNEMPLOYMENT RATE FROM 1950 TO 1968. SOURCES: DEPARTMENT OF LABOR AND COUNCIL OF ECONOMIC ADVISERS.

Productivity in the Private Nonfarm Business Economy

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Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis earlier period against 1.6 percent in recent years. This slowdown is one of the most significant economic problems of recent years. Gains in real living standards must come primarily from improved productivity. Without gains in productivity, improvement in real incomes for some Americans can come only at the expense of others.

In the short run, rapid productivity growth also helps to contain inflation. To the extent that nominal wage gains are determined by the inertia and expectations discussed earlier, productivity growth provides a margin between rising money wages and unit labor costs and thus contributes to lower inflation rates. The substantial growth in productivity was a major factor in the stable price environment of the 1950s and 1960s. A continuation of the slower growth in productivity that has prevailed since 1968 would imply a very stringent limitation on real income growth. It would also increase the difficulty of achieving moderation in the inflation rate.

The causes of the apparent decline in the rate of productivity growth are varied and their effects hard to quantify. Some of the decline may result from the gradual adjustment of the economy to higher energy prices, as more costly resources are substituted for previously cheap energy inputs. But this explanation cannot account for the slower growth before 1974. There is, of course, no reason why productivity should follow a constant upward trend. Since its growth represents the combined effects of technological innovations, changes in skills and education of the work force, improvements in organizational techniques, and a host of other factors, changing patterns should be expected.

The change in the demographic composition of the labor force has also been proposed as an explanation of the slow growth of productivity in recent years. The rise in the proportion of women and younger workers has been a factor in the rise of the unemployment rate, and it might be natural to attribute some slowing of productivity growth to the same phenomenon. But the facts do not support this conclusion. What is important for the growth of productivity is not the share of a particular group in employment, but the growth of that share. Although the percentages of younger workers and of women in total employment have been growing since 1968, the percentages were also growing before 1968. The percentage of younger workers (aged 16 to 24) grew by 0.4 percent a year from 1955 to 1968, and at the same rate since 1968. The growth of the percentage of women in total employment has also remained virtually unchanged, at 0.4 percent. Since these increases have been stable, they cannot have accounted for any significant reduction in the growth rate of productivity.

A more promising explanation may be the behavior of the capital stock. From 1947 to 1968 the capital-labor force ratio grew at an annual rate of about 3 percent. Since then it appears to have grown more slowly, by about 1 percent a year. If one adjusts for the proportion of capital required to meet pollution abatement and safety regulations, the capital-labor ratio would show even less growth. This apparently explains at least some of the slower growth in productivity since 1968.

The accelerated introduction of governmental regulations dealing with environment, health, and safety may also have been responsible for some of the slowdown in official measures of productivity growth. To the extent that additional resources are devoted to specific identifiable activities required to meet environmental, safety, and other social regulations, the effects on productivity are, at least conceptually, measurable. But much of the effect may have come indirectly, through increased limitations on the choice of sites and raw materials, delays in construction, and constraints on production processes. The effect of these is virtually impossible to quantify. Increased regulation has undoubtedly had an impact, but its magnitude remains a matter of conjecture. Insofar as these programs result in improvements in public well-being, we may simply have taken part of our productivity gains in forms that are not measured in GNP.

Much of the low recent growth in productivity may come from the effect the extreme instability of the economy since 1968 has had on investment. Sustained balanced growth may make a substantial contribution toward restoring a more rapid growth of investment, and thus of productivity.

Profit Margins

Firms seemed to absorb part of their cost increases during the late 1960s and the early 1970s, rather than passing them on fully to purchasers. Consequently profit margins declined substantially. Profit margins, adjusted for the effects of inflation, have improved since 1974, however, and appear to be close to their post-World War II average when allowance is made for capacity utilization. (See Chapter 1.) This situation does not characterize all industries, of course, and some movements in prices relative to costs will take place. But as far as the economy as a whole is concerned, attempts to increase profit margins by increases in prices relative to costs should not seriously affect inflation in the near future.

Costs of Materials

From the end of the Korean war until the late 1960s the prices of raw materials declined relative to the general price level. This was an important factor in moderating inflation during this period. The decline was due to a variety of factors, including a large overhang of excess processing and mining capacity, the discovery of large low-cost oil fields abroad, expansion of capacity in foreign countries, major technological improvements in agriculture and mining, a more extensive global search for raw materials, and a major reduction in overseas transport charges. For example, yields per acre of corn in the United States increased by 125 percent from 1950 to 1969, largely because of improved hybrid seeds, better fertilization and pest control, and improved cultural practices. This downward trend in relative prices of materials came to an abrupt end in 1973. In that year alone raw materials prices rose 40 percent. This explosive rise can be attributed to lagging growth of capacity during prior years, a series of crop failures in several areas of the world, the enormous growth in demand created by the simultaneous economic expansion in the industrial countries, the development of speculation and a "shortage mentality," and above all the actions of OPEC. This explosion appears to have ended. Although there is no reason to believe that prices of raw materials will climb as abruptly in the near future as they did in 1972–74, neither should one expect them to decline relative to other prices, as they did prior to 1970.

Government Policies

Government policies directly affect the price level. The most obvious examples are increases in sales or payroll taxes, since they add to prices and costs. A rise of 1 percentage point in the sales tax rate shows up fairly directly in prices. Changes in payroll taxes have a similar effect by raising labor costs, which are then passed on in higher prices. The employer's share of social insurance contributions (including social security and unemployment insurance) has risen from only 2.7 percent of total employee compensation in 1950 to over 6.8 percent in 1977, and to over 7 percent in 1978, when higher unemployment insurance and social security taxes take effect.

The government may also add to prices through other forms of legislation or through regulation. A change in the minimum wage law is an example. Mandating an increase in the wage paid by the employer raises the cost of production and increases prices. Expenditures that are required to meet environmental and safety regulations add to costs. The environmental benefits or added safety may be well worth the resources devoted to them, but the rate of inflation is affected. Government regulations may also have an unfavorable effect on prices by restricting competition. When international competition is restricted through tariffs or quotas, domestic producers are able to raise their prices. Domestic competition is also restricted by various regulatory agencies that set uniform rates and hamper the entry of new firms. Some of these issues are discussed further in Chapter 5.

GROWTH AND INFLATION

In the traditional view, the cure for inflation is a dose of fiscal and monetary restraint designed to reduce aggregate demand and thereby eliminate the conditions generating the inflation. When inflation is being fed by excess demand—tight labor markets and intensive use of industrial capacity elimination of that excess is indeed a prerequisite to controlling inflation and preventing it from accelerating further. Moreover, if the rate of increase in wages and prices responded readily to excess supply, a reduction in demand sufficient to produce a modest and short-lived amount of economic slack would eliminate the inflation quickly. As we have seen, however, the essence of the present inflation problem is that the rate of wage and price increase reacts very slowly to idle resources and excess supply. Given this fact, an attempt to purge inflation from the system by sharp restrictions on demand would require a long period of very high unemployment and low utilization of capacity.

Most current estimates of the reaction of inflation to economic conditions indicate that a continuation of the current degree of slack (an unemployment rate near $6\frac{1}{2}$ percent) would reduce inflation by amounts that at the upper end of the range are no more than one-half percentage point a year. In the absence of future inflationary shocks (for example, a rise in world materials prices), it would take at least 6 years of the current degree of economic slack to cut the inflation rate from 6 to 3 percent. To achieve the same results in less time would require even higher unemployment rates.

Not only would this policy entail a prolonged effort, it would also be extremely expensive in terms of lost output. Maintaining the current level of economic slack means producing approximately \$100 billion a year less than the potential output of the economy.

To cut the current inflation rate in half, the lost output would amount to at least \$600 billion (at 1977 prices). Moreover, to the extent that such a policy kept the rate of investment low, any attempt to restore high employment promptly, after the slack had disappeared, would probably soon encounter inflationary shortages of plant capacity.

USING THE TAX SYSTEM TO REDUCE THE MOMENTUM OF INFLATION

Various proposals have been offered in recent years to utilize changes in taxes to influence wage and price behavior directly. One set of proposals involves an attempt to break the momentum of the current inflation through one-time reductions in sales taxes or employer payroll taxes. Since the persistence of inflation during periods of economic slack stems partly from the sequence in which price increases induce wage increases that induce still further price increases, even a one-shot slowdown in the rate of price increase might halt the momentum and start unwinding the spiral.

The Federal Government has no general sales tax. It does have a series of specific excise taxes. Eliminating those on alcohol and tobacco hardly seems an appropriate measure to combat inflation, if only because the initial impact would be so unevenly distributed across the population. Most of the other excise taxes are earmarked for particular purposes, such as the highway and airport trust funds. The only sizable excise that remains, the tax on telephone service, is marked for elimination in fiscal 1979 under the President's proposed tax program.

State governments are the principal units that levy general sales taxes. Conceivably, the Federal Government could make grants to the States conditioned on their using the funds to reduce sales taxes. Serious problems of equity and administration must be solved before such an approach could be made to work. Five States have no sales tax. The taxable base varies widely among the States—some, for example, include food while others do not. Unless the grants were permanent, their cutoff could lead to a sudden return of sales tax rates to higher levels with the consequent addition to inflation. And even if the grants were continued indefinitely, the States could hardly be asked never to raise sales taxes once they had been lowered.

Payroll taxes are levied by the Federal Government, and the receipts flow into several trust funds to pay for various social insurance programs. That part of the taxes that is levied on employers is a direct addition to payroll costs and tends to be passed on in the form of higher prices.

Reducing employer payroll taxes would lead to a one-time reduction in costs and prices. The President has proposed, as a modest step in this direction, reducing the Federal portion of the unemployment insurance tax from 0.7 to 0.5 percent of covered payrolls. This reduction would lower tax liability by \$800 million per year. But a cut large enough to produce a significant reduction in costs and prices would require a substantial change in national policy with respect to large-scale general revenue financing of the social insurance trust funds. While such a change in national policy might indeed be worth considering, it cannot be made without lengthy debate and appraisal encompassing far more than its merits as an anti-inflation tool.

One-time reductions in sales or payroll taxes to combat inflation need careful evaluation with respect not only to their administrative and related aspects, but also to their efficacy as anti-inflation measures. Roughly speaking, a \$15- to \$18-billion permanent reduction in sales taxes or payroll taxes would be needed to reduce the level of costs and prices by 1 percent. Would such a one-time reduction be enough to turn the momentum of inflation downward? That is, would the secondary effects—the effect of lower prices in slowing wage increases that in turn lead to still smaller price increases be sufficient to affect the rate of inflation during subsequent periods? In part the answer would depend on what happened to expectations about future price and wage increases. No answer can be made with confidence, however, so long as we cannot quantify the strength of the various mechanisms that perpetuate inflation.

Another quite different set of proposals would use taxes as an incentive for workers and business firms to moderate wage and price increases. In one variant the government would levy a special tax upon wage increases in excess of some standard, and—in some versions—upon increases in pricecost margins of business firms. In another variant, instead of levying a tax increase, the government would offer a tax reduction to firms and groups of workers whose wage increases were held at or below the standard. Given the recent history of inflation, the chosen standard would not be expected to result in an immediate return to price stability, but would be sufficiently far below recent increases in wages to produce a significant deceleration in inflation. To continue the deceleration the tax (or subsidy) could be repeated, at least for a few years, with a lower standard each year.

Significant administrative problems are obviously entailed in any such proposal. How are wage rates (and fringe benefits) to be measured? What about multiyear union contracts, with low increases in the first year to avoid the tax or reap the subsidy, followed by large increases in the second year? Important economic questions also arise. Would a tax on the wage increases that are considered excessive simply be passed along by firms with substantial market power and strong unions and thus actually increase inflation? (The tax reduction variant would not suffer from this particular problem.) If carried on for a number of years, such measures could place a penalty on needed changes in relative wages and prices and could impede the restoration of equitable wage relationships for those who had been lagging in the adjustment to inflation. If imposed for only 1 year, they might not be sufficiently effective to break the momentum of inflation. And from the standpoint of labor and management, such measures might be viewed as giving the Internal Revenue Service some of the characteristics of a separate wage and price control agency.

It is not difficult to find administrative and equity problems and to raise unanswered questions about all these proposals. They are relatively novel and have not been fully evaluated or widely discussed. It would be imprudent to propose introducing any of them on a major scale before subjecting them to a much more complete evaluation and wider discussion with respect to their economic effectiveness, administrative feasibility, and social equity. On the other hand, the momentum of inflation is so strong, and the consequences of either allowing it to continue or trying to wring it out with excessively slow economic growth are so serious, that they should not be dismissed out of hand. Further economic evaluation and a much broader public debate would be very healthy, whatever its outcome.

A DECELERATION STRATEGY

While the forces at work in the economy are not likely to produce an acceleration of inflation in the next year or two, neither are they likely to lead to a deceleration. Supplies of labor and industrial capacity will be ample, but unemployment and excess capacity will be less than in the past 2 years, during which the underlying inflation rate did not diminish significantly. Bringing inflation down gradually in the next several years will clearly require a special effort.

If inflation is to decelerate, reliance cannot be placed on sharply lower price increases in one or two markets. The acceleration of inflation has been pervasive across all major sectors of the economy. Significant variations in rates of price increase have occurred among the various sectors—reflecting differences in productivity growth rates and underlying cost trends. But all of the major components of the consumer price index have experienced a large rise in the rate of increase since the early 1960s.

Progress in moderating overall inflation must involve deceleration of wages and prices simultaneously. To bring this process about the President has asked business and labor to undertake voluntarily a program of price and wage deceleration.

This new program starts from the presumption that significant deceleration should be achieved in each market. Individual industries are asked to aim in 1978 at smaller price and wage increases than the average for the past 2 years. The amount of deceleration that can be achieved will vary from situation to situation, however, because individual industries face different circumstances. The accumulated experience of the recent past high unemployment and sharp inflation—has distorted the structure of wages, prices, and profits compared to what they would have been in a period of price stability. Deceleration must be widespread, but allowances must be made for variations in the degree of moderation.

On the wage side, there has been a wide dispersion of wage rate increases in recent years. In those sectors of the economy characterized by large enterprises and union organizations, rates of increase in wages and private fringes typically have been in the range of 8 to 9 percent annually, with little change since 1975. On the other hand, the high level of unemployment has had a moderating influence on wage settlements in more fragmented labor markets composed of smaller firms, smaller unions, and unorganized labor. As a consequence, there has been a significant widening of wage rate differentials among groups in the labor force.

These wage differentials would under normal circumstances result in larger wage increases in the more competitive labor markets and a gradual narrowing of these wage differences. But such an outcome would imply a higher overall rate of wage inflation. Thus, an equitable effort to moderate the average rate of wage increase must be based on a greater degree of deceleration by those who have received the largest increases in recent years. There may be very special situations in which wage gains have lagged so far behind the rest of the economy that deceleration is not possible.

Some guidance in analyzing recent shifts in the wage structure can be obtained from an examination of historical trends in relative wages. But variations in the wage structure should be expected in response to evolving market conditions. Such changes in the structure will be associated with skill changes, locational shifts of firms, changes in productivity trends, and other factors that affect the competitive position of a specific industry. Deceleration in the rate of price inflation will contribute to moderation of the increase in employment costs directly through cost-of-living adjustments in wage contracts and indirectly through its effect on wage bargains. However, more than a passive response is needed to achieve significant deceleration of wage increases. On the price side, there are similar reasons why a uniform degree of price deceleration is not feasible. Firms that previously had lowered their pricecost margins in response to slack demand must restore them to more normal levels as the economic recovery continues. But in those cases where profits have declined primarily in response to a low level of sales and capacity utilization, improvements in profits should come from higher volume rather than increased prices. The degree of price deceleration that is achievable in individual situations also will be affected by variations in raw material prices, by costs mandated by government—for example, changes in payroll taxes, minimum wages, or regulatory programs—and by the magnitude of cost increases incurred under labor and material contracts signed in prior years. Adherence to the goal of price deceleration can contribute to improved productivity by intensifying efforts to reduce costs.

If a program for deceleration of inflation is to succeed, it will require strong efforts and cooperation at the level of individual industries. Thus, early discussion between government and individual industry and labor groups with respect to specific inflation problems would be an important part of the deceleration effort. On the price side, the staff of the Council on Wage and Price Stability will undertake an analysis of the outlook for market conditions and cost trends in those specific situations where difficulties can be anticipated in achieving the deceleration objective over the course of the year. Members of the Administration will participate in informal private discussions with firms or industry groups based upon staff review of the price-cost outlook and major problems of the industry. The discussions would seek to identify problem areas in such matters as costs, capacity, productivity, regulatory measures, and government policies, and would examine specific actions the parties could take to help in the moderation of price and cost increases. Implicit criteria for selecting industries for such study and discussions would include their broad impact on costs, their potential for setting wage or price patterns, and the occurrence of other major developments affecting prices or costs.

Similar informal discussions with union leaders should occur well before the beginning of bargaining. They would focus on a review of past trends in relative wages, effects of the previous settlement, productivity, and other economic conditions. These discussions would provide an opportunity to emphasize the importance of deceleration and improvements in productivity, and to review potential barriers to achieving deceleration.

Developments with regard to food prices are likely to be helpful to the deceleration process. As noted in Chapter 2, the rise of food prices is likely to be considerably smaller in 1978 than it was in 1977. Also, if present indications of no change in world petroleum prices during 1978 are borne out, the prices paid by consumers for energy will continue to reflect a gradual adjustment of domestic prices to world levels. If a one-half percentage point annual deceleration could be achieved in the rate of price increase for consumer prices excluding food and fuel, then the reduction in the inflation rate for the consumer price index as a whole would be larger if food and fuel prices move as expected.

Table 21 traces the history of changes in broad categories of the consumer price index, and in the major components of unit labor costs since 1960. The table shows separately the rate of increase in consumer prices for all items other than food and energy since short-run changes in the volatile farm component of the retail food basket and in energy prices are not an indication of longer-term trends.

[Percent]										
ltem	Relative impor- tance, December 1977 (percent) ¹	1960 to 1965	1965 to 1970	1970 to 1975	1976	1977 ²				
Consumer prices										
All items	100.0	1.3	4.5	6.9	4.8	6.8				
Food Energy All items less food and energy	7.4	1.5 .4 1.4	3.7 2.5 5.0	9.4 10.9 5.7	.6 6.9 6.1	8.0 7.2 6.4				
Commodities Services	33.7 35.0	. 8 2. 2	3.7 6.4	5.1 6.4	5.3 6.9	4.7 7.9				
Private nonfarm business										
Compensation per hour		4.0	6.5	7.9	9. 2	8.6				
Contribution of:										
Wages and private fringes Employment taxes		3.8 .2	6.0 .5	7.1 .8	8.5 .7	8.1 .5				
Productivity		4.0	1. 2	1.4	3. 2	2.7				
Unit labor costs		.0	5.2	6.4	5.8	5.7				

TABLE 21.—Annual	rate o	of change	in	selected	components	of	the	consumer	price
	ind	ex and em	plo	yment co	sts, 1960–77				

¹ Detail may not add to total due to rounding.

² Preliminary.

Note.—Changes are measured from December to December for prices and from fourth quarter to fourth quarter for employment costs.

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

For all items except food and energy, the inflation rate was stable at just over 6 percent during 1976 and 1977. If an average deceleration of one-half a percentage point could be achieved in 1978 for this broad category of consumer prices, the decline in the rate of inflation for the CPI as a whole could be somewhat larger because of developments in food and energy prices. Food prices in 1978 should rise by significantly less than in 1977, more than offsetting a possible faster rise in energy prices. Excluding used cars, whose prices fell sharply in 1977, the degree of achievable deceleration for the consumer commodity group should be roughly similar to that of services. Actual rates of price increase would, of course, vary among major categories, as they normally do. Prices of consumer commodities should rise by less than prices of services because of the larger productivity gains.

Since the degree of deceleration will not be the same in all cases, the achievement of one-half percentage point deceleration for the underlying rate of inflation will require that a larger deceleration occur in most situations. Unless that is done, the end result will be a deceleration substantially less than the one-half percentage point.

Determining the degree of deceleration in costs consistent with the assumed deceleration of prices requires consideration of what has happened to profit margins. Profit margins, adjusted for capacity utilization, are close to the postwar average. Without that adjustment, profits are below average. Cyclical deviations in productivity from the long-run trend which are closely related to rates of capacity utilization—are typically reflected in variations in profits rather than in prices, actual unit labor costs rising relative to prices in recession and falling in recovery. On average, standard unit labor costs should decelerate at about the same rate as the underlying rate of inflation, since a greater deceleration of prices than costs would reduce profit margins below long-run average levels.

Payroll taxes for social security and unemployment insurance will increase sharply in 1978 and 1979. Achieving a one-half percentage point deceleration in unit labor costs will therefore require a larger moderation of increases in wages and private fringe benefits. At the same time, however, because of the larger than average deceleration in food prices, the rise in the overall consumer price index would slow down more than the underlying rate of inflation. As a consequence, significant gains in real wages and fringes would be achieved.

A focus upon the objective of decelerating inflation at the level of individual markets has several advantages. First, it is an explicit and easily understood standard for individual price and wage situations, set forth well in advance of any specific decision. It recognizes that basic rates of price increase must vary among markets because of differences in productivity growth and material cost trends. Yet virtually all should be able to achieve some deceleration. This objective does not interfere unduly with normal market functions. Individual firms continue to be responsible for their own cost increases rather than being subjected to some vague concept of cost pass-through. Finally, it provides a conceptual basis as a guide in identifying the specific sectors where efforts to reduce inflation should focus. For regulated industries and governmental operations, it would provide a framework for evaluating and coordinating a wide range of government policies that affect prices and costs. On the wage side, it recognizes that recent increases have varied substantially among different groups of workers, but it seeks to moderate distortions in the wage structure principally by different degrees of deceleration rather than by a speeding up of wage increases in lagging sectors.

CAPACITY UTILIZATION

Reduction of the ongoing rate of inflation during the expected economic slack in the next few years would do much to prolong the recovery. But we must also deal with another challenge—ensuring that we do not incur a new round of inflationary pressures as we return to high employment and capacity utilization.

In 1973, shortages of capacity, principally in materials-producing industries, contributed to the acceleration of inflation. At present, capacity relative to output is ample in virtually every industry; but as unemployment declines between now and 1981, output and employment will rise faster than trend. And since 1973 the labor force has grown more rapidly than the stock of fixed business capital. Will industrial capacity be sufficient to prevent shortages from setting off a new round of inflation as the economy approaches high employment?

The capacity shortages in 1973 developed at the end of a period in which industrial capacity had increased fairly rapidly. Between 1965 and 1973 the net real stock of fixed business capital excluding pollution abatement equipment grew at 4.4 percent per year. During the same period, the labor force (minus employment in the government sector) grew at a 1.9-percent annual rate. Even with this difference between the growth rates of labor and capital in the private sector, a number of industries experienced shortages in capacity in 1973. By contrast, in the 1973–76 period the annual growth rate of fixed capital stock, excluding that part devoted to pollution abatement, decreased substantially to 1.9 percent, while the private labor supply grew at 2.3 percent annually. This comparison of growth rates of labor and capital and the observed capacity shortages in 1973 are in themselves enough to arouse concern about capacity constraints in 1981 or even sooner.

The capacity shortages in 1973 were made more critical, however, by two factors that are not likely to recur in the next 4 years. First, output in virtually all industrial countries reached a peak simultaneously in 1973. This meant that substantial pressure was placed on world markets for many different industrial products and raw materials. Shortages in the United States could not be relieved by imports at existing or only slightly increased prices. Second, the price rise associated with the simultaneous surge in demand generated speculative building of inventories across a wide range of commodities both here and abroad. This inventory accumulation remained a profitable activity as long as prices rose faster than the sum of storage costs plus the nominal rate of interest. Economic growth is now below trend in all industrial countries. This slow growth and the worldwide persistence of excess capacity in most major industries make a recurrence of worldwide capacity problems unlikely. In steel, for example, the capacity utilization rate in 1973 was 97 percent in the United States, 92 percent in Japan, and 85 percent in Europe. Currently the average of these rates is less than 75 percent, and there is little chance that levels similar to those in 1973 will be

Digitized for FRASER http://fraser.stlouisfed?dfg⁴⁷ 0 - 78 - 11 Federal Reserve Bank of St. Louis reached by 1981, even under optimistic assumptions about the growth of demand in Europe and Japan. The availability of many basic commodities from foreign sources to supplement domestic output when it approaches capacity reduces the probability of price-raising shortages and speculative inventory accumulation.

PAST TRENDS IN THE UTILIZATION OF CAPITAL

Table 22 summarizes capacity utilization estimates prepared by the Federal Reserve Board for manufacturing and major industrial groupings. In general the current capacity utilization measures indicate sufficient industrial capacity to accommodate above-trend growth in output for at least 2 years.

 TABLE 22.—Capacity utilization in manufacturing and materials industries, selected

 periods, 1955-77

	l	Manufacturing			Industrial materials							
Period	Total	Advanced processing	Primary processing	Total	Durable materials	Nondurable materials	Energy materials					
955: I II III IV	84. 5 87. 4 87. 5 88. 6	82. 4 84. 6 84. 3 85. 6	88. 3 92. 4 93. 4 93. 9									
966: I II III IV	91. 1 91. 6 91. 2 90. 6	91.0 91.5 91.0 90.9	91. 8 92. 0 91. 9 90. 1									
969: I II III IV	87.2 86.5 86.4 84.8	86, 3 85, 4 85, 2 82, 9	88. 9 88. 4 88. 6 88. 4	89. 4 89. 6 90. 4 89. 6	87. 9 87. 7 89. 4 88. 2	91, 0 91, 2 90, 7 89, 8	91 92 93					
973: 1 41 111 1V	87.1 87.6 87.8 87.7	84.5 85.2 85.0 85.0	91.8 92.1 92.7 93.0	92. 1 92. 5 92. 9 92. 1	90.6 91.6 92.3 91.4	93. 9 93. 6 93. 4 93. 7	93 93 94 92					
76: V	79.1 80.3 80.8 80.6	78.0 79.1 79.5 79.7	81. 0 82. 5 83. 1 82. 2	79.3 80.7 81.2 80.3	73.8 76.7 78.4 76.5	85.6 86.0 84.8 84.4	85 84 83 84					
77: I II III IV	81. 2 82. 7 83. 0 82. 8	80.5 81.4 81.9 81.8	82.3 85.1 84.9 84.8	80. 4 82. 6 82. 3 82. 3	76. 5 79. 4 79. 2 79. 6	85. 1 87. 2 86. 3 86. 3	84 84 85 (1					

¹ Not available.

Source: Board of Governors of the Federal Reserve System.

Capacity utilization for all manufacturing industries was 82.8 percent in the fourth quarter of 1977, 5 percentage points below the level attained in 1973 and nearly 9 percentage points below the 1966 peak. Capacity utilization in materials, a category that contains mining and utilities as well as unfinished manufacturers, was almost 11 percentage points below its previous peak in 1973.

The interpretation of capacity utilization statistics is complicated, however, by a number of factors. First, no measure of the utilization of capital covers the entire economy. The broadest-based measure obtainable is for the

Federal Reserve Bank of St. Louis

manufacturing sector, which in 1977 accounted for only about 25 percent of private GNP and 20 percent of the fixed private nonresidential capital stock. While it is reasonable to assume that capacity utilization outside of manufacturing is strongly correlated with the manufacturing capacity utilization rate, substantial variation between disaggregated measures of capacity utilization does exist. For example, between 1962 and 1966 capacity utilization rose more rapidly than might have been expected because the share of manufacturing output in the total increased. Between 1966 and 1968 the manufacturing share fell and capacity utilization declined, even though GNP remained high relative to potential. Only tentative conclusions about the adequacy of aggregate capital formation can be reached from relatively narrow measures of capacity utilization.

In industries except those with continuous processes (like chemicals, paper, and steel), the possibility of adding a second or third shift to increase output without adding to the physical capital stock creates additional ambiguity. In many sectors of the economy, particularly ones producing finished goods, production is relatively labor-intensive; in a given plant, output can be increased by adding employment with very little deterioration in productivity. In these sectors, measured capacity utilization may rise very slowly in relation to output when output is high.

Advanced-processing Versus Materials-producing Industries

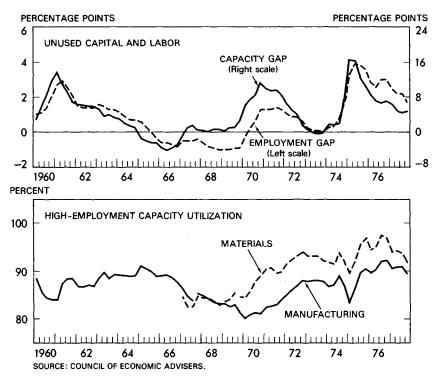
The data in Table 22 show a sharp difference between the advancedprocessing industries and the primary-processing and materials industries. During the fourth quarter of 1977 capacity utilization rates in advancedprocessing industries were only 3 percentage points below those reached in 1973. But in 1973 capacity shortages were not apparent in such industries, nor did price pressures originate in those areas; indeed, utilization rates were substantially lower, by about 6 percentage points, than they had been in 1966. Capacity utilization in primary-processing and materials industries, however, which was quite high in 1973, was well below those levels in late 1977, by about 8 points for primary-processing industries and 11 points for materials. Many of these industries created additional capacity in response to the high utilization rates of 1973. The 41/2-point difference in capacity utilization for manufacturing as a whole between 1973 and late 1977 thus understates the extent that capacity is available to accommodate above-trend gains in output in the next several years without generating inflationary shortages. Most advanced-processing industries should be able to add extra shifts to expand capacity without extraordinary price increases.

Labor Utilization Versus Capital Utilization

While the growth in domestic output now in prospect for 1978 and 1979 and projections of excess capacity in other industrial nations make widespread capacity bottlenecks unlikely in the next 2 years, a longer-run imbalance between capital and labor resources remains a question. The relation of unused labor services to unused capital services is illustrated in Chart 11. The capacity gap is the difference between the Federal Reserve Board capacity utilization index and 87.5 percent, the level attained at times when the unemployment rate was close to high employment. The employment gap is the difference between the overall unemployment rate and the high-employment benchmark. During the 1960s very large investment expenditures increased the capital stock substantially. As a consequence, in 1967–69, when the labor market became very tight, with a negative employment gap, the capacity utilization rate remained at or below 87 percent. Since then, however, the employment gap has drifted upward relative to the capacity gap; for any given unemployment rate the observed capacity utilization rate has increased.

A related measure of this capital-labor imbalance is the high-employment capacity utilization rate shown in Chart 11. By estimating the average relation between changes in the unemployment rate and changes in the capacity utilization rate, one can obtain the capacity utilization that would be achieved in any period if unemployment were at its high-employment

Chart 11



Relationship Between Capital and Labor Utilization

Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis benchmark. The concept of high-employment capacity utilization is an attempt to provide a cyclically adjusted measure of the balance between eapital and labor resources. As Chart 11 indicates, high-employment capacity utilization for manufacturing, currently at 90 percent, is significantly higher than it has been in the past; the postwar average is 86 percent.

For materials, data prior to 1967 are not available. The high-employment capacity utilization rate did move up between then and 1973. After some fluctuations, the rate in the fourth quarter of 1977 was at about the 1973 level. In general, the rise in the high-employment capacity utilization rate suggests that there could be pressures on capacity as the economy returns to high employment if business fixed investment does not increase substantially.

The estimates in Chart 11 also provide some comfort. In the early 1960s the high-employment capacity utilization rate was also high. The prior period of slack demand and underutilized resources had resulted in poor investment performance and the slowing of growth in the capital stock relative to the labor force. But the subsequent period of high investment did succeed in increasing the availability of capacity, so that by the second half of the decade the high-employment capacity utilization rate had fallen significantly.

CAPACITY UTILIZATION THROUGH 1981

The fact that measures of existing capacity utilization cover only part of the capital stock, and the conceptual problems noted earlier, mean that only tentative conclusions about the adequacy of the capital stock can be drawn from available utilization statistics. A rough indication of the rise in manufacturing capacity utilization that may accompany the projected real GNP growth of 4.8 percent per year between 1977 and 1981 can be obtained by observing the capacity utilization growth experienced in 1962–68, when real output grew steadily at above-trend rates, and real investment grew more rapidly than real output. If the relation between real GNP growth and capacity utilization in 1962-68 is matched in 1977-81, an annual 4.8 percent growth in real GNP would raise the manufacturing capacity utilization rate by 1.5 percentage points a year. By 1981 the utilization rate would reach 89 percent, slightly above 1973 but less than the 1966 level. In view of the current capacity utilization differences among industries and particularly the current large unused capacity in materials industries, such an outcome should be consistent with the avoidance of inflation stemming from capacity shortages. If, on the other hand, investment and capacity growth proceed at a significantly lower rate, capacity utilization would rise to levels previously associated with inflation.

THE LABOR MARKET

Monetary and fiscal policies can provide the conditions under which economic growth proceeds fast enough to reduce the overall unemployment rate. Such policies alone, however, cannot reduce unemployment to acceptable levels without a significant risk of accelerating inflation.

The incidence of unemployment differs widely throughout the population. In both good and bad times, youth, minorities, women, and those with less education face a much greater likelihood of being unemployed than white male adults with good education. As a consequence, when the overall unemployment rate declines to low levels, unemployment among the more favored groups becomes very small, labor shortages occur, and the rate of wage and price increase accelerates. Yet less favored groups continue to suffer high though diminished unemployment.

The uneven incidence of unemployment requires that monetary and fiscal policies to deal with aggregate unemployment be accompanied by structural policies to deal directly with the labor market problems of groups with persistently high unemployment.

THE STRUCTURE OF UNEMPLOYMENT

Although unemployment rates have recovered to a great extent from the 1975 recession, they have not yet reached the levels normally associated with high employment. As is seen in Table 23, all of the unemployment rates by age, race, and sex were higher in 1977 than in 1956, 1965, and 1973years of low overall unemployment in which labor markets were apparently close to balance. It would thus be wrong to conclude that all of the current high rate of unemployment is frictional or structural (i.e., that the present unemployment rate could not be lowered through an increase in aggregate demand without increasing the rate of inflation). There are, however, a number of structural problems revealed in Table 23, and it is useful to examine each of them in detail.

Unemployment differentials have been persistently observed in our economy. They exist between blacks and whites, teenagers and adults, and women and men. Part of the explanation of such differentials has to do with different patterns of turnover, skill level, labor market attachment,

Group	1956 ²	1965 ²	1968	1973 111	1975 H	1977 IV
Total	4. 2	4.6	3.6	4.8	8. 9	6.6
White: Males 20 years and over Females 20 years and over Teenagers	2.7 3.9 9.1	2.6 4.2 12.3	2.0 3.4 11.0	2.8 4.4 12.2	6.5 8.0 18.3	4. 2 6. 0 14. 1
Black and other: ³ Males 20 years and over Females 20 years and over Teenagers	6.7 9.4 16.6	5.4 9.0 24.6	3.9 6.3 25.0	6.0 8.1 31.5	12. 0 11. 8 36. 7	10. 1 11. 8 38. 3

TABLE	23Unemployment	rates	by	race,	sex,	and	age,	selected	periods,	1956-77

[Percent 1]

Percent of civilian labor force in group specified; quarterly data seasonally adjusted.
 Data adjusted for change in definitions in 1967.
 Blacks comprise about 89 percent of total black and other in the labor force.

Source: Department of Labor, Bureau of Labor Statistics.

location, and other factors that may be quantified. Differentials may also be due to factors, such as discrimination, that are less quantifiable but also important in understanding the structure of unemployment.

Youth Unemployment

Teenagers comprised only 10 percent of the labor force in the fourth quarter of 1977, but they accounted for 24 percent of all unemployment. This problem is better understood by examining two separate questions: Why is teenage unemployment different from adult unemployment? And why is black teenage unemployment much higher than white teenage unemployment?

White teenagers, like other groups, still suffer from cyclical unemployment, but there is less structural unemployment than would appear simply from a comparison of white teenage unemployment rates with those of white adults. During periods of general economic prosperity much of the unemployment of white teenagers results from decisions to leave and reenter the labor force. For most younger teenagers-those 16 to 17 years old-employment is a secondary (or tertiary) activity, and jobs are considered only as temporary. For older teenagers there also is much turnover in the trial and error process of finding a long-term career job. A recent study has shown that between 1967 and 1973 the average number of teenagers who left employment and withdrew from the labor force in any given month ranged for different race-sex groups from 12 to 20 percent of total teenage employment. The corresponding figure for males aged 25 to 59 was 0.4 to 1.1 percent.

The higher labor force turnover rates for teenagers are shown in Table 24, where unemployment rates of teenagers and adult males and females are classified according to the reason for unemployment. The proportion of the total teenage labor force that is unemployed because they lost their last job is not much higher than for adults, but the fraction unemployed as a result of either leaving their last job or entering or reentering the labor force is a great deal higher than for adults. The data in Table 24 may to some extent understate the relative importance of unemployment among adult females and teenagers associated with job loss. Some of those in the reentrant category may have been discouraged workers who previously dropped out of the labor force after losing their last job.

Group	Total 1	Males 20 years and over ²	Females 20 years and over ²	Teenagers 2						
Total Job losers Job leavers New entrants to the labor force Reentrants	7.0 3.2 .9 1.0 2.0	5. 2 3. 4 . 6 . 2 1. 0	7.0 2.8 1.2 .4 2.6	17.7 3.4 1.7 7.6 5.1						

TABLE 24.—Unemployment rates	by reasons f	for unemployment,	1977
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(Porcont)

¹ Percent of civilian labor force. ² Percent of civilian labor force in sex/age group specified.

Source: Department of Labor, Bureau of Labor Statistics.

If labor markets were tighter, as in the late 1960s and 1973, the duration of job search, and therefore the unemployment rate of teenagers, would fall. The instability of the teenage labor force, however, would prevent the rate from falling to a level comparable to that of adults. Thus, the white teenage unemployment rate was 12.2 percent during the 1973 boom and averaged 11.0 percent in the midst of the Vietnam war boom of 1966–69.

This is not to say that such search is a necessary characteristic of the teenage labor market. Improved labor market information and job counseling programs for teenagers might reduce search time as well as job turnover. The evidence does not rule out the existence of some structural unemployment among white teenagers. But a large part of the differential between white teenagers and adults clearly reflects a high rate of voluntary job mobility prior to settling on a stable career.

The differential between unemployment rates of black and white teenagers cannot, however, be explained by turnover behavior. The proportion of black teenagers who quit jobs and leave the labor force is only slightly higher than for whites. Instead, the evidence suggests that black teenagers (as well as black adults of both sexes) have a much more difficult time finding jobs than their white counterparts do. Moreover, this relative difficulty in finding employment has apparently increased during the past 4 years.

Large numbers of black teenagers are very likely not to be in the labor force because they were unable to find jobs within a reasonable period of time. As evidence of that fact, the civilian labor force participation rate of black teenagers (the "black" category refers throughout this chapter to the "black and other" grouping in Bureau of Labor Statistics data) was only 40.8 percent in the fourth quarter of 1977, compared with 60.0 percent for white teenagers. A "discouraged worker" effect may explain a large part of this difference. Black teenagers have slightly higher school attendance rates than white teenagers, a fact that would tend to reduce their labor force participation rate, while the much lower average family income for blacks than for whites should increase participation rates among black youth. If these two factors balance each other, then the percentage of black teenagers who are actually available for work would equal that of white teenagers, and the true rate of black teenage unemployment might approach 57 percent instead of the reported 38 percent. This would represent an additional 500,000 unemployed persons, or an increase in the overall unemployment rate of 0.5 percentage point.

An alternative index of the economy's success in providing jobs for teenagers is the ratio of employment to the teenage population. At the peak of the 1973 boom the employment-population ratio was 49.0 percent for white teenagers and 28.2 percent for black teenagers. These ratios fell to 46.2 and 25.1 percent, respectively, in the trough of the 1975 recession. From 1975 to the fourth quarter of 1977 the employment-population ratio for white teenagers increased to 51.5 percent, but for black teenagers it continued to fall in 1976 and did not increase until 1977, returning to 25.1 percent in the fourth quarter. Thus, by this measure white teenagers are doing better than at the peak of the last business cycle, but black teenagers are doing no better than before the current upswing began.

The gaps between black and white teenage unemployment rates and employment-population ratios have been increasing steadily for the past 30 years. Even in 1968, at the height of the boom induced by the Vietnam war, the black teenage unemployment rate was 25 percent, compared with 11 percent for whites. This worsening coincides with what was until 1975 a general improvement in adult black unemployment rates relative to those of whites—especially for males—as well as a general increase in the relative incomes and skill levels of adult blacks.

Several plausible explanations of why black youth have fared so badly in the labor market during the current upswing have been advanced by economists. A popular hypothesis is that blacks reside in central cities in proportionately greater numbers than whites and that central cities have not shared in the recovery. This, however, cannot explain very much of the failure of the employment-population ratio of black teenagers to increase during the recovery. From 1975 to 1977 the proportion of black teenagers living in central cities held constant at 55 percent; for whites the proportion fell from 23 to 22 percent. The employment-population ratio of black teenagers residing in central cities fell by 0.9 percentage point, but for white teenagers in central cities it increased by 3.0 points. Moreover, whereas the employment-population ratio of white teenagers residing in suburbs increased by 3.8 percentage points, the ratio for black teenagers in suburbs fell by 0.8 point. In nonmetropolitan areas the white teenage employmentpopulation ratio rose by 3.9 percentage points while the ratio for blacks decreased 1.5 points. Thus, the worsening situation for black teenagers does not appear to be urban-specific. The black unemployment problem is an urban problem, but principally because so many blacks live in cities.

Another explanation of why the black teenage labor market has been deteriorating both relatively and absolutely is the large increase in the potential labor force of black teenage labor relative to other kinds of labor. From 1964 to 1976 the black teenage population grew at an annual rate of 4.3 percent compared with 2.3 percent for white teenagers and 1.7 percent for all adults. To the extent that the wages of teenagers relative to those of adults are fixed through institutional arrangements such as legal minimum wages, collective bargaining agreements, custom, or a tailoring of jobs to a particular mix of worker skills and characteristics, an increase in the relative supply of teenagers will lead to an increase in their relative unemployment. Black teenagers would be especially affected because black adults have generally been attached to low-paying, low-skill occupations in which they are more likely to compete with teenagers than is the case with white adults. This explanation also rests on the proposition that the labor markets for black and white youth are to a large extent separated, perhaps because of a geographical separation within particular areas or because of labor market discrimination against black youth.

The recent worsening of the black teenage labor market, both absolutely and relative to the labor market situation of white teenagers, is consistent with this explanation. From 1972 to 1976 the annual rate of growth of the white teenage population was 1.3 percent, while the black teenage population grew at the rate of 3.2 percent annually. The combination of a slow growth in demand and a rapid growth of supply caused a rise in the unemployment rate and a decline in the employment-population ratio.

Some economists suggest that the black teenage unemployment rate is high because the unemployed are reluctant to accept available jobs at the relevant prevailing wage levels. According to this view, a large increase in the number of teenage jobs at approximately the minimum wage in black communities would have little impact on either employment or unemployment among black teenagers. There is no evidence to warrant acceptance of this hypothesis.

We can identify some of the reasons for the high and worsening unemployment rates for black youth, but we know these reasons do not constitute a full explanation. It is clear, however, that most of the differential unemployment between black and white youth does not reflect different search and turnover patterns. It is a major structural problem.

Unemployment of Women

One of the more positive facts about the performance of the labor market is that it continues to accommodate the rapid increase in the female labor force that has occurred over the past two decades. In 1956, women comprised 31.5 percent of the adult labor force and 31.3 percent of adult employment, but by the third quarter of 1973 these percentages had risen to 38.4 and 37.9, respectively. From the third quarter of 1973 (the peak of the previous cycle) to the fourth quarter of 1977, employment of adult women increased by 15 percent compared with a 5-percent increase for men.

While more women have entered the labor force, unemployment differentials between men and women persist. One reason for the sex differential in unemployment rates is that married women with children, a significant part of the female labor force, have historically been less attached than men to a career outside the home. (Single women's labor market behavior and attachment are not markedly different from the record for single men.) Whether their children are old or young, mothers whose husbands are present tend to have much lower participation rates than those without husbands present. But attachment to the labor force is not the sole explanation for the sex differential in unemployment rates. Inflexibility in labor market arrangements, that is, the relative scarcity of part-time work, may also be a factor. So may skill differentials between men and women. Finally, the "statistical discrimination" that once associated women with secondary labor market habits, while possibly a factor, is no longer as important as it once was.

From 1967 to 1973 the proportion of women aged 25 to 59 who left the labor force from a job averaged between 4.3 and 4.8 percent per month. This is much less than the corresponding figures for teenagers, mentioned above, but much higher than the labor force turnover rates for men, 0.4 to 1.1 percent. In 1977, as shown in Table 24, of the 7.0 percent of adult women in the civilian labor force who were unemployed, three-fifths were unemployed because they had either left their jobs or were entering the labor force; only a third of the adult male unemployed were in the same category. Subject to the qualification made earlier about the nature of unemployment among reentrants, the difference in turnover appears to account for most of the difference in total unemployment rates between the sexes.

Part of the reason why women are less attached to the labor market than men is that husbands commonly have been regarded as the "principal" earners in husband-wife families, and wives as the "secondary" earners. In 1977, 21 percent of all unemployed persons were wives with husbands present, and 79 percent of these were in family units where at least one person was employed full time. For unemployed husbands the figure was only 37 percent. The proportion of unemployed wives in families with at least one full-time earner was 81 percent for whites, compared with 73 percent for blacks. The burden of a given level of unemployment is thus greater for black than for white women. The unemployment burden is also made heavier for black females than for whites because black women have historically had significantly higher labor force participation rates than white women. (The gap has been narrowed somewhat since the late 1960s with the rise in white women's participation.) Despite this stronger attachment to the labor force, black women experience unemployment rates that are over one and one-half times those of white women.

In general, a significant part of the unemployment differential between adult women and men is explained by high labor force turnover, as is the case for teenagers. Institutions seem to be changing, however, in a manner that should reduce this differential in the future. The large increase in the labor force participation rates of younger married women implies that women will have a greater average degree of labor force attachment in the future, and this should lower their unemployment rate over time as their turnover rate decreases.

Unemployment of Adult Males

The unemployment rate of adult black men has clearly not recovered from the 1975 recession as much as would be expected. Between 1954 and 1973 their unemployment rate, when adjusted for definitional changes, averaged 7.2 percent, compared with 3.3 percent for adult white males, a ratio of 2.2 to 1. After adjustment for cyclical factors (the black rate is more cyclically sensitive than the white rate), this ratio declined steadily over time, by approximately 0.4 percentage point from 1954 to 1973. In the fourth quarter of 1977, however, the black-white adult male unemployment ratio was 2.4 instead of the 1.8 that would be predicted on the basis of trend and cycle. Had this earlier trend continued, the adult black male unemployment rate would have been 7.6 percent in the fourth quarter of 1977 instead of its actual value of 10.1 percent. Not only did the unemployment rate of adult black males increase sharply over the past 4 years, but also their civilian labor force participation rate fell by 2.8 percentage points, compared with a drop of only 1.3 points for white males. This drop itself may have been caused by the increase in relative unemployment rates for black males.

It is possible that part of the cause of the high unemployment rates of adult blacks is related to the black youth unemployment problem. The fact that black youth face such enormous difficulties in obtaining steady employment may establish a pattern that is difficult to break. Table 25

TABLE 25.—Unemployment	rates	of	black	and	white	men	by	age,	1977
(Percent 1)									

Age	Black and other men	White men
18–19 years	38. 0 32. 8	13. 0 10. 7
22-24 years	18.9 11.7	8.3 5.0
35–44 years 45–54 years	6.3 5.1	3. 1 3. 0
55–64 years 65 years and over	5.9 7.9	3.3 4.9

¹ Percent of civilian labor force in group specified.

Source: Department of Labor, Bureau of Labor Statistics.

shows the pattern of average unemployment for black and white men by age in 1977. The extremely large differential in unemployment rates between blacks and whites in the 18 to 24 age range implies that whites are able to find secure jobs much more easily than blacks. As they get older, black males are more likely than whites to be in jobs that are subject to termination.

UNEMPLOYMENT AND INFLATION

How well we deal with structural aspects of unemployment has important implications for the equity with which the benefits of prosperity are distributed. In addition, it will play an important part in determining how far we can go in reducing unemployment without risking a new episode of inflation. Large increases in aggregate demand and production cause a rise in the demand for labor. Initially the resultant job vacancies are filled from the ranks of the unemployed. But as unemployment falls below some point the number of job vacancies begins to exceed the number of qualified job seekers. Firms increasingly try to meet their labor force needs by large wage increases, a process that causes the overall rate of wage advance to rise and thus leads to a rise in the rate of inflation.

The precise details of this process are not fully understood, partly because it does not always work the same way. For example, the responsiveness of wages to changes in the degree of labor market tightness depends upon how long the inflationary process has been under way, and how expectations about future inflation have been affected. There is considerable controversy about how important unions are in initiating and perpetuating wage increases. Some evidence suggests that in the early stages of a new inflationary process union wage increases lag those in the nonunion sector. Despite our ignorance about many specific parts of the process, there is no question but that low unemployment rates imply a high degree of labor market tightness and that this eventually results in a strong upward pressure on wages and prices.

From the point of view of dealing with the relationship between inflation and unemployment there are two major questions:

- 1. What is the overall rate of unemployment at which wage increases accelerate?
- 2. Is this level changing over time?

These questions are difficult because there are several "submarkets" for labor rather than a single market. Job seekers in one market are only partly competitive for vacancies in another. The boundaries of these individual markets are determined by a number of factors: geographic, demographic, occupational, and those arising from discrimination. If some groups have very high unemployment rates but cannot be drawn upon to fill certain jobs, wage pressures and inflationary problems can begin to arise even when there is high unemployment.

Three alternative measures of labor market tightness for selected years from 1956 to 1957 are shown in Table 26 and illustrate the major issues associated with these questions.

The overall rate of unemployment receives the most public attention because it is often interpreted as a major index of the economy's performance. The problem with its use as an index of labor market tightness is that during the past 20 years the composition of the labor force has shifted toward those demographic groups that experience the highest labor force turnover and unemployment. For example, because of the turnover behavior discussed above, a 10- to 12-percent rate of unemployment among teenagers may be roughly equivalent, in terms of labor market tightness, to a 3-percent rate for adult males. Thus, if the share of young persons in the labor force increased, the overall unemployment rate associated with a given degree of labor market tightness would also increase. In fact, from 1956 to 1977, the proportion of the civilian labor force under age 25 did increase from 15 to 24 percent. This implies that the overall rate of unemployment corresponding to any degree of labor market tightness is higher now than it was two decades ago.

Period	Overall rate	Fixed-weight rate	Prime-age male rate	Overall less fixed-weight	Overall less prime-age male
	Percent ¹		Percentage points		
1956 2	4.0	4.0	2.6	0.0	1.4
1965 ²	4.4	4.1	2.3	.3	2.1
1968	3.6	3. 3	1.7	. 3	1.9
970971972973973973973973974	4.9 5.9 5.6 4.9 5.6	4.4 5.2 4.8 4.1 4.8	2.8 3.5 3.1 2.5 3.1	. 5 . 7 . 8 . 8 . 8	2. 1 2. 4 2. 5 2. 4 2. 5
1975 1976 1977 : Fourth quarter ³	8.5 7.7 6.6	7.4 6.7 5.8	5.7 4.9 3.9	1.1 1.0 .8	2.8 2.8 2.7

TABLE 26.—Alternative unemployment rates, selected years, 1956-77

¹ Percent of civilian labor force.

² Data adjusted for change in definitions in 1967.

^a Seasonally adjusted.

Source: Department of Labor, Bureau of Labor Statistics.

One way to adjust the overall unemployment rate for changes in the demographic composition of the labor force is to use the same set of weights for each group over time. This is reported in Table 26 as the fixed-weight unemployment rate, for which it is assumed that the composition of the labor force with respect to seven demographic groups (teenagers, and males and females aged 20-24, 25-54, and 55 +) remained identical to the composition in 1956. Because of the long-term increase in the relative number of young persons and adult women in the labor force, the fixed-weight unemployment rate has fallen relative to the overall rate. Thus, if in the fourth quarter of 1977 the composition of the labor force were the same as it was in 1956, and each group had its unemployment rate of the fourth quarter of 1977, the overall unemployment rate would have been 5.8 rather than 6.6 percent.

Adjusting the unemployment rate for changes in the demographic composition of the labor force implies that the value of the overall unemployment rate at which wage changes tend to accelerate has increased by 1 percentage point during the past two decades. On the other hand, the shift in the demographic composition of the labor force toward high unemployment groups has slowed and is expected to turn in the other direction in the mid-1980s.

Another way to adjust the overall unemployment rate is based on the hypothesis that the wage rates of some demographic groups are relatively insensitive to their own unemployment rates. According to this view in its most extreme form, unemployment rates of experienced workers with a history of continuous labor market attachment are likely to offer the best explanation of the rates of change of all wage rates. For example, because of union bargaining or for reasons of equity, firms might adjust wage rates by a uniform percentage for all skill levels even though some of these are in excess supply. Another source of relative wage rigidity is legal minimum wages. Because the high-skill, short-supply jobs in the economy have historically been held by men between the ages of 25 and 54, the (so-called) primeage male unemployment rate has often been used as an index of labor market tightness. As seen in Table 26, however, the prime-age male rate is closely correlated with the fixed-weight rate with respect to cyclical changes, so it is next to impossible to discern which is the better index of short-run changes in labor market tightness through aggregate analysis.

Quantifying the inflationary effect of changes in the unemployment rates of various demographic groups is nevertheless extremely important for policy purposes. If prime-age males were the only group that mattered in determining wage inflation, programs could be directed toward increasing the employment of other groups without any inflationary consequences. Recent research, however, has shown that over long periods of time the relative wages of different demographic groups have moved in the direction that would be expected on the basis of changes in relative supplies. This finding implies that the unemployment of groups other than prime-age males does contribute to overall wage changes, but it does not tell us much about the magnitude of the relationship.

While the prime-age male unemployment rate is closely correlated with the fixed-weight measure for short-run cyclical movements, it has behaved differently over the past two decades taken as a whole. Since 1956 it has fallen by almost $1\frac{1}{2}$ percentage points relative to the overall unemployment rate, while the fixed-weight index has fallen by only about 1 percentage point (Table 26). Use of the prime-age male rate as an index of labor market tightness therefore implies that the overall unemployment rate at which inflation is likely to accelerate has risen by $1\frac{1}{2}$ percentage points rather than 1 percentage point over the past 20 years.

The unemployment rates of some or all demographic groups associated with any given degree of labor market tightness may have increased to some extent because of the growth of income transfer programs. In particular, many economists have argued that the more liberal provision of unemployment insurance, food stamps, and other such programs, while achieving the desirable end of mitigating the hardship of unemployment, may also have allowed people to search more carefully for the jobs they will accept. This would cause vacancies to rise relative to the number of unemployed persons, causing greater inflationary pressures at a given rate of overall unemployment. The evidence on the quantitative importance of these programs is mixed and controversial. But the direction of their effect on the unemployment rate at which inflationary pressures emerge is clear.

A number of forces have been at work over the past several decades to raise the overall unemployment rate at which inflationary pressures begin to appear above the neighborhood of 4 percent that seemed to prevail during the mid-1950s. Because of the complexity of the problem, there are no precise answers to the question of where the zone now lies. Demographic changes that reduce the proportion of teenagers in the labor force should begin lowering the inflationary threshold during the early 1980s. For institutional reasons, the speed with which inflationary problems develop as the threshold is crossed is relatively sluggish. Nevertheless, it is clear that achievement of the Administration's long-run goals for unemployment in 1981 and later years cannot rely solely upon monetary and fiscal policies. These policies, which affect aggregate demand, will have to be supplemented by effective employment and training policies targeted to reduce structural unemployment if socially desirable levels of overall unemployment rates are to be reached without the appearance of inflationary pressures in the labor market.

Measures that are successful in improving the operation of the labor market can reduce the overall unemployment rate at which inflationary pressures arise. The general object of such policies should be to provide a better matching of the unemployed with available job vacancies. In principle, this can be accomplished by three major types of actions: training; finding jobs for groups with very high unemployment; and improving information and career choices for new entrants into the labor force.

POLICIES TO REDUCE STRUCTURAL UNEMPLOYMENT

Reaching a low rate of unemployment without initiating increases in the rate of inflation will require effective structural programs as well as overall monetary and fiscal policy. Programs that increase access to jobs for groups with high unemployment not only serve the interests of economic justice, but help us avoid the excessively tight labor markets and inflationary pressures that might otherwise arise in a period of high unemployment.

Policies designed to alleviate structural unemployment include the following: (1) Manpower training; (2) public service employment (PSE); (3) labor market information; (4) incentives for private industry to hire the disadvantaged; and (5) elimination of restrictive practices in the labor market. The primary focus of labor market policy in the United States over the past several years has been on the first two. We also spend about \$700 million per year on the U.S. Employment Service, an example of the third approach, and we have made some limited attempts to institute policies of the fourth kind. Equal employment opportunity programs, which are currently in the process of being strengthened and improved, are an example of the fifth policy.

Since the achievement of our long-term economic objectives depends partly on the success of these structural policies, it is useful to review the major Federal programs that are in operation, the changes that have recently been made in them, and the effect that these policies are likely to have.

Manpower Training Programs

A wide range of programs designed to increase the labor market skills of persons who have chronic difficulties in finding or holding jobs has been offered since the early 1960s. During 1978 approximately \$1.9 billion will be spent on classroom and on-the-job training programs (Table 27). To the extent that training programs can raise the skills of the unemployed so that they correspond more closely to those needed in vacant jobs they should lower the unemployment rate at which excessive labor market tightness begins to appear. Since the benefits of these programs accrue for some time after the training period, it is difficult to find out whether they are having their intended impact until the work experience and earnings of trainees have been observed for many years. Scattered evidence based on the programs of the 1960s, however, suggests that the return on classroom training programs is approximately comparable to returns on other types of investment in our economy. Moreover, the training programs do appear to be moderately well targeted to the least skilled participants in the labor force.

Program	Outlays (millions of dollars)	Person- years (thousands)
Total training and employment	10, 317. 0	1, 865. 3
Training	1, 890. 7	487. 8
Institutional On-the-job	1, 345. 7 545. 0	350.2 137.6
Public service employment (PSE)	8, 426. 3	1, 377. 5
Regu!ar PSE Work experience (principally youth) Summer youth Older Americans	5, 809. 1 1, 794. 9 672. 0 150. 3	681, 4 403, 5 255, (37, 6

 TABLE 27.—Estimated Federal outlays and participation in training and employment programs during fiscal year 1978

Source: Office of Management and Budget.

The extent to which these programs do in fact improve the inflationunemployment tradeoff is not known. The observed increases in the earnings of participants in these programs arise from a combination of reduced unemployment and increased productivity, but the evidence necessary to determine the importance of each factor is lacking. Under the assumption that half of the benefits to training come in the form of increased employment and the other half from increased productivity, an additional \$1 billion spent each year on training would, ignoring population growth, lower the unemployment rate, for a given degree of labor market tightness, by about 0.05 percentage point after 5 years and slightly more thereafter. Accordingly, the scale of training programs would need to be many times greater than it now is before it would have a significant impact on the unemployment rate. Moreover, it is likely that the average effectiveness of these programs in terms of reducing unemployment would decline as they were expanded to reach a much wider portion of the population.

Training programs are a good investment, but on the basis of present evidence their potential role is modest in relation to the total unemployment problem.

Public Service Employment

Since 1971 the principal emphasis of manpower policy has shifted from training toward the direct provision of federally funded employment through State and local government. This shift resulted partly from the slack labor markets of most of the 1970s and partly from the lack of definitive evidence concerning the impact of training programs.

This Administration's first major economic action on taking office was to propose legislation, which the Congress enacted by mid-1977, calling for a substantial expansion of PSE. During fiscal 1978 approximately \$8.4 billion will be spent on various forms of PSE. Under the enlarged programs an average of 1.4 million people will be employed over the year, a 60-percent increase over the previous year. These jobs are supposedly targeted primarily toward the low-income, long-term unemployed and unemployed youth.

The stated goals of PSE programs have been quite varied: countercyclical stimulus, reduction of structural unemployment, and fiscal relief for hard-pressed local governments. For the present purposes, however, the second of these objectives is of major interest. Can PSE programs help improve the inflation-unemployment tradeoff?

Two factors are involved in answering this question. First, in order to be an effective instrument for mitigating structural unemployment, PSE programs must concentrate on individuals who would have special difficulty obtaining employment in the private sector. If, for example, a city hired accountants or registered nurses with its PSE funds, it would only be bidding them away from other jobs. Prior to the recent program expansion, adult participants in PSE programs came from approximately the middle of the skill distribution. Relatively few of the structurally unemployed were reached.

Under the new programs for adults, eligibility is being progressively restricted to individuals who have been out of work for 15 of the last 20 weeks, and to those with low incomes prior to participating in the program. Taken in combination with the special projects requirement, these new eligibility conditions are changing the PSE programs in such a way that they should now serve more of the disadvantaged than formerly. Ignoring loopholes in the law (for example, a local government can hire recent college graduates whom it would have hired anyway and still be within the program regulations), these eligibility requirements should also help to reduce substitution of PSE funds for regular government revenues.

In periods of generally high employment, PSE programs for youth can more easily be directed toward increasing public employment without tightening the labor market for private employment. This is certainly true for minority youth, who suffer extremely high unemployment rates. It may be less true of programs for youth administered in largely white communities, for the labor market for most white teenagers appears to work reasonably well. The proportion of participants in the PSE youth programs who are black or belong to other minority groups is close to 50 percent, a showing that favors a positive judgment of these programs.

A second requirement if PSE programs are to reduce longer-term structural unemployment is that they provide a work experience that prepares participants for subsequent transfer to regular jobs. Programs that satisfy this condition can instill good working habits in their participants and possibly lower structural problems in the long run. PSE jobs must be real tasks rather than make-work activities, for it would be difficult to maintain discipline in a particular project if the work had little intrinsic value. This requires that PSE jobs be characterized by adequate supervision and on-the-job training. At present there is little evidence on this point for either adult PSE or for youth work experience. As the total number of PSE slots increases during 1978, much can be learned about the absorptive capacity of the State and local sector with respect to the provision of meaningful jobs to disadvantaged persons.

Do PSE programs have a significant effect on the inflation-unemployment tradeoff? This question is difficult to answer because the various PSE programs in existence have different effects on the rate of unemployment as well as on wage rates.

Suppose, for example, that participants in PSE programs would otherwise have been in the labor force but unemployed, and that the projects would not have been financed from regular State and local sources—that is, there is no "fiscal substitution." Unemployment would then be reduced by the number of persons working in PSE jobs. To the extent that those workers come from among the structurally unemployed, tightness in the labor market and inflationary pressures would not increase, and the improvement in the unemployment-inflation tradeoff would be substantial. If, on the other hand, the wage on PSE jobs is relatively attractive and the skills required to perform PSE jobs are about average for the work force in general, the programs are likely to attract persons who are not structurally unemployed or others who are not in the labor force.

In general, therefore, the effect on the unemployment-inflation tradeoff will be favorable if PSE programs are targeted toward persons whose skills are below those of the average person in the labor force, and if the wage rates on PSE jobs are not strongly competitive with those paid in the private sector.

The youth programs, especially those in which minorities participate significantly, probably offer more possibility of lowering the overall unemployment rate for a given amount of general labor market tightness than those geared toward adults. PSE can be an efficient method of introducing individuals into a structured work environment who would otherwise be passed over by the private sector. Recognizing particularly this last potential of PSE, the Administration has proposed that a jobs program be made an integral part of the reformed welfare system under the Program for Better Jobs and Income (PBJI). The Administration proposal calls for 1.2 to 1.4 million PSE jobs designed to provide an alternative to total reliance on cash assistance. Eligibility for these new PSE jobs would be restricted to principal earners in families with children, who cannot be placed in private sector jobs. The jobs would last for no more than 1 year. The rate of compensation for the jobs under PBJI would generally be no more than 10 percent above the Federal minimum wage, but families without sufficient additional income could receive a cash supplement, and hence their total income could significantly exceed that which they would receive solely with the cash assistance they might qualify for without a PSE job.

The PSE component of this new program can do much toward reducing the cycle of poverty by introducing welfare recipients and other poor people into a structured work environment from which they can subsequently advance to steady private sector jobs. One key element in the program is that it proposes to pay wages at or slightly above the Federal minimum. If such a program offered higher wages (as does the current countercyclical PSE program, which pays an average wage about 60 percent above the minimum), the jobs would be attractive to persons with higher skills and greater ability to find private jobs. Many, perhaps most, participants would come from outside the welfare system, and the jobs component of PBJI would lose much of its ability to mitigate poverty.

Side Effects of Other Programs

In addition to these programs that are intended to lower the unemployment rate for a given amount of labor market tightness, the government runs several programs that are designed to accomplish other social objectives but have the additional, unintended consequence of increasing the unemployment rate. While the other objectives may be desirable, it is useful to be aware of their potential effects on unemployment.

As seen in Table 28, the Federal minimum wage relative to average hourly earnings has fluctuated widely over time, but at the points at which the Fair Labor Standards Act (FLSA) has been amended the minimum wage has in recent years averaged approximately 45 percent of the average manufacturing wage. The 1977 changes in the minimum wage through 1981 would roughly maintain this ratio if the average manufacturing wage grew by 7 percent annually. However, FLSA coverage has increased substantially, especially beginning in the mid-1960s. The major impact of minimum wages is on the employment of teenagers, for the market wages of most adults are considerably above the legislated minimum. There is, however, no conclusive evidence on how much of the youth unemployment problem is directly attributable to FLSA. As pointed out earlier in the chap-

Year	Minimum wage	Average hourly earnings in manufac- turing ¹	Minimum wage as percent of manufacturing average hourly earnings
1938	\$0.25	\$0.62	40. 3
1939	.30	.63	47. 6
1945	. 40	1.02	39. 2
1950	. 75	1.44	52.1
	1. 00	1.95	51.3
1961	1. 15	2.32	49.6
1963	1. 25	2.46	50.8
1967	1. 40	2.83	49.5
1968	1. 60	3.01	53.2
1974	2.00	4.41	45. 4
1975	2.10	4.81	43. 7
1976	2.30	5.19	44. 3
1978 1979 1980 1981	2.65 2.90 3.10 3.35	² 5. 94 ² 6. 36 ² 6. 80 ² 7. 28	44. 6 45. 6 45. 6 45. 6 46. 0

 TABLE 28.—Federal minimum wage and average hourly earnings in manufacturing,

 selected years, 1938–81

¹ Relates to production workers.

² Assumes a 7 percent growth rate.

Source: Department of Labor, Bureau of Labor Statistics.

ter, most of the unemployment of white teenagers during periods of prosperity is caused by their high rates of labor force turnover. But it is quite possible that minimum wages are a contributing cause of the black youth unemployment problem.

The unemployment insurance (UI) system has both a real effect and a measured effect on the overall unemployment rate. The real effect occurs because the reduced cost of job search leads to an increase in both the duration and frequency of spells of unemployment. The measured effect occurs because some workers report themselves as unemployed in order to obtain UI benefits when, without the benefits, they would have dropped out of the labor force. Some form of unemployment insurance is, on equity grounds, absolutely necessary to mitigate the hardship of involuntary unemployment. Moreover, UI increases economic efficiency by making it possible for the unemployed to search for jobs for which they are well suited rather than being forced to take the first job that becomes available. But it does tend to increase the overall unemployment rate. In the past two decades, liberalizations in coverage, benefits, and benefit durations have caused the officially measured unemployment rate to increase, although an accurate estimate of the magnitude is uncertain. Some of the most notable changes in benefit duration and coverage have occurred in the 1970s.

Directions for Improvements

To reach substantially lower unemployment rates without initiating a new round of inflation, structural programs will have to be continually improved. The first priority is better targeting of the programs so that they more effectively improve long-term job opportunities for those groups with the most severe structural unemployment problems. Although the record is far from perfect, the training and employment programs for youth have been fairly successful in this regard. Until recently, however, regular PSE programs for adults have not focused significantly on the structurally unemployed to the extent that they should. As the overall unemployment rate declines, employment and training programs should be carefully directed demographically and geographically toward this goal.

Some demographic groups have high unemployment rates, even in periods of generally tight labor markets, because many employers seek to hire new employees only from among those applicants with prior experience and a history of job stability. The high cost of labor turnover to business firms and the existence of wage floors or other barriers to hiring the inexperienced are major factors behind this tendency. Accordingly, one approach to reducing unemployment is to provide incentives for private employers to hire from among those groups with the most severe incidence of structural unemployment. This approach is sometimes criticized because it would cause a substitution of low-skilled youths for highly skilled adults and thus raise the unemployment rates of adult males. This criticism, however, ignores the fact that such a program, if successful, could induce a greater increase in aggregate demand and thus lower the overall unemployment rate. Moreover most occupations composed primarily of highly skilled adults have very low unemployment rates in the first place and tend to adjust very quickly to excess supply.

This country's experience with incentive schemes to hire the structurally unemployed is not very extensive—although similar programs are quite common in Western Europe. Since five out of every six jobs in the economy are in the private sector, a successful labor market policy must rely principally on the private sector to enlarge job opportunities for the structurally unemployed. To this end the Administration is currently designing a set of options for programs under which employers will have incentives to hire persons with severe unemployment difficulties.

A third priority for the improvement of labor market policy is the collection of better data that will permit an assessment of the extent to which its component programs are actually having a beneficial impact. At present our ability to lower unemployment without adding to inflation is severely hampered by uncertainty about the effectiveness of various approaches. Evaluative research is not easy, but without such information it is difficult to justify major expansions of incumbent programs. A principal goal of new labor market programs, like those provided under the Youth Employment and Demonstration Projects Act of 1977, is to find out which approaches are successful. This emphasis should be extended to other programs.

CHAPTER 5

Major Economic Policy Issues of 1977

I N 1977, THE NEW ADMINISTRATION INTRODUCED a number of legislative initiatives whose economic impacts will be far reaching energy, agriculture, social security, and welfare reform. The Administration is now proposing that the Congress consider a series of fundamental tax reforms. In addition, there have been a number of proposed reforms to improve the efficiency of our regulatory programs. The present chapter analyzes these programs. Although the details differ, the central theme that runs through these programs is the same—enhancing the effectiveness of Federal programs and reducing their costs, while improving the fairness of our economic system.

ENERGY DEVELOPMENTS AND POLICY

The economic consequences of the 1973 oil embargo and the quadrupling of world oil prices by the Organization of Petroleum Exporting Countries (OPEC) have dramatically demonstrated the importance of energy to the U.S. and world economies. In the United States, higher prices of imported crude oil prompted major increases in the prices of all domestic fuels, aggravated inflationary pressures, and contributed to the deepest recession since the Depression. Moreover, mounting oil import payments have constituted an enormous drain on domestic incomes, causing a severe imbalance in our external deficit.

Nonetheless, U.S. dependence on foreign sources of energy has continued to grow. Oil imports in 1977 nearly doubled those of 1972 and supplied almost half of domestic petroleum demand. Unless we adopt effective policies to reverse underlying forces, still further growth in oil imports is likely over the coming decades.

How did this situation arise? Although the answer is by no means simple, an important element is that the current economic infrastructure—buildings, factories, machines, and automobiles—was largely designed for an era of low-cost oil and natural gas. Significant changes in patterns of energy use will occur only when more energy-efficient capital has been installed and as the existing capital stock is replaced. This is a time-consuming process, and only modest progress has been made in the last 4 years. Of equal importance are Federal tax and regulatory policies that have encouraged low energy prices throughout the postwar era. Apart from the imposition of import quotas, energy consumption has been subsidized by tax incentives for energy production that have lowered consumer prices and, over different periods, by price controls on crude oil and natural gas. Though the various controls have generally mitigated the inflationary impact of the rise in the price of imported oil and prevented domestic producers from realizing additional gains on oil already discovered, they have contributed to imbalances between the supply and demand for major sources of energy. The disequilibrium has been evidenced in the natural gas market by growing curtailments, and in the case of oil, by rapidly rising imports.

Unless these imbalances are soon curbed, the United States may face serious economic risks. Though world oil prices have recently been stable because of weak recoveries in most industrial nations and large discoveries in non-OPEC countries—growing world demand for oil and gas could strain world productive capacity, creating the danger of substantially higher oil prices in the years ahead. The United States can avoid the consequences of higher prices, however, by gradually converting from oil and gas to more abundant domestic sources of energy—nuclear fuel, coal, solar, and perhaps other energy sources. Because long leadtimes are required, an early transition would be less costly and would lead to less risk from higher oil prices or sudden supply interruptions in the future.

ENERGY BEFORE 1973

The principal sources of primary energy in the postwar period have been oil and natural gas. In 1950, they accounted for 58 percent of total energy consumption, while by mid-1973 the fraction had grown to 77 percent. After an earlier period of dominance before World War II, coal production fell during the postwar period. Electricity produced by these primary fuels grew rapidly owing to economies of scale and advances in technology.

Both economic growth and the declining relative prices of energy products heightened the demand for energy (Table 29). From 1950 to 1970, for example, the wholesale price of energy fell by 13 percent relative to all finished goods (though it advanced in the latter part of the period). Consumers responded by purchasing homes, automobiles, and appliances that required substantial inputs of energy; firms substituted energy and capital for labor in constructing buildings and factories and in manufacturing their goods. The entire American way of life, from the spread of the suburbs to the popularity of large automobiles, has been conditioned by low-cost energy.

Aside from the imposition of oil import quotas, Federal Government policies stimulated energy demands. Percentage depletion allowances in excess of cost reduced all energy prices by lowering producer tax liabilities. Price controls on natural gas sold to interstate pipelines have long held prices below the energy equivalent prices of substitute fuels. In addition, government regulation of the motor carrier and air transportation industries promoted

Item	Average annual percent change			
	1958 to 1973	1973 to 1976	1976 to 1977 1	
Energy consumption:				
Total Petroleum and natural gas liquids Natural gas Coal Net electric power generated	4.1 4.9	-0.1 .2 -3.4 1.1 3.2	4.3 6.1 1.1 8.4 6.1	
Average producer prices:*				
Crude oil Natural gas Coal		16.5 26.3 19.6	2.0 26.7 —1.7	
Wholesale prices: 2				
All energy Petroleum products Natural gas Coal Electric power	1 1.6 3.4	14. 1 17. 3 18. 6 8. 3 6. 4	7.9 4.8 38.0 .6 6.9	
Consumer prices: 8				
All energy Fuel oil and coal Gasoline and motor oil Natural gas Electricity	1.0 4	6.2 12.9 5.1 7.1 3.5	2,9 6.1 8 11.6 .1	

TABLE 29.—Trends in energy consumption and deflated energy prices

¹ Changes for energy consumption and wholesale prices computed from third quarter 1976 to third quarter 1977. Other changes are from year to year.

² Prices deflated by the wholesale price index for all finished goods.

³ Prices deflated by the consumer price index for all items.

Sources: Department of Energy, Department of Labor, Federal Power Commission, and Edison Electric Institute.

energy consumption by encouraging excess transportation mileage through artificial route restrictions and prohibitions on price competition. Finally, government support favoring highways over mass transit contributed to increased gasoline consumption.

The absence until recently of significant environmental legislation also encouraged energy consumption. Energy industries tend to produce relatively large environmental side effects whose costs are not reflected in energy prices. Not until the late 1960s did the U.S. Congress begin to take major steps to deal with this problem.

At the close of 1972, therefore, the United States found itself locked into a capital stock tailored to low-cost oil and natural gas. Oil demand, which had grown at an average annual rate of 4.4 percent since World War II, had outstripped production growth, requiring oil imports of nearly 5 million barrels a day. A significant portion of our low-cost oil and natural gas resources had been depleted, portending higher costs of discovery and production. The market, however, provided no signs of a reversal: Americans were accustomed to cheap energy and expected it in the future.

THE 1973–74 PRICE SHOCK

Events during 1973 and 1974 dramatically altered prior energy price patterns. In November 1973 the Arab members of OPEC placed an em-

bargo on oil exports to a number of other countries, including the United States. Following previous substantial price increases, OPEC quadrupled the world oil price to levels far in excess of its costs and cut back production to support the action.

In the events that followed, it is important to distinguish between the effects of the embargo and those produced by the rise in oil import prices. The embargo itself lasted only 5 months and generated shortages within the United States, in part because petroleum product prices were controlled. Cold weather and previous curtailments of natural gas supplies exacerbated the problem. Shortages would have been mitigated without price controls, but the resulting high prices would have created substantial windfall profits and added to inflation.

Whereas the economic consequences of the embargo were limited and confined to a relatively short period, the economic costs of adjusting to higher prices of imported oil were enormous and persist to this day. The adjustment has been accompanied by significant advances in the prices of other fuels (Table 29). Both the embargo and the price rise have taught a common lesson, however: vulnerability to supply interruptions and price increases can only be reduced through a fundamental reorientation in patterns of energy use.

DEVELOPMENTS AFTER THE PRICE SHOCK

Though the price shock has had important effects around the world, the impacts have differed between countries.

Domestic

Prices of all fuels in the United States increased sharply following the rise in oil import prices (Table 29). Except for natural gas prices, however, rates of price increase generally slowed, or in some cases, fell in 1976 and 1977.

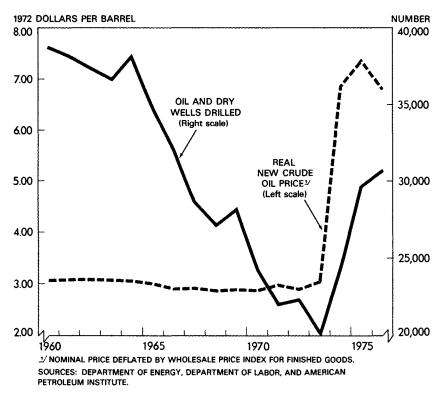
Though consumers have had only a short time to adapt, energy consumption patterns have already evidenced some response to the higher prices. The ratio of total energy consumption to real gross national product, GNP, for example, stood 5 percent lower in mid-1977 than in 1973. More significantly, the ratio dropped as the economy pulled out of its 1973–75 recession, an important sign that higher prices had discouraged consumption.

Nevertheless, after falling in 1974 and 1975, total energy consumption resumed its upward climb in 1976 and 1977 as real GNP advanced. Consumption of petroleum products, in particular, rose rapidly in 1977, as a result of several factors that outweighed the dampening effects of higher prices. The cold winter in 1977 increased heating demands generally and oil demand specifically because many users of natural gas switched to oil when gas supplies were curtailed. Demand for distillate and residual fuel oils in the first 2 months of the year, for example, was up by 1.6 million barrels per day compared with the same period in 1976. The West Coast drought added especially to residual oil demands by inducing many utilities to turn from hydroelectric power to oil-based generation.

In contrast, energy production has declined since 1973, although the responses to higher producer prices have varied between fuels. For example, after falling in 1973, coal production rose, largely because the sharp rise in oil prices encouraged some oil users to switch to coal and because of the rapid growth in electricity production. Environmental restrictions on coal burning under the Clean Air Act, however, restrained both coal demand and production. Electricity production, too, continued to advance, although at rates below those experienced prior to 1973. Sharply increased primary fuel prices raised final electricity prices to consumers, and therefore discouraged consumption.

Production of crude oil and of natural gas, on the other hand, has fallen from 1973 levels. In the case of crude oil, though drilling activity responded to a sharp rise between 1973 and 1976 in the new wellhead price (Chart 12), the average depth of wells drilled fell. Declining output from existing wells more than offset the rise in new discoveries, producing a decline in total crude oil production in the lower 48 States between 1970 and 1977.

Chart 12



New Crude Oil Prices and Drilling Activity

In 1977 the declining trend in national crude oil production was reversed by the September opening of the Trans-Alaska Pipeline System (TAPS). Alaskan production was slowed, however, by a fire at a major pump station in July and by difficulties with others, which reduced present TAPS capacity from 1.2 to approximately 0.7 million barrels per day. The lack of a pipeline linking the West Coast to the Midwest threatened to force shipment of additional volumes of Alaskan oil through the Panama Canal. Such an outcome would raise transportation costs substantially and possibly discourage future increases in deliveries or expansion of TAPS capacity.

Production of natural gas has followed a similar course, declining gradually between 1973 and 1976 and leveling off through the third quarter of 1977. Like oil production, gas drilling activity responded to recent price increases in both the interstate and intrastate markets; declining output of existing wells, however, had until 1977 more than offset new production. The production trend since 1973 represents a particularly dramatic reversal: from 1950 to 1973 natural gas was the fastest growing domestic source of primary energy.

With energy consumption registering a small increase between 1973 and 1977, the decline in energy production has created a growing imbalance between production and demand, particularly for oil and natural gas. In the case of natural gas, the excess of demand over production has remained largely unsatisfied. Until the quadrupling of oil prices, the importation of significant quantities of liquefied natural gas (LNG) was not economic, limiting the import market to contiguous nations, Canada and Mexico. As a result, natural gas imports have remained less than 5 percent of domestic consumption.

The inability of domestic and imported natural gas to satisfy demands has resulted in curtailments of natural gas supplies. Since 1971, despite a decline in total consumption of natural gas, the volume of gas curtailed to users with firm supply contracts has increased by a factor of over 10. The shortage reached a peak owing to the cold weather in the first quarter of 1977, when net curtailments to firm users rose to nearly 1 trillion cubic feet, or almost 16 percent of total gas consumption.

Curtailments have grown largely because of the way in which natural gas prices have been controlled. Since 1954, prices of natural gas sold to interstate pipelines, have been subject to Federal regulation. Natural gas sold to intrastate pipelines, however, has remained unregulated. During the 1960s, when intrastate prices were generally below interstate prices, new commitments to interstate pipelines exceeded those to the intrastate market. During the 1970s, however, intrastate prices increased at a much faster rate despite several increases allowed in the price for new interstate commitments. For example, although the 1977 interstate price ceiling of \$1.47 per thousand cubic feet (mcf) for new contracts stood nearly triple its level of 1975, new longterm intrastate contract prices ranged between \$1.41 and \$2.19 per mcf in the major gas-producing States, according to a survey made by the Federal Energy Regulatory Commission. The higher intrastate prices have encouraged producers to commit most new gas to the intrastate market, creating growing shortages in net consuming regions, such as the Northeast.

At the end user level, pricing policies by state regulatory commissions have exacerbated the shortage by encouraging consumption. Faced with gas contracts at a wide range of prices, commissions have allowed distribution companies to charge their customers the average of all wellhead contract prices. New, higher-cost gas has consequently been "rolled-in" with the average cost of all previously discovered gas. Although rolled-in pricing caused only minor problems when average and marginal gas prices were relatively close, today it introduces major distortions in energy pricing. Consumers are faced with low average historical costs when new supplies are often substantially more expensive. This distortion could worsen if high-cost gas (such as LNG or synthetic gas) is also priced on a rolled-in basis.

With crude oil, unlike gas, the excess of demand over domestic supply has been met by a mounting volume of imports. Between 1972 and 1977, oil import levels rose 92 percent. Import costs increased from nearly \$5 billion in 1972 to about \$45 billion in 1977. Most significantly perhaps, oil imports climbed relative to GNP, although total oil consumption as a fraction of GNP has remained nearly constant during the last 20 years (Chart 13).

CONSUMPTION INDEX, 1960=1001/ 140 TOTAL CONSUMPTION DOMESTIC PRODUCTION 120 IMPORTS 100 80 60 40 20 0 1960 1965 1970 1973 1974 1975 1976 1/INDEX OF BARRELS/REAL GNP (1972 DOLLARS).

Oil Consumption and Imports Relative to Real GNP

SOURCES: DEPARTMENT OF COMMERCE AND DEPARTMENT OF ENERGY.

Chart 13

As with the natural gas shortage, Federal policies have also encouraged the growth of oil consumption and consequently of oil imports. Controls on the prices of crude oil, in particular, have played instrumental roles in this process. Created in 1971 to soften the macroeconomic and distributional impacts of oil price increases, the system of oil price controls has evolved over time so that it now covers three categories of oil: (1) "old oil," defined as 1972 base period production, (2) "new oil," defined as oil production above 1972 base period levels or oil discovered after May 15, 1973, and (3) oil recovered through tertiary production methods. Higher prices have been allowed for the latter two categories to encourage domestic exploration and production. Price controls do not apply to "stripper wells" (those producing less than 10 barrels per day) for the same reason.

The control system has been administered to meet statutory requirements that the average price of all domestic crude not exceed a "composite" (or weighted-average) price. For the first half of 1977 the prices of old, new, and stripper oil averaged \$5.16, \$11.12, and \$13.29 per barrel respectively, producing an imputed domestic average of \$8.22 per barrel. This average was well below the composite price ceiling of \$8.47 and the average landed oil import price of \$14.21.

By creating different prices for oil of different vintages and sources, the control system, in the absence of other measures, would have placed oil refiners having access to predominantly high-priced crude at a disvantage compared to other refiners. Since November 1974, however, refiners have generally been placed on the same footing through an entitlements procedure ensuring that each refiner effectively pays only the average cost of both imported and domestic crude. Separate allowances have been made to enable small refiners to remain competitive. Nevertheless, by confronting consumers with prices below those the United States must pay for additional oil, the control and entitlements system has subsidized oil consumption. With domestic crude production at or near capacity, the added consumption has increased the demand for oil imports.

Federal price regulation of natural gas and environmental restrictions on the burning of coal have also done much to stimulate the growth of oil imports. Specifically, rising gas supply curtailments resulting from the way natural gas prices have been regulated have prompted many industrial and utility users to look to alternative fuels. Because of limitations placed on coal burning by many State air quality implementation plans, however, users who have wished to convert their existing facilities have been restricted to oil. Air quality regulations have also dictated the use of either oil or gas for many new facilities as well.

The only major policy initiative passed after the embargo that should reduce petroleum consumption was contained in the Energy Policy and Conservation Act (EPCA). Passed in 1975, EPCA established fuel efficiency standards for automobiles and trucks, beginning with 1978 models. The act will have a gradual impact on oil consumption, as the current generation of automobiles and trucks is replaced by more energy-efficient vehicles.

International

The oil price rise in 1973–74 had major effects on all oil-importing nations, some of which are discussed in Chapter 3. As in the United States, economic growth slowed considerably or even declined in the major industrial countries (Table 30). Total energy consumption, however, fell much less rapidly in the United States between 1973 and 1976 than in any of the listed countries except Japan. Correspondingly, though crude oil imports fell elsewhere, they rose more than 60 percent in the United States during the period.

TABLE 30.—Growth of GNP, energy consumption, and oil imports in major industrial countries, 1967-76

	1967 to 1973			1973 to 1976		
Country	GNP	Energy consumption	Crude oil imports	GNP	Energy consumption	Crude oil imports
United States. Canada. France	3.7 5.3 5.8 5.5 10.2 2.9	4.2 8.1 6.4 6.2 9.6 3.1	19. 4 12. 1 10. 8 7. 4 14. 5 7. 4	0.8 2.7 2.5 .9 2.4 .0	$ \begin{array}{r} -0.1 \\ -3.5 \\7 \\ -1.3 \\ .5 \\ -2.8 \\ \end{array} $	22.7 7.2 3.5 3.5 2.2 8.6

[Average annual percent change]

Sources: Department of Commerce, Organization for Economic Cooperation and Development, and British Petroleum Company, Limited.

Throughout the postwar period many of these countries have used various taxes that have discouraged consumption. For example, prior to 1973–74, gasoline excise taxes in Japan, France, the United Kingdom, and Italy stood between 32 cents per gallon (United Kingdom) and 65 cents per gallon (France), well above the average excise tax of 12 cents per gallon on gasoline in the United States. Since 1973 each of these countries has again raised its gasoline tax. By 1977, although the average tax had remained unchanged in the United States, it ranged between \$.55 and \$1.48 in the countries just indicated.

Two countries that have taken particularly far-ranging actions since 1973 have been Sweden and France. In Sweden, where foreign sources of energy supply 80 percent of fuel demands, a substantial gasoline tax has since been supplemented by a fee on automobiles based on gasoline mileage efficiency. Excise taxes levied on coal, heavy and light fuel oil, and electricity have been changed. New or expanded government subsidies, loans, and taxes also provide incentives for uncovering new energy sources as well as innovative energy-efficient processes.

In France, higher prices and increased taxes have been combined with mandatory measures to lower the use of oil from 1973 pre-embargo levels, in sharp contrast to the rapid growth in such use that France experienced between 1967 and 1973. In the residential sector these measures have been supplemented by metering requirements for central heating and hot water and by tax credits for installing insulation.

The policy initiatives and oil import trends in these industrial countries contrast sharply with energy developments in the United States since 1973. To some degree, differences in economic and cultural conditions have accounted for the variations in both energy policies and oil imports; policy actions taken in one country are not necessarily appropriate for others. Nevertheless it is significant that the steps taken by several major industrial nations have emphasized measures discouraging consumption by allowing prices to reflect social costs. Until the National Energy Plan (NEP) efforts in the United States have tended to do just the opposite.

THE NATIONAL ENERGY PLAN

Upon assuming office, the new Administration faced the dual concerns of rapidly rising oil imports and growing natural gas shortages. Both posed risks of future supply interruptions. The high level of oil imports also threatened the independence of U.S. foreign policy and imposed a substantial drain on the U.S. economy. Over the longer run the Nation faced the need to begin the transition from oil and gas toward more abundant energy resources. The new Administration recognized the critical importance of a comprehensive energy policy that would address these concerns and in April proposed to the Congress a National Energy Plan.

Economic Principles

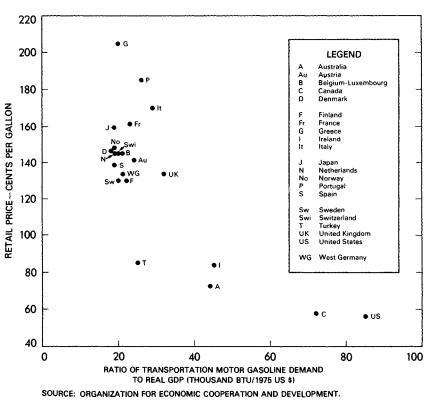
To achieve both its short- and long-run energy objectives, the energy plan relies principally on mechanisms that bring prices and social costs of energy together. Social costs represent the sum of private costs (energy production costs and the cost of oil imports) and the costs of important side effects (environmental damage and the risks to national security and to future economic activity posed by energy imports). Although the high price of oil imports exceeds the costs of production in the OPEC countries, it nevertheless represents the social cost to the United States of acquiring additional supplies. At the same time, each component of the plan balances the important principle of efficient use of energy with the goals of fairness, sustained economic growth, reduced inflation, and a clean environment.

Raising energy prices to reflect costs more closely should have significant effects, and these will grow over time. In the short run, energy consumption is largely determined by the utilization of existing energy-using devices—machines, vehicles, and buildings. Short-run movements in energy prices are therefore likely to have only limited effects on energy consumption. After a short lapse of time, the effects grow as users respond to higher prices by adjusting the current capital stock—installing, for example, insulation or electrical management devices. As the existing capital stock is gradually redesigned and replaced and as the higher prices induce changes in consumption patterns and lifestyles, even greater changes should be seen in energy usage patterns.

Since the policies proposed in the NEP are designed to affect energy use over an extended period, the long-run response of energy consumption to higher prices is of particular interest. There is now a large body of econometric and engineering evidence indicating very substantial responses of energy demand to changes in price over time. An oversimplified but revealing way of demonstrating the long-run response is to show for a single year consumption differences across countries that have had wide and long-standing differences in the levels of energy prices. If differences in the energy price levels have persisted for some time, the consumption variations (controlling for variations in incomes) should reveal long-run responses.

Availability of data allowed such an experiment for petroleum use in transportation in 1975 (Chart 14).

Chart 14



Cross-Country Comparison of Motor Gasoline Demand in 1975

189

248-947 0 - 78 - 13

Recent studies have shown that the greatest international difference in ratios of energy to total output is due to variations in transportation use. Though the cross-country comparison here cannot reflect differences in highway and mass transit availabilities between countries, in cultural factors, or in other tax policies, the marked variations in transportation patterns are particularly striking. Countries that charged their consumers the highest prices for motor gasoline showed the lowest transportation petroleum use relative to their national income. In the United States and Canada, on the other hand, where gasoline prices were less than 50 percent of levels elsewhere, the intensity of oil consumption was approximately double that of the other countries. These results are particularly significant because the variation in prices between these countries is largely due to differences in gasoline tax levels, thereby indicating that differences in consumption primarily reflect demand rather than supply responses. Finally, though uncorrected for other salient differences between countries, these responses of transportation petroleum demand to price changes are indicative of the potential long-run effects of more rational energy prices.

The NEP also recognizes the role played by prices in producers' decisions. Under current law, domestic oil and natural gas prices are controlled at levels well below the prices of either imported oil or intrastate gas. While the plan recognizes the importance of encouraging exploration, it also recognizes the central importance of raising prices only for new production. Increasing prices for existing production to levels artificially inflated by a cartel would primarily transfer very large sums from consumers to resource owners without generating significant additional supplies.

Specific Proposals

The NEP contains seven principal elements:

1. Crude oil pricing. To eliminate both the subsidy of imported oil and the administrative difficulties of the entitlements system, the NEP calls for a wellhead or a crude oil equalization tax (COET) to be phased in over 3 years. By 1980 each barrel of controlled oil would be taxed at the difference between the import price and its controlled price. Domestic and import prices would be equalized, and the need for the cumbersome entitlements system would vanish.

In addition, through administrative actions certain categories of oil would receive higher prices to encourage exploration and development. "Brand new oil" (that is, oil discovered after April 20, 1977, in wells meeting certain geographical and depth criteria) would receive the 1977 world price, adjusted thereafter for increases in the general price level. This represents a 20-percent increase over the present new oil price. Oil recovered through new tertiary recovery would be decontrolled as is now the case for stripper well production.

Coupled with the wellhead tax, these new incentives raise purchase prices of all domestic oil to world levels---that is, to the cost to the Nation of meeting added oil demands. The receipts from the COET, estimated to range between \$11 billion and \$14 billion by 1980, would be rebated to consumers on a per capita basis. Rebates would restore the loss in consumer purchasing power caused by the tax.

At the user level, the plan adds a tax on industrial and utility use of oil, beginning in 1979 for industrial users and in 1983 for utilities. Over a 5-year period, the tax would increase petroleum costs by up to \$3.00 per barrel for industrial and \$1.50 for utility use. The user tax is designed to increase the user price of oil to reflect the social costs posed by the risk of continued high levels of imports, and is targeted to the users most easily able to conserve and convert to other fuels.

2. Natural gas pricing. Because the market is so far from equilibrium, the problems of natural gas have been among the most difficult to solve. One commonly suggested solution would decontrol the prices of all new gas. Though such a step would eventually clear the natural gas market, it would make available relatively small quantities of additional gas—at the cost of substantial inflation and inequity. The inflationary impact of decontrol could be especially severe under the current system of rolled-in pricing. The decontrolled prices of new gas would be averaged with much lower cost production, allowing the prices of unregulated gas to rise well above the oil price equivalent.

The natural gas pricing provisions of the NEP address the major problems—geographic supply imbalances, insufficient producer incentives, and excessive natural gas consumption—without imposing severe inflationary consequences or generating inequitable transfers of income. Thus the plan proposes an increase in the current price allowed for new interstate commitments, and replacement of the present system of "vintaging" new contracts with a single price for all new gas discovered after April 20, 1977. Regional imbalances between gas supply and demand would be corrected by a price ceiling applicable to both the interstate and intrastate markets.

Two proposals at the user level would further improve the efficiency of natural gas pricing. First, the present rolled-in pricing structure would be replaced by a system designed to economize on natural gas use. Specifically, all utilities distributing natural gas would be required to pass on the costs of more expensive replacement gas to low priority (largely industrial) users, many of whom currently face the lowest tariffs. Over time, this would encourage conversions from gas by those most able to respond to the price change.

The end user pricing reforms would be supplemented by a tax on the industrial and utility use of natural gas. Like the user tax on oil, the gas user tax would be implemented in 1979 for industrial users and in 1983 for utilities, and phased in gradually. The price of gas to industrial users would eventually be raised to the equivalent price of oil. Together with the other natural gas proposals, the gas user tax would, over the long run, substantially reduce curtailments by raising prices of natural gas to levels that reflect the opportunity costs of gas use.

3. Coal conversion. Provisions in the NEP that increase the prices of oil and gas will encourage a search for alternative fuels. Though the low cost and relative abundance of coal make it a particularly attractive alternative, the continued vulnerability of the United States to oil price increases and supply interruptions suggests that further acceleration of the coal conversion process would be in the national interest.

Toward that end the NEP proposes two important measures. To supplement the taxes on oil and gas use, the plan proposes that firms be eligible for either an additional 10-percent investment tax credit for conversion expenditures or a rebate of any user taxes paid, up to the amount of any expenditures incurred for conversion to coal or other fuels. Under proposed regulations, the burning of oil and gas in all major new utility and industrial boilers would be prohibited, with some environmental exceptions. Authority would also exist to prohibit the burning of oil or gas in non-boiler facilities or in existing facilities with coal-burning capabilities. The plan proposes Federal monitoring of the coal transportation system to ensure that it will accommodate the expected growth in coal production and use.

4. Conservation. A major feature of the plan is its fuel conservation package, which includes a blend of taxes, tax incentives, and regulatory requirements. The principal tax measure, in addition to those discussed above, proposes a graduated "gas guzzler" tax on new automobiles with fuel efficiencies below the fleet average levels required under EPCA. Significant tax incentives include tax credits for home and building insulation and a large credit for solar heating and cooling equipment. Finally, the plan encourages cogeneration and district heating and proposes the establishment of mandatory minimum energy efficiency standards for major appliances.

5. Utility rate reform. The NEP proposes a series of initiatives to confront electricity users with prices that reflect incremental costs of production more closely than has been true under current modes of regulation. For example, promotional declining block rates and other rates that do not reflect marginal costs could be phased out. Such rates are particularly inappropriate now that electricity in many areas is no longer produced under conditions of declining costs.

Under the NEP, utilities would be required either to offer daily off-peak rates to customers willing to pay metering costs or to provide a direct load management system. In addition, they would be required to offer lower rates for interruptible service. Finally, master metering, which removes incentives to conserve, would be prohibited in new structures.

6. Nuclear power policy. Though the plan envisions growing reliance on nuclear power, advanced nuclear technologies that are uneconomic or pose significant risks of nuclear proliferation are deemphasized. In particular, the Administration in 1977 proposed to cancel the commitment to the construction of the Clinch River Breeder Reactor Demonstration Project and indef-

initely defer the reprocessing of nuclear fuel, a necessary part of a commercial breeder system. In part, these decisions were based on the revised economic outlook—slower growth of electricity demand and higher expected capital costs for the breeder. In addition, the Administration was determined to push forward with plans to develop a second-generation power reactor that would have a smaller risk of proliferation.

Common to all nuclear technologies are the problems of safe long-term waste disposal. The plan emphasizes the importance of safe waste disposal, which is receiving more top management attention and larger budgets than previously.

7. Oil supply interruption insurance. To the extent that the above elements of the NEP successfully discourage oil consumption, the United States will be less vulnerable to possible future oil supply interruptions. Nevertheless, even under the most favorable circumstances, the United States is expected to continue importing oil. To provide added insurance, therefore, the plan proposes the creation of a Strategic Petroleum Reserve (SPR), which received its first oil shipments in July 1977. Current policy calls for storage of 500 million barrels by the end of 1980—enough oil to cover a 4-month interruption of 4 million barrels a day.

By the end of the year the House-Senate Energy Conference Committee reached compromise agreements on three of the principal elements of the plan. The agreements included coal conversion regulations much like those proposed in the NEP but with a greater number of exemptions, utility reforms that State regulatory commissions would be required to consider but not to adopt, and requirements that utilities "audit" buildings to determine their energy conservation potential (but not to finance the installation of insulation as the NEP had proposed). Also approved was a system of grants and loans for energy conservation and solar energy.

The other elements of the plan, including the oil and natural gas pricing provisions and the proposed energy taxes, await further consideration and final action by the committee. Passage of this legislation is critically important if the United States is to lay the foundation for secure economic growth over the coming years.

Projected Impact of the NEP

Though long-run projections are difficult to make, the Department of Energy (DOE) projects that 1978 passage of the NEP, as originally proposed, would reduce oil imports by approximately 4.5 million barrels per day by 1985, compared to the effects of current policy. Natural gas pricing provisions are projected to reallocate natural gas to high priority uses and to stimulate additional production through higher prices. The incentives for conversion to coal and the equalization of intrastate and interstate prices are expected over the long run to reduce curtailments substantially.

In addition the coal conversion program and rationalization of pricing in alternative fuel markets are projected to increase the use of coal by 1985 by approximately 200 million tons over projected levels without the plan (the equivalent of over 2.4 million barrels of oil per day).

The short-run effect of the plan on the aggregate demand for goods and services is expected to be quite small because it has been designed to change the prices of energy relative to other products, without changing the overall level of demand for goods and services. Energy taxes, for example, are largely offset by both tax rebates and new expenditures to prevent reductions of consumer purchasing power. As a result the plan is expected to change aggregate demand in the short run by no more than a few tenths of a percent in either direction. Over the long run, because the plan will improve economic efficiency by rationalizing patterns of use in the energy sector, it should produce a more rapid growth in potential output.

The major foreseeable economic consequences of the program will follow from the effect of the increased prices for petroleum and petroleum products and for natural gas. The annual rate of inflation in 1978 and 1979 is expected to be 0.3 to 0.4 percent higher with the program than without it. In the subsequent 2 years, the inflationary impact of the program is projected to subside to between 0.1 and 0.3 percent.

OTHER ENERGY POLICIES

Policies aside from the NEP concentrated principally on supply measures. Long-term prospects for gas supply were substantially improved by Presidential and congressional approval of the Alaska Natural Gas Pipeline. Expected to be operational in 1983, the pipeline will cross both Alaska and Canada (following the "Alcan" route) before connecting with the interstate pipeline system in the United States. At capacity, it will transport 0.8 trillion cubic feet per year and supply approximately 5 percent of total U.S. gas consumption.

Though imports of natural gas are now relatively small, substantial additions could be made by Mexican imports and new liquefied natural gas projects. Pending before the Economic Regulatory Administration (ERA) of the Department of Energy at the close of the year were several proposals that, if eventually approved, could permit importation of over 4 billion cubic feet per day by 1985. ERA must decide on a multitude of issues—reliability, independence, siting safety, accident liability, and pricing—before giving its final approval.

The pricing issue, in particular, raises the important question whether the present method of rolling-in new gas prices will continue or whether another method will be found of moving to a system where users face more realistic prices for higher-cost gas. Because continuation of rolled-in pricing would confront consumers with prices below the costs of replacing the gas they consume, policy makers face a challenge in arriving at feasible and economically efficient policies for pricing LNG in the future.

FOOD AND AGRICULTURAL POLICY

Since the end of the 1920s the United States has undertaken a variety of programs directed at mitigating problems in agriculture. For much of this time the major problem has been chronically low returns to the resources employed in agriculture. The problem was evident in declining relative prices and in the lower incomes of farm people compared with those of nonfarm people. The pattern of low returns was recently interrupted for a brief period from 1973 to 1975, during which prices and incomes were substantially higher. Since then, however, prices and rates of return have declined sharply, and the policy concerns of earlier years returned in 1977.

THE POLICY PROBLEM

From the mid-1950s until 1973 the agricultural sector was plagued with chronic surpluses. During that period, productive potential substantially exceeded consumption. The adoption of new technology and the substitution of machinery, fertilizer, pesticides, and energy for human labor produced major increases in farm productivity, yet prices were not allowed to fall to clear markets. The exodus from farming, the increasing size of farms, and the net population outflow from rural areas that had begun much earlier accelerated. Only in recent years have these forces subsided.

The government has employed a variety of policy instruments in efforts to maintain farm incomes at socially acceptable levels. Such instruments have included supply control through production restrictions (such as acreage set-asides), direct income transfers, and a government-provided market of last resort to support commodity prices.

Beginning in 1972 the situation in agriculture began to change. A number of forces were gradually evolving in the world economy and acting to create a better balance between demand and supply for the output of American farms. Rapid growth in worldwide population and income, together with a growing sensitivity to hunger and malnutrition in many parts of the world, were leading to increased demands for U.S. agricultural output. The shift of some centrally planned economies from being food exporters to being net food importers worked in the same direction. The supply of U.S. farm output, meanwhile, was rising less rapidly. Yield increases fell behind the impressive gains of the 1960s. Accompanying these long-run developments were several events of the early 1970s that also resulted in abrupt changes in the supply-demand balance for food. These included major realignments of foreign exchange rates, poor crop harvests due to adverse weather, and changes in the policies of major countries, especially the Soviet Union, toward responding to food shortages. As a result, from 1973 to 1975 the agricultural sector enjoyed nearly unparalleled prosperity, with record volumes of exports pushing commodity prices to new highs. But this economic boom was not without side effects. Domestic food costs increased sharply, and such concerns led to the imposition of export embargoes that strained long-standing trading relations. The domestic livestock industry endured one of the most unprofitable periods in its history, land prices were bid up substantially, and debt for farmland purchases was incurred on the basis of unsustainable conditions.

By the end of 1977, however, conditions in the farm sector had again become similar to those of the pre-1972 era. U.S. farmers had harvested their third consecutive bumper crop, and grain stocks were rebuilt significantly from the low levels reached in 1974–75. Production expenses continued to increase while commodity prices were falling, and the volume of farm debt soared. The crop commodity price index had declined 27 percent from the peak in 1974, and large government price support activity was in prospect. Aggregate real net farm income was approaching the levels of the 1960s. The unrest among producers was manifest in the widely publicized farmers' strike that started in late 1977.

With the apparent return of the farm income problem, the deeper question remains whether there has been a fundamental shift in the patterns of price and utilization in agriculture. There is no doubt that with only a few successive years of favorable weather, the U.S. agricultural machine has the capacity to create again the "surpluses" with which agriculture has so long been associated. It is not clear whether the current period is only a short-term reaction to low worldwide incomes and abnormally good weather, or evidence of a return to chronic conditions of oversupply. As noted below, some signs indicate serious global risks of a return to high prices, given the margin of stocks over consumption.

Thus, while the familiar problem of low incomes in agriculture had returned in 1977 and its end was not in sight, the context was new and still unfamiliar. American farmers are now increasingly dependent on volatile world markets, while both producers and consumers are more vulnerable to wide price fluctuations and renewed inflationary pressures.

INCOMES IN AGRICULTURE

It is no longer possible to generalize meaningfully about the economic status of the agricultural sector. Farms are not uniform; a wide diversity of types and sizes of farms exists in every region of the country. Furthermore, the economic health of the farm sector must be distinguished from the economic well-being of the farm people. The commercialization of farming and the emergence of dependence on both farm and nonfarm sources of income have altered the meaning of comparisons based on aggregate measures of agricultural income.

Real net farm income in 1973 reached the highest level since World War II. Though down sharply from that peak in 1974-75, it remained well above the average of the previous decade. Gross income has since declined further with recent large crops and falling prices. Combined with escalating production expenses, this reduced the real net income from farming in 1977 to the lowest level of this decade (Table 31).

Year	Total net		Rate of return on equity capital		Off-farm income
	farm income 1	Capital gains ²	With capital gains included	With capital gains excluded	(billions of 1967 dollars) ¹³
	Billions of	1967 dollars	Percent		
1970	12. 2 12. 0 14. 9 25. 0 17. 7 15. 1 11. 5	-3.5 7.6 24.3 58.6 8.7 10.0 18.9	3.5 7.7 14.3 25.4 7.9 7.4 8.7	4.9 4.7 5.4 7.6 5.3 4.4 3.3	12.4 12.6 14.0 14.7 14.6 14.1 14.2 14.3
1970–76 average	15.5	17.8	10. 7	5. 1	13.8

TABLE 31.--- Real income and returns to agriculture, 1970-77

^t Deflated by the consumer price index. ² Calculated as the change in physical asset value less net investment plus the change in net financial liability, where each component is first deflated by the consumer price index. ³ Off-farm income includes all income received by farm residents from nonfarm sources such as wages and salaries from nonfarm employment, nonfarm business and professional income, rents from nonfarm real estate, dividends, interest, royalties, unemployment compensation, and social security payments. ⁴ Preliminary.

Sources: Department of Agriculture and Department of Commerce.

The level of aggregate real income must be viewed in a historical context. Claimants to farm income have become fewer each year. Today the number of Americans who earn their living from farming is about half the figure two decades ago, and they no longer perform many of the production services once carried out on the farm. Moreover the distribution of total earnings is heavily skewed to the largest farms. In 1976, 63 percent of realized net farm income was earned by 17 percent of the farms.

An aspect of the returns to farming that is often overlooked is capital gains. Asset values in real terms were relatively stable during the 1960s, but they increased markedly in 1972-73 with buoyant expectations of future earnings. Though the pace has slowed since 1973, the increase in real capital gains has continued, averaging \$18 billion annually in this decade. However, these gains accrued largely to owner-operators and landlords, not to the tenants who utilize almost half of the total farm land.

If the expectations generated during 1973-74 are discounted, resource earnings to equity capital through 1976 do not appear abnormally low relative to historical experience in agriculture (Table 31). The real rate of return to farmers' equity capital from 1970 to 1976 averaged 10.7 percent

annually before income taxes but including capital gains. Excluding capital gains, the rate of return averaged 5.1 percent. The farm sector rates of return for the 1970s are not far from rates in the nonfarm economy. For example, the average annual rate of return to nonfinancial corporate capital for 1970–76 was 6.9 percent. Slight definitional differences preclude strict comparison, however. It should be recognized that the aggregate data conceal a wide variation among farm operators; extreme hardship is being experienced in many individual cases, particularly in 1977.

Another component of the economic well-being of the farm population is off-farm income. The real income of farm people from nonfarm sources continues to increase over time and accounts for an increasing proportion of the total income of the farm population (Table 32). Nonfarm income accounted for three-fifths of total income to the sector in 1976.

Per capita Income from disposable farming as Total personal income percent of income, Period farm popper farm farm (1967 operators' ulation as dollars) 1 total percent of income nonfarm population 1961-65 average_____ 1966-70 average_____ 6, 820 8, 852 51.2 45.9 61.7 72.0 9.078 41.3 74.7 1972..... 10, 669 46.4 83.4 1973_____ 14, 176 109.3 92.4 55.8 12, 951 51.2 1974_____ 42.2 88. 0 81. 4 1975_____ 10, 889 1976..... 11, 178

 TABLE 32.—Real income per farm and per capita disposable personal income of farm population as percent of nonfarm, 1961-76

¹ Net farm income excluding inventory change plus off-farm income of farm households, deflated by the consumer price index.

Sources: Department of Agriculture and Department of Labor.

Income estimates per farm provide a rough measure of the relative economic well-being of farm households compared with their nonfarm counterparts (Table 32). The comparison is not completely apt, however, because of differences in the cost of living and in the number of persons per household, as well as differences in amenities between farm and nonfarm living. Although the per capita disposable income of farm households has long been below that of nonfarm households, there has been a slow but steady convergence of incomes in farming to those of the rest of the work force. In 1973 income of farm households actually reached and temporarily exceeded that of nonfarm households, but since then the ratio of farm to nonfarm incomes has fallen sharply.

Because they are so numerous, agricultural producers are "price takers," and are especially vulnerable to the adverse impacts of uneven rates of change in prices. During a period of inflation led by food prices, producers initially benefit from large runups in prices of raw farm products, but the increased earnings are generally capitalized into land prices. The owners of such assets enjoy a gain in real wealth, but total rates of return fall back to historical levels. Moreover the return of more nearly balanced supply and demand conditions brings commodity prices down again, and farm incomes fall, while debt incurred during the boom remains.

INSTABILITY OF PRICES AND INCOMES

The average annual export volume of U.S. agricultural products for 1971–76 was one and one-half times greater than the annual average for the 1960s. Average export earnings in the same period reflected a nearly three-fold increase over the annual average for a decade earlier. This increased access to world markets has been beneficial not only to agriculture but also to the Nation's economy. The increased export earnings have contributed to a more favorable trade balance, helping to offset the large external deficit. However, this increasing reliance on foreign markets poses new problems for U.S. farmers and consumers as well as for the domestic economy more generally.

Markets for agricultural products have long been subject to variability in domestic production and consumption. In recent years, however, they have become increasingly vulnerable to the random fluctuations of weather throughout the world and to changes in consumption or in the policies of other trading nations. Moreover, many nations attempt to insulate their internal food prices from world supply and demand fluctuations. To the extent that they are successful, a disproportionate share of the short-run

	1961-70		1971-77	
Component	Average annual change	Index of vari- ability	Average annual change	index of vari- ability
	Percent			
National income	4.5	3. 4	2.0	3.6
Compensation of employees Nonfarm proprietors' income Rental income of persons Corporate profits Net interest	5. 2 1. 6 . 4 2. 4 10. 3	1.8 5.3 6.9 16.0 2.8	2.1 -1.7 -4.1 1.5 8.0	3. 1 5. 6 4. 5 12. 8 3. 2
Farm income: With Government payments Without Government payments	7 -2.9	7.4 8.5	-4.4 -1.0	29. 4 34. 7
Per capita personal income: Total population Farm population From farm sources	3.5 6.1 3.4	1.6 3.3 4.5	1.6 1.8 -1.3	2.4 13.6 25.0

TABLE 33.—Trends and	l variability in rea	l national income	components,	1961–77 ¹
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¹ These estimates were calculated from regressions of the natural logarithms of the various deflated components of national income on a linear time trend. The deflator was the consumer price index. The average annual change refers to the coefficients of time and the index of variability refers to the standard errors of the regressions. Data for 1977 are preliminary.

Source: Council of Economic Advisers, based on data from Department of Agriculture, Department of Commerce, and Department of Labor.

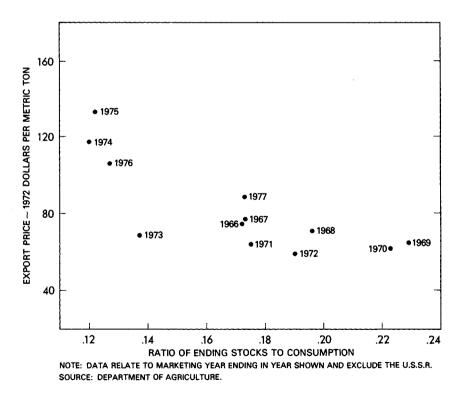
adjustment to changing market conditions is forced upon market-oriented countries such as the United States and on developing countries with food deficits.

These sources of instability are reflected in the increased variability of farm income in recent years. Variability in farm income during the 1970s was about four times greater than in the 1960s (Table 33). In fact, during 1971–76 income from farming was by far the most volatile of the major components of national income. This increased variability is also manifested in the per capita incomes of the farm population. Although the variability is considerably reduced when one includes income of the farm population from nonfarm sources, the total is still much more volatile than the per capita income for the population as a whole. On the other hand, the average rate of growth of per capita farm income from all sources has outpaced the growth of per capita personal income during both periods.

Instability in agricultural product prices has a significant impact on the entire domestic economy. Sharply increasing prices of raw farm products

Chart 15

World Wheat and Coarse Grains: Export Prices and Ratio of Stocks to Consumption



soon lead to increases in food prices that affect all consumers—but most severely those near the bottom of the income distribution.

The instability of food prices was clear during the last few years, when low worldwide stocks of grain and poor harvests led to sharp increases in domestic food prices. From 1972 to 1976 the ratio of world stocks to world consumption, excluding the U.S.S.R., fell from 19 percent to the 12- to 14-percent range. Prices more than doubled (Chart 15). World stocks were increasing by 1977 as the second consecutive large global crop was harvested.

World stocks of grain will have to increase along with continued growth of world population and income to provide a cushion against another food crisis. The stocks-consumption ratio in 1977 was at a level of 17 percent. A third successive large crop for the world would result in a ratio in the more comfortable 18- to 20-percent range, and an average crop would provide some buildup in stocks. On the other hand, a very poor world crop, which has about a 1 in 12 probability of occurring, or two consecutive moderately poor crops, could again reduce the ratio of ending stocks to consumption to the 13- to 14-percent range and cause sharp price increases. The recent large fluctuations demonstrate the importance of developing ample world food reserves.

PRICE AND INCOME MEASURES

It is generally recognized that farm commodity programs through the years have impaired economic efficiency by regulations preventing the production, resource use, pricing, and trade that could flow from unbuffered markets. Once inaugurated, programs have seldom achieved the intended result; and it has often been politically difficult to reform or terminate them, even when their economic inefficiencies are recognized.

From their beginnings and for three decades afterward, farm programs tended to be inflexible, restrictive, oriented toward individual commodities, and poorly adapted to prevailing market conditions. Beginning in the mid-sixties, some reform was introduced, and the 1977 legislation continued this recent trend in agricultural and food legislation. It is a further step in the process of bringing policies and programs in closer accord with the economic realities of a modern farm sector operating in a worldwide context.

The most heavily used policy tool for improving farm income has been market price support for individual commodities. This has been accomplished primarily through Commodity Credit Corporation (CCC) nonrecourse loans under which the commodity is pledged as collateral. Historically the support level, known as the loan rate, was generally inflexible and pegged to "parity" prices. Because of rapid technological change in farming, parity and therefore support prices were generally above marketclearing levels, encouraging uneconomic output, discouraging consumption, and thereby aggravating the surplus problem. This situation, in turn, generated political pressures from the farm sector to curtail output. Quotas, allotments, and other measures for production control were then applied to individual commodities. With no coordination across commodities, supplydemand imbalances soon arose in other commodities.

Because of slow but significant changes in farming, these policies became increasingly inappropriate. It became uneconomic for a major exporting country to strengthen farm income by high support prices because the demand for U.S. exports was more price sensitive than domestic consumption. With inflexible U.S. price supports above market-clearing levels, competitors could gain an increasing share of the world market, and as a consequence the United States became the residual supplier in world markets. In addition to the economic losses of inefficient resource allocation, the large transfer payments to the farm sector had become burdensome, and political pressures to reduce the transfers became greater.

The first steps toward reform—to make farm programs more responsive to market conditions—were taken in the mid-sixties. As a supplement to the CCC price support loans, small "price support payments" were also provided for certain commodities produced under allotments or quotas. This represented the first move toward divorcing price support from income support and toward the use of different measures to attain these dual goals.

More significant changes in the traditional tools were later effected. The individual commodity approach to production control was discarded in favor of restraining production capacity generally. Price support eligibility was contingent only upon producers' idling a specified proportion of their cropland. Except for quota crops (rice, sugar, peanuts, tobacco, and extra long staple cotton), producers were free to plant whatever they wished on the remaining acres.

Farm program subsidies have traditionally been based on volume of production. As a result the relatively few large producers with greater volume tended to receive a greater share of total program benefits than the more numerous smaller farmers. To the extent that this occurred, the programs implicitly contributed to a widening disparity of income distribution in agriculture. Partly in recognition of this fact, a \$55,000 limit on the amount of payments which a producer could receive under the major commodity programs was imposed for the first time in 1971.

Legislation in 1973 continued the movement toward fewer program restrictions and greater reliance on market signals to guide producers' decision making. An important step was taken in the Agriculture and Consumer Protection Act of 1973 when, by including a target price-deficiency payment system, income support was fully separated from price support. Following the concept first proposed in the late 1940s as the Brannan Plan, income transfers were provided to producers in addition to the price support loans. These income transfers vary inversely with the market price. No payments are made if the market price is at or above the target price; but if the market price is below the target price, support payments are based upon the differential. The payment limitation was reduced to \$20,000 in the 1973 act.

Economic conditions after 1972, when increased world demand caused prices to be well above the price and income support levels, allowed the commodity programs legislated in the 1973 act to be essentially inoperative. No production restrictions on the major commodities were employed during 1974–77. However, as U.S. and world stocks returned to more normal levels, prices declined and there were growing political pressures in this country for increased government price and income support.

POLICY DEVELOPMENTS IN 1977

When the Carter Administration took office in 1977, it faced the reemerging farm income problem, the potential instability problem, and the expiration of major legislation affecting agriculture and food. In addition, other policy proposals—including establishment of grain reserves and examination of the organization and funding for agricultural research—were advanced. The challenge thus facing the new Administration was to work with the Congress in developing legislation that would meet the incomes objective but reduce economic efficiency as little as possible. For the first time in over a decade, the Administration authored a comprehensive food and agricultural bill and presented it for consideration by the Congress. The congressional action resulted in passage of the omnibus Food and Agricultural Act of 1977 (Public Law 95–113).

The 1977 act further modifies and extends the available policy tools--providing for flexible price-support levels, increased reliance on direct income support, abolition of allotments, and a managed grain reserve.

Price Support

The act contains price supports at levels that afford price protection to farmers, yet are low enough not to interfere with markets except in years of excessive stocks. The price support programs therefore provide an interim financing arrangement whereby producers may even out their cash flow but eventually return their products to the market. One important change in the act, included largely in recognition of the increased importance of world markets, is downward flexibility in the support prices for the major commodities. Whenever season average prices are within 5 percent of the loan level and the price support interferes with the competitiveness of U.S. products in world markets, the loan level may be reduced by amounts up to 10 percent per year (with absolute minimum loan levels specified).

Income Support

Divorcing price support from income support in farm commodity programs allows income distribution objectives to be pursued with less economic distortion than if price supports alone are used as a means of bolstering farm income. If minimal supports do not interfere substantially with the functioning of the market, then production and use may be largely unaf-

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fected. In this case the only noteworthy cost of the programs to society would be direct income transfers.

Parity, the long-used concept for determining needed income support for agriculture, was discarded for the major crops in the 1973 act because technical flaws—failure to account for productivity changes is a major one made it inappropriate for modern conditions. Instead, the 1973 act adopted a "cost of production" concept for target price escalation. Lack of adequate cost data at that time forced the use of a broad-based index of prices for agricultural inputs, but individual commodity cost estimates have been developed in the intervening years.

The 1977 act completed the move to cost of production, using individual commodity cost as the basis for the target prices. However, just as with parity, this approach also has serious limitations. One is that the average cost of production is not a measure of equilibrium price, since it reflects only supply and not product demand conditions. Further, an inherent potential for an artificial target price spiral exists in the cost of production approach if fixed asset (primarily land) costs are included. Producers earning high returns at a given target price level will bid up the price of land. Since the land price increase is reflected in the cost of production, the target prices are raised accordingly, and the spiral continues. The 1977 act bases the initial (1978) target prices on a proportion of total cost. Adjustment of the target prices in the next 3 years will reflect only variable, machinery, and overhead costs—the land and management components are excluded—thus largely avoiding the price spiral problem.

Acreage Allotments

As has been noted, prior to the 1977 act the criterion for determining the compliance required of producers and for disbursing benefits was the acreage allotment. In principle the allotments reflected each producer's historical share of national production of the crop, the shares being assigned on the basis of production patterns prevailing in a particular historical period, which for some crops was as long as 25 years ago. The rights to produce and market the crops became valuable assets, in effect representing a financial grant from government to the owner merely because in the past a particular crop happened to have been grown on the farm. Program benefits over the years were thus largely capitalized into land values. Because payments were conditioned on existing use patterns, these acreage allotments impeded a rapid geographic shift in production patterns. During the 1974– 76 period, when the allotment system lay fallow, production shifted significantly to those farms and regions of the country where the particular crops could be produced most efficiently.

During development of the 1977 act, the Administration proposed abolishing the antiquated allotment system. Compliance and benefits based on the old allotment system would have been inequitable and would have drastically lessened the efficiency of the programs in achieving their objec-

Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis tives. Overall economic losses would have been substantial if farmers had returned to the old production patterns in order to receive program benefits, rather than planting those crops that they could produce most efficiently.

The Congress adopted the Administration's proposal to abolish allotments and base the programs upon a "current plantings" concept. Under this approach, farmers can make decisions regarding current year production on the basis of costs and anticipated market prices. Any compliance requirement (such as the acreage set-asides for the 1978 wheat and feed grain crops) and price and income support are then based on decisions that are reflected in current year plantings. While still not a perfect program tool, the current plantings concept offers hope of avoiding rigidities in production patterns, and in the associated losses of economic efficiency, and it removes much of the inequity of the allotment system.

The concept may, however, create a new source of resource misallocation if producers respond to the target prices in those years when they are substantially above market prices. Basing income support on current plantings could lead to production distortions, an uneconomic product mix, rapidly increasing support levels, and a need for stringent production controls to avoid unacceptably large Treasury outlays for the support programs. The 1977 act thus improves the efficiency of farm programs but does not fully resolve the fundamental dilemma: how to provide income protection to farmers in a way that is equitable yet does not lead to uneconomic production decisions.

Stabilization Measures-Domestic Grain Reserves

The establishment of a domestic grain reserve began to receive serious consideration soon after the 1972–73 experience with sudden shortages. Numerous proposals for reserves entailing various forms, sizes, and operating rules had been advanced, but support for reserve schemes was mixed. Farmers who associated the large government-held stocks of past years with low commodity prices were at first opposed; but as grain prices continued to decline, the opposition from many gradually diminished. Consumer advocates, on the other hand, remembering the post-1972 increases in food prices, generally favored a reserve system.

The Administration announced in April the formation of a small food grain reserve of 8 million metric tons of wheat and rice from the 1976–77 crop. The 1977 act then mandated such a reserve specifying minimum and maximum quantities and also authorized a feed grain reserve. In late August the Administration announced its intentions to enlarge the reserve to 30 to 35 million metric tons of food and feed grains.

This reserve system is to be owned and held to a large extent by farmers. Rules for its operation are explicit, thus precluding stock releases not motivated by economic considerations. A set of release prices has been established and grain enters the reserve at the loan level. The government will share the cost of holding the reserve.

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The reserve of 30 to 35 million metric tons has three major components: 9 million metric tons of wheat and rice; 17 to 19 million metric tons of feed grains; and an international emergency wheat reserve of 6 million metric tons. The exact size of the reserve within the range given will depend upon the amount of grain acquired by CCC through the nonrecourse loan program. The first two components, totaling 26 to 28 million metric tons (the producer-held portion of the reserve), are being established through extended loans by the CCC. Upon expiration of the regular price support loan, producers may enter into a contract with the government to hold the grain for 3 to 5 years. Storage payments are provided until the first price trigger (140 percent of the loan level for wheat and 125 percent for corn) is reached. If the second price release point (175 percent for wheat, 140 percent for corn) is reached, repayment of the loans may then be required.

The Administration is submitting proposed legislation to the Congress in 1978 to authorize establishment of the government-owned International Emergency Wheat Reserve of 6 million metric tons. The legislation stipulates that the reserve is to be used for humanitarian purposes in meeting contingency food needs or as part of any U.S. commitment to an international reserves scheme that may be negotiated.

A domestic grain reserve can be operated in accord with a price-support program. Stocks will be insulated from the market when prices are low and released back into the market when supplies are short. The planned reserve should: (1) provide a beneficial price effect to farmers when the reserve is established; (2) not "overhang" the market at low price levels as in past years by virtue of the contract release prices and CCC release prices; (3) provide buffer stock protection against severe market disruption; and (4) provide a reasonably wide price corridor—containing the long-run price comfortably away from either ceiling or floor—which allows price to perform its allocative function.

REGULATORY REFORM

In a mixed market economy like that of the United States, government regulations of the marketplace sometimes play a vital role in meeting social goals, curbing abuses, or mitigating the hardships that would flow from the unconstrained play of economic forces. *Economic regulatory programs*, for example, control entry of firms into particular lines of business, set prices they may charge, and sometimes specify the standards of service the firms can offer. Under certain circumstances the regulations can be useful in regulating natural monopolies or providing income support. *Social regulatory programs*, on the other hand, are designed to correct a variety of undesirable side effects in our economy that relate to safety, health, and the environment—effects that markets, left to themselves, often ignore. Whereas economic regulatory programs typically govern the conditions of doing business in one or more industries, social regulations frequently dictate some of the operating conditions required of a wide range of industries. The scope of economic activity covered by Federal regulation has widened as programs have grown and the number of explicitly recognized social goals has increased. Today the economic significance of regulatory activities of the Federal Government approaches that of direct tax and expenditure decisions. But while detailed and critical attention is given to budgetary action, regulatory efforts are poorly coordinated with other economic or social objectives. Moreover difficulties in the design of many programs frustrate attempts to attain the very goals for which the programs were formed.

ECONOMIC REGULATION

Regulatory programs that govern entry and pricing in individual lines of business were primarily designed to supplement or replace market mechanisms. As new areas were observed where the market outcome was judged unsatisfactory, the scope of Federal economic regulation expanded. Major industries that are now regulated include agriculture, airline and surface transportation, banking, communications, and energy.

At the same time, growth of the economy and technological progress have eroded many former natural monopolies, converted infant industries into mature ones, and created conditions conducive to reliable competitive services. Though economic conditions in some industries may continue to require some degree of regulation, rapid changes in others suggest that a greater role for market forces may be desirable.

Current Problems

An important reason for reexamining the rationale for economic regulation is that, in many industries, the rules are ill suited to present economic conditions. In some instances early goals that prompted regulatory action have been rendered obsolete by new economic conditions, but the regulations that promoted those early goals continue in force. In other cases the original goals were contradictory and at least one of them has been abandoned. Pursuit of almost all the goals has required that a growing number of activities be subject to regulation.

The history of airline regulation illustrates the growth of a regulatory structure from origins bearing little resemblance to current institutions. Federal regulation of passenger fares under the Air Mail Act of 1934 was introduced chiefly to prevent airlines from lowering passenger fares and receiving larger subsidy payments for airmail carriage. Economic regulations mandated by this act were expanded under later legislation that still governs the airline industry, despite the fact that airmail charges provide minimal subsidies to airlines and constitute a very small proportion of total airline revenues.

Surface transportation demonstrates how pursuit of a goal has expanded the scope of regulation. Early regulation of railroads had the dual aim of providing services at fair prices and stabilizing railroad profits. When oil pipelines, trucks, and water traffic threatened the solvency of railroads, these competitors were made subject to regulation in an attempt to maintain the railroads' profitability. Today all these, and intercity bus transportation as well, are regulated.

The continuation of regulation in markets that would otherwise be competitive has only deflected competition, not prevented it. In the airline industry, for example, service competition—particularly frequency of service but also such in-flight amenities as food, drinks, leather seats, and movies—has replaced the price competition that regulation preempted.

The prohibition on the payment of interest on demand deposits has induced individuals and businesses to limit the amount of funds held in this form. From the standpoint of society as a whole, this is an unproductive activity. It has also spawned the development of new business practices (some of which are discussed in Chapter 1) that are imperfect substitutes for interest-bearing demand deposits. These include telephone transfer systems that allow funds held for transactions purposes to be kept in interest-bearing deposits until the last possible moment, and the introduction of interest-bearing negotiable orders of withdrawal, or NOW, accounts, usable in virtually the same ways as checking accounts, by both banks and nonbank financial institutions in a number of states. The prohibition on interest payments on demand deposits has, therefore, largely been circumvented in indirect ways that are often inefficient.

Continued regulation has also imposed costs by delaying the introduction of new technology and services. Examples include the slow rate at which cable TV and railroad-truck piggybacking services have been introduced, the slow rate of expansion of radio services in particular markets because of licensing requirements, and the years of delay in the Civil Aeronautics Board's (CAB) approval of low-fare international standby service.

Movement away from regulation in any industry imposes costs on some who were previously protected. For example, though expanded competition in the trucking industry may increase economic efficiency and bring lower prices, it also would impose capital losses on truckers who purchased operating certificates from other truckers.

Administration Effort

The problems inherent in the present regulatory structure, the uncertainties posed by the complexities of many of the regulated industries, and the importance of avoiding unnecessary hardships prompted the Administration to take an active role in 1977 in promoting regulatory reforms to improve the present system.

The Administration strongly supported domestic airline reform initiatives, currently before the Congress, that promise a smooth transition to a less regulated environment. At the center of the initiatives is relaxation of controls over entry and pricing, although control of entry would be phased out over several years to allow existing firms to adjust. In the unlikely event that a community would lose service entirely under the new regulations, a transitional subsidy for such service could be provided.

Increased competition in the domestic airlines industry should benefit consumers by a lowering of fares similar to the dramatic declines in international air fares. The Civil Aeronautics Board and foreign governments have authorized a much wider range of services that involve fewer amenities before and during flights in exchange for appreciably lower fares. These actions have made foreign travel available to many people who were formerly unable to afford it. For example, the lowest available individual fare from New York to London was \$350. Under newly authorized standby plans, the same trip can be made for \$236, about two-thirds of the former cost. At home the results of easing entry in the intrastate airline markets in Texas and California have shown that significantly lower prices can be obtained without service disruptions.

The Administration also proposed changes rationalizing regulatory programs governing agriculture and energy, as discussed earlier in this chapter. Allowing expanded competition in other regulated industries where there are no significant scale economies, or where the original rationale for regulation no longer prevails, should offer similar consumer benefits and help to control inflation. The Administration has begun to examine intensively the current regulatory controls over the motor carrier industry, and other economic regulatory programs are slated for future study.

SOCIAL REGULATION

Social regulation of the market place has arisen in response to pervasive problems that have affected nearly all Americans at work and at home. In 1976 one of every 11 workers in private industry suffered from an accident or illness related to the job; 4,500 workers lost their lives from such causes. The Bureau of Labor Statistics estimated that over 39 million workdays were lost in the private sector in 1976 because of nonfatal occupational illness or accidents; and in the mining and construction trades, workers on the average lost more than one workday per year because of accidents and illness occasioned by the job. Because of the uncertain links between occupational hazards and illness, data that are readily available may well understate the problems.

Environmental problems are even more pervasive. Air pollution, produced by numerous industrial processes and the operation of transportation vehicles, has been clearly linked to many different illnesses. Adverse water quality has also proved to be dangerous. A recent study made by the Environmental Protection Agency (EPA) found the water of 80 cities to contain chemicals that are known to cause cancer in animals. To these known problems must be added the rapid growth in the use of pesticides and possibly toxic chemicals, which continues to outstrip current knowledge about their long-run effects. Markets do not respond well to these problems, primarily because only a very small fraction of any benefits from abatement efforts accrues to those who produce side effects—air or water pollution, for example. Incentives to take actions or collect information leading to environmental or safety improvements are therefore lacking. Until more positive steps are taken, environmental, safety, or health risks will be needlessly high.

If society wishes to mitigate this situation, government actions are required. The government has focused on many of the problems for only a very short time. Although the Food and Drug Administration was formed in 1931, and pesticides have been regulated since 1910, the Environmental Protection Agency (EPA) was formed in 1970, the Occupational Safety and Health Administration (OSHA) in 1970, and the Consumer Product Safety Commission (CPSC) in 1972. In addition, many of the substantive laws that these agencies administer have been in effect only as long as the agencies, or for an even shorter time.

Despite their newness these regulatory programs are likely to expand with our growing knowledge of the social problems involved, as has happened with the older social regulatory programs. One example of this growth can be seen in Federal pesticide regulation, which was begun to protect farmers from fraudulent claims by salesmen. In 1947 Congress passed the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) to meet new concern about direct poisoning by requiring the registration of such products. FIFRA was amended in 1967 and 1972 after the discovery of environmental dangers in DDT and other pesticides that were developed in the 1940s and 1950s. The new amendments provided new authority to license users of pesticides.

The same growing awareness of problems and expanded scope of programs have occurred in many other areas. As production techniques and products have become more complex, society has demanded protection against whatever hazards to health, safety, and the environment may accompany the benefits from the changes.

During the short time since their inception the social regulations have improved the conditions affecting the environment, health, and safety of Americans. For example, while the Nation's efforts to control water pollution are behind schedule and face some difficult problems, numerous bodies of water have been demonstrably improved. Because of mandated municipal and industrial waste treatment, aquatic life and recreational amenities have reappeared, and foul odors and visibly dirty water have disappeared in a number of the Nation's waterways.

Similarly marked progress has been achieved in reducing air pollution. Data collected by EPA and the Council on Environmental Quality (CEQ) at 280 locations around the country show significant improvements in ambient air quality between 1970 and 1976. The number of these locations that failed to meet national ambient air quality standards for sulfur

dioxide fell by 27 percent, for carbon monoxide levels by 20 percent, and for particulates by 12 percent. Nevertheless in all areas progress is often slower than expected because the social regulatory process has difficulty keeping pace with the rapidly expanding number of products and processes that pose possible hazards to society.

The social regulatory programs have produced clear benefits to society in the short time they have existed. But their costs have also been substantial—larger than were originally anticipated. The national interest requires not only that we achieve the goals of social regulation, but that we do so at minimum cost. Two broad sets of factors are important in determining the cost of our social regulations: the level of our ultimate goals and the pace at which we try to achieve them; and the design of the regulatory mechanism.

The Pace of Regulation

The level at which society sets its goals is an important factor in determining the cost of achieving those goals. Over the next few years, however, costs will be largely determined by the pace at which we pursue our goals. There is a major tradeoff to be faced between the pace at which the goals are attained and the costs of their attainment. Ideally we should set the pace of moving toward our objectives at the point where any step-up would add more to costs than to the social benefits. In practice we have only limited and imprecise information on the benefits of many social programs, although we know considerably more about how changes in pace affect costs. In many cases more rapid implementation is quite costly. For example, the Council on Wage and Price Stability studied the water pollution effluent guidelines for the iron and steel industry, proposed by EPA in 1976. It found that a relaxation of the 1977 standard for water pollution control in this industry with no change in the more stringent 1983 standard would permit savings in capital costs of \$200 million. We cannot measure the dollar value of the gains from earlier achievement and compare them with those costs. But in making regulatory decisions on the speed of attaining standards, we should explicitly make a qualitative judgment about whether the gains from earlier attainment are worth the costs.

The pace at which regulatory goals must be met may also indirectly affect costs. Deadlines that are excessively short, combined with detailed prescriptions of technological solutions, can discourage firms from searching for less well-proved but ultimately more efficient approaches. Alterations in initial technological solutions become costly and meet with resistance. On the other hand, regulatory authorities must cope with the natural inclination of those who are regulated to overemphasize the costs entailed in rapid progress toward meeting the standards. No mechanical formula can guide decisions in this area. A constant awareness of the relation between pace and costs in decisions about individual cases should nevertheless help to reduce the overall costs of regulation.

The Design of the Regulations

The degree of detail with which regulations are specified is one of the most important elements affecting costs. Excessively detailed and inflexible specifications can increase costs by making it impossible for producers to adopt the least expensive route to meet regulatory goals. The study by the Council on Wage and Price Stability of the proposed guidelines to reduce effluents in the iron and steel industry, for example, found that the incremental costs the 1983 standard imposed for removing one unit of pollutant differed widely for each of a number of processes in a single plant. One process for making integrated seamless piping and tubing required annual incremental expenditures of \$18,000 to remove the last ton of total suspended solids; in hot forming processes with scarfing, the last ton to be removed had an incremental annual cost of only \$2,000. Applying the guidelines throughout the plant instead of process by process would allow pollution reductions to be concentrated on processes having lower incremental abatement costs. The same level of abatement could thus be reached at much lower costs.

A difficult problem of regulatory design concerns the extent to which old and new sources of pollution should be governed by different standards. Some differentials are appropriate, since the incremental costs of meeting a given standard for emissions tend to be lower when the necessary measures are being incorporated in new rather than old facilities. But regulations can inadvertently add to the economic costs of an industry by applying excessively large differentials to new processes compared with existing ones. If the differential is too large, firms deciding between continuing production in older facilities or converting to new ones may be biased against the new ones. Since investment in new and expanded facilities strongly affects the rate at which productivity grows, overly large differences in standards can slow productivity gains and raise costs.

Costs can also be appreciably affected by whether the regulatory agency adopts technical or performance standards. A technical standard specifies the equipment or process that producers must adopt, such as a particular engineering approach to reduce coke oven emissions or a specific treatment to remove industrial wastes from discharged water. A performance standard sets the expected outcome—in terms of such things as allowable emissions or quality of discharges—but leaves the choice of method up to the firm. Technical standards give producers little flexibility or incentive to search for less costly approaches; instead they must rely on the technological decisions of the regulatory agency. Performance standards provide greater freedom for firms to serve their own interest in increasing their profits by finding less costly approaches. The efficacy of performance standards, however, is sometimes limited by shortcomings in monitoring techniques. Such standards are only feasible if performance can be monitored with reasonable reliability and costs.

Regulations and Incentives

Running through the earlier discussion of regulatory design was the theme of flexibility. To the extent that firms can satisfy requirements by meeting environmental, health, and safety standards—the choice of techniques being left to them—the national costs of regulation will tend to be reduced, since each firm wishes to reduce its own costs.

An even broader application of this concept lies in the use of market incentives as a substitute for or supplement to particular regulatory structures. Regulations are commands to firms and individuals from government, enforced by civil or in some cases criminal penalties, to undertake particular actions: meeting a specific performance or technical standard related to environment, health, or safety by a particular date. An alternative approach would modify the monetary incentives of the market place to give each firm an interest in achieving specified standards. Various incentives can be considered: a fee system that imposed a charge on each pound of pollutant discharge or on the rate of injuries to workers in industrial plants, for example, or government auctioning of permits to emit a fixed quantity of pollutants within a locality or along a river.

Basically, market incentives impose prices upon unwanted outcomes. Firms find that creating such outcomes is costly and will seek ways to reduce them. In the process, decisions on how to correct unwanted side effects and the pace of corrections are decentralized.

Both the advantages and the problems associated with various incentiveoriented approaches have been extensively discussed elsewhere. For many reasons these approaches are now used only to a very limited extent. Our Nation has approached the problems of environment, health, and safety chiefly through reliance on detailed regulation. A body of law and precedent has thus been established, and administrative mechanisms created on the basis of this approach.

The advantages of incentive-oriented approaches seem in this light to lie in supplementing and gradually modifying the regulatory approach, rather than seeking a wholesale substitution of one system for the other. An example of a supplemental use of the incentive-oriented approach is the structure of penalties for violating the automobile fuel efficiency standards. These penalties follow the principle that the size of the fine should correspond to the costs imposed on society when a firm violates a standard. In this case, the fine on fuel-inefficient automobiles is related to the social costs of the extra gasoline that will be required to operate them.

New Directions in Social Regulation

The Administration is now exploring ways to achieve a better mix of economic and regulatory incentives in several different areas.

In occupational health and safety, the Administration has formed an interagency task force to search for better means of achieving goals of the Occupational Safety and Health Act. The task force has been asked to examine the use of economic incentives, particularly to promote worker safety. The interagency Resource Conservation Committee is currently studying the feasibility and desirability of mandatory deposits on beverage containers to reduce litter. It also is investigating whether fee systems could cut down the amount of solid waste.

The major use of economic incentives in our current regulatory framework is to enforce standards set by legislative or regulatory bodies. Incentives take the form of fines or penalties for violations of regulations. The most effective are those in which the size of the fine and the frequency of inspection are such that firms will comply before the inspector arrives.

The present penalty structures do not always have this result. Fines for violations of air and water quality standards have generally been small compared with the costs that the violations impose on society. Under these conditions the penalties can serve their purpose only with frequent enforcement. Yet the number of inspectors cannot keep pace with the growth in the regulations. With generally low penalties and infrequent monitoring, regulatory agencies have turned to such drastic remedies as threatening plant or mine shutdowns to enforce the rules.

Use of penalty fees based on levels of emissions could supplement the present arsenal of enforcement techniques and at the same time improve the efficiency of the regulatory system. For example, properly designed fees would make processes and commodities entailing severe pollution or serious hazards more expensive, discouraging their use relative to cleaner or safer processes. They would also encourage rather than stifle the discovery of more effective technologies for curbing socially undesirable side effects. Equally important, fees allow firms more flexibility to plan for the future in a way that threats of more drastic action do not.

The potential advantages of fees in inducing compliance with regulations suggest that they should receive greater attention by policy makers than they have done in the past. Administration efforts last year in this direction included a proposed noncompliance fee for industrial point sources. The current standards of the Federal Water Pollution Control Act are based on the installation of discharge-reducing equipment, but the incentives to maintain that equipment in working order are weak. A noncompliance fee, on the other hand, based on the amount by which actual discharges exceed allowed amounts, would give firms a strong inducement to operate the machinery properly. In a similar effort, the Administration initiated a study of economic incentives to control nitrogen oxides as provided for in the 1977 amendments to the Clean Air Act.

Review and Evaluation of the Regulatory Process

The economic effects of social regulations have rapidly grown more important during recent years, as their number and scope have increased. Regulatory decisions not only determine the speed at which the Nation advances toward important achievements in environmental protection, health, and safety; they also substantially affect costs of production, patterns of investment, flows of capital, and locational decisions. Indeed, as noted earlier, the effects of these decisions on the economy now merit as much notice as the effects of Federal budgetary decisions.

Improving Federal performance in the regulatory area to minimize the various costs of achieving our social goals requires improvements in the design and structure of regulations as well as in the way they are arrived at and evaluated. The first necessity is a careful analysis and review of the economic issues in the individual regulations, especially the cost-effectiveness of various alternatives. Second, a system must be developed through which the total effect of regulations on social objectives and on the economy can be brought together and assessed.

To improve the economic analysis and review of individual regulations, the Administration has instituted a program that will allow the President's advisers to review the consequences to the economy of major proposed regulations. The program requires the preparation of a Regulatory Analysis (RA) for each major regulatory proposal. A review group will examine a limited number of such analyses each year to ensure that full attention is given to all feasible alternatives before a regulation is issued. Peer review of the regulatory agencies' decisions should improve the effectiveness and economic efficiency of the final regulations.

It is not enough, however, to deal solely with individual regulations. Regulatory requirements from different agencies have sometimes conflicted with each other, and particular industries, firms, or communities are confronted with a series of regulatory requirements imposed by different Federal agencies. No one of these may pose serious problems, but taken together they may have serious economic consequences: increasing costs or requiring large capital outlays in a short time. There is now no mechanism to assess these combined effects and take them into account in regulatory decisions. On a larger scale, there is no institutional framework within the Federal Government—analogous to the budget for Federal spending programs—in which the total costs of regulations are brought together, to permit the evaluation of economic impacts, setting of priorities, and the like.

Several steps are planned or already being taken to develop a careful and appropriate means of reviewing the comprehensive effects of the regulatory process. Last year the heads of the four regulatory agencies concerned with toxic chemicals—the Environmental Protection Agency, the Occupational Safety and Health Administration, the Food and Drug Administration, and the Consumer Product Safety Commission—formed working groups that meet regularly to seek a consistent approach to regulation. Early this year the President will issue an Executive Order that directs Federal regulatory agencies twice a year to give public notice of the major planned regulations. Members of the public and senior government officials will thus be able to make orderly preparations for participating in the development and analysis of the proposed regulations.

Finally, the President has directed his advisers to explore means by which the overall effects of Federal regulations can be regularly reviewed and judged within the executive branch. Particular attention must be paid to availability of data and to the legal and institutional characteristics of regulatory programs. In view of the importance of regulatory programs, however, improving the Government's ability to understand both their economic and their social effects is a crucial need.

TAX REDUCTION AND REFORM

The Administration's tax proposals are designed to aid continued economic recovery and achieve important tax reforms. The tax relief that these proposals provide is tied closely to the tax reform elements of the package. In general the reform measures increase the amount of income subject to taxation by eliminating various forms of deductions and exclusions. The attendant tax increases are more than offset by lower tax rates. The net result for calendar year 1979 will be a reduction in Federal tax liabilities of about \$25 billion. Individual tax liabilities will decline by \$16.8 billion, the net effect of \$23.5 billion of gross tax reductions and \$6.7 billion of revenue-raising reform. Business tax reforms are expected to raise revenues by \$2.6 billion. These reforms are offset by cuts in the corporate income tax and liberalization of the investment tax credit worth \$8.3 billion, thus providing a net corporate tax cut of \$5.7 billion. Special tax reductions of over \$2.0 billion are proposed on excise taxes for telephone services and Federal unemployment insurance taxes in order to reduce prices for consumers and costs for businesses. Chapter 2 contains a discussion of the fiscal policy issues associated with these tax reductions.

MAJOR INDIVIDUAL INCOME TAX CHANGES

The most fundamental change proposed in the individual income tax is the replacement of the \$750 personal exemption and the general tax credit with a single per capita tax credit of \$240. This change is accompanied by an across-the-board reduction in tax rates. The new system of personal credits will replace the current confusing combination of a personal exemption and a credit of \$35 per dependent or 2 percent of the first \$9,000 of taxable income and thus simplify tax returns. Moreover, since the tax rate reduction is proportionately larger in low- and middle-income brackets, progressivity of the tax system will be increased. The system of personal credits also alters the way taxes change with family size. Unlike the current deductions for exemptions, under which families in high brackets gain more from an additional dependent than those in low brackets, the new credit will provide the same benefit for an additional dependent at all income levels.

Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis For a taxpayer with three dependents the personal credit will be worth \$960 regardless of the income of the family.

Additional personal tax reductions may be enacted as part of the Administration's energy plan. Under the Administration's crude oil equalization tax (COET) proposal of April 1977, the net proceeds are rebated on a per capita basis to protect consumers' real incomes and to avoid a new source of restraint on economic activity. If the final energy bill allows only for a rebate in 1978—as provided in the House version—the Administration intends to send to Congress a supplemental message recommending that the proposed individual tax reduction be increased by the amount of the net proceeds of the COET.

The tax reform package restructures the system of itemized deductions. Deductions for medical care and casualty losses would be allowed only for extraordinary expenses—combined medical payments and uninsured casualty losses in excess of 10 percent of adjusted gross income. Medical and casualty expenditures should properly be deductible only when they are unusually large and have a significant impact on the taxpayer's ability to pay. The deductions for medical care were originally intended to meet this standard, but the changing relation between medical costs and income has resulted in the deductibility of amounts that can no longer be considered extraordinary. Moreover, the current casualty loss provision is a form of costless coinsurance that particularly benefits taxpayers in high tax brackets. The new extraordinary expense provision will restore the law to its original intent and simplify tax computations for many middle-income taxpayers.

Itemized deductions for State and local sales, gasoline, and miscellaneous taxes are eliminated. Since these deductions are very closely related to income, a rate reduction may be substituted for them with very little equity loss. In any case, deductions for gasoline taxes are contrary to our energy goals.

Several reform proposals are directed toward reducing the use of tax shelters and eliminating other means by which high-income individuals avoid their fair share of tax. The minimum tax first enacted in 1969 will be strengthened. Under current law, many tax preferences are subject to the minimum tax of 15 percent, but preference income may be reduced by \$10,000 or one-half of ordinary tax liability, whichever is greater, before the minimum tax is applied. The proposed elimination of the optional offset of one-half of ordinary tax liability will increase the ability of the minimum tax to reach sheltered incomes of high-income taxpayers. In addition, the preferential tax rate of 25 percent on the first \$50,000 of capital gains will be abolished. Real estate depreciation practices will also be reformed by generally limiting depreciation deductions to straight line rather than accelerated methods. These and other related proposals will be directed toward broadening the provisions of the Tax Reform Act of 1976 that were intended to create a more equitable tax structure. The Administration's tax package also introduces for the first time a provision for the taxation of unemployment insurance benefits received by highincome families. Unemployment benefits would be taxable for single individuals with total income, including unemployment insurance benefits, above \$20,000 and for married couples with income above \$25,000. For each dollar of income above the threshold, 50 cents of the taxpayer's unemployment compensation would be taxable. The current system provides an unwarranted tax advantage for high-income households in which one family member receives unemployment compensation. Since unemployment compensation is intended to replace lost earnings, it should be taxed in the same way as earnings. At the same time, the high threshold for taxation assures that benefits will not be taxed when a family's income is low.

MAJOR BUSINESS TAX CHANGES

As discussed in Chapter 2, the most important proposal designed specifically to aid businesses is the 4-percentage point reduction in the corporation tax rate. As an additional incentive for investment, the package also contains proposals to increase the limit on investment tax credits from 50 percent to 90 percent of tax liability and to extend the credit to industrial and utility structures as well as equipment. It is further proposed that the current 10-percent level be made permanent instead of reverting to 7 percent in 1981. These changes in the investment tax credit will reduce the cost of new investment and make future tax treatment less uncertain, thereby creating incentives for additional capital formation. Because investment in industrial structures has grown much more slowly than investment in equipment since 1973, the move toward equal treatment of structures and equipment should be particularly beneficial. As a means of promoting investment in urban areas, rehabilitation expenses for qualified structures will be eligible for the tax credit.

Business tax reforms include the repeal of business deductions for a large class of expenses, covering such items as yachts, club dues, tickets to the theater and sporting events, and the difference between first-class and coach airfare. The deduction for business meals would be reduced from 100 percent to 50 percent. In many cases these expenditures are a form of tax exempt compensation that provides little or no business benefit. Elimination of these deductions will be a highly visible improvement in tax equity and will ultimately improve overall economic efficiency.

Financial institutions now have a favored tax status that is greatly in need of revision. Deductions that commercial banks, mutual savings banks, and savings and loan associations are permitted to make for deposits into bad debt reserves are considerably higher than the amount necessary to cover actual losses; credit unions are totally exempt from income taxes. The proposed reforms will reduce excessive deductions for bad debt reserves and will tax credit unions in the same manner as mutual savings banks and savings and loan associations.

The tax reforms of international business include phasing out preferential tax treatment for domestic international sales corporations (DISCs) over a 3-year period and also gradually eliminating the deferral of taxes on profits of domestically controlled foreign corporations. A DISC is a subsidiary set up to receive export-related income; current law allows a DISC to defer tax on half its income. This tax preference-enacted in the waning days of the fixed exchange rate system in 1971-was originally intended to encourage increased exports. But since most of the benefits accrue to corporations that would export in any case, the small export benefits generated by DISCs are extremely costly. A recent Treasury study estimated that the tax preference for DISCs contributed only \$1 billion to \$3 billion to U.S. exports in 1974 at a cost of \$1.2 billion. Such a special tax preference is particularly wasteful in a world with flexible exchange rates. Its overall effect on the trade balance will eventually be offset by induced exchange rate changes. The only lasting effect is an increase in production by industries that can take advantage of the DISC tax preference and a reduction in the output of all other industries.

Disallowing the deferral of taxes on income of U.S. controlled foreign corporations will equalize the tax treatment of domestic and overseas branches of U.S. businesses. It will allow the repeal of the complex legislation controlling tax havens and reduce the incentive to distort the allocation of profits between parent companies and their subsidiaries.

TAX TREATMENT OF MUNICIPAL BONDS

The Administration's tax package also proposes a fundamental change in the treatment of debt instruments issued by State and local governments. Under the taxable bond option State and local governments will be given the choice of issuing either taxable bonds that will receive an interest subsidy from the Federal Government or conventional tax exempt bonds. The subsidy rate on taxable interest, 35 percent in 1979 and 1980 and 40 percent thereafter, will lower the borrowing costs of State and local governments. Currently, issuers of tax exempt bonds pay 30 to 35 percent less interest than that on comparable taxable bonds. The taxable bond option will increase this difference to 40 percent in 1981. The larger difference between the yields of taxable and tax exempt bonds will reduce the value of this tax preference to wealthy holders of the tax exempt issues.

DISTRIBUTIONAL ASPECTS OF INCOME AND SOCIAL SECURITY TAX CHANGES

The tax reform package has been designed to improve the distribution of the individual income tax burden. The three major elements—the personal credit, the revised rate structure, and the reduction in itemized deductions—significantly increase the progressivity of the individual income tax structure. The effect of these three changes is illustrated in Table 34, which shows tax reductions for a family of four at several levels of adjusted gross income. Under current law, a four-person family claiming only the standard

TABLE 34.—Income tax liability for one-earner four-person families

[Dollars, except as noted]

Adjusted gross income	Present law tax ¹	Proposed tax ²	Change in tax	Change in tax as percent of before-tax income
5,000 10,000 15,000 20,000 25,000 30,000 40,000 	300 446 1, 330 2, 180 3, 150 4, 232 6, 848	300 134 1,072 1,910 2,830 3,910 6,630	0 -312 -258 -270 -320 -322 -218	0 -3.1 -1.7 -1.4 -1.3 -1.1 5

¹ Assumes the greater of the standard deduction or deductible expenses equal to 23 percent of income. ² Assumes the greater of the standard deduction or deductible expenses equal to 20 percent of income. Source: Department of the Treasury.

deduction begins paying income tax when its income rises above \$7,200 per year. With the proposed changes, the same family would pay no tax if its yearly income was \$9,256 or less. The greatest relative reductions occur in the low-income brackets. For a four-person family earning \$10,000, income tax liability falls 70 percent from \$446 to \$134 a year. A family of four earning \$15,000 annually would have its taxes cut from \$1,330 to \$1,072, or 19 percent.

Table 35 illustrates the combined effects that the tax reform package and the recently enacted changes in social security taxes will exert on aggregate tax liabilities by income class. The combined effect is progressive, as shown by the final column of the table. Taxpayers with expanded incomes below \$20,000, who earn approximately 56 percent of income, will receive 77 percent of the net tax reduction. This calculation ignores the progressivity of

TABLE 35.—Estimated tax changes resulting from tax reform proposals and social security amendments

Expanded income class (thousands of dollars)	ss taxes and social changes nds of security taxes ¹			Tax liability under proposed individual income tax and social security tax				
	Amount	Percent distribution	Total tax change	Tax reform	Social security ²	Amount	Percent distribution	
5 5-10 10-15 15-20 20-30 30-50 50-100 100-200 200 and over	3.0 15.0 27.5 32.3 42.1 25.3 17.4 8.3 6.5	1.7 8.5 15.5 18.2 23.7 14.3 9.8 4.7 3.7	-0.3 -1.5 -2.3 -2.3 -2.1 5 .0 .2	-0.4 -1.9 -2.7 -2.9 -3.2 -1.0 1 .2	0.1 .3 .5 1.1 .6 .2 .0	2.7 13.5 25.2 30.0 40.0 24.8 17.5 8.5 6.9	1.6 8.0 14.9 17.7 23.7 14.7 10.3 5.0 4.1	
Total	177.4	100. 0	8. 3	-11.7	3. 3	169. 1	100. 0	

[Billions of dollars, except as noted]

 1 Employees' share of social security taxes calculated assuming former wage ceiling for 1979 (\$18,900) and former tax rate (5.85 percent). Employers' share of social security tax not included. 2 Employees' share calculated assuming current wage ceiling for 1979 (\$22,900) and 1979 tax rate (6.13 percent). Employers' share of social security tax not included.

Note .---- Calculations based on 1976 levels of income and 1979 tax law.

Source: Department of the Treasury.

social security benefits and the income distribution effect of business tax changes. At least as important as this gain in progressivity, however, is the progress toward other goals that the Administration's tax program will help to achieve: tax reform, tax simplification, solvency for the social security system, stimulation of aggregate demand, incentives for investment, and maintenance of the economic expansion.

INCOME MAINTENANCE

The publicly financed income maintenance system in the United States is composed of two essential elements: social insurance programs that provide partial replacement of earnings lost because of retirement, disability, or temporary unemployment; and public assistance, or welfare, programs for those unable to earn their own living-that is, the aged, the blind, the permanently disabled, and dependent children whose parents are unable to support them. The social insurance programs-principally social security and unemployment compensation-are financed on a pay-as-you-go basis with earmarked payroll taxes. While these programs are not funded on strictly actuarial principles and certain of their benefits have the characteristics of public assistance, they have traditionally been viewed by the public as insurance systems. Apart from limitations on earnings, recipients are not subjected to an income test as a condition of payment, and benefits are generally considered to be an earned right and carry no stigma of public charity. Public assistance programs, on the other hand, are financed out of general revenues. The benefits are income-tested and hence generally available only to the low-income population.

Total expenditures for income maintenance have risen from about 4 percent of GNP in 1940 to nearly 10 percent in fiscal 1977. The social insurance programs account for about three-fourths of this total, and social security is by far the largest single program. The Federal Government finances nearly all the expenditures for social insurance and about two-thirds of those for public assistance.

Two important changes in the income maintenance system were enacted during 1977. The Food and Agriculture Act of 1977 made certain structural modifications to the food stamp program, and the Social Security Amendments of 1977 assured the continued financial viability of the social security system. In addition, the Administration proposed a major new initiative the Program for Better Jobs and Income—to consolidate and rationalize the several disparate components of the welfare system.

THE FEDERAL WELFARE SYSTEM

The principal public assistance programs created by the Social Security Act of 1935 were aid to families with dependent children, aid to the blind, and old age assistance. Since then, these programs have been expanded and new ones have been enacted. Following is a brief summary of the major Federal welfare programs in existence today (Table 36).

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				Fiscal year 1977		
Program	Date enacted	Form of aid	Source of funds	Benefit payments (billions of dollars)	Beneficiaries (millions)	
Social insurance:						
Old age and survivors insurance Medicare Unemployment insurance Disability insurance Workmen's compensation Veterans' compensation Railroad retirement Black lung	1935 1965 1935 1956 1908 1917 1937 1969	Cash In-kind Cash Cash Cash Cash Cash Cash	Federal-State	20.8 14.3 11.1 6.7 5.7 3.8	28.5 125.4 9.8 4.7 2.6 3.5 1.0 .5	
Public assistance:						
Medicaid Aid to families with dependent	1965	In-kind			21.6	
children	1937	In-kind In-kind Cash In-kind	Federal-State	6.2 5.0 3.5 3.1 3.0 1.4 1.3	11.2 4.3 17.1 28.0 3.4 7.1 2.0 .9 6.3	

TABLE 36.-Government income maintenance programs

¹ Eligible to receive benefits as of July 1, 1977.

² Varies by State.

Sources: Department of Agriculture, Department of Health, Education, and Welfare, Department of Housing and Urban Development, Department of Labor, Department of the Treasury, and Office of Management and Budget.

Aid to Families with Dependent Children

Aid to families with dependent children (AFDC) is a joint Federal-State program that provides cash assistance to families with children under 18 years of age needing support because of the death, prolonged absence, or incapacity of one or both parents. At the States' option, and provided certain conditions are met, assistance may also be made available to families where both parents are present but the father is unemployed (AFDC-UF). As of 1977, 26 States and the District of Columbia operated such programs; the total number of participating families averaged about 170,000 per month during fiscal 1977. AFDC payment standards for basic needs are determined separately by each State; in July 1977 the largest payments for a family of four ranged from \$720 a year in Mississippi to \$6,396 in Hawaii. Benefits are reduced by 67 cents for each dollar of monthly earnings over \$30 and after liberal deductions for work expenses. Certain recipients of AFDC are required to register with the work incentive (WIN) program and must accept suitable offers of employment or training. The Federal Government finances about 54 percent of total AFDC expenditures; the remainder is paid for by the States and a few localities.

Supplemental Security Income

Supplemental security income (SSI) is a Federal program that furnishes cash assistance to the aged, blind, and disabled. SSI was created in 1972 to replace the existing joint Federal-State programs providing assistance to these groups. Basic annual SSI payments are about \$2,100 for an individual and about \$3,200 for a couple; benefits are reduced by 50 cents for each dollar of earnings in excess of \$65 a month. The basic SSI benefit is uniform across the country and entirely paid for by the Federal Government; many States, however, continue to provide supplementary support to SSI recipients.

Food Stamps

The food stamp program provides the needy with a monthly allotment of coupons that can be used only to purchase food. This program is the only form of public assistance that is universally available to all low-income individuals, regardless of their family or employment status. The maximum allotment of food stamps for a family of four with no other income was \$2,088 in 1977, and this is reduced by 30 cents for each dollar of net income received. With certain exceptions, able-bodied adult recipients of food stamps are required to register for work and must accept suitable offers of employment. The Federal Government bears the entire cost of food stamp benefits and shares administrative expenses with the States.

Medicaid

Medicaid is a Federal-State program that provides free medical services to the low-income population. Individuals are categorically eligible for medicaid benefits if they also participate in AFDC or SSI—or, in States with programs for the "medically indigent," if they meet an income test. In States without programs for the medically indigent, once individuals become ineligible for public assistance, they also lose all medical benefits. Benefits vary significantly among the States, ranging from an estimated average in 1975 of \$334 per family in Mississippi to \$1,824 in New York. The Federal share of medicaid payments is always at least 50 percent but may be substantially higher in States with low per capita income.

Housing Assistance

A variety of Federal programs provide housing assistance to low-income families, including low-rent public housing, interest rate subsidies for home ownership, and rental subsidies. The newest and most active program was created in 1974 by an amendment to the Housing Act of 1937 (section 8). This program provides subsidies to families who occupy new or existing rental units, and whose incomes are less than 80 percent of the median income for the area at the time of application. Of the families that meet the income test, those that belong to specified categorical groups or meet certain other criteria actually participate in the program. About 8 percent of the families potentially eligible in 1976 on the basis of their incomes were estimated to have received section 8 assistance. In general, participating families pay 25 percent of their gross income in rent to eligible landlords, and the Federal Government makes up the difference between this amount and the local area "fair market rent," as established by the Department of Housing and Urban Development. Because of large geographic differentials in housing costs, section 8 subsidies vary significantly among the States and may reach several thousand dollars in some areas.

Earned Income Tax Credit

The earned income tax credit (EITC) was enacted by the Tax Reduction Act of 1975, principally to ease the burden of rising payroll taxes on low-income taxpayers. The EITC is available only to families with at least one dependent child or a disabled adult claimed as an exemption. The credit is equal to 10 percent of the first \$4,000 of earnings, and it is reduced by 10 percent of the difference between total income and \$4,000. Hence the EITC reaches a maximum of \$400, and it phases out completely for those with incomes above \$8,000. If the amount of the credit exceeds total tax liabilities, the difference is refunded to the eligible family, provided it files a tax return.

PROBLEMS WITH THE PRESENT WELFARE SYSTEM

Adequacy

Some critics of the welfare system contend that it provides inadequate support, while others believe it is too generous. The official poverty income level was defined by the U.S. Census Bureau to average \$5,815 for a nonfarm family of four in 1976. Though this concept suffers from certain difficulties in definition and measurement, it is the most widely accepted indicator of minimum income adequacy in the United States. According to estimates of the Congressional Budget Office, some 21.4 million families would have had incomes below the poverty level in fiscal 1976 if no income transfer programs had been in existence (Table 37). If cash benefits of both the social insurance and the public assistance programs are added to other sources of income, the number of families with incomes below the poverty level is reduced by about 50 percent to 10.7 million. If in-kind transfers (for example, food stamps, medicaid, housing assistance) are also counted as income and taxes are netted out, the decline in the number of poor families is even more striking. Under this comprehensive definition of income, 6.6 million families remained below the poverty line in 1976.

Inclusion of in-kind benefits in the measure of income is controversial and almost certainly overstates the value of such transfers to recipients. Recipients have been found to value cash more highly than in-kind benefits because it affords relatively greater freedom of choice in the disposition of their income. Medical benefits are a particularly controversial item because of the difficulties in allocating them to the low-income population and because their inclusion seems to imply that the more illness people suffer, the better off they are. Nevertheless, those who are entitled to receive free medical assistance are undoubtedly made better off as a result, and it would be inappropriate to ignore such benefits in a comprehensive measure of

	Families below the poverty level, based on income							
Kind of family	Before taxes	Before taxes	Before taxes a and in-kind		After taxes and after cash and in-kind transfers 4			
	and before transfers cash transfers 2		Excluding medical benefits	Including medical benefits	Excluding medical benefits	Including medical benefits		
All families:								
Number (millions) Percent of all families	21.4 27.0	10.7 13.5	9.0 11.3	6.4 8.1	9.2 11.5	6.6 8.3		
Single-person families:								
Number (millions)	10. 3	5.4	5.0	3. 5	5.1	3.7		
Percent of single-person families	47.8	25, 0	23. 2	16, 4	23.8	17.0		
Multiple-person families:								
Number (millions)	11.1	5, 3	4.0	2.9	4.0	2.9		
Percent of multiple-person families	19.2	9.2	6.9	5.0	7.0	5. 1		

TABLE 37.--Families below the poverty level before and after the effects of income maintenance programs and taxes, fiscal year 1976¹

¹ Data based on 1975 Current Population Survey, with adjustments to reflect underreporting of income and changes in ¹ Data based on 1976 other topulation survey, with adjustments to tenter to interreporting of mounts and entries the characteristics of the population between the survey year (calendar year 1974) and fiscal year 1976.
 ² Cash transfers include population between the survey year (calendar year 1974) and fiscal year 1976.
 ³ In-kind transfers include food stamps, child nutrition assistance, housing assistance, medicare, and medicaid.
 ⁴ Taxes include Federal personal income and employee payroll taxes and State income taxes.

Source: Congressional Budget Office.

income. Table 37 presents changes in the number of families below the poverty level when medical benefits are included in income and when they are not. Exclusion of medicaid and medicare increased the total number of families below the poverty line in 1976 by an estimated 2.6 million.

On balance, regardless of whether in-kind transfers are included in income, the present income maintenance system significantly improves the distribution of income that would otherwise exist. Nevertheless, further progress is still necessary before poverty in the United States is completely eradicated.

Equity

Even among those who consider benefit levels to be adequate, it is generally agreed that a serious fault of the present welfare system is the different treatment it accords to people with similar needs. Benefit levels vary widely among States and among different demographic and family groups. Geographic differentials arise primarily because benefits under the two major public assistance programs-AFDC and medicaid-are essentially controlled by the States. As a result, sharp disparities in benefit levels exist between the poorer, rural States and the wealthier, more urban areas. These differences are mitigated somewhat by the existence of the Federal food stamp program, which adds substantially to AFDC benefit levels in low-income States. Nevertheless, Table 38 shows that in 1976 a single-parent family of four with no earnings could obtain combined welfare benefits in New York City that were more than $2\frac{1}{2}$ times larger than those available to the same family in Mississippi. This disparity is much greater than can be explained by regional differentials in the cost-of-living. Such disparities in the distribution of benefits are inequitable in and of themselves and create incentives for migration from low-benefit to high-benefit States.

The variety of public assistance programs and the ways in which they categorize recipients also result in differential treatment of families and demographic groups. Since AFDC payments are restricted to families in which the father is absent (or, in 26 States, unemployed), the income of a two-parent family of four, with one parent working full time at the minimum wage, was

 TABLE 38.—Comparison of public assistance benefit levels with alternative income standards, family of four, 1976

Item	Level (dollars)
Median four-person family income	17, 315
Bureau of Labor Statistics low-income budget	10, 040
New York City family with AFDC, food stamps, medicaid	8, 302
Illinois family with AFDC, food stamps, medicaid	6, 412
Family earning full-time minimum wage, plus food stamps and earned income tax credit	5, 958
Official poverty line	<u>5, 815</u>
Texas family with AFDC, food stamps, medicaid	4, 174
Mississippi family with AFDC, food stamps, medicaid	2, 914
Two-parent family with food stamps only (all States)	1, 992

Note .- Data relate generally to mid-1976.

Sources: Department of Commerce, Department of Health, Education, and Welfare, and Department of Labor.

only slightly above the poverty level in 1976, even after supplementation through food stamps and the EITC. In contrast, in many States a mother with three children can receive welfare benefits that are well above the poverty line (Table 38). Moreover, if the two-parent family of four has no earnings and resides in a State without an AFDC–UF program, it is eligible only for food stamps, unless the father should desert the family. Needless to say, such disparities are highly inequitable, discourage work effort, and create incentives for disintegration of families.

The welfare system also discriminates against childless couples and single individuals who are not aged. Federal income support for these groups is limited to food stamps worth a maximum of \$624 per year per individual. Hence, the level of public assistance for many poor people is clearly inadequate. Finally, access to certain in-kind programs is restricted by categorical eligibility requirements (medicaid) or by limited supplies (section 8 housing allowances and day care), and inequities therefore arise. Since the cash value of in-kind assistance can amount to several thousand dollars, the resulting differences in benefits can be very large.

Work Incentives

The current welfare system discourages work in several ways. First, inadequate employment and training opportunities for the poor severely limit their chances to enter the work force and become fully productive members of society. Second, as already noted, in many States earnings from a minimum wage job plus food stamps amount to less than the welfare benefits available to a family of equal size where no one works. Third, both the medicaid and AFDC programs have severe "notches," creating situations where a small increase in earnings can cause recipients to lose their benefits entirely and thus to be worse off as a result of their extra work. Finally, since all the welfare programs are income tested, an extra dollar of earnings (after deductions for work-related expenses) yields less than a dollar of net income. This loss in benefits per dollar of additional earnings is called the benefit reduction rate, or marginal tax rate, and the higher this rate is, the smaller the reward for working. No single program has a benefit reduction rate on earned income that exceeds 70 percent. But for poor people who participate in more than one program, the benefit reduction rates of all the programs cumulate to yield a much higher total rate. In addition, workers must pay social security taxes on the first dollar of earnings, and eventually Federal (and perhaps State) income taxes as well. The net result in some cases can be marginal tax rates that exceed 100 percent, so that disincentives to work are strong.

Administrative Inefficiency and Complexity

The welfare system is both inefficient and exceedingly complex. Administrative expenses account for large portions of the total budgets for the various programs, and error rates are high. Because the system is slow to respond to the needs of recipients, they become frustrated and their rates of participation may decline as a result. In addition, administration of the welfare system is split among several units of government, and the programs operate with a variety of different benefit structures, accounting periods, filing unit definitions, and work requirements.

Fiscal Burdens

The Federal Government currently pays about two-thirds of total welfare costs, the remainder being spread over State and local governments, principally in the AFDC and medicaid programs. However, a small number of States and localities (mainly in the North and Northeast) bear a heavy share of this burden, a development that has contributed to their precarious budgetary situations. The variation in benefit levels that exists has also encouraged migration of poor people to areas where the payments are highest. This in turn has led to a further deterioration of the financial condition of these governmental units. Of course, these differences in welfare expenditures implicitly reflect the particular preferences of States and localities regarding the level of income support they wish to provide. Nevertheless, if a system of income maintenance for the poor is viewed as a truly national responsibility, the burden of supporting it should be equitably distributed among the States on the basis of ability to pay.

Policy Control and Responsiveness

As noted above, control over the income maintenance system is fragmented and many low-income persons do not receive satisfactory coverage. As a result, the Nation does not have a tool to deal with the effects of other national policies on the distribution of income. For example, the proposed tax on crude oil contained in the National Energy Plan would, by raising prices of energy, have a significant impact on real incomes of the poor. Yet there exists no simple and efficient mechanism to neutralize these adverse effects. While little thought has been given to this shortcoming in our income security system, it may be the one that causes the most hardship to the poor.

CHANGES IN THE FOOD STAMP PROGRAM

The Administration proposed significant changes in the food stamp program as a first step toward reform and rationalization of the welfare system. The Congress adopted most of the proposals and extended the program for 4 years in the Food and Agriculture Act of 1977. The changes included in the 1977 act are generally designed to achieve a more efficient operation of the food stamp program, to permit more individuals who are genuinely poor to participate in the program, and to reduce the availability of food stamps to those with higher incomes. Eligibility for food stamps is defined more clearly in the 1977 act than previously, and participation is limited to those households whose income net of certain deductions is below the poverty level. In addition, the system of deductions used to arrive at net income is simplified. The most significant reform in the 1977 legislation was the elimination of the purchase requirement. This feature of the old program required recipients to pay cash for their food stamp allotments. The net benefit, or "bonus value," was the difference between the face value of the stamps and their purchase price. Under the new law, the basic allotment is simply equivalent to the bonus value. Because recipients no longer have to buy their food stamps, for a given total income, including food stamps, the amount of their disposable cash income will increase and the amount of coupons exchangeable only for food will decline.

THE PROGRAM FOR BETTER JOBS AND INCOME

The Administration's Program for Better Jobs and Income (PBJI) is a job-oriented proposal designed to replace the existing welfare system

with a comprehensive approach to income security for the low-income population. The new program would provide jobs and employment services for those who are able to work, income supplementation and strong work incentives for those who work but whose incomes are inadequate to support their families, and cash assistance for those who cannot work because of age, disability, or family circumstance. If enacted, the program would become fully operational in fiscal 1982. The major features of PBJI are described below.

Employment Opportunities

A central element of the proposed PBJI is to be an expanded effort to find jobs in the private and regular public sectors for low-income persons who are able to work. Prime sponsors under the Comprehensive Employment and Training Act (CETA), State employment service agencies, and community based organizations are expected to play important roles in assuring that a full array of employment and training services is made available to these individuals. When principal wage earners in low-income families with children cannot find regular employment, PBJI would provide up to 1.4 million full- and part-time special public service jobs and training slots. The new public service job program is carefully structured to avoid disruptive effects on the private economy. Applicants would be required to engage in an intensive 5-week search for regular employment before becoming eligible for a special public service job. The jobs themselves would be temporary and participants must continue to search for a regular job. To minimize adverse effects on private labor markets and ensure that jobs in the private sector are more attractive than the special public service jobs, the basic wage rate would be kept at or slightly above the minimum wage. Moreover, holders of these jobs would not be eligible for the earned income tax credit. Finally, it is intended that the job and training opportunities in this new program would provide useful skills and work experience to the participants, thus making them better able to obtain employment in the regular economy. Additional discussion of the public service employment component of PBJI is contained in Chapter 4 of this Report.

Cash Assistance and Work Incentives

SSI, food stamps, and the Federal share of AFDC would be consolidated into a single Federal system of cash assistance. The Federal benefit structure would be divided into two tiers: an upper tier for those not expected to work (i.e., the aged, blind, disabled, and single-parent families with children under 7 years), and a lower tier for those who are expected to work (two-parent families, single-parent families with older children, single individuals, and childless couples). Families in the second category could move to the upper tier if neither parent could find work after 8 weeks of search. If a job were found but refused, the family would remain on the lower tier. Adults in single-parent families where the youngest child is between 7 and 13 years of age would be expected to work during school hours. They would initially receive the upper-tier benefit, but if they refused an appropriate part-time job they would receive the lower-tier benefit.

On the upper tier, the basic Federal benefit in 1978 dollars would be \$2,500 for an aged, blind, or disabled individual, and \$4,200 for both a single-parent family of four and a two-parent family of four, if after a period of intensive job search the family head was unable to find a regular job. The level of benefits for a family of four is approximately 65 percent of the projected poverty threshold in 1978; it exceeds the value of food stamps plus the Federal share of AFDC in all but one State. The four-person family on the upper tier would cease to be eligible for benefits when earned income reached \$8,400. On the lower tier, the basic benefit would be \$1,100 for a single individual and \$2,300 for a two-parent family of four. Single individuals would become ineligible for cash assistance at incomes above \$2,200, while working families of four would become ineligible at incomes above \$8,400.

The two-tier benefit structure is designed to encourage work and ensure that the focus of aid to needy families is on employment, not welfare dependency. The minimum income guarantee on the lower tier provides strong incentives to work, while successful implementation of the employment aspects of the program would assure that the incomes of families in these categories need not remain at such low levels. Adults in families in the expected-to-work category would be given lower cash benefits if they do not work or if they refuse an appropriate job offer. Once a job is taken, the first \$3,800 of earnings would be disregarded in calculating their Federal benefit; that is, recipients would face a zero marginal tax rate on those earnings. Thereafter benefits are reduced by no more than 50 cents for each additional dollar earned above \$3,800, or by no more than 52 cents for each additional dollar in States that supplement the basic benefit level. For those who are not expected to work, there would be no earnings disregard, and benefit reduction rates could range from 50 percent to 70 percent, depending on the benefit reduction rates applied by States that supplement the Federal benefit. Single-parent families with young children would be permitted a special deduction to pay for child care.

In addition to the incentives built into the cash benefit structure, the earned income tax credit would be expanded to increase the rewards for working and to achieve better integration of the welfare system and the personal income tax structure. For a family of four, the existing 10-percent credit on earnings up to \$4,000 would be supplemented by an additional 5-percent credit on earned income between \$4,000 and \$9,100, approximately the point at which such a family would become liable for Federal income taxes as a result of the proposed tax reform measures

discussed in this chapter. The credit would then decline by 10 percent of the excess of actual income over \$9,100. Hence the new EITC would reach a maximum of about \$650 and phase out entirely at an income of about \$15,650 for a family of four. As already noted, those working in the special public service jobs would not be eligible for the EITC. This exclusion creates an incentive for holders of the special public service jobs to search for work in the private or regular public sector.

Existing eligibility criteria for medicaid are to be preserved temporarily by PBJI. While the medicaid notch would therefore remain as a disincentive to work, the forthcoming national health insurance proposals are expected to address this issue.

To summarize, the Program for Better Jobs and Income is designed to provide employment opportunities and strong incentives for those who can work, and adequate cash assistance to those who cannot find a job or are otherwise unable to work. Consolidation of the three public assistance programs into a uniform Federal system would improve administrative efficiency and create a structure where error and fraud are less likely. Federal income support would be extended for the first time to all needy two-parent families, single individuals, and childless couples, thereby eliminating a major inequity in the current system and reducing the incentives for families to separate. By instituting a Federal floor under the incomes of the poor, benefit disparities among the States would be substantially diminished. Finally, the provision of cash supplements would be fully integrated with employment and training programs.

State Supplementation and Fiscal Relief

While an important long-run objective of welfare reform is to create a uniform system of benefits, it cannot be achieved overnight. Raising all benefits to the levels in the high-benefit States would be too costly, and lowering all benefits to the levels in the low-benefit States would cause severe hardship. Hence there is a strong case for allowing States to supplement the basic Federal benefit. To provide fiscal relief for States and localities, while encouraging a more uniform national system, the Federal Government would share in the cost of supplementation. The new program provides that, under certain conditions, the Federal Government would pay 75 percent of the cost of supplementing the benefits of a family of four between \$4,200 and \$4,700, and 25 percent of the cost of supplementing from \$4,700 to the poverty line. The conditions are that the supplements must employ the new Federal eligibility standards and that the benefit reduction rate after supplementation must not exceed 52 percent for those expected to work, and 70 percent for those not expected to work. Federal sharing in the cost of such matching supplements would help States maintain existing benefits, while encouraging them to move toward a structure that embodies the goals of the new Federal program.

It is estimated that State and local governments would realize savings of about \$2 billion on their 1978 welfare expenditures if the Program for Better Jobs and Income were fully operative this year. The States that have traditionally had the highest welfare expenditures—California, Illinois, Massachusetts, Michigan, New York, and Pennsylvania—would realize savings of more than 20 percent on their outlays.

Distributional Implications

The three main components of PBJI-employment opportunities, cash assistance, and expansion of the EITC-would have different effects on the distribution of income. Because disparities in benefit levels among States and demographic groups would be reduced, over two-thirds of the cash assistance benefits would go to families with incomes below \$5,000. The public service jobs and training programs would provide a higher fraction of benefits to families farther up the income distribution because these jobs are available to primary earners in families with children. Nonetheless about half of the wages paid to holders of special public service jobs would go to families with income under \$5,000. The expansion of the earned income tax credit would provide benefits to families well up in the income distribution. In fact the maximum benefit for a family of four is reached when annual earnings are \$9,100. The purpose of this component, however, is not to provide basic income support but to alleviate the burden of payroll taxes and generally improve work incentives for low- and middle-income families. It is estimated that all three components combined would reduce the number of families with incomes below the poverty line by about 1.6 million.

THE SOCIAL SECURITY SYSTEM

Four separate programs together comprise the social security system: old age and survivors insurance (OASI), disability insurance (DI), hospital insurance (HI), and supplementary medical insurance (SMI). OASI and DI are cash benefit programs that replace earnings lost because of retirement, disability, or death; HI and SMI, which are also known as medicare, provide payments for medical services to the elderly and to disabled workers. OASI, DI, and HI are financed by specific payroll taxes levied on employees, their employers, and the self-employed. For 1978 the combined social security tax rate (OASDHI rate) is 12.1 percent and is applied against earnings of covered workers up to a maximum of \$17,700. About 90 percent of all wage and salary earners are currently covered by social security and therefore subject to mandatory payroll taxes. The major exceptions are Federal Government employees, about 25 percent of State and local government employees, and some employees of nonprofit institutions. Approximately 106 million workers contributed to the system in 1977 and total OASDHI tax revenues were \$93 billion. Participation in the SMI program is voluntary; benefits are financed partly through premiums paid by current beneficiaries and partly out of general revenues.

Benefits under the OASDI programs are calculated according to a procedure that takes into account the average lifetime earnings, age, and other characteristics of recipients. The benefit formula is progressive and produces proportionately smaller benefits as earnings rise. That is, while highwage workers receive larger dollar benefits than low-wage workers, benefits as a percentage of preretirement earnings decline as a worker's average wage increases. For example, the "replacement rate" (first-year benefit as a percentage of earnings in the year before retirement) of a 65-year-old male retiree who has a dependent spouse, and always earned one-half the median wage for males, was 90 percent in 1977; the replacement rate for a similar retiree who always earned the maximum wage subject to social security taxes was only 50 percent. Benefits under the two medical insurance programs are not tied to earnings histories but provide reimbursement for medical expenses incurred. Table 39 shows the distribution of social security benefits and recipients among the four programs.

Program	Benefit payments (billions of dollars) ¹	Number of beneficiaries (millions) ²
Total social security	103. 2	(3)
Old age and survivors insurance (OASI) Retired workers Dependents and survivors Other Disability insurance (DI) Medicare (HI and SMI)	46.9 24.2 .2 11.1	28.5 17.6 11.1 .2 4.7 25.4

TABLE 39.-Social security benefit payments and beneficiaries, 1977

¹ Benefits paid in fiscal year 1977. ² OASI and DI beneficiaries as of September 30, 1977. For medicare, entry represents number eligible to receive benefits as of July 1, 1977. ³ Not applicable.

Source: Department of Health, Education, and Welfare,

The Social Security Financing Problem

In recent years, the OASDI trust funds have been faced with serious short- and long-run financial problems. Assets in these two trust funds as a percentage of annual outlays have fallen steadily from slightly over 100 percent in 1970 to 41 percent at the end of 1977. Moreover, since 1975 current expenditures have exceeded receipts, so that the level of assets has actually declined. It was estimated that without remedial action, DI trust fund assets would be exhausted by 1979 and assets in the OASI fund depleted by 1982 or 1983. Since benefits can only be paid out of the trust funds, depletion would have required new legislation to prevent OASDI recipients from receiving less than the full amount of benefits to which they were entitled.

Several factors explain the recent decline in OASDI trust fund balances. First, since 1972 the benefits for people already retired have been automatically indexed to changes in consumer prices and as a result have increased sharply and regularly because of the recent high rates of inflation. Second, because of high unemployment and the slow growth in real wages since 1973, payroll tax receipts have not grown as rapidly as benefit payments. Third, since the late 1960s the number of beneficiaries in the disability insurance program has consistently been higher than expected. Finally, an unintended consequence of the provision in the Social Security Amendments of 1972 that adjusts benefit schedules automatically for inflation has been to cause the initial benefits of newly retiring workers to rise somewhat more rapidly than wages. As a result, initial benefit levels grew by about 6 percent more than preretirement wages between 1973 and 1977.

Over the longer term the cash benefit programs were even more seriously underfinanced. Under the intermediate set of assumptions in the 1977 report of the Social Security Trustees, average OASDI expenditures over the next 75 years were estimated to exceed projected payroll taxes by an amount equivalent to about 8 percent of taxable earnings. This outcome would have required a tripling of current OASDI tax rates by the year 2050 to finance benefits provided under the old law.

Roughly half of the long-range deficit in the OASDI programs was due to the interaction between high rates of inflation and a technical flaw in the benefit formula under which future retirees received a double adjustment for cost-of-living increases. Benefits were first increased as higher prices produced higher lifetime earnings—and therefore higher benefits at retirement—and again as the formula used to compute benefits was also adjusted upward to account for inflation. As noted above, this double-indexing procedure was made automatic in 1972; it not only raised the level of new benefits faster than the growth in average wages, but caused the relation between future benefits and preretirement earnings to vary erratically, depending on the relative movements of wages and prices. Under plausible assumptions about projected rates of wage and price inflation, doubleindexing would eventually have caused benefits to exceed preretirement wages for some workers.

The other half of the 75-year deficit was due to a combination of the future consequences of the short-run deficit, continued increases in the incidence of disability, and the sharp projected expansion of the retired population relative to the working population after the year 2010. Today there are about 19 persons aged 65 or over for every 100 persons aged 20 through 64. In 2030, under the trustees' assumptions, there will be about 34 persons aged 65 and over for every 100 persons aged 20 through 64. This dramatic change is a result of the combined effects of the decline in the fertility rate (the average number of births a woman can expect to have

over her lifetime) and the fact that those born during the post-World War II baby boom will begin retiring after 2010.

Social Security Amendments of 1977

The Social Security Amendments of 1977 were designed primarily to prevent the assets of OASDI trust funds from being depleted in the next few years and to eliminate most of the long-range deficit. Since the Congress has always believed that the social security system should be fully financed by earmarked payroll taxes, substantial increases in OASDHI taxes were necessary. The major features of the new legislation are outlined below.

While little could be done to offset the effects of the shifting age distribution of the population, the provision in the old law that double-indexed benefits for future retirees was corrected. Under the new law, the procedures that automatically adjust benefits of current and future retirees for inflation are separated, or "decoupled." This change has the effect of eliminating the extreme sensitivity of projected benefit levels to assumptions about inflation and real wage growth. The new system would stabilize initial benefit levels for a 65-year-old retiree who always earned the average wage at about 42 percent of earnings in the year prior to retirement, regardless of the behavior of wages and prices. As a result, the long-run deficit is cut by about one-half.

				1				
	Prior law				Social Security Amendments of 1977			9//
Calendar year	Total	OASI	DI	ні	Total	OASI	DI	н
	Employer and employee, each							
977 978-80 979-80 981 982-84 985-89 986-89 1990-2010 2011 and after	5.85 6.05 6.30 6.30 6.30 6.30 6.45 6.45 7.45	4, 375 4, 350 4, 350 4, 300 4, 300 4, 300 4, 250 4, 250 5, 100	0.575 .600 .600 .650 .650 .650 .700 .700 .850	0. 900 1. 100 1. 350 1. 350 1. 350 1. 350 1. 500 1. 500 1. 500	5.85 6.05 6.13 6.65 6.70 7.05 7.15 7.65 7.65	4. 375 4. 275 4. 330 4. 525 4. 575 4. 750 4. 750 5. 100 5. 100	0.575 .775 .825 .825 .950 .950 1.100 1.100	0.900 1.000 1.050 1.300 1.300 1.350 1.450 1.450
			:	Self-employe	ed persons			
1977	7.90 8.10 8.35 8.35 8.35 8.35 8.50 8.50 8.50	$\begin{array}{c} 6.\ 185\\ 6.\ 150\\ 6.\ 150\\ 6.\ 080\\ 6.\ 080\\ 6.\ 080\\ 6.\ 010\\ 6.\ 010\\ 6.\ 000\\ \end{array}$	0.815 .850 .920 .920 .920 .920 .990 .990 .990 1.000	0. 900 1. 100 1. 350 1. 350 1. 350 1. 350 1. 500 1. 500 1. 500	7.90 8.10 9.30 9.35 9.90 10.00 10.75 10.75	6. 185 6. 010 6. 010 6. 7625 6. 8125 7. 125 7. 125 7. 125 7. 650 7. 650	0.815 1.090 1.040 1.2375 1.2375 1.425 1.425 1.425 1.650 1.650	0, 900 1, 000 1, 050 1, 300 1, 300 1, 350 1, 450 1, 450 1, 450

TABLE 40.--Tax rates for social security trust funds, old and new laws, calendar years 1977-2011

[Percent]

Source: Department of Health, Education, and Welfare.

To prevent the assets of the DI trust fund from being exhausted, the new law provides for a reallocation of current-law tax rates among the trust funds in 1978. To cover the deficits caused by demographic changes and the recent recession and inflation, social security tax rates on employers and employees are to be raised above those in the old law, beginning in 1979 (Table 40). In addition, beginning in 1981 the OASDI rate for the selfemployed is to be adjusted to restore its original relationship of one and one-half times the OASDI rate for employees. Finally, the taxable wage base for employers, employees, and the self-employed is to be increased above the levels provided in the old law, beginning in 1979 (Table 41). The new legislation maintains the parity principle whereby employers and employees pay taxes on the same amount of earnings.

In 1981, under the new law, a worker with earnings at the taxable maximum of \$29,700 would pay social security taxes of \$1,975, while a worker earning the projected average wage in covered employment (about \$12,000) would pay \$797. Altogether the higher tax rates and wage bases are expected to yield \$89 billion in new social security tax revenues in the 5 years between 1979 and 1983. As noted in Chapter 2, these increases are an important component of the fiscal restraint on the economy that may have to be offset by tax reductions if we are to achieve our long-term economic goals.

	Contribution a	Contribution and benefit base 1		
Calendar year	Prior law	Social Security Amendments of 1977		
1977	\$16, 500 17, 700 18, 900 20, 400 21, 900 23, 700 25, 800	\$16, 500 17, 700 22, 900 25, 900 29, 700 32, 100 34, 800		

 TABLE 41.—Social security contribution and benefit base, old and new laws,

 calendar years 1977-83

¹ After 1978 under the old law and after 1981 under the new law, based on path of wages projected in the Budget of the United States Government, Fiscal Year 1979.

Source: Department of Health, Education, and Welfare.

Several changes were also made in the OASDI benefit structure: an increase in the amount of earnings allowed to retirees aged 65 and over before their benefits are reduced; an increase in the bonus for postponing retirement beyond age 65; and a freezing of the regular minimum benefit for future beneficiaries at its January 1979 level. The bill also provides for a one-time \$187-million payment to State and local governments in fiscal 1978 to help relieve the cost of their public assistance programs.

Some longer-term issues were not addressed by the 1977 legislationfor example, the differential treatment of one- and two-earner households in the benefit structure and the interaction between the cash benefit programs and private retirement systems. But the Social Security Amendments of 1977 nonetheless did remove the threat that the cash benefit programs would actually run out of funds; they corrected an obvious flaw in the benefit computation formula; and they reduced the average deficit over the next 75 years from 8 percent to an estimated $1\frac{1}{2}$ percent of payroll.

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Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis Appendix A

REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE

COUNCIL OF ECONOMIC ADVISERS DURING 1977

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LETTER OF TRANSMITTAL

COUNCIL OF ECONOMIC ADVISERS, Washington, D.C., December 30, 1977.

MR. PRESIDENT:

The Council of Economic Advisers submits this report on its activities during the calendar year 1977 in accordance with the requirements of the Congress, as set forth in section 4(d) of the Employment Act of 1946.

Cordially,

CHARLES L. SCHULTZE, Chairman. Lyle E. GRAMLEY. WILLIAM D. NORDHAUS.

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Report to the President on the Activities of the Council of Economic Advisers during 1977

The membership of the Council of Economic Advisers changed entirely in January 1977 when the Carter Administration took office. Charles L. Schultze became Chairman of the Council on January 22, 1977, replacing Alan Greenspan, who returned to Townsend-Greenspan, New York. Mr. Schultze had been a senior fellow at the Brookings Institution in Washington, D.C.

Lyle E. Gramley and William D. Nordhaus became Members on March 18, 1977, succeeding Burton G. Malkiel, who returned to Princetom University. Mr. Gramley came to the Council from the Board of Governors of the Federal Reserve System. Mr. Nordhaus is on leave of absence from Yale University, where he is Professor of Economics and a member of the Cowles Foundation for Research in Economics.

Name	Position	Oath of office date	Separation date
Edwin G. Nourse		August 9, 1946	November 1, 1949.
Leon H. Keyserling	Acting Chairman	November 2, 1949	
John D. Clark	Chairman	May 10, 1950 August 9, 1946	January 20, 1953.
	Vice Chairman	May 10, 1950	February 11, 1953.
Roy Blough		June 29, 1950	August 20. 1952.
Robert C. Turner	Member		January 20, 1953.
Arthur F. Burns	Chairman	March 19, 1953	December 1, 1956.
Neil H. Jacoby	Member		February 9, 1955.
Walter W. Stewart	Member	December 2, 1953	April 29, 1955.
Raymond J. Saulnier	Member	April 4, 1955	
	Chairman	December 3, 1956	January 20, 1961.
Joseph S. Davis	Member		October 31, 1958.
Paul W. McCracken	Member	December 3, 1956	January 31, 1959.
Karl Brandt	Member	November 1, 1958	January 20, 1961.
Henry C. Wallich	Member	May 7, 1959	January 20, 1961.
Walter W. Heller		January 29, 1961	November 15, 1964.
James Tobin	Member	January 29, 1961	July 31, 1962.
Kermit Gordon	Member	January 29, 1961	December 27, 1962.
Gardner Ackley		August 3, 1962	
	Chairman		February 15, 1968.
John P. Lewis	Member	May 17, 1963	August 31, 1964.
Otto Eckstein	Member	September 2, 1964	February 1, 1966.
Arthur M. Okun		November 16, 1964	
	Chairman	February 15, 1968	January 20, 1969.
James S. Duesenberry		Februarý 2, 1966	June 30, 1968.
Merton J. Peck			January 20, 1969.
Warren L. Smith	Member	July 1, 1968	January 20, 1969.
Paul W. McCracken			December 31, 1971.
Hendrik S. Houthakker	Member		July 15, 1971.
Herbert Stein	Member		
F 0-1-	Chairman	January 1, 1972	August 31, 1974.
Ezra Solomon		September 9, 1971	March 26, 1973.
Marina v.N. Whitman		March 13, 1972	
Gary L. Seevers		July 23, 1973	April 15, 1975.
William J. Feliner	Member	October 31, 1973	February 25, 1975.
Alan Greenspan	Chairman		January 20, 1977.
Paul W. MacAvoy	Member	June 13, 1975	November 15, 1976.
Burton G. Malkiel	Member	July 22, 1975	January 20, 1977.

Past Council Members and their dates of service are listed below

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RESPONSIBILITIES OF THE COUNCIL

The principal directive of the Employment Act is that the Federal Government "use all practicable means consistent with its needs and obligations . . . for the purpose of creating and maintaining . . . conditions . . . to promote maximum employment, production, and purchasing power."

To this end, the Council of Economic Advisers analyzes economic problems and interprets trends and changes in the economy in order to help the President develop and evaluate national economic policies. The Council prepares regular reports on current economic conditions in the United States and abroad and prepares forecasts of future economic developments. The Council also performs an advisory role within the Executive Office of the President and participates in interagency groups that analyze economic problems and develop programs to address them.

During 1977 the Council and its staff contributed to the study of a wide variety of economic issues. An important part of the Council's work during the year was to analyze current developments in business activity and evaluate alternative macroeconomic policies in keeping with the President's efforts continually to assess his decisions on taxation and expenditures within the context of long-run budgetary and economic requirements. The Council participated in the development of such Administration initiatives as welfare reform, tax reform, social security financing proposals, the National Energy Plan, agricultural legislation, minimum wage legislation, and urban policy proposals, and played a major role in the development of the Administration's international economic policies.

The Council, in cooperation with other Government agencies, became actively involved in many different regulatory reform issues. The Regulatory Analysis Program authorized by the President in 1977 called upon the Council to establish and chair an interagency group to review analyses prepared by regulatory agencies of the economic consequences of major regulatory proposals. This review is intended to assure that the costs of regulatory proposals have been considered, including the costs of all alternative methods of regulation, so that the least-cost approach to regulation may be found and applied.

Early each year the President submits the *Economic Report of the President* to the Congress as required by the Employment Act. The Council assumes major responsibility for the preparation of the *Report*, which together with the Annual Report of the Council of Economic Advisers reviews the progress of the economy during the preceding year and outlines the Administration's policies and programs.

The Chairman of the Council of Economic Advisers is a member of the Economic Policy Group (EPG) and of its Executive Committee and Steering Committee. The EPG was formed in January 1977 to direct the formulation and coordination of economic policy. The Steering Committee meets weekly to address current issues of economic policy.

The Chairman of the Council also heads the U.S. delegation to the Economic Policy Committee of the Organization for Economic Cooperation and Development (OECD). Council Members and staff economists meet with various working parties of the committee and attend other meetings of the OECD during the year.

The review and analysis of the overall performance of the economy is conducted and coordinated through interagency working groups comprising representatives from the Council, the Treasury, the Office of Management and Budget, and the Departments of Commerce and Labor. At regular intervals representatives of these agencies, chaired by the Council, meet to evaluate recent economic performance and formulate economic forecasts. The analysis and projections developed at these sessions are finally reviewed and cleared through the Chairman of the Council for presentation to and consideration by the Economic Policy Group and the President.

The Joint Economic Committee of the Congress (JEC), like the Council, was created by the Employment Act of 1946 to make a continuing study of matters relating to the economy and to submit its own report and recommendations to the Congress. During 1977 the Chairman and Members of the Council appeared twice before the JEC and once before its Subcommittee on International Economics. The Chairman and Council Members also presented testimony before the House Budget Committee; the House Appropriations Committee; the House Ways and Means Committee and its Subcommittee on Trade; the House Committee on Banking, Finance, and Urban Affairs and its Subcommittee on Economic Stabilization; the House Ad Hoc Committee on Energy; the House Committee on Public Works and Transportation and its Subcommittee on Investigations and Review; the House Appropriations Committee's Subcommittee on Treasury, Postal Services, and General Governmental Affairs; the House Committee on Interstate and Foreign Commerce and its Subcommittee on Energy and Power: the Senate Budget Committee; the Senate Finance Committee; the Senate Appropriations Committee; the Senate Commerce Committee and its Subcommittee on Aviation; and the Senate Committee on Banking, Housing, and Urban Affairs.

PUBLIC INFORMATION

The annual Economic Report of the President and the Annual Report of the Council are the principal publications through which the public is informed of the Council's work and views. These publications are also an important vehicle for presenting and explaining the Administration's overall economic policy, both domestic and international. Distribution of *Reports* in recent years has averaged about 50,000 copies. The Council also assumes primary responsibility for preparing Economic Indicators, a monthly publication prepared by the Council's Statistical Office and issued by the Joint Economic Committee. Economic Indicators has a monthly distribution of approximately 10,000 copies. Information is also provided to members of the public through speeches and other public appearances by the Chairman, the Members, and the senior staff economists. Each year the Council answers numerous requests from the press and provides information in response to inquiries from individual citizens. In addition, the Council and staff receive frequent visits from business, academic, and other groups and individuals.

ORGANIZATION AND STAFF OF THE COUNCIL

OFFICE OF THE CHAIRMAN

The Chairman is responsible for communicating the Council's views to the President. This duty is performed through direct consultation with the President, and through written reports on economic developments and on particular programs and proposals. The Chairman represents the Council at meetings of the Cabinet and in many other formal and informal contacts with Government officials.

COUNCIL MEMBERS

The two Council Members are responsible for all subject matter covered by the Council, including direct supervision of the work of the professional staff. Members represent the Council at a wide variety of meetings and assume major responsibility for the Council's involvement in many activities.

In practice, the small size of the Council's staff permits the Chairman and Council Members to work as a team in most circumstances. There is, however, an informal division of subject matter between them. Mr. Gramley assumed primary responsibility in 1977 for macroeconomic analysis, including the preparation of economic forecasts. Mr. Nordhaus is primarily responsible for international economic analysis and for microeconomic analysis, including such policy areas as energy, agriculture, labor markets, social welfare, and regulated industries.

PROFESSIONAL STAFF

At the end of 1977 the professional staff consisted of the Special Assistant to the Chairman, 10 senior staff economists, 2 staff economists, 1 statistician, and 6 junior staff economists. Members of the professional staff were responsible for economic analysis and policy recommendations in major subject areas involving the Council's interests and responsibilities.

The professional staff and their special fields at the end of the year were:

Peter G. Gould..... Special Assistant to the Chairman

Senior Staff Economists

Roger E. Brinner	Business Conditions Analysis, Econometrics, and Forecasting
Peter K. Clark	Macro- and Microeconomic Analysis, Econo- metrics, Trade, and Aggregate Supply
Nina W. Cornell	Regulated Industries, Transportation, Envi- ronmental, and Health and Safety Issues
George E. Johnson	Labor Policy, Human Resources, Welfare, and Health Issues
Susan J. Lepper	Monetary Policy, Financial Institutions, Capi- tal Markets, Housing, and State and Local Finances
David C. Munro	Business Conditions Analysis, Econometrics, and Forecasting
J. B. Penn	Agriculture and Food Policy
Jeffrey R. Shafer	International Finance and Trade
William L. Springer	Fiscal Policy, Public Finance, Income Distri- bution, Human Resources, Welfare, and Health Issues
David A. Wyss	Macro- and Microeconomic Analysis, Econo- metrics, and Prices and Wages
	Statistician
Catherine H. Furlong	Senior Statistician
Sta	ff Economists
Arthur E. Blakemore	Labor Markets
Robert E. Litan	Energy Analysis and Policy, Science and Tech- nology, and Natural Resources
Junior	Staff Economists
Michael S. Golden	Agriculture and Food Policy, Econometrics, and Forecasting
Howard K. Gruenspecht	Regulation, Monetary Developments, and In- dustry Analysis
Richard I. Kolsky	Regulation, Energy Policy, and Industry An- alysis
Richard A. Koss	Econometrics and Forecasting
Julianne M. Malveaux	Labor Markets and Monetary Developments
Martha M. Parry	International Economics

Catherine H. Furlong, Senior Statistician, is in charge of the Council's Statistical Office. In 1977 Mrs. Furlong replaced Frances M. James, who retired after 31 years of service as Senior Statistician for the Council. Mrs. Furlong has primary responsibility for managing the Council's statistical information system. She supervises the publication of *Economic Indicators* and the preparation of the statistical appendix to the *Economic Report*. She also oversees the verification of statistics in memoranda, testimony, and speeches. Natalie V. Rentfro and Earnestine Reid assist Mrs. Furlong.

George C. Eads (The Rand Corporation), Murray F. Foss (National Bureau of Economic Research), and John B. Shoven (Stanford University) served as consultants to the Council.

In preparing the *Economic Report* the Council relied upon the editorial assistance of Rosannah C. Steinhoff. Also called on for special assistance in connection with the *Report* was Dorothy L. Reid, a former member of the Council staff.

SUPPORTING STAFF

The Administrative Office provides administrative support for the Council. Nancy F. Skidmore, Administrative Officer, prepares and analyzes the budget and provides general administrative services. Duplicating, mail, and messenger services were the responsibility of James W. Gatling and Frank C. Norman. Elizabeth A. Kaminski serves as Staff Assistant to the Council.

Members of the secretarial staff for the Chairman and Council Members during 1977 were Patricia A. Lee, Linda A. Reilly, Florence T. Torrison, and Alice H. Williams. Secretaries for the professional staff were M. Catherine Fibich, Bessie M. Lafakis, Joyce A. Pilkerton, Bettye T. Siegel, Margaret L. Snyder, and Lillie M. Sturniolo.

DEPARTURES

The Council's professional staff members are drawn primarily from universities and research institutions. Senior staff economists who resigned during the year were Barry P. Bosworth (Council on Wage and Price Stability), Barry R. Chiswick (Hoover Institution, Stanford University), John M. Davis, Jr. (Federal Reserve Bank of Cleveland), Bruce L. Gardner (Texas A&M University), Helen B. Junz (Department of the Treasury), Michael D. McCarthy (Wharton Econometric Forecasting Associates, Inc.), John J. Siegfried (Vanderbilt University), John B. Taylor (Columbia University), and Philip K. Verleger, Jr. (Department of the Treasury). Doral S. Cooper, staff economist, resigned to accept a position with the Special Representative for Trade Negotiations.

Frances M. James, Senior Staff Statistician of the Council, retired in 1977 after having served on the staff since 1946. More than any other person she was responsible for establishing and maintaining a standard of rigorous accuracy in the data used by the Council and published in the Council's Annual Report and monthly *Economic Indicators*. A generation of economists who have been members of the Council of Economic Advisers have been indebted to her for wise guidance in the exercise of their duties. All future Councils, although they will not have the privilege of working with her, will nevertheless be the beneficiaries of the tradition she left behind. Junior economists who resigned in 1977 were Richard E. Browning (Georgetown University), Timothy H. Quinn (University of California, Los Angeles), Barbara A. Smith (Mathematica Policy Research, Inc.), Paul C. Westcott (Department of Agriculture), and Benjamin Zycher (University of California, Los Angeles). Retired during the year were Dorothy Bagovich, statistical assistant, and Dorothy L. Green, secretary. Margaret A. Bocek, secretary, resigned from the Council staff.

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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: Preliminary.

__ Not available (also, not applicable).

NATIONAL INCOME OR EXPENDITURE

TABLE B-1.-Gross national product, 1929-77

[Billions of collars, except as noted; quarterly data at seasonally adjusted annual rates]

				Net ex	ports of	goods				s of good	-	Per- cent
Year or quarter	Gross national product	Per- sonal con- sump- tion ex- pend- itures	Gross private do- mestic invest- ment	Net exports	Ex- ports	Im- ports	Total	Total	Federal Na- tional de- fense 1	-	State and focal	chang from pre- cedin period gross na- tional prod- uct ²
1929	103.4	77.3	16. 2	1.1	7.0	5.9	8.8	1.4	 		7.4	
1933	55.8	45.8	1.4	.4	2.4	2.0	8. 2	2.1			6.1	-4.
1939	90.8	67.0	9.3	1.1	4.4	3, 4	13.5	5. 2	1.2	3, 9	8.3	6.
1940 1941 1942 1943 1943 1945 1946 1946 1947 1948 1949	100. 0 124. 9 158. 3 192. 0 210. 5 212. 3 209. 6 232. 8 259. 1 258. 0	71.0 80.8 88.6 99.4 108.2 119.5 143.8 161.7 174.7 178.1	13. 1 17. 9 9. 9 5. 8 7. 2 10. 6 30. 7 34. 0 45. 9 35. 3	1.7 1.3 -2.0 -1.8 6 7.6 11.6 6.5 6.2	5.4 5.9 4.8 4.4 5.3 7.2 14.8 19.8 16.9 15.9	3.6 4.6 4.8 6.5 7.1 7.8 7.2 8.2 10.4 9.6	14. 2 24. 9 59. 8 88. 9 97. 0 82. 8 27. 5 25. 5 32. 0 38. 4	6.1 16.9 52.0 81.3 89.4 74.6 17.6 12.7 16.7 20.4	2.2 13.7 49.4 79.7 87.4 73.5 14.8 9.0 10.7 13.2	3.9 3.2 2.6 1.6 2.0 1.1 2.8 3.7 6.0 7.2	8.1 8.0 7.8 7.5 7.6 8.2 9.9 12.8 15.3 18.0	10. 24. 26. 21. 9. -1. 11. 11.
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	286, 2 330, 2 347, 2 366, 1 366, 3 399, 3 420, 7 442, 8 448, 9 486, 5	192. 0 207. 1 217. 1 229. 7 235. 8 253. 7 266. 0 280. 4 289. 5 310. 8	53.8 59.2 52.1 53.3 52.7 68.4 71.0 69.2 61.9 77.6	1.9 3.8 2.4 .6 2.0 2.2 4.3 6.1 2.5 .6	13. 9 18. 9 18. 2 17. 1 18. 0 20. 0 23. 9 26. 7 23. 3 23. 7	12. 0 15. 1 15. 8 16. 6 16. 0 17. 8 19. 6 20. 7 20. 8 23. 2	38.5 60.1 75.6 82.5 75.8 75.0 79.4 87.1 95.0 97.6	18.7 38.3 52.4 57.5 47.9 44.5 45.9 50.0 53.9 53.9	14.0 33.5 45.8 48.6 41.1 38.4 40.2 44.0 45.6 45.6	4.7 4.8 6.5 6.8 6.0 5.7 5.9 8.3 8.3	19.8 21.8 23.2 25.0 27.8 30.6 33.5 37.1 41.1 43.7	10. 15. 5. 9. 5. 5. 1. 8.
1960 1961 1962 1963 1964 1965 1966 1967 1967 1969	506. 0 523. 3 563. 8 594. 7 635. 7 688. 1 753. 0 796. 3 868. 5 935. 5	324. 9 335. 0 355. 2 374. 6 400. 4 430. 2 464. 8 490. 4 535. 9 579. 7	76. 4 74. 3 85. 2 90. 2 96. 6 112. 0 124. 5 120. 8 131. 5 146. 2	4.4 5.8 5.4 6.3 8.9 7.6 5.1 4.9 2.3 1.8	27.6 28.9 30.6 32.7 37.4 39.5 42.8 45.6 49.9 54.7	23.2 23.1 25.2 26.4 28.4 32.0 37.7 40.6 47.7 52.9	100. 3 108. 2 118. 0 123. 7 129. 8 138. 4 158. 7 180. 2 198. 7 207. 9	53.7 57.4 63.7 64.6 65.2 67.3 78.8 90.9 98.0 97.5	44.5 47.0 51.1 50.3 49.0 49.4 60.3 71.5 76.9 76.3	9.3 10.4 12.7 14.3 16.2 17.8 18.5 19.5 21.2 21.2	46. 5 50. 8 54. 3 59. 0 64. 6 71. 1 79. 8 89. 3 100. 7 110. 4	4. 3. 7. 5. 6. 8. 9. 5. 9. 7.
1970 1971 1972 1973 1974 1975 1976 1977 <i>p</i>	982. 4 1, 063. 4 1, 171. 1 1, 306. 6 1, 412. 9 1, 528. 8 1, 706. 5 1, 890. 4	618.8 668.2 733.0 809.9 889.6 980.4 1,094.0 1,210.1	140, 8 160, 0 188, 3 220, 0 214, 6 189, 1 243, 3 294, 3	3.9 1.6 -3.3 7.1 6.0 20.4 7.8 -9.0	62.5 65.6 72.7 101.6 137.9 147.3 162.9 175.6	58. 5 64. 0 75. 9 94. 4 131. 9 126. 9 155. 1 184. 7	218.9 233.7 253.1 269.5 302.7 338.9 361.4 395.0	95.6 96.2 102.1 102.2 111.1 123.3 130.1 145.4	73. 5 70. 2 73. 5 73. 5 73. 5 77. 0 83. 9 86. 8 94. 3	22. 1 26. 0 28. 6 28. 7 34. 1 39. 4 43. 3 51. 1	123. 2 137. 5 151. 0 167. 3 191. 5 215. 6 231. 2 249. 5	5. 8. 10. 11. 8. 8. 11. 10.
1975: 1 It It IV	1 453 0	936. 5 965. 9 995. 1 1, 024. 1	175.1 171.2 205.4 204.7	15.4 24.3 20.8 20.8	147.4 142.7 146.9 152.1	131. 9 118. 3 126. 1 131. 3	326. 0 335. 2 343. 5 351. 0	119.6 121.8 123.8 128.1	81.6 83.0 84.4 86.7	38.0 38.8 39.4 41.4	206. 4 213. 3 219. 7 222. 9	12. 19. 9.
1976: V	1, 651. 2 1, 691. 9 1, 727. 3 1, 755. 4	1, 056. 0 1, 078. 5 1, 102. 2 1, 139. 0	231, 3 244, 4 254, 3 243, 4	10, 2 10, 2 7, 9 3, 0	153, 9 160, 6 168, 4 168, 5	143, 7 150, 4 160, 6 165, 6	353.6 358.9 363.0 370.0	127.6 128.5 130.2 134.2	86. 3 86. 0 86. 4 88. 4	41. 3 42. 5 43. 8 45. 8	225. 9 230. 4 232. 7 235. 8	13. 10. 8. 6.
1977: V P	1, 810. 8 1, 869. 9 1. 915. 9 1, 965. 1	1, 172, 4 1, 194, 0 1, 218, 9 1, 255, 3	271.8 294.9 303.6 307.0	-8.2 -9.7 -7.5 -10.8	170. 4 178. 1 179. 9 174. 3	178.6 187.7 187.4 185.1	374, 9 390, 6 400, 9 413, 6	136. 3 143. 6 148. 1 153. 8	89.7 93.4 95.6 98.6	46. 7 50. 2 52. 5 55. 2	238.5 247.0 252.9 259.8	13. 13. 10. 10.

¹ This category corresponds closely to the national defense classification in "The Budget of the United States Government, Fiscal Year 1979." ² Changes are based on unrounded data and therefore may differ slightly from those obtained from data shown here.

		Persona	l consump	tion expe	nditures	Gross private domestic investment					
	Gross						<u> </u>	-	vestment		
Year or quarter	national product	Total	Durable goods	Non- durable goods	Services	Total	Total	Total	Struc- tures	Pro- ducers' durable equip- ment	
1929	314, 7	215.6	21.5	98, 1	96,1	55.9	51.3	37.0	20.6	16.4	
1933	222, 1	170. 7	10.9	82, 9	76.8	8.4	13.3	10.4	4.9	5.5	
1939	319.7	220. 3	19.1	115, 1	86, 1	33.6	32. 0	20. 7	8.6	12. 1	
1940	343. 6 396. 6 454. 6 527. 3 567. 0 559. 0 477. 0 468. 3 487. 7 490. 7	230. 4 244. 1 241. 7 248. 7 255. 7 271. 4 301. 4 306. 2 312. 8 320. 0	21.8 24.7 16.3 14.5 13.5 14.8 25.8 30.6 33.1 36.3	119.9 127.6 129.9 134.0 139.4 150.3 158.9 154.8 155.0 157.4	88.7 91.8 95.5 100.1 102.7 106.3 116.7 120.8 124.6 126.4	44.6 55.8 29.6 18.1 19.8 27.8 71.0 70.1 82.3 65.6	38. 4 43. 8 24. 4 18. 0 22. 1 31. 4 58. 8 70. 4 76. 8 70. 0	25.7 30.3 17.6 14.0 18.7 27.6 42.0 48.9 51.0 46.0	9.9 11.9 6.7 4.2 5.5 8.3 18.8 17.3 18.4 17.8	15. 8 18. 5 10. 9 9. 8 13. 2 19. 2 23. 2 31. 6 32. 7 28. 2	
1950 1951 1952 1953 1954 1955 1955 1955 1956 1957 1958 1958	533.5 576.5 598.5 621.8 613.7 654.8 668.8 680.9 679.5 720.4	338. 1 342. 3 350. 9 364. 2 370. 9 395. 1 406. 3 414. 7 419. 0 441. 5	43. 4 39. 9 38. 9 43. 1 43. 5 52. 2 49. 8 49. 7 46. 4 51. 8	161. 8 165. 3 171. 2 175. 7 177. 0 185. 4 191. 6 194. 9 196. 8 205. 0	132.8 137.1 140.8 145.5 150.4 157.5 164.9 170.2 175.8 184.7	93.7 94.1 83.2 85.6 83.4 104.1 102.9 97.2 87.7 107.4	83. 2 80. 4 78. 9 84. 1 85. 6 96. 3 97. 1 95. 7 89. 6 101. 0	50.0 52.9 52.1 56.3 55.4 61.2 65.2 66.0 58.9 62.9	19. 1 20. 6 20. 6 22. 5 23. 5 25. 3 28. 1 28. 1 26. 4 26. 8	30. 9 32. 3 31. 5 33. 8 35. 9 37. 1 37. 9 32. 5 36. 1	
1960	736. 8 755. 3 799. 1 830. 7 874. 4 925. 9 981. 0 1, 007. 7 1, 051. 8 1, 078. 8	453.0 462.2 482.9 501.4 528.7 558.1 586.1 603.2 633.4 655.4	52.5 50.3 55.7 65.7 73.4 79.0 79.7 88.2 91.9	208. 2 211. 9 218. 5 223. 0 244. 0 255. 5 259. 5 270. 2 276. 4	192. 3 200. 0 208. 7 217. 6 229. 7 240. 7 251. 6 264. 0 275. 0 287. 2	105. 4 103. 6 117. 4 124. 5 132. 1 150. 1 161. 3 152. 7 159. 5 168. 0	101. 0 100. 7 109. 3 116. 8 124. 8 138. 8 144. 6 140. 7 150. 8 157. 5	66. 0 65. 6 70. 9 73. 5 81. 0 95. 6 106. 1 103. 5 108. 0 114. 3	28.8 29.3 30.8 30.8 39.6 42.5 41.1 42.0 44.0	37. 2 36. 3 40. 1 42. 7 47. 7 56. 0 63. 6 62. 4 62. 1 70. 3	
1970 1971 1972 1973 1974 1975 1976 1977 p	1,075.3 1,107.5 1,171.1 1,235.0 1,217.8 1,202.1 1,274.7 1,337.6	668.9 691.9 733.0 767.7 760.7 775.1 821.3 860.3	88.9 98.1 111.2 121.8 112.5 112.7 127.5 138.0	282. 7 287. 5 299. 3 309. 3 303. 9 307. 6 321. 6 333. 3	297. 3 306. 3 322. 4 336. 5 344. 3 354. 8 372. 2 389. 0	154.7 166.8 188.3 207.2 183.6 141.6 173.0 195.6	150. 4 160. 2 178. 8 190. 7 175. 6 151. 5 164. 5 184. 0	110.0 108.0 116.8 131.0 130.6 112.7 116.8 127.1	42. 8 41. 7 42. 5 45. 5 42. 5 36. 3 37. 1 38. 4	67.2 66.3 74.3 85.5 88.1 76.5 79.7 88.7	
1975: (1 V		756. 9 770. 4 780. 2 792. 8	106.2 109.0 115.4 120.2	301. 8 308. 4 308. 6 311. 5	349.0 353.0 356.2 361.2	133.0 130.9 153.1 149.2	152.9 148.9 150.2 153.8	116.6 112.0 111.0 111.3	37. 2 35. 8 36. 0 36. 1	79.5 76.2 75.0 75.2	
1976: I II III IV	1, 256. 0 1, 271. 5 1, 283. 7 1, 287. 4	807.2 815.5 822.7 839.8	125. 4 126. 6 127. 1 130. 7	316. 1 319. 3 321. 5 329. 4	365.6 369.6 374.0 379.7	168. 1 175. 2 179. 4 169. 2	158. 4 163. 1 165. 6 171. 0	113.7 115.9 118.5 119.0	36. 8 37. 1 37. 1 37. 3	76. 8 78. 9 81. 4 81. 7	
1977 : t V P	1, 311. 0 1, 330. 7 1, 347. 4 1, 361. 4	850. 4 854. 1 860. 4 876. 4	136. 9 137. 9 136. 5 140. 8	329.7 330.0 332.4 340.9	383. 8 386. 3 391. 4 394. 7	186.7 197.2 200.8 197.6	177.0 184.0 185.1 190.0	124. 3 126. 4 127. 6 130. 2	37.0 38.2 38.9 39.6	87.3 88.1 88.7 90.7	

[Billions of 1972 dollars; quarterly data at seasonally adjusted annual rates]

See footnotes at end of table.

		Gross j investr	orivate de nentco	omestic ntinued			oports of ad servic		Govern of goo			
Year or	Fixed		ent—cont lential	inued	Change							Percent change from pre-
quarter	Total	Non- farm struc- tures	Farm struc- tures	Pro- duc- ers' dur- able equip- ment	in busi- ness inven- tories	Net ex- ports	Ex- ports			Total Fed- eral		ceding period, gross national product ¹
1929	14.3	13.6	0.6	0.1	4.6	2.2	15.6	13.4	40.9	6.9	33.9	
1933	2.9	2.6	.2	.1	-4.9	. 2	9.4	9.3	42.8	10.8	32.0	-2.1
1939	11.3	10.6	.6	.1	1.6	2.0	13. 3	11.4	63.8	22.6	41.2	7.6
1940 1941 1942 1943 1944 1945 1946 1946 1947 1948 1949	12. 8 13. 5 6. 8 4. 0 3. 4 3. 8 16. 8 21. 5 25. 8 24. 0	11.8 12.5 6.1 3.5 15.5 19.8 23.9 22.3	.8 .9 .6 .4 .4 .3 1.1 1.3 1.5 1.4	.1 .2 .1 .0 .1 .2 .3 .3 .3	6.2 12.0 5.2 .1 -2.3 -3.6 12.2 2 5.5 -4.4	$\begin{array}{r} 3.0 \\ .8 \\ -2.5 \\ -7.3 \\ -7.2 \\ -4.5 \\ 11.6 \\ 16.6 \\ 8.5 \\ 8.8 \end{array}$	14. 6 14. 7 10. 3 9. 0 10. 0 13. 5 26. 1 30. 2 24. 2 24. 2	11.5 14.0 12.8 16.3 17.3 18.0 14.6 13.6 15.7 15.4	65. 5 95. 9 185. 8 267. 9 298. 8 264. 3 93. 1 75. 4 84. 1 96. 2	26. 3 58. 6 151. 5 236. 3 268. 2 232. 7 58. 4 36. 1 42. 4 48. 9	39. 2 37. 3 34. 3 31. 6 30. 6 31. 6 34. 8 39. 3 41. 8 47. 4	$\begin{array}{c} 7.5\\ 15.4\\ 14.6\\ 16.0\\ 7.5\\ -1.4\\ -14.7\\ -1.8\\ 4.1\\ .6\end{array}$
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	33. 2 27. 5 26. 8 27. 8 30. 2 35. 1 31. 9 29. 7 30. 6 38. 1	31.5 25.9 25.3 26.3 28.8 33.8 30.4 28.3 29.2 36.5	1.3 1.3 1.2 1.2 1.1 .9 1.0 1.0 .9 1.0	.33.33.44.55.6	$ \begin{array}{c} 10.6\\ 13.7\\ 4.3\\ 1.5\\ -2.2\\ 7.7\\ 5.8\\ 1.5\\ -1.8\\ 6.5 \end{array} $	4.0 7.4 4.9 2.0 4.5 4.7 7.3 8.9 3.5 .9	21.7 25.9 24.9 23.8 25.3 27.9 32.3 34.8 30.7 31.5	17.7 18.5 20.0 21.8 20.8 23.2 25.0 26.0 27.2 30.6	97.7 132.7 159.5 170.0 154.9 150.9 152.4 160.1 169.3 170.7	47.0 81.3 107.0 114.6 95.2 86.9 85.9 89.8 92.8 91.8	50. 7 51. 3 52. 5 55. 4 59. 7 64. 0 66. 5 70. 3 76. 4 78. 9	8.7 8.1 3.8 -1.3 6.7 2.1 1.8 2 6.0
1960 1961 1962 1963 1964 1965 1966 1966 1967 1968 1968	25 0	33.7 33.6 36.9 41.7 42.2 41.6 36.9 35.5 41.1 41.5	.8 1.0 .9 .9 .9 .8 .9 .9 .8 .9	.5 .6 .7 .7 .8 .9	4.4 2.9 8.1 7.8 7.3 11.3 16.7 12.0 8.7 10.6	5.5 6.7 5.8 7.3 10.9 8.2 4.3 3.5 4 1.3	35.8 37.0 39.6 42.2 47.8 49.1 51.6 54.2 58.5 62.2	30. 3 30. 3 33. 9 35. 0 36. 9 41. 0 47. 3 50. 7 58. 9 63. 5	172.9 182.8 193.1 197.6 202.7 209.6 229.3 248.3 259.2 256.7	90. 8 95. 6 103. 1 102. 2 100. 6 100. 5 112. 5 125. 3 128. 3 121. 8	82.0 87.1 90.0 95.4 102.1 109.1 116.8 123.1 130.9 134.9	2.3 2.5 5.9 5.9 2.7 4.4 2.6
1970 1971 1972 1973 1974 1975 1976 1977 P	40. 4 52. 2 62. 0 59. 7 45. 0 38. 8 47. 7 56. 9	38.9 50.5 60.3 57.9 43.0 37.1 46.0 55.1	.6 .7 .5 .9 .7 .7 .7	.9 1.0 1.1 1.2 1.1 .9 1.0 1.1	4.3 6.6 9.4 16.5 8.0 -9.9 8.5 11.6	$ \begin{array}{r} 1.4 \\6 \\ -3.3 \\ 7.6 \\ 15.9 \\ 22.5 \\ 16.0 \\ 10.7 \\ \end{array} $	67. 1 67. 9 72. 7 87. 4 93. 0 89. 9 95. 8 98. 0	65. 7 68. 5 75. 9 79. 9 77. 1 67. 4 79. 8 87. 3	250. 2 249. 4 253. 1 252. 5 257. 7 263. 0 264. 4 271. 1	110, 7 103, 9 102, 1 96, 6 95, 8 96, 7 96, 5 101, 4	139.5 145.5 151.0 155.9 161.8 166.3 167.9 169.7	3 3.0 5.7 5.5 1.4 -1.3 6.0 4.9
1975: I II III IV	36. 3 36. 9 39. 3 42. 6	35.0 35.4 37.5 40.7	.4 .6 .9 .9	.9 .9 .9 1.0	20.0 18.0 2.9 4.6	20. 5 24. 5 22. 7 22. 3	89.7 87.4 89.7 92.8	69.2 62.9 67.0 70.6	259.4 262.3 264.8 265.4	96.0 96.5 96.9 97.4	163. 4 165. 8 167. 8 168. 0	9.6 6.4 11.4 3.0
1976: I II III IV	44.8 47.1 47.1 52.0	42.9 45.4 45.4 50.2	.9 .7 .6 .7	1.0 1.0 1.0 1.1	9.7 12.1 13.8 -1.8	16. 8 16. 4 17. 0 13. 8	93. 1 95. 2 97. 9 96. 9	76. 3 78. 9 80. 9 83. 1	263.9 264.4 264.6 264.6	96.4 96.1 96.7 97.1	167.5 168.4 168.0 167.5	8.8 5.1 3.9 1.2
1977 : 	52.7 57.6 57.5 59.8	50.9 55.7 55.7 58.0	.7 .8 .7 .6	1.1 1.1 1.1 1.2	9.7 13.2 15.7 7.7	10.6 9.4 12.2 10.6	96. 9 98. 5 99. 8 96. 8	86. 3 89. 1 87. 6 86. 2	263.3 270.0 274.0 276.8	97.0 101.1 103.3 104.1	166. 4 168. 9 170. 7 172. 8	7.5 6.2 5.1 4.2

TABLE B-2.-Gross national product in 1972 dollars, 1929-77-Continued

[Billions of 1972 dollars, except as noted; quarterly data at seasonally adjusted annual rates]

¹ Changes are based on unrounded data and therefore may differ slightly from those obtained from data shown here. Source: Department of Commerce, Bureau of Economic Analysis.

TABLE B-3.-Implicit price deflators for gross national product, 1929-77

						Gross private domestic investment 1						
		Persor	ial consump	tion expendi	tures	Fixed investment						
Year or quarter	Gross national						Nonresidential					
	prod- uct ¹	Total	Dur- able goods	Non- durable goods	Serv- ices	Totai	Total	Struc- tures	Pro- ducers' durable equip- ment			
1929	32.87	35.8	43.1	38, 4	31.6	28. 2	28.2	24.1	33. 4			
1933	25.13	26.8	31.7	26.8	26.1	22.4	22.8	19.1	26.2			
1939	28.40	30.4	34.9	30.5	29. 2	27.6	28.2	22.8	32.0			
1940 1941 1942 1943 1943 1945 1945 1946 1946 1947 1948 1947	29. 10 31. 49 34. 82 36. 41 37. 13 37. 99 43. 88 49. 70 53. 13 52. 59	30. 8 33. 1 36. 7 40. 0 42. 3 44. 0 47. 7 52. 8 55. 9 55. 7	35.7 39.1 42.1 45.0 49.5 53.7 61.1 66.8 69.1 69.1	30. 9 33. 6 39. 1 43. 7 46. 2 47. 8 52. 1 58. 7 62. 3 60. 3	29. 5 30. 8 32. 4 34. 2 36. 1 37. 3 38. 9 41. 7 44. 4 46. 1	28.5 30.6 33.4 35.6 36.9 37.1 41.3 48.9 53.6 54.8	29. 1 30. 9 33. 8 35. 7 36. 6 36. 6 39. 9 46. 8 51. 3 52. 8	23. 1 24. 7 28. 1 32. 0 33. 4 33. 6 36. 3 43. 7 48. 4 48. 0	32. 8 34. 9 37. 3 37. 3 38. 0 37. 9 42. 8 48. 5 52. 9 55. 9			
1950 1951 1952 1953 1954 1955 1956 1958 1958 1959	53. 64 57. 27 58. 00 58. 88 59. 69 60. 98 62. 90 65. 02 66. 06 67. 52	56.8 60.5 61.9 63.1 63.6 64.2 65.5 67.6 69.1 70.4	70. 8 74. 7 74. 8 75. 5 73. 2 74. 0 76. 0 79. 2 79. 4 81. 9	60. 7 65. 8 66. 6 66. 3 67. 3 69. 4 71. 0 71. 4	47. 4 49. 9 52. 6 55. 4 57. 2 58. 5 60. 2 62. 2 64. 2 66. 0	56. 5 60. 8 62. 1 62. 9 63. 4 64. 8 68. 3 70. 9 70. 8 71. 6	54. 3 58. 9 59. 9 61. 0 61. 4 62. 6 67. 0 70. 7 70. 6 72. 0	48.8 54.7 55.8 55.9 57.0 61.8 64.4 63.3 63.6	57.6 61.6 62.5 63.7 65.4 66.5 71.0 75.4 76.5 78.2			
1960 1961 1962 1963 1964 1965 1966 1967 1969	68.67 69.28 70.55 71.59 72.71 74.32 76.76 79.02 82.57 86.72	71.7 72.5 73.6 74.7 75.7 77.1 79.3 81.3 84.6 88.5	82.1 82.7 83.9 84.8 85.7 85.6 85.7 87.4 90.7 93.1	72.6 73.3 73.9 74.9 75.8 77.3 80.1 81.9 85.3 89.4	68. 0 69. 1 70. 4 71. 7 72. 8 74. 3 76. 5 78. 8 82. 0 86. 1	71.9 71.6 72.0 72.1 72.8 73.8 76.2 78.7 82.1 86.9	72.2 71.8 72.3 72.9 73.6 74.5 76.8 79.3 82.6 86.6	63.1 62.7 63.0 63.5 64.4 65.9 68.8 71.8 71.8 75.3 81.1	79.3 79.2 79.4 79.6 80.1 80.6 82.1 84.3 87.3 90.0			
1970 1971 1972 1973 1974 1975 1976 1977 P	91.36 96.02 100.00 105.80 116.02 127.18 133.88 141.32	92.5 96.6 100.0 105.5 116.9 126.5 133.2 140.7	95.5 99.0 100.0 101.6 108.4 117.9 124.7 130.0	93.6 96.6 100.0 107.9 123.8 133.1 137.7 144.1	90.5 95.8 100.0 104.7 113.6 123.5 132.3 141.5	91.1 95.9 100.0 106.0 117.1 132.4 139.8 150.3	91. 3 96. 4 100. 0 103. 8 115. 3 132. 3 138. 7 146. 0	88.0 94.4 100.0 107.8 128.1 145.8 150.7 160.3	93. 4 97. 6 100. 0 101. 7 109. 2 125. 9 133. 1 139. 8			
1975: 1 V	124, 21 125, 96 128, 20 130, 17	123. 7 125. 4 127. 5 129. 2	115.6 117.2 118.4 120.1	130.6 131.8 134.5 135.5	120. 3 122. 3 124. 5 126. 8	128.9 131.8 133.5 135.5	128.5 131.8 133.6 135.5	143.5 145.1 146.7 147.9	121, 4 125, 6 127, 2 129, 5			
1976: \ V	131. 47 133. 06 134. 56 136. 35	130. 8 132. 3 134. 0 135. 6	122. 2 123. 8 125. 3 127. 2	136. 2 136. 9 138. 3 139. 3	129. 2 131. 1 133. 2 135. 4	136. 9 138. 6 140. 6 142. 9	136.8 137.8 139.2 140.9	148.5 150.4 150.9 152.8	131, 2 131, 9 133, 9 135, 4			
1977: I II III IV P	138, 13 140, 52 142, 19 144, 34	137.9 139.8 141.7 143.2	129.3 129.5 130.0 131.2	141. 5 143. 8 144. 9 146. 0	137.8 140.1 142.9 145.1	145.8 148.5 151.3 155.3	142, 5 144, 4 146, 9 150, 2	156.6 159.7 160.9 164.0	136.5 137.7 140.8 144.1			

[Index numbers, 1972=100, except as noted; quarterly data seasonally adjusted]

See footnotes at end of table.

Year or quarter	inve	estment 1	te domes —contine ent—cont	ued	Export impor goods servi	ts of and	Governr of good	nent pur Is and se	rchases rvices	C	Percent change from preceding period 3	
	Total	Resid Non- farm	ential Farm struc-	Pro- ducers' dur-	Ex- ports	lm- ports	Total	Fed- erai	State and local	Gross do- mestic prod- uct	Gross national product implicit price	Gross do- mestic product implicit
		struc- tures	tures	able equip- ment							deflator	price deflator
1929	28. 2	27.8	28.6	77.2	45. 0	43. 8	21.6	20.7	21. 8	32.8		
1933	20. 7	19.8	19.5	58.8	25. 5	22. 1	19.3	19.6	19.1	25. 2	-2. 2	-2.1
1939	26.6	26.3	23.4	61. 1	33. 3	2 9 . 6	21.2	22. 9	20. 2	28.4	7	7
1940 1941 1942 1943 1943 1945 1945 1946 1946 1947 1948 1947 1948	27. 4 29. 9 32. 4 34. 9 38. 1 40. 8 44. 6 53. 7 58. 1 58. 7	27. 2 29. 7 31. 8 34. 3 37. 3 40. 0 43. 9 53. 0 57. 4 57. 4 58. 1	23. 6 26. 6 30. 7 35. 7 40. 8 42. 9 46. 6 52. 8 57. 3 58. 0	59.6 63.8 71.3 71.4 75.0 84.6 95.2 105.6 111.5 107.9	36. 8 40. 2 46. 5 52. 6 53. 6 56. 7 65. 8 69. 8 65. 5	31.5 33.2 37.4 39.6 41.1 43.6 49.7 60.7 66.1 62.7	21.6 26.0 32.2 33.2 32.5 31.3 29.4 33.8 38.0 39.9	23. 1 28. 9 34. 3 34. 4 33. 3 32. 1 29. 9 35. 1 39. 4 41. 8	20. 6 21. 4 22. 8 23. 8 24. 9 25. 9 28. 6 32. 5 36. 6 38. 0	29. 1 31. 5 34. 8 36. 4 37. 1 38. 0 43. 9 49. 7 53. 1 52. 6	2.5 8.2 10.6 2.0 2.3 15.7 13.1 6.9 -1.0	2.5 8.2 10.6 4.5 2.0 2.3 15.6 13.1 6.9 1.0
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	64.4 66.9 67.1 68.7 70.9 71.3 71.2 71.0	59.5 63.8 65.8 66.3 66.6 68.2 70.5 70.8 70.7 70.6	59.4 63.8 65.7 66.2 66.5 68.3 70.6 70.9 70.8 70.8	107.4 114.9 114.6 114.2 112.4 109.1 104.3 103.4 101.9 101.8	64.0 73.1 73.0 71.9 71.2 71.8 73.9 76.4 75.7 75.4	67.8 81.8 79.1 75.8 76.9 76.8 78.3 79.5 76.5 75.7	39.4 45.3 47.4 48.5 48.9 49.7 52.1 54.4 56.1 57.2	39.9 47.1 48.9 50.2 50.4 51.1 53.4 55.7 58.1 58.7	39. 0 42. 4 44. 2 45. 1 46. 6 47. 8 50. 4 52. 8 53. 8 55. 4	53. 6 57. 2 57. 9 58. 8 59. 6 60. 9 62. 8 65. 0 66. 0 67. 5	2.0 6.8 1.3 1.5 1.4 2.2 3.2 3.4 1.6 2.2	2.0 6.7 1.3 1.5 1.4 2.2 3.2 3.4 1.6 2.2
1960 1961 1962 1963 1964 1964 1965 1966 1966 1967 1968 1969	71.4 71.3 71.5 70.9 71.2 72.3 74.6 77.0 80.7 87.7	70.9 70.9 71.1 70.5 70.8 72.0 74.2 76.7 80.4 87.5	71.2 70.7 71.3 70.7 71.0 72.3 74.3 76.7 80.5 87.5	100.8 99.1 96.8 95.3 94.3 92.1 90.8 91.0 93.2 95.2	77.1 78.0 77.3 77.5 78.3 80.5 82.8 84.0 85.3 87.9	76.7 76.1 74.5 75.6 77.1 78.0 79.7 80.1 80.9 83.3	58.0 59.2 61.1 62.6 64.0 66.0 69.2 72.6 76.7 81.0	59.1 60.0 61.8 63.3 64.8 67.0 70.1 72.6 76.4 80.0	56.8 58.3 60.3 61.9 63.3 65.1 68.4 72.5 76.9 81.9	68.6 69.2 70.5 71.6 72.7 74.3 76.8 79.0 82.6 86.8	1.7 .9 1.8 1.5 1.6 2.2 3.3 2.9 4.5 5.0	1.7 .9 1.9 1.5 1.6 2.2 3.3 3.0 4.5 5.1
1970 1971 1972 1973 1974 1975 1976 1977	90. 6 94. 9 100. 0 110. 8 122. 3 132. 8 142. 5 159. 9	90. 4 94. 8 100. 0 111. 0 122. 7 133. 2 143. 0 160. 5	90. 5 95. 0 100. 0 110. 7 122. 7 132. 9 142. 9 142. 9 159. 4	97.5 99.3 100.0 100.1 105.3 116.7 122.6 126.8	93. 1 96. 6 100. 0 116. 2 148. 3 163. 8 170. 0 179. 2	89.1 93.5 100.0 118.2 171.0 188.2 194.3 211.5	87.5 93.7 100.0 106.7 117.5 128.9 136.7 145.7	86. 4 92. 6 100. 0 105. 8 115. 9 127. 5 134. 8 143. 5	88.3 94.5 100.0 107.3 118.4 129.7 137.7 147.1	91. 4 96. 0 100. 0 105. 7 115. 6 126. 8 133. 4 140. 8	5.4 5.1 4.1 5.8 5.6 9.6 5.3 5.6	5.3 5.1 4.1 5.7 5.5 9.7 5.2 5.5
1975: V	130.3 131.7 133.2	130.7 132.1 133.6 135.8	129.6 131.2 133.0 135.4	114.0 115.9 117.4 119.0	164. 4 163. 2 163. 9 163. 8	190. 7 188. 1 188. 1 186. 0	125.7 127.8 129.7 132.3	124.5 126.3 127.7 131.5	126.3 128.6 130.9 132.7	123. 8 125. 6 127. 8 129. 8	10.8 5.7 7.3 6.3	11.4 5.8 7.4 6.4
1976: V	140. /	137.5 141.0 144.5 148.0	137, 4 141, 3 145, 3 148, 9	120. 8 122. 4 123. 4 123. 8	165.3 168.6 172.0 174.0	188, 2 190, 7 198, 4 199, 3	134.0 135.7 137.2 139.8	132.4 133.7 134.7 138.2	134.9 136.8 138.6 140.7	131. 0 132. 7 134. 1 135. 9	4.1 4.9 4.6 5.4	3.8 5.0 4.4 5.5
1977: 1 I1 III IV P	160.9	154. 3 158. 2 161. 5 167. 3	153.7 157.7 160.6 166.5	125. 2 126. 6 127. 6 127. 9	175. 9 180. 8 180. 2 180. 0	207. 0 210. 6 213. 9 214. 6	142. 3 144. 6 146. 3 149. 4	140. 6 142. 0 143. 3 147. 8	143. 4 146. 2 148. 1 150. 4	137.6 140.0 141.7 143.8	5.3 7.1 4.8 6.2	5.0 7.1 4.9 6.3

TABLE B-3.-Implicit price deflators for gross national product, 1929-77-Continued [index numbers, 1972=100, except as noted; guarterly data seasonally adjusted]

¹ Separate deflators are not available for gross private domestic investment, change in business inventories, and net exports of goods and services. ² Changes are based on unrounded data and therefore may differ slightly from those obtained from data shown here. Quarterly data are at annual rates.

TABLE B-4.—Implicit price deflators and alternative price measures of gross national product and gross domestic product, 1929-77

	1	ndex numbe	ers, 1972 <i>=</i>	=100	Percent change from preceding period 1								
Year or quarter	Gross pr	national oduct		domestic oduct	Gross	s national pr	oduct	Gross	domestic pr	oduct			
	Implicit price deflator	Fixed- weighted price index (1972 weights)	Implicit price deflator	Fixed- weighted price index (1972 weights)	Implicit price deflator	Fixed- weighted price index (1972 weights)	Chain price index	Implicit price deflator	Fixed- weighted price index (1972 weights)	Chain price index			
1929	32.87		32.8										
1933	25. 13		25, 2		-2.2			-2.1					
1939	28.40		28.4		7			7					
1940 1941 1942 1943 1944 1945 1945 1946 1946 1947 1948 1949	29. 10 31. 49 34. 82 36. 41 37. 13 37. 99 43. 88 49. 70 53. 13 52. 59		29. 1 31. 5 34. 8 36. 4 37. 1 38. 0 43. 9 49. 7 53. 1 52. 6		2.5 8.2 10.6 2.0 2.3 15.7 13.1 6.9 1.0			2.5 8.2 10.6 4.5 2.3 15.6 13.1 6.9 1.0					
1950 1951 1952 1953 1954 1955 1956 1956 1957 1958 1959	53. 64 57. 27 58. 00 58. 88 59. 69 60. 98 62. 90 65. 02 66. 06 67. 52	 68. 1 69. 1	53.6 57.2 57.9 58.8 59.6 60.9 62.8 65.0 65.0 65.0 67.5	 68. 0 69. 1	2.0 6.8 1.3 1.5 1.4 2.2 3.2 3.4 1.6 2.2	1.6	1.6	2.0 6.7 1.3 1.5 1.4 3.2 3.4 1.6 2.2	1.6	1.			
960 961 962 963 963 964 965 966 966 967 968 968 969	68. 67 69. 28 70. 55 71. 59 72. 71 74. 32 76. 76 79. 02 82. 57 86. 72	70.3 71.1 72.0 72.8 73.7 75.0 77.2 79.5 83.0 87.1	68.6 69.2 70.5 71.6 72.7 74.3 76.8 79.0 82.6 86.8	70. 2 71. 1 72. 0 72. 8 73. 7 75. 0 77. 2 79. 6 83. 0 87. 1	1.7 .9 1.8 1.5 1.6 2.2 3.3 2.9 4.5 5.0	1.7 1.1 1.3 1.1 1.2 1.8 2.9 3.0 4.3 5.0	1.7 1.2 1.4 1.3 1.4 1.9 3.1 3.0 4.4 5.0	1.7 .9 1.5 1.6 2.2 3.3 3.0 4.5 5.1	1.7 1.2 1.3 1.1 1.2 1.8 3.0 3.0 4.4 5.0	1. 1. 1. 1. 3. 3. 4. 5.			
970 971 972 973 973 974 974 975 975 976 976 977 P	91.36 96.02 100.00 105.80 116.02 127.18 133.88 141.32	91. 6 96. 1 100. 0 116. 0 116. 8 127. 7 134. 9 143. 2	91. 4 96. 0 100. 0 105. 7 115. 6 126. 8 133. 4 140. 8	91.7 96.2 100.0 105.9 116.4 127.3 134.4 142.6	5.4 5.1 4.1 5.8 9.7 9.6 5.3 5.6	5.2 4.9 4.0 6.0 10.2 9.4 5.6 6.1	5.3 5.0 4.1 6.0 9.9 9.5 5.6 6.0	5.3 5.1 4.1 5.7 9.3 9.7 5.2 5.5	5. 2 4. 9 4. 0 5. 9 9. 9 9. 4 5. 6 6. 1	5. 5. 4. 5. 9. 5. 5.			
1975: I II III IV	124, 21 125, 96 128, 20 130, 17	124, 5 126, 5 128, 8 130, 8	123.8 125.6 127.8 129.8	124. 1 126. 0 128. 3 130. 4	10.8 5.7 7.3 6.3	8.8 6.4 7.4 6.4	9.5 6.5 7.4 6.1	11. 4 5. 8 7. 4 6. 4	8.8 6.5 7.5 6.6	9. 6. 7. 6.			
1976 : 1 11 111 111 1V	131. 47 133. 06 134. 56 136. 35	132.3 133.9 135.5 137.5	131. 0 132. 7 134. 1 135. 9	131. 9 133. 5 135. 1 137. 1	4. 1 4. 9 4. 6 5. 4	4.6 5.2 4.8 6.0	4.9 5.3 4.6 5.9	3.8 5.0 4.4 5.5	4.6 5.2 4.6 6.1	4. 5. 4. 6.			
1977: 1 \V P	138. 13 140. 52 142. 19 144. 34	139. 9 142. 3 144. 0 146. 1	137.6 140.0 141.7 143.8	139. 4 141. 8 143. 4 145. 6	5.3 7.1 4.8 6.2	7.1 7.0 4.8 6.1	6.9 7.0 4.3 6.0	5.0 7.1 4.9 6.3	7.0 7.0 4.8 6.2	6. 7. 4. 6.			

[Quarterly data seasonally adjusted]

¹ Changes are based on unrounded data and therefore may differ slightly from those obtained from published indexes shown here. Quarterly data are at annual rates.

TABLE B-5Gross national	product	by	industry in	1972 dollars,	1947-76

		Agri-		Ma	nufactur	ing	Trans- porta-		Finance.		Gov-	
Year	Gross na- tional product	culture, fores- try, and	Con- struc- tion	Total	Du- rable goods indus- tries	Non- durable goods indus- tries	tion, com- muni- cation, and utili- ties	Whole- sale and retail trade	insur- ance, and real estate	Serv- ices	ern- ment and govern- ment enter- prises	All other 1
1947 1948 1949	468. 3 487. 7 490. 7	26.1 28.0 27.8	22. 9 26. 5 26. 5	114.9 121.5 115.0	68.5 72.0 66.3	46. 4 49. 6 48. 8	38.3 38.7 36.4	76.1 78.0 79.9	55.4 57.1 60.7	55.1 56.7 57.2	68.5 69.0 73.1	11.1 12.0 14.1
1950 1951 1952 1953 1953	533.5 576.5 598.5 621.8 613.7	29. 1 28. 2 29. 0 30. 3 31. 1	29. 3 32. 5 33. 8 34. 8 36. 0	131.3 146.0 150.7 161.2 149.6	78.1 89.9 94.3 102.6 91.7	53.2 56.1 56.4 58.6 57.9	39.6 44.2 44.3 45.9 45.6	87.6 88.3 91.1 94.0 94.6	64.4 66.7 71.1 74.0 77.7	59.4 60.6 61.6 63.0 63.1	75. 4 89. 8 96. 6 96. 4 94. 9	17.5 20.2 20.2 22.3 21.1
1955 1956 1957 1957 1958 1959	654, 8 668, 8 680, 9 679, 5 720, 4	31. 9 31. 4 30. 8 32. 0 30. 9	38. 2 40. 9 40. 9 42. 1 45. 5	165.8 166.9 167.8 153.3 170.7	103. 4 102. 5 102. 9 88. 8 100. 7	62.4 64.4 64.9 64.5 70.0	49. 4 52. 3 53. 4 52. 2 55. 7	103.2 106.2 108.0 107.9 115.8	82.0 85.7 89.8 93.5 98.1	67.5 71.1 73.3 75.8 80.3	95. 4 97. 6 100. 1 101. 7 103. 6	21.4 16.6 16.8 21.0 20.0
1960 1961 1962 1963 1964	736.8 755.3 799.1 830.7 874.4	32. 2 32. 3 32. 3 32. 8 32. 8 32. 1	46. 1 46. 6 48. 3 49. 8 53. 7	172.0 171.2 186.2 201.0 215.7	101. 5 99. 3 110. 1 119. 0 129. 3	70.5 72.0 76.2 82.1 86.4	58. 0 59. 1 62. 1 65. 6 68. 9	117.9 119.2 126.7 131.7 139.7	101. 9 106. 8 115. 3 115. 3 119. 3	82, 2 85, 4 88, 6 92, 2 96, 9	107, 2 111, 1 115, 1 118, 3 122, 6	19.4 23.6 24.5 24.1 25.6
1965 1966 1967 1968 1968	925. 9 981. 0 1, 007. 7 1, 051. 8 1, 078. 8	33.0 31.3 32.6 32.4 33.0	57.0 59.0 59.5 62.5 61.2	235, 1 254, 0 254, 1 268, 4 276, 2	144.1 157.0 157.2 165.5 169.1	91.0 97.0 96.9 102.9 107.2	74. 3 80. 0 82. 3 88. 2 92. 9	148.6 156.9 160.7 170.6 174.5	127.2 131.4 136.5 142.9 149.3	101. 2 106. 5 112. 7 116. 3 121. 4	127.4 136.4 143.5 148.1 151.8	22, 1 25, 4 25, 7 22, 4 18, 4
1970 1971 1972 1973 1974	1, 1/1, 1 1, 235, 0	34. 3 36. 1 35. 4 35. 9 35. 7	57. 1 57. 1 58. 0 58. 3 56. 0	260, 6 264, 1 288, 8 313, 0 291, 9	154, 4 155, 3 171, 9 189, 0 176, 0	106. 2 108. 7 116. 8 124. 1 115. 9	95. 1 97. 3 103. 6 112. 6 112. 4	178.4 186.8 201.2 212.0 205.7	152.9 160.6 167.3 171.1 180.3	124.7 126.6 134.5 143.1 144.7	152.0 153.1 154.9 157.3 160.0	20.4 25.7 27.7 31.6 31.1
1975 1976	1, 202. 1 1, 274. 7	37. 1 36. 8	50. 5 55. 3	273. 3 304. 9	161. 1 180. 6	112. 1 124. 3	112. 8 116. 9	208.7 219.5	182.6 193.9	145.0 152.3	162.7 164.0	29.5 31.1

[Billions of 1972 dollars]

¹ Mining, rest of world, and residual (GNP in 1972 dollars measured as the sum of final products less GNP in 1972 dollars measured as the sum of gross product by industry).

Note.—The industry classification is on an establishment basis and is based on the 1972 Standard Industrial Classification. Source: Department of Commerce, Bureau of Economic Analysis.

TABLE E-6.-Gross national product by major type of product, 1929-77

							Goods						
Year or quar-	Gross national product	Final sales	inven- tory		Total			able ods		urable ods	Serv- ices	Struc- tures	Auto out- put
ter	product		change	Total	Final sales	inven- tory change	Final sales	Inven- tory change	Final sales	Inven- tory change			por
1929	103. 4	101. 7	1.7	56.1	54.4	1.7	16. 1	1. 4	38. 3	0.3	35. 9	11. 4	
1933	55. 8	57.4	-1.6	27.0	28.6	-1.6	5.4	5	23. 2	-1.1	25 . 9	2.9	
1939	90. 8	90. 4	.4	49.0	48.6	. 4	12. 4	. 3	36. 2	.1	34. 3	7.5	
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949	100. 0 124. 9 158. 3 192. 0 210. 5 212. 3 209. 6 232. 8 259. 1 258. 0	97. 8 120. 4 156. 5 192. 5 211. 5 213. 4 203. 2 233. 2 254. 4 261. 1	2.2 4.5 1.8 6 -1.0 -1.0 6.4 5 4.7 -3.1	56. 0 72. 5 93. 7 120. 4 132. 3 128. 9 125. 3 139. 8 154. 4 147. 7	53.8 68.0 91.9 121.0 138.3 129.9 118.9 140.3 149.7 150.8	$\begin{array}{c} 2.2 \\ 4.5 \\ 1.8 \\6 \\ -1.0 \\ -1.0 \\ 6.4 \\5 \\ 4.7 \\ -3.1 \end{array}$	15. 4 23. 8 34. 5 54. 2 58. 5 50. 1 31. 8 44. 1 46. 9 48. 3	$ \begin{array}{c} 1.2\\ 3.1\\ 1.0\\ -0\\6\\ -1.3\\ 5.3\\ 1.7\\ .7\\ -2.1 \end{array} $	38. 4 44. 2 57. 4 66. 8 74. 8 79. 8 87. 1 96. 2 102. 8 102. 5	$ \begin{array}{c} 1.0\\ 1.4\\ .7\\6\\3\\ .2\\ 1.1\\ -2.2\\ 4.0\\ -1.0 \end{array} $	35. 7 40. 6 50. 6 62. 9 72. 2 76. 9 68. 6 71. 3 76. 7 81. 9	8.3 11.8 14.0 8.7 6.1 6.5 15.7 21.7 28.0 28.4	 7. 3 8. 9 12. 0
1950 1951 1952 1953 1954 1955 1956 1957 1958 1958	286. 2 330. 2 347. 2 366. 1 366. 3 399. 3 420. 7 442. 8 448. 9 486. 5	279. 4 319. 9 344. 0 365. 7 367. 8 393. 3 416. 0 441. 4 450. 4 481. 2	6.8 10.3 3.1 -1.5 6.0 4.7 1.3 -1.5 5.2	162. 4 189. 5 194. 6 203. 1 196. 1 214. 5 223. 3 232. 3 232. 3 228. 2 247. 4	155. 6 179. 2 191. 5 202. 7 197. 6 208. 5 218. 6 231. 0 229. 7 242. 2	$ \begin{array}{r} 6.8 \\ 10.3 \\ 3.1 \\ .4 \\ -1.5 \\ 6.0 \\ 4.7 \\ 1.3 \\ -1.5 \\ 5.2 \\ \end{array} $	54. 7 62. 5 67. 6 71. 5 69. 0 78. 2 82. 3 87. 3 80. 5 87. 4	4.1 6.9 1.1 .9 -2.5 3.0 2.8 1.3 -2.8 2.7	100. 9 116. 7 123. 9 131. 2 128. 7 130. 3 136. 3 143. 7 149. 2 154. 8	2.7 3.4 2.0 5 1.0 2.9 1.9 1.3 2.5	88. 2 102. 9 113. 1 121. 0 125. 7 135. 3 145. 2 157. 5 166. 9 179. 5	35. 6 37. 8 39. 4 42. 0 44. 5 52. 2 53. 0 53. 8 59. 5	15. 5 13. 4 12. 2 16. 3 14. 9 21. 5 17. 2 19. 6 14. 6 19. 6
1960 1961 1962 1963 1964 1965 1966 1967 1968 1968	506. 0 523. 3 563. 8 594. 7 635. 7 688. 1 753. 0 796. 3 868. 5 935. 5	502. 2 521. 1 557. 3 629. 9 678. 6 738. 7 786. 2 860. 8 926. 2	3.8 2.2 6.5 6.0 5.8 9.5 14.3 10.1 7.7 9.4	254. 3 256. 5 278. 0 289. 7 309. 0 336. 6 373. 9 387. 3 418. 9 446. 2	250. 6 254. 3 271. 5 283. 7 303. 2 327. 1 359. 6 377. 2 411. 2 436. 8	3.8 2.2 6.5 6.0 5.8 9.5 14.3 10.1 7.7 9.4	89. 1 90. 2 98. 4 105. 4 115. 0 127. 0 139. 0 143. 5 157. 4 169. 2	2.4 1 3.6 2.7 3.9 6.6 10.0 5.3 5.0 6.1	161. 4 164. 1 173. 2 178. 3 188. 2 200. 1 220. 6 233. 7 253. 8 267. 6	1.4 2.3 2.9 3.3 1.9 2.9 4.3 4.8 2.8 3.3	193. 2 206. 7 221. 5 236. 2 254. 4 272. 7 297. 7 326. 1 356. 6 388. 7	58. 4 60. 1 64. 3 68. 9 72. 4 78. 8 81. 4 82. 9 93. 0 100. 7	21. 6 18. 1 22. 9 25. 6 26. 5 31. 8 31. 1 28. 8 36. 6 36. 8
1970 1971 1972 1973 1974 1975 1976 1977 P	982. 4 1, 063. 4 1, 171. 1 1, 306. 6 1, 412. 9 1, 528. 8 1, 706. 5 1, 890. 4	978.6 1,057.1 1,161.7 1,288.6 1,404.0 1,540.3 1,693.1 1,872.7	3.8 6.4 9.4 17.9 8.9 -11.5 13.3 17.8	456. 2 479. 8 526. 0 598. 8 638. 6 686. 2 764. 2 834. 5	452. 4 473. 5 516. 6 580. 9 629. 7 697. 7 750. 9 816. 8	3.8 6.4 9.4 17.9 8.9 -11.5 13.3 17.8	170. 7 179. 8 202. 1 229. 6 240. 8 267. 5 299. 3 333. 2	.0 1.8 6.3 10.9 7.1 -9.2 4.1 8.8	281. 7 293. 7 314. 5 351. 3 389. 0 430. 2 451. 6 483. 5	3.7 4.6 3.2 7.0 1.8 -2.2 9.3 9.0	424. 6 465. 5 510. 8 560. 5 626. 8 699. 2 782. 0 868. 4	101. 6 118. 1 134. 3 147. 2 147. 4 143. 5 160. 2 187. 5	30. 6 42. 2 45. 1 50. 7 42. 9 46. 2 62. 9 72. 8
1975: V	1, 453. 0 1, 496. 6 1, 564. 9 1, 600. 7	1, 475. 0 1, 521. 7 1, 560. 0 1, 604. 4	-22.0 -25.1 4.9 -3.6	643. 8 667. 8 711. 5 721. 6	665. 8 692. 9 706. 6 725. 2	-22.0 -25.1 4.9 -3.6	250. 6 263. 8 272. 5 283. 1	12. 8 11. 7 2. 1 10. 3	415. 2 429. 1 434. 2 442. 1	9.2 13.4 7.0 6.7	670. 5 689. 5 708. 4 728. 3	138. 8 139. 3 145. 0 150. 8	36. 2 44. 0 51. 9 52. 5
1976: 1 11 111 111 IV	1, 651. 2 1, 691. 9 1, 727. 3 1, 755. 4	1, 636. 7 1, 673. 7 1, 705. 8 1, 756. 3	14.5 18.3 21.5 9	744.6 761.7 776.0 774.7	730. 0 743. 4 754. 5 775. 6	14. 5 18. 3 21. 5 9	287.6 294.9 302.7 312.0	2.0 7.0 10.7 .6	442. 4 448. 5 451. 8 463. 6	16. 6 11. 2 10. 9 -1. 6	751.6 770.8 791.8 813.8	155. 0 159. 4 159. 6 166. 9	61. 1 63. 5 60. 9 66. 1
1977: 	1, 810. 8 1, 869. 9 1, 915. 9 1, 965. 1	1, 797. 0 1, 848. 2 1, 892. 2 1, 953. 2	13.8 21.7 23.6 11.9	805. 9 827. 1 843. 5 861. 5	792. 1 805. 4 819. 9 849. 6	13. 8 21. 7 23. 6 11. 9	326. 6 329. 5 332. 1 344. 9	7.8 11.5 10.3 5.5	465. 6 475. 9 487. 8 504. 8	6.0 10.2 13.4 6.4	833.7 855.3 881.6 903.1	171. 2 187. 5 190. 7 200. 4	74. 1 73. 2 70. 8 73. 2

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

							Goods						
Year or quar-	Gross national	Final	Inven-		Total			able ods		urable ods	Serv- ices	Struc- tures	Auto out- put
ter	product	sales	change	Total	Final sales	Inven- tory change	Final sales	Inven- tory change	Final sales	Inven- tory change			
1929	314.7	310.0	4.6	143.9	139.3	4.6	40.7	3, 5	98.6	1.1	126.8	44.0	
1933	222, 1	227.0	-4.9	97.2	102.1	-4.9	17.6	-2.1	84.5	-2.8	110.9	14.0	
1939	319. 7	318.1	1.6	153.9	152.3	1.6	35.6	.7	116.7	. 9	134.6	31.2	
1940 1941 1942 1943 1944 1945 1946 1948 1948 1949	343, 6 396, 6 454, 6 527, 3 567, 0 559, 0 477, 0 468, 3 487, 7 490, 7	337, 4 384, 6 449, 4 527, 3 569, 3 562, 6 464, 9 468, 5 482, 2 495, 1	6.2 12.0 5.2 -2.3 -3.6 12.2 2 5.5 -4.4	171. 2 197. 4 221. 1 263. 5 286. 8 279. 2 238. 0 236. 8 244. 2 239. 9	165.0 185.4 215.9 263.4 289.1 282.8 225.8 237.0 238.7 244.3	6. 2 12. 0 5. 2 -2. 3 -3. 6 12. 2 5. 5 -4. 4	43. 1 57. 5 76. 0 119. 3 135. 9 121. 9 60. 5 74. 9 75. 6 76. 1	3.4 8.2 3.5 -7 -1.8 -3.7 10.8 1.8 1.5 -3.7	121.8 127.9 140.0 144.1 153.2 161.0 165.3 162.1 163.1 168.2	2.8 3.8 1.7 6 5 .1 1.3 -2.0 4.0 8	139.5 157.6 192.7 240.9 263.6 261.9 199.7 186.9 190.9 197.0	32. 9 41. 5 40. 7 23. 0 16. 6 17. 9 39. 4 44. 7 52. 5 53. 7	 12.9 14.7 18.9
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	533.5 576.5 598.5 621.8 613.7 654.8 668.8 680.9 679.5 720.4	522.9 562.8 594.2 620.3 615.8 647.1 663.0 679.4 681.3 714.0	10.6 13.7 4.3 1.5 -2.2 7.7 5.8 1.5 -1.8 6.5	261. 5 283. 1 292. 3 306. 9 292. 2 316. 3 320. 9 321. 8 312. 0 332. 5	250. 9 269. 4 288. 0 305. 4 294. 4 308. 6 315. 1 320. 3 313. 8 326. 1	10.6 13.7 4.3 1.5 -2.2 7.7 5.8 1.5 -1.8 6.5	84. 4 92. 6 100. 6 105. 9 101. 7 112. 9 113. 5 114. 6 104. 8 110. 6	6.3 9.8 1.8 1.4 -3.6 4.2 3.7 1.5 -3.4 3.3	166. 5 176. 8 187. 4 199. 5 192. 7 195. 7 201. 6 205. 6 209. 0 215. 5	4.2 3.9 2.5 .1 1.4 3.5 2.1 .0 1.6 3.2	206. 0 229. 0 240. 6 245. 5 247. 0 257. 6 267. 2 279. 3 285. 6 298. 0	66. 0 64. 4 65. 6 69. 4 74. 5 80. 9 80. 7 79. 9 81. 9 89. 9	24.0 20.4 18.4 23.9 22.9 31.3 24.4 25.8 20.0 24.7
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969	736.8 755.3 799.1 830.7 874.4 925.9 981.0 1,007.7 1,051.8 1,078.8	732. 4 752. 4 791. 0 823. 0 867. 1 914. 6 964. 3 995. 7 1, 043. 1 1, 068. 2	4.4 2.9 8.1 7.8 7.3 11.3 16.7 12.0 8.7 10.6	337.1 338.1 362.0 373.0 394.0 421.5 455.6 461.9 481.1 492.3	332.8 335.2 353.8 365.2 386.7 410.2 438.9 449.9 472.4 481.7	4.4 2.9 8.1 7.8 7.3 11.3 16.7 12.0 8.7 10.6	111. 6 112. 6 121. 1 128. 4 139. 2 152. 6 165. 2 166. 6 175. 7 183. 3	2.9 1 4.4 3.4 5.0 8.0 11.9 6.4 5.6 6.8	221. 2 222. 7 232. 7 236. 8 247. 5 257. 7 273. 7 283. 3 296. 7 298. 4	1.5 3.0 3.7 4.3 2.3 3.3 4.8 5.6 3.2 3.7	310.7 325.5 339.9 354.0 372.2 389.1 410.2 432.7 449.9 465.4	89.0 91.7 97.2 103.8 108.1 115.3 115.2 113.1 120.9 121.1	26, 8 22, 6 27, 5 30, 3 31, 1 37, 4 36, 7 33, 5 40, 6 40, 0
1970 1971 1972 1973 1974 1976 1976 1977 p.	1,075.3 1,107.5 1,171.1 1,235.0 1,217.8 1,202.1 1,274.7 1,337.6	1,071.0 1,100.9 1,161.7 1,218.5 1,209.9 1,212.0 1,266.2 1,326.1	4.3 6.6 9.4 16.5 8.0 -9.9 8.5 11.6	483, 4 491, 6 526, 0 569, 0 554, 2 538, 8 580, 1 612, 9	479. 1 484. 9 516. 6 552. 5 546. 2 548. 7 571. 6 601. 3	4.3 6.6 9.4 16.5 -9.9 8.0 -9.9 11.6	179. 1 181. 5 202. 1 225. 9 222. 7 219. 2 232. 4 248. 4	.1 1.8 6.2 10.6 5.6 -7.2 2.8 5.9	300. 0 303. 4 314. 5 326. 6 323. 5 329. 5 339. 3 353. 0	4.2 4.8 3.2 5.9 2.4 -2.7 5.7 5.7	477.2 491.1 510.8 531.1 546.4 560.7 584.7 606.7	114.6 124.9 134.3 134.8 117.2 102.7 109.9 118.0	32.5 42.1 45.1 50.6 40.1 39.8 50.1 55.7
1975: V	1, 169. 8 1, 188. 2 1, 220. 7 1, 229. 8	1, 189. 7 1, 206. 2 1, 217. 8 1, 234. 4	-20.0 -18.0 2.9 -4.6	516. 8 529. 7 553. 9 554. 7	536.7 547.8 551.0 559.3	-20.0 -18.0 2.9 -4.6	212.9 216.9 221.0 226.1	-11.4 -9.3 -1.1 -7.3	323. 8 330. 9 330. 0 333. 2	-8.6 -8.8 3.9 2.7	552.3 558.3 563.5 568.5	100.7 100.1 103.3 106.6	32. 2 38. 4 44. 7 44. 0
1976: V	1, 256. 0 1, 271. 5 1, 283. 7 1, 287. 4	1, 246. 3 1, 259. 4 1, 269. 8 1, 289. 2	9.7 12.1 13.8 1.8	571.8 579.8 586.9 581.9	562. 1 567. 6 573. 0 583. 7	9.7 12.1 13.8 1.8	228. 1 230. 9 233. 5 237. 0	-1.2 5.0 7.2 .1	334. 0 336. 8 339. 5 346. 7	10.8 7.1 6.6 -1.9	575. 4 581. 7 587. 9 593. 6	108.7 110.1 108.8 111.9	49.9 51.1 48.2 51.2
1977 : V ?	1, 311. 0 1, 330. 7 1, 347. 4 1, 361. 4	1, 301. 2 1, 317. 5 1, 331. 8 1, 353. 8	9.7 13.2 15.7 7.7	602. 4 608. 5 617. 0 623. 7	592.7 595.3 601.3 616.1	9.7 13.2 15.7 7.7	246. 7 247. 4 246. 8 252. 7	5.6 7.3 6.7 3.8	346. 0 347. 9 354. 5 363. 4	4.2 5.8 9.0 3.8	597. 1 602. 9 611. 1 615. 6	111.5 119.3 119.4 122.1	56, 8 56, 4 54, 6 54, 9

TABLE B-7.-Gross national product by major type of product in 1972 dollars, 1929-77 [Billions of dollars; quarterly data at seasonally adjusted annual rates]

Source: Department of Commerce, Bureau of Economic Analysis.

Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis

TABLE B-8. Gross national product: Receipts and expenditures by major economic groups, 1929-77

[Billions of dollars]

			Persons					G	overnme	nt		
	Dispo	sable pe income	rsonal			1	let receip	pts	E	xpenditu	res	Sur- plus
Year or quarter	Total '	Less: Inter- est paid and trans- fers *	Equals: Total exclud- ing in- terest paid and trans- fers	Per- sonal con- sump- tion ex- pendi- tures	Per- sonal saving or dis- saving (-)	Tax and non- tax ré- ceipts or ac- cruals	Less: Trans- fers, inter- est, and sub- sidies 3	Equals: Net r0- ceipts	Total ex- pendi- tures	Less: Trans- fers, inter- est, and sub- sidies 3	Equals : Pur- chases of goods and serv- ices	or deficit (-), na- tional in- come and prod- uct ac- counts
1929	82.3	1.9	80.4	77.3	3. 1	11.3	1.5	9.8	10.3	1.5	8.8	1.0
1933	45. 5	.7	44.8	45. 8	-1.0	9, 3	2.5	6.9	10.7	2.5	8.2	-1.4
1939	69. 9	.9	69.1	67.0	2.1	15.4	4, 1	11. 3	17.6	4.1	13.5	-2.2
1940 1941 1943 1943 1945 1946 1947 1947 1948	75. 2 92. 0 116. 5 132. 9 145. 5 149. 0 158. 6 168. 4 187. 4 187. 1	1.0 1.1 .8 .7 .8 .9 1.4 1.7 2.1 2.3	74. 3 91.0 115. 6 132. 1 144. 6 148. 0 157. 3 166. 7 185. 3 184. 9	71.0 80.8 88.6 99.4 108.2 119.5 143.8 161.7 174.7 178.1	3. 3 10. 2 27. 0 32. 7 36. 5 28. 5 13. 4 4. 9 10. 6 6. 7	17.7 25.0 32.6 49.2 51.2 53.2 51.0 56.9 58.9 55.9	4.3 3.8 4.2 4.4 6.0 9.9 18.0 17.1 18.5 20.9	13. 5 21. 2 28. 4 44. 7 45. 2 43. 3 33. 0 39. 9 40. 4 35. 0	18. 4 28. 8 64. 0 93. 3 103. 0 92. 7 45. 6 42. 5 50. 5 59. 3	4.3 3.8 4.2 4.4 6.0 9.9 18.0 17.1 18.5 20.9	14. 2 24. 9 59. 8 88. 9 97. 0 82. 8 27. 5 25. 5 32. 0 38. 4	$\begin{array}{c}7 \\ -3.8 \\ -31.4 \\ -44.1 \\ -51.8 \\ -39.5 \\ 5.4 \\ 14.4 \\ 8.4 \\ -3.4 \end{array}$
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	205. 5 224. 8 236. 4 250. 7 255. 7 273. 4 291. 3 306. 9 317. 1 336. 1	2.7 2.9 3.3 4.0 4.3 4.8 5.6 5.9 6.0 6.5	202. 8 221. 9 233. 1 246. 6 251. 4 268. 6 285. 7 301. 0 311. 1 329. 6	192. 0 207. 1 217. 1 229. 7 235. 8 253. 7 266. 0 280. 4 289. 5 310. 8	10.8 14.8 16.0 17.0 15.6 14.9 19.7 20.6 21.7 18.8	69.0 85.2 90.1 94.6 89.9 101.1 109.7 116.2 115.0 129.4	22.5 19.1 18.3 19.0 21.3 23.0 25.1 28.2 32.6 33.4	46.5 66.2 71.8 75.6 68.6 78.1 84.6 88.0 82.4 96.0	61.0 79.2 93.9 101.6 97.0 98.0 104.5 115.3 127.6 131.0	22.5 19.1 18.3 19.0 21.3 23.0 25.1 28.2 32.6 33.4	38.5 60.1 75.6 82.5 75.8 75.0 79.4 87.1 95.0 97.6	8.0 6.1 3.8 6.9 7.1 3.1 5.2 12.6 1.6
1960 1961 1963 1963 1965 1965 1966 1967 1968 1968	349, 4 362, 9 383, 9 402, 8 437, 0 472, 2 510, 4 544, 5 588, 1 630, 4	7.4 7.7 8.3 9.4 10.5 11.7 12.6 13.3 14.1 15.6	342.0 355.2 375.6 393.4 426.5 460.4 497.8 531.2 574.0 614.8	324. 9 335. 0 355. 2 374. 6 400. 4 430. 2 464. 8 490. 4 535. 9 579. 7	17. 1 20. 2 20. 4 18. 8 26. 1 30. 3 33. 0 40. 9 38. 1 35. 1	139. 5 144. 8 156. 7 168. 5 174. 0 188. 3 212. 3 228. 2 263. 4 296. 3	36.1 40.9 42.4 44.1 46.5 49.5 54.9 62.2 70.2 77.8	103. 4 103. 9 114. 3 124. 4 127. 5 138. 9 157. 4 166. 0 193. 2 218. 5	136. 4 149. 1 160. 5 167. 8 176. 3 187. 8 213. 6 242. 4 268. 9 285. 6	36.1 40.9 42.4 44.1 46.5 49.5 54.9 62.2 70.2 77.8	100. 3 108. 2 118. 0 123. 7 129. 8 138. 4 158. 7 180. 2 198. 7 207. 9	$\begin{array}{r} 3.1 \\ -4.3 \\ -3.8 \\ -7 \\ -2.3 \\ -1.3 \\ -14.2 \\ -5.5 \\ 10.7 \end{array}$
1970 1971 1972 1973 1974 1975 1976 1977 p	685. 9 742. 8 801. 3 901. 7 984. 6 1, 084. 4 1, 185. 8 1, 308. 6	16. 6 17. 3 18. 9 21. 5 23. 4 23. 8 25. 9 30. 7	669.4 725.5 782.4 880.2 961.3 1,060.6 1,159.9 1,277.9	618. 8 668. 2 733. 0 809. 9 889. 6 980. 4 1, 094. 0 1, 210. 1	70.3 71.7 80.2 65.9	302. 6 322. 2 367. 4 411. 2 455. 1 468. 0 535. 9 600. 8	93.1 106.8 117.8 135.4 155.6 193.4 210.1 226.2	209. 5 215. 5 249. 6 275. 8 299. 5 274. 6 325. 8 374. 6	311. 9 340. 5 370. 9 404. 9 458. 2 532. 3 571. 5 621. 2	93. 1 106. 8 117. 8 135. 4 155. 6 193. 4 210. 1 226. 2	218.9 233.7 253.1 269.5 302.7 338.9 361.4 395.0	-9.4 -18.3 -3.5 6.3 -3.2 -64.3 -35.6 -20.4

See footnotes at end of table.

TABLE B-8.—Gross national product: Receipts and expenditures by major economic groups, 1929-77—Continued

[Billions of dollars]

		Busines	s		I	nternatio	nal				
			F	Net	Net e a	xports of nd servic	i goods ces	Excess of net		Statis-	Gross .na-
Year or quarter	Gross re- tained earn- ings 4	Gross pri- vate do- mestic invest- ment ⁵	Excess of earn- ings or of in- vest- ment (-)	trans- fers and inter- est paid to for- eigners (⁶)	Ex- ports	Less: Im- ports	Equals: Net ex- ports	trans- fers and inter- est or of net ex- ports (-) ⁷	Total income or re- ceipts	tical dis- crep- ancy	tional prod- uct or ex- pendi- ture
1929	11.7	16. 2	-4.4	0.4	7.0	5.9	1.1	-0.7	102. 3	1.1	103. 4
1933	3. 2	1.4	1.8	. 2	2.4	2.0	.4	2	55, 1	.7	55, 8
1939	8, 8	9.3	5	.2	4.4	3.4	1, 1	9	89.4	1.4	90.8
1940	10. 9 12. 0 14. 8 16. 7 17. 7 16. 0 15. 8 21. 8 30. 0 31. 4	13. 1 17. 9 9. 9 5. 8 7. 2 10. 6 30. 7 34. 0 45. 9 35. 3	-2.2 -5.8 4.9 10.9 10.5 5.4 -14.9 -12.1 -15.8 -3.8	.22.22 .22.23 .2.389 .2.4.56 5.6	5.4 5.9 4.8 4.4 5.3 7.2 14.8 19.8 16.9 15.9	3.6 4.6 4.8 6.5 7.1 7.8 7.2 8.2 10.4 9.6	1.7 1.3 .0 -2.0 -1.8 6 7.6 11.6 6.5 6.2	$\begin{array}{c} -1.5 \\ -1.1 \\ .2 \\ 2.2 \\ 2.1 \\ 1.4 \\ -4.6 \\ -9.0 \\ -2.0 \\6 \end{array}$	98. 9 124. 3 159. 1 193. 8 207. 8 208. 2 208. 9 231. 0 260. 3 257. 0	1.1 .5 8 -1.8 2.7 4.1 .7 1.8 -1.2 1.0	100. 0 124. 9 158. 3 192. 0 210. 5 212. 3 209. 6 232. 8 259. 1 258. 0
1950 1951 1952 1954 1954 1955 1955 1957 1958 1959	30. 8 34. 6 37. 1 38. 0 41. 0 47. 5 48. 7 51. 1 51. 3 58. 5	53.8 59.2 52.1 53.3 52.7 68.4 71.0 69.2 61.9 77.6	$\begin{array}{r} -23.0 \\ -24.6 \\ -15.1 \\ -15.3 \\ -11.7 \\ -20.8 \\ -22.3 \\ -18.1 \\ -10.6 \\ -19.0 \end{array}$	4.05 3.265 2.255 2.55 2.55 4.6	13. 9 18. 9 18. 2 17. 1 18. 0 20. 0 23. 9 26. 7 23. 3 23. 7	12. 0 15. 1 15. 8 16. 6 16. 0 17. 8 19. 6 20. 7 20. 8 23. 2	1.9 3.8 2.4 2.0 2.2 4.3 6.1 2.5 .6	$\begin{array}{c} 2.1 \\3 \\ .2 \\ 1.9 \\ .3 \\ -1.8 \\ -3.6 \\1 \\ 2.0 \end{array}$	284. 1 326. 2 344. 5 362. 8 363. 3 396. 8 421. 5 442. 6 447. 2 486. 7	2.0 4.0 2.7 3.3 3.0 2.5 8 1.7 2	286, 2 330, 2 347, 2 366, 1 366, 3 399, 3 420, 7 442, 8 448, 9 486, 5
1960 1961 1962 1963 1964 1965 1965 1966 1967 1968 1969	58.7 59.8 67.0 70.1 76.2 84.6 91.2 93.7 98.2 101.7	76.4 74.3 85.2 90.2 96.6 112.0 124.5 120.8 131.5 146.2	$\begin{array}{r} -17.7 \\ -14.5 \\ -20.1 \\ -20.4 \\ -27.4 \\ -33.3 \\ -27.1 \\ -33.3 \\ -44.5 \end{array}$	2.6 2.0 3.1 3.3 3.5 3.7 3.6 3.8	27.6 28.9 30.6 32.7 37.4 39.5 42.8 45.6 49.9 54.7	23. 2 23. 1 25. 2 26. 4 28. 4 32. 0 37. 7 40. 6 47. 7 52. 9	4.4 5.8 5.4 6.3 7.6 5.1 4.9 2.3 1.8	$\begin{array}{c} -1.7 \\ -3.0 \\ -2.4 \\ -3.2 \\ -5.7 \\ -4.3 \\ -1.6 \\ -1.2 \\ 1.4 \\ 2.0 \end{array}$	506. 7 521. 7 559. 8 591. 0 633. 5 687. 2 749. 8 794. 6 869. 1 938. 8	7 1.6 4.0 3.7 2.2 .9 3.2 1.7 6 -3.3	506.0 523.3 563.8 594.7 635.7 688.1 753.0 796.3 868.5 935.5
1970	140.2 137.9 179.2 206.6	140. 8 160. 0 188. 3 220. 0 214. 6 189. 1 243. 3 294. 3	-39.5 -44.3 -57.3 -79.8 -76.7 -9.9 -36.8 -67.4	4.3 5.5 6.5 7.7 8.5 8.5 8.7 10.0	62. 5 65. 6 72. 7 101. 6 137. 9 147. 3 162. 9 175. 6	58.5 64.0 75.9 94.4 131.9 126.9 155.1 184.7	3.9 1.6 3.3 7.1 6.0 20.4 7.8 9.0	.3 3.9 9.8 .6 2.5 -11.8 .9 19.1	984. 5 1, 062. 1 1, 169. 4 1, 303. 9 1, 407. 1 1, 523. 0 1, 701. 0 1, 889. 4	-2.1 1.3 1.7 2.6 5.8 5.9 5.5 1.0	982. 4 1, 063. 4 1, 171. 1 1, 306. 6 1, 412. 9 1, 528. 8 1, 706. 5 1, 890. 4

¹ Personal income less personal tax and nontax payments (fines, penalties, etc.).
 ² Interest paid by consumers to business and net personal transfer payments to foreigners.
 ³ Government transfer payments to persons and foreigners, net interest paid by government, subsidies less current surplus of government enterprises, and disbursements less wage accruals.
 ⁴ Undistributed corporate profits with inventory valuation and capital consumption adjustments, corporate and non-corporate capital consumption adjustment, and private wage accruals less disbursements.
 ⁸ See Table B-14.
 ⁶ Net transfers to foreigners by persons and government and interest paid by government to foreigners.
 ⁷ Capital grants received by the United States (net) less net foreign investment.

TABLE B-9.-Gross national product by sector, 1929-77

				Gre	oss dom	estic pr	oduct					Percent
				Busine	55			Gor	vernme	nt ²		change from preced-
Year or quarter	Gross nationa) product	Total	Total	Non- farm 1	Farm	Sta- tis- tical dis- crep- ancy	House- holds and insti- tutions	Total	Fed- eral	State and local	Rest of the world	ing period, gross domes- tic prod- uct ³
1929	103.4	102.6	95.4	84.7	9.7	1.1	2.9	4.3	0.9	3.5	0.8	
1933	55.8	55.5	49. 1	43. 8	4.6	.7	1.7	4.7	1.2	3.5	.3	-4.1
1939		90. 5	80.6	72. 9	6.3	1.4	2.3	7.6	3.4	4.2	.3	7.0
1940 1941 1942 1943 1943 1944 1945 1946 1946 1947 1948 1949	100. 0 124. 9 158. 3 192. 0 210. 5 212. 3 209. 6 232. 8 259. 1 258. 0	99. 6 124. 5 157. 9 191. 6 210. 1 212. 0 209. 0 231. 8 257. 9 256. 9	89. 4 112. 6 139. 9 162. 8 174. 2 172. 8 183. 8 210. 0 234. 9 231. 5	81.8 103.1 127.7 149.3 156.2 152.7 164.2 188.0 212.7 211.7	6.5 8.9 13.0 15.3 15.3 16.0 18.9 20.2 23.3 18.8	$ \begin{array}{r} 1.1 \\ .5 \\8 \\ -1.8 \\ 2.7 \\ 4.1 \\ .7 \\ 1.8 \\ -1.2 \\ 1.0 \\ \end{array} $	2.4 2.5 2.9 3.2 3.7 4.1 4.5 5.6 5.9	7.8 9.4 15.1 25.6 32.2 35.2 20.8 16.7 17.4 19.4	3.5 5.0 10.6 20.9 27.2 29.8 14.6 9.4 8.9 10.0	4.3 4.4 4.5 4.7 4.9 5.4 6.2 7.3 8.5 9.4	.4 .4 .3 .4 .3 .5 .9 1.2 1.1	10.1 25.0 26.8 21.4 9.6 .9 -1.4 10.9 11.3 4
1950 1951 1952 1953 1954 1955 1956 1957 1957 1958 1959	286. 2 330. 2 347. 2 366. 1 366. 3 399. 3 420. 7 442. 8 448. 9 486. 5	284. 8 328. 7 345. 7 364. 6 364. 5 397. 3 418. 5 440. 5 446. 6 484. 0	257. 5 294. 4 307. 3 324. 9 323. 9 354. 0 372. 1 390. 8 393. 1 427. 7	235.5 267.4 282.5 301.2 301.3 332.8 354.3 372.3 370.7 408.9	20.0 22.9 22.2 20.3 19.6 18.8 18.6 18.4 20.7 19.1	2.0 4.0 2.7 3.3 3.0 2.5 8 .2 1.7 2	6.4 6.9 7.2 7.8 8.1 9.1 9.8 10.5 11.4 12.3	20. 9 27. 4 31. 2 31. 9 32. 5 34. 2 36. 6 39. 1 42. 1 44. 0	10.7 16.2 18.9 18.6 17.8 18.4 19.0 19.6 20.5 20.9	10. 1 11. 2 12. 3 13. 3 14. 7 15. 8 17. 6 19. 6 21. 6 23. 1	1.3 1.5 1.5 1.5 1.8 2.0 2.2 2.3 2.2 2.4	10.9 15.4 5.2 0 9.0 5.3 5.2 0 9.0 5.3 5.2 1.4 8.4
1960 1961 1962 1963 1964 1965 1966 1966 1967 1968 1968	- 506.0 - 523.3 - 563.8 - 594.7 - 635.7 - 688.1 - 753.0 - 796.3 - 868.5 - 935.5	503. 5 520. 2 560. 2 591. 1 631. 4 683. 4 748. 8 791. 8 863. 7 931. 1	442. 5 455. 3 490. 4 516. 5 550. 7 596. 6 651. 1 682. 7 742. 2 798. 1	423. 0 433. 4 465. 9 492. 2 529. 2 573. 8 625. 0 658. 8 720. 2 776. 2	20. 2 20. 2 20. 5 20. 5 19. 3 22. 0 22. 9 22. 2 22. 6 25. 2	7 1.6 4.0 3.7 2.2 .9 3.2 1.7 6 -3.3	13. 8 14. 4 15. 5 16. 6 17. 8 17. 8 21. 1 23. 9 26. 4 29. 2	47.1 50.5 54.3 58.0 62.9 67.6 76.5 85.1 95.2 103.7	21.7 22.6 24.1 25.2 27.0 28.3 32.4 35.6 39.3 41.8	25. 5 27. 9 30. 2 32. 9 35. 9 39. 3 44. 1 49. 5 55. 9 61. 9	2.5 3.1 3.6 3.7 4.3 4.7 4.2 4.6 4.8 4.5	4.0 3.3 7.7 5.5 6.8 8.2 9.6 5.7 9.1 7.8
1970 1971 1972 1973 1974 1975 1976 1977 p	982. 4 1, 063. 4 1, 171. 1 1, 306. 6 1, 412. 9 1, 528. 8 1, 706. 5 1, 890. 4	977. 8 1, 056. 8 1, 164. 1 1, 297. 5 1, 399. 8 1, 518. 3 1, 692. 1 1, 872. 9	831. 5 896. 9 989. 5 1, 108. 0 1, 193. 7 1, 289. 6 1, 444. 3 1, 604. 1	807.6 867.9 955.8 1,055.2 1,139.9 1,234.6 1,390.9 1,552.8	25. 9 27. 7 32. 0 50. 1 48. 0 49. 2 47. 9 50. 3	-2.1 1.3 1.7 2.6 5.8 5.9 5.5 1.0	31. 6 34. 7 37. 2 40. 5 44. 8 50. 4 56. 2 63. 0	114. 7 125. 2 137. 4 149. 1 161. 4 178. 2 191. 6 205. 8	44.7 46.8 50.1 51.9 54.9 59.0 62.4 66.5	70.0 78.5 87.3 97.1 106.5 119.2 129.2 139.4	4.6 6.6 7.0 9.1 13.1 10.5 14.4 17.5	5.0 8.1 10.1 11.5 7.9 8.5 11.4 10.7
1975: I II II II IV	1, 453.0 1, 496.6 1, 564.9 1, 600.7	1, 443. 2 1, 486. 1 1, 553. 9 1, 590. 0	1, 222. 3 1, 260. 1 1, 323. 1 1, 353. 1	1, 173. 2 1, 208. 4 1, 262. 8 1, 294. 1	43. 1 48. 2 52. 3 53. 1	6.0 3.5 8.0 5.9	48. 5 49. 5 51. 0 52. 7	172. 4 176. 5 179. 8 184. 2	58.0 58.3 58.7 61.1	114. 4 118. 2 121. 1 123. 2	9,8 10,5 11,0 10,8	1. 6 12. 4 19. 5 9. 6
	1, 651, 2 1, 691, 9 1, 727, 3 1, 755, 4	1, 637. 0 1, 678. 4 1, 712. 0 1, 740. 9	1, 395. 8 1, 433. 3 1, 463. 0 1, 485. 1	1, 343. 1 1, 378. 0 1, 409. 4 1, 433. 4	48.6 50.9 45.6 46.4	4. 2 4. 5 8. 0 5. 3	54. 4 55. 5 56. 4 58. 3	186. 8 189. 6 192. 6 197. 5	61. 4 61. 6 61. 8 64. 7	125. 4 128. 1 130. 7 132. 8	14.2 13.5 15.3 14.4	12. 4 10. 5 8. 2 6. 9
1977: i Ii IV P		1, 793. 2 1, 851. 4 1, 898. 2 1, 948. 8	1, 532. 3 1, 586. 4 1, 628. 1 1,669. 5	1, 478. 0 1, 536. 7 1, 580. 0	51.0 50.8 47.2 52.0	3.3 1.2 .9	60, 4 62, 0 63, 6 66, 0	200. 5 203. 1 206. 5 213. 2	65. 4 65. 5 65. 8 69. 2	135. 1 137. 6 140. 7 144. 1	17.6 18.4 17.7 16.3	12.6 13.6 10.5 11.1

[Billions of doltars, except as noted; quarterly data at seasonally adjusted annual rates]

Includes compensation of employees in government enterprises.
 Compensation of government employees.
 Changes are based on unrounded data and therefore may differ slightly from those obtained from data shown here.
 See Table B-1 for percent changes in gross national product.

TABLE B-10.-Gross national product by sector in 1972 dollars, 1929-77

[Billions of 1972 dollars, except as noted; quarterly data at seasonally adjusted annual rates]

				Gross	domes	tic pro	duct					Percent
Year or quarter	Gross			Busine	\$\$		House-	Go	vernme	nt³	Rest of the	from preced- ing
	product	Total	Total	Non- farm ¹	Farm	Resid- ual ²	hoids and insti- tutions	Total	Fed- eral	State and local	world	period, gross domestic product 4
1929	314.7	312.8	271.1	244. 2	23.8	3.1	15.6	26.1	5. 2	20.9	1.9	
1933	222.1	220.5	179.7	152.1	25.0	2.6	12. 2	28.7	6.6	22.0	1.6	-2.1
1939		318.6	261.5	231.6	25.3	4.7	15.1	42.0	16.9	25.1	1.2	7.7
1940	343.6 396.6 454.6 527.3 567.0 559.0 477.0 468.3 487.7 490.7	342. 3 395. 4 453. 5 526. 4 566. 0 558. 1 475. 9 466. 7 485. 9 488. 8	282. 4 324. 4 355. 3 381. 9 401. 9 396. 9 385. 1 392. 8 411. 2 409. 4	254. 1 297. 2 330. 3 360. 6 371. 2 365. 3 362. 3 370. 8 387. 2 382. 1	24.7 26.3 28.7 27.8 27.3 25.8 25.8 23.9 25.7 25.5	$\begin{array}{r} 3.6\\ .9\\ -3.8\\ -6.6\\ 3.5\\ 5.8\\ -3.0\\ -1.9\\ -1.7\\ 1.8\end{array}$	16. 1 15. 9 16. 4 15. 2 15. 1 15. 0 15. 1 16. 0 16. 7 17. 3	43.9 55.1 81.8 129.3 149.0 146.2 75.8 57.9 58.0 62.2	18.6 29.6 56.7 105.0 125.2 121.8 49.7 29.8 29.2 31.3	25.3 25.5 25.0 24.4 23.8 24.5 26.1 28.1 28.8 30.9	1.3 1.2 1.1 1.0 1.0 .8 1.1 1.6 1.8 1.9	7.5 15.5 14.7 16.1 7.5 1.4 14.7 1.9 4.1 .6
1950 1951 1952 1953 1954 1955 1956 1957 1958 1958	533.5 576.5 598.5 621.8 613.7 654.8 668.8 680.9 679.5 720.4	531.5 574.7 596.7 619.9 611.4 652.2 666.1 678.0 676.5 717.3	448. 6 477. 2 492. 8 515. 6 508. 0 546. 5 557. 2 566. 0 561. 9 600. 5	417. 9 445. 9 460. 7 480. 6 473. 4 512. 5 529. 3 538. 7 528. 2 569. 6	26. 9 25. 8 26. 3 27. 6 28. 3 29. 2 28. 8 28. 1 29. 3 28. 2	3.8 5.5 7.3 6.2 4.8 8 4.4 2.7	18.3 18.7 18.6 19.3 19.4 21.4 22.5 23.1 24.2 24.9	64.6 78.8 85.3 85.0 83.9 84.4 86.5 38.9 90.4 91.8	32.7 46.2 51.6 49.0 47.2 45.9 45.6 45.8 44.5 44.5	31.9 32.6 33.7 35.5 36.7 38.4 40.8 43.1 45.8 47.3	1.9 1.8 1.8 2.0 2.3 2.5 2.7 2.9 3.0 3.2	8.7 8.1 3.8 3.9 1.4 6.7 2.1 1.8 2 6.0
1960 1961 1962 1963 1964 1965 1965 1966 1967 1968 1968	736.8 755.3 799.1 830.7 874.4 925.9 981.0 1,007.7 1,051.8 1,078.8	733.6 751.2 794.3 825.8 868.7 919.9 975.6 1,001.9 1,045.7 1,073.1	611.8 625.6 663.9 692.0 730.4 776.4 822.4 839.8 878.2 901.5	580. 5 590. 9 629. 6 658. 4 697. 1 746. 7 791. 1 807. 8 850. 6 877. 4	29.5 29.6 29.5 30.0 29.2 30.1 28.5 29.6 29.4 29.9	1.8 5.1 4.8 3.6 4.0 -,4 2.8 2.4 -1.8 -5.9	26.8 27.2 28.3 29.0 29.9 31.1 32.8 34.8 35.9 36.6	94. 9 98. 5 102. 1 104. 8 108. 4 112. 4 120. 4 127. 2 131. 7 135. 0	45. 2 46. 2 48. 3 48. 2 48. 5 48. 7 53. 0 57. 2 58. 1 58. 2	49.7 52.3 53.9 56.6 60.0 63.6 67.5 70.0 73.6 76.8	3.2 4.1 4.8 4.9 5.7 6.1 5.4 5.8 6.1 5.7	2.3 2.4 5.7 4.0 5.2 5.9 6.1 2.7 4.4 2.6
1970 1971 1972 1973 1974 1975 1976 1977 P	1, 075. 3 1, 107. 5 1, 171. 1 1, 235. 0 1, 217. 8 1, 202. 1 1, 274. 7 1, 337.6	1,069.8 1,100.3 1,164.1 1,227.4 1,211.0 1,197.3 1,268.0 1,330.2	898.3 927.6 989.5 1,050.4 1,031.2 1,013.7 1,082.0 1,141.4	871. 3 894. 9 955. 8 1, 013. 2 993. 7 974. 3 1, 043. 8 1, 103. 8	31. 1 32. 8 32. 0 32. 3 32. 2 33. 8 33. 0 35. 9	-4.2 1 1.7 4.9 5.3 5.6 5.2 1.7	36. 3 36. 6 37. 2 38. 1 38. 0 38. 9 40. 2 41. 4	135. 2 136. 0 137. 4 138. 9 141. 9 144. 6 145. 8 147. 5	55. 2 52. 5 50. 1 48. 3 48. 6 48. 5 48. 4 48. 6	80.1 83.5 87.3 90.6 93.3 96.1 97.3 98.8	5.5 7.2 7.0 7.6 6.8 4.9 6.7 7.4	3 2.8 5.4 -1.3 -1.1 5.9 4.9
1975: V		1, 165. 5 1, 183. 4 1, 215. 6 1, 224. 6	983. 3 999. 8 1, 031. 5 1, 040. 1	946. 2 961. 7 989. 4 999. 8	31.8 34.3 34.6 34.4	5.3 3.8 7.5 5.9	38.5 38.8 39.1 39.4	143.7 144.7 145.0 145.1	48.7 48.5 48.5 48.4	95. 0 96. 2 96. 5 96. 7	4.3 4.8 5.1 5.2	8.9 6.3 11.3 3.0
1976: 1 11 111 1V		1, 249. 2 1, 265. 1 1, 276. 7 1, 280. 9	1, 064. 2 1, 079. 3 1, 090. 5 1, 093. 9	1, 026. 4 1, 042. 5 1, 051. 2 1, 054. 8	33. 3 32. 3 32. 2 34. 1	4.5 4.5 7.0 4.9	40. 1 40. 3 40. 0 40. 6	144. 9 145. 5 146. 2 146. 4	48.3 48.3 48.5 48.6	96. 6 97. 2 97. 7 97. 8	6.8 6.4 7.0 6.5	8.3 5.2 3.7 1.3
1977: { V p		1, 303. 3 1, 322. 8 1, 340. 1 1, 354. 8	1, 116. 2 1, 134. 9 1, 150. 5 1, 163. 9	1, 077. 8 1, 099. 8 1, 112. 7 1, 125. 0	35.1 34.9 36.2 37.4	3.4 .2 1.6 1.6	40.6 41.2 41.7 42.1	146.5 146.7 147.9 148.8	48.6 48.6 48.7 48.7	97. 9 98. 1 99. 2 100. 1	7.7 7.9 7.4 6.6	7.2 6.1 5.3 4.5

Includes compensation of employees in government enterprises.
 The difference between gross product in 1972 dollars measured as the sum of final products and that measured as the sum of gross product by industry.
 Compensation of government employees.
 Changes are based on unrounded data and therefore may differ from those obtained from data shown here. See Table B-2 for percent changes in gross national product in 1972 dollars.

	Gran	Cap-							nestic p						
	Gross do- mes-	ital con-								estic in	come				
V	tic prod-	sump- tion allow-					Corp	orate p	profits w consu	ith inve Imption	entory v adjusti	aluatior ments	and cap	oital	. <u> </u>
Year or quar-	of non-	ances with		Indi- rect		Com- pen-				ts befor				Capi-	
ter	finan- cial cor-	capi- tal con-	Total	busi- ness tax.	Total	sation of em-	-		Profits	Prof	its after	r tax	Inven- tory valu-	tal con- sump-	Net inter- est
	po- rate busi- ness	sump- tion ad- just- ment		etc. 1		ploy- ees	Total	Total	tax liabil- ity	Totai	Divi- dends	Undis- tribu- ted profits	ation ad- just- ment	tion ad- just- ment	
1929	50. 1	5.4	44.7	3.4	41.3	32. 3	7.6	8, 4	1. 2	7.3	5. 2	2.0	0.5	-1.3	1.4
1933	24. 4	4. 2	20. 2	3. 8	16. 4	16. 7	-2.0	.6	. 5	. 1	2.0	-1.9	-2.1	5	1.7
1939	43.7	4.7	39. 1	5. 1	34. 0	28. 2	4. 3	6.1	1.4	4.7	3.3	1.4	7	-1.0	1.5
1940 1941 1942 1943 1944 1945 1946 1946 1948 1948 1949	50. 4 65. 6 82. 9 98. 7 102. 1 95. 3 99. 3 120. 0 137. 3 133. 5	4.8 5.3 6.0 6.1 6.2 7.3 9.1 10.7 11.6	45.6 60.4 77.0 92.6 95.9 88.9 92.1 110.9 126.5 121.9	5.5 6.4 6.8 7.3 8.1 10.1 11.2 12.1 12.6	40. 1 53. 9 70. 1 85. 3 87. 8 80. 0 81. 9 99. 8 114. 4 109. 3	31. 2 39. 8 51. 0 62. 2 65. 1 61. 9 67. 2 79. 1 87. 8 85. 3	7.5 12.8 17.9 22.0 21.7 17.2 14.1 19.9 25.8 23.0	8.8 16.4 20.1 23.6 22.2 17.8 22.0 29.1 31.8 24.9	7.5 11.2 13.8 12.6 10.2 8.6 10.8	6.1 9.0 8.9 9.8 7.6 13.4 18.3 20.0 15.6	3.8 4.0 4.2 4.2 5.1 5.9 6.5	5.1 5.7 5.4 3.4 8.3 12.4 13.5	1.2 8 3 6 -5.3 -5.9	$ \begin{array}{c c} -1.0 \\8 \\2 \\1 \\ -2.7 \\ -3.3 \\ -3.9 \end{array} $	1.4 1.3 1.3 1.1 1.0 1.0 .7 .8 .9 1.0
1950 1951 1952 1953 1954 1956 1957 1958 1959	151. 9 174. 5 182. 3 195. 0 191. 9 216. 7 231. 6 242. 3 236. 3 265. 7	12.6 14.6 15.7 17.0 17.9 19.2 21.5 23.7 24.9 26.0	139.3 159.9 166.7 178.1 174.1 197.5 210.1 218.5 211.4 239.7	14. 1 15. 2 16. 8 18. 2 17. 4 19. 2 20. 8 22. 4 22. 8 25. 4	125. 2 144. 7 149. 8 159. 5 156. 6 178. 3 189. 2 196. 2 188. 6 214. 4	94. 7 110. 2 118. 3 128. 7 126. 5 138. 5 151. 4 159. 1 155. 9 171. 6	29. 6 33. 4 30. 3 29. 9 28. 6 38. 2 36. 1 35. 0 30. 1 39. 7	38. 5 39. 1 33. 8 34. 9 32. 1 42. 0 41. 8 39. 8 33. 7 43. 1	21. 2 17. 8 18. 5 15. 6 20. 2 20. 1 19. 1	21.6 17.9 16.0 16.4 21.8 21.8 20.7 17.5 22.3	7.8 7.8 8.0 8.2 9.4 10.1 10.4	10. 1 8. 1 8. 4 8. 2 12. 4 11. 6 10. 3 7. 3	-1.7	$ \begin{array}{c} -4.5 \\ -4.4 \\ -4.0 \\ -3.2 \\ -2.1 \\ -3.0 \\ -3.3 \\ -3.4 \end{array} $	2.2
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969	277. 3 284. 5 311. 0 330. 9 357. 6 392. 1 430. 7 452. 9 498. 4 541. 8	28.7 29.8 31.0 32.8 35.7 39.3 43.0	250, 3 256, 7 282, 3 301, 1 326, 6 359, 3 394, 9 413, 6 455, 4 494, 0	35.6 38.4 41.1 42.9 45.8 51.6	222. 0 226. 5 249. 2 265. 6 288. 3 318. 2 352. 0 367. 9 403. 8 437. 0	181.1 185.1 199.8 210.7 226.3 246.1 273.5 291.9 321.6 357.4	37.4 37.4 44.9 50.0 56.7 66.1 71.2 67.2 72.1 66.4	54.6	22.8 24.0 27.2 29.5 27.7 33.6	307	12, 7 14, 1 15, 3 17, 2 18, 1 18, 9 20, 7	8.0 10.3 11.4 15.4 20.0 21.9 18.8 17.6	2 2 5 -1.9 -2.1 -1.7 -3.4	$ \begin{array}{c c} -1.8 \\ 1.0 \\ 1.9 \\ 2.6 \\ 3$	4.5 4.8 5.3 6.1 7.4 8.7
1970 1971 1972 1973 1974 1975 1976 1977 P.	560.6 602.5 671.0 752.0 808.8 875.2 991.0 1,104.9	58.2 62.6 68.7 80.8 97.3 107.0	507.5 544.2 608.4 683.3 728.0 778.0 884.0 988.3	68.2 73.5 80.5 85.7 92.1 99.4	445. 7 476. 0 534. 8 602. 8 642. 3 685. 8 784. 6 879. 8	443.8 503.8 552.9 576.6	72.0 76.0 59.5 78.3	63.3 75.9 92.7 102.9 102.3 130.6	29.9 33.5 39.6 42.7 40.8 53.7	42.4 53.1 60.2 61.6 76.9	20.0 21.7 23.9 26.0 29.0 32.4	13.3 20.7 29.2 34.2 32.5 44.5	-5.0 -6.6 -18.6 -40.4 -12.0 -14.1	$ \begin{array}{c} .5 \\ 2.7 \\ 1.8 \\ -3.0 \\ -12.0 \\ -14.5 \\ \end{array} $	19.1 23.1 29.9 30.9 32.4
1975: V	824. 8 855. 3 899. 5 921. 3	96.1 99.4	733.2 759.3 800.2 819.2	87.6 90.8 94.2 95.9	668.5	561.7 565.2 580.3 599.3	53.0 72.4 94.9 92.9	116, 6	36.7 47.2	69.5	28.9	20. 1 27. 8 40. 2 42. 1	-9.	99.1 311.7 313.0 314.3	30.8 30.8
1976: 1 11 111 111 1V	983.6	6 105.6 108.0	877.9	98.8 100.0	796.6	643.3	103.6 106.8	133.	55.1	78.4	32.1 33.2	46.3	-12. -15. -11.	4 - 14.3 5 - 14.4 7 - 14.5	32.2 32.6
1977 : 	1,049.3 1,094.9 1,124.8	3 112.5 114.2 118.2	936. 8 980. 7 1, 006. 6	8 105.3 107.5 109.4	831.6 873.3 897.2	700. 6 727. 4 741. 2	109.8	143.4	\$ 57.7	85.	5 35.2 37.2 39.4	44. 3 48. 5 45. 7	-20. -17. -5.	3 -15.8	

TABLE B-11.-Gross domestic product of nonfinancial corporate business, 1929-77

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ Indirect business tax and nontax liability plus business transfer payments less subsidies.

	produ	omestic act of	C	urrent-dolla	ir cost ar	nd profit	per unit	of output	t (dollars))1		
Year_or	corpo busi (billio	ness	Total	Capital con- sump- tion allow-	In- direct	Com- pen-		inven a	ate profit tory valu nd capita mption ad ments	ation	Output per hour of all em-	Compen- sation per hour of
quarter	Cur- rent dollars	1972 dollars	cost and profit ²	ances with capital con- sump- tion adjust- ment	busi- ness tax etc. ³	sation of em- ployees	Net in- terest	Total	Profits tax liability	Profits after tax 4	ployees (1972 dollars)	all em- ployees (dollars)
1948 1949	137. 3 133. 5	229.7 219.9	0.598 .607	0.047 .053	0.053 .057	0.382 .388	0.004 .004	0.112 .105	0.051 .042	0.061 .062		
1950 1951 1952 1953 1954	151. 9 174. 5 182. 3 195. 0 191. 9	247.5 270.2 275.2 292.0 283.5	. 614 . 646 . 663 . 668 . 677	.051 .054 .057 .058 .063	.057 .056 .061 .062 .061	. 383 . 408 . 430 . 441 . 446	.004 .004 .004 .004 .006	. 120 . 124 . 110 . 102 . 101	.068 .079 .065 .063 .055	.051 .045 .046 .039 .046		
1955 1956 1957 1958 1959	216. 7 231. 6 242. 3 236. 3 265. 7	315. 1 324. 1 328. 3 313. 4 347. 3	. 688 . 715 . 738 . 754 . 765	.061 .066 .072 .080 .075	.061 .064 .068 .073 .073	. 439 . 467 . 484 . 497 . 494	.005 .005 .007 .009 .009	. 121 . 112 . 106 . 096 . 114	. 064 . 062 . 058 . 052 . 060	.057 .050 048 .044 .055	5. 110 5. 333	
1960 1961 1962 1963 1964	284 5	358.9 366.7 399.7 425.4 455.2	.773 .776 .778 .778 .778 .786	.075 .076 .072 .070 .068	.079 .082 .083 .084 .084	. 505 . 505 . 500 . 495 . 497	.010 .011 .011 .011 .011 .012	. 104 . 102 . 112 . 118 . 125	. 053 . 053 . 052 . 054 . 053	.051 .049 .061 .064 .072	5. 455 5. 634 5. 912 6. 167 6. 427	2. 752 2. 844 2. 956 3. 054 3. 195
1965 1966 1967 1968 1969	430.7 452.9 498.4	494.6 532.9 545.8 581.6 607.3	. 793 . 808 . 830 . 857 . 892	. 066 . 067 . 072 . 074 . 079	. 083 . 080 . 084 . 089 . 094	. 497 . 513 . 535 . 553 . 589	.012 .014 .016 .017 .022	. 134 . 134 . 123 . 124 . 109	. 055 . 055 . 051 . 058 . 055	.079 .078 .072 .066 .055	6, 625 6, 777 6, 873 7, 105 7, 139	3. 296 3. 478 3. 676 3. 929 4. 198
1970 1971 1972 1973 1973	602.5 671.0 752.0	600.6 619.3 671.0 720.4 695.0	.933 .973 1.000 1.044 1.164	.088 .094 .093 .095 .116	. 103 . 110 . 110 . 112 . 123	. 628 . 645 . 661 . 699 . 796	.028 .029 .028 .032 .043	. 086 . 095 . 107 . 105 . 086	.045 .048 .050 .055 .061	.041 .046 .057 .050 .024	7. 132 7. 374 7. 595 7. 781 7. 506	4. 478 4. 757 5. 024 5. 441 5. 972
1975 1976 1977 p	875.2 991.0 1,104.9	678.9 731.0 774.1	1.289 1.356 1.427	. 143 . 146 . 151	. 136 . 136 . 140	. 849 . 890 . 947	. 045 . 044 . 047	. 115 . 139 . 143	. 060 . 073 . 074	. 055 . 066 . 069	7.766 8.055	6. 5 9 6 7. 166
1975: . .	824.8 855.3 899.5	654.0 669.4 692.7 699.5	1. 261 1. 278 1. 299 1. 317	. 140 . 144 . 143 . 146	. 134 . 136 . 136 . 137	. 859 . 844 . 838 . 857	. 047 . 046 . 044 . 044	. 081 . 108 . 137 . 133	. 048 . 055 . 068 . 069	. 033 . 053 . 069 . 064	7.490 7,749 7.935 7.892	6. 432 6. 543 6. 647 6. 761
1976: (_ V	983.6	719.4 731.3 736.6 736.5	1.332 1.345 1.364 1.381	. 145 . 144 . 147 . 150	. 134 . 135 . 136 . 139	. 870 . 880 . 892 . 916	. 044 . 044 . 044 . 045	. 139 . 142 . 145 . 132	. 072 . 075 . 074 . 072	.067 .066 .071 .060	7, 987 8, 067 8, 109 8, 057	6.952 7.090 7.230 7.378
1977: 1 II III.	- 1049.3 - 1094.9 - 1,124.8	753.3 771.7 781.2	1.393 1.419 1.440	. 149 . 148 . 151	. 140 . 139 . 140	. 930 . 943 . 949	. 046 . 047 . 048	. 128 . 142 . 152	.070 .075 .073	. 058 . 068 . 079	8. 171 8. 202 8. 278	7.599 7.731 7.871

TABLE B-12.-Output, costs, and profits of nonfinancial corporate business, 1948-77 [Quarterly data at seasonally adjusted annual rates]

¹ Output is measured by gross domestic product of nonfinancial corporate business in 1972 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.

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

TABLE B-13.—Personal consumption expenditures, 1929-77

		Dur	able go	ods 1		Nondura	able goo	ds 1			S	ervices		
Year or quarter	Personal consumption expenditures	Total	Motor vehicles and parts	Furniture and household equipment	Total	Food	Clothing and shoes	Gasoline and oil	Fuel oil and coal	Total	Housing ²	Total obera	Electricity and gas	Transportation
1929	77.3	9.2	3.3	4.7	37.7	19.5	9.4	1.8	1.6	30.3	11.7	4.0	1.2	2. 6
1933	45.8	3.5	1.1	1.9	22.3	11.5	4.6	1.5	1.2	20. 1	8.1	2.8	1.1	1.
1939	67.0	6.7	2.3	3.4	35. 1	19.1	7.1	2.2	1.4	25.2	9.4	3.8	1.4	2.
1940 1941 1942 1943 1944 1945 1945 1945 1946 1947 1948 1948 1948	71.0 80.8 88.6 99.4 108.2 119.5 143.8 161.7 174.7 178.1	7.8 9.7 6.9 6.5 6.7 8.0 15.8 20.4 22.9 25.0	2.8 3.5 .7 .8 1.0 4.1 6.6 8.0 10.6	3.8 4.8 3.9 3.8 4.5 8.4 10.6 11.5 11.3	37.0 42.9 50.8 58.6 64.3 71.9 82.7 90.9 96.6 94.9	20. 2 23. 4 28. 4 33. 2 36. 7 40. 6 47. 4 52. 3 54. 2 52. 5	7.5 8.8 11.0 13.4 14.6 16.5 18.2 18.8 20.1 19.3	2.3 2.6 2.1 1.3 1.4 1.8 3.4 4.0 4.8 5.3	1.5 1.7 1.9 2.0 2.2 2.5 3.0 3.4 3.1	26. 2 28. 2 31. 0 34. 3 37. 1 39. 6 45. 3 50. 4 55. 3 58. 2	9.7 10.4 11.2 11.8 12.3 12.8 14.2 16.0 17.9 19.6	4.0 4.3 5.2 5.9 6.4 6.8 7.5 8.1 8.5	1.5 1.5 1.6 1.7 1.8 1.9 2.1 2.3 2.9	2. 2. 3. 3. 4. 5. 5. 5.
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	192.0 207.1 217.1 229.7 235.8 253.7 266.0 280.4 289.5 310.8	30.8 29.8 29.1 32.5 31.8 38.6 37.9 39.3 36.8 42.4	13.7 12.2 11.3 13.9 13.0 17.8 15.8 17.2 14.8 18.9	13.7 14.0 14.6 14.6 16.2 17.1 16.9 16.6 17.8	98. 2 108. 8 113. 9 116. 5 118. 0 122. 9 128. 9 135. 2 139. 8 146. 4	53.9 60.4 63.4 64.4 65.4 67.2 69.9 73.6 76.4 79.1	19.6 21.2 21.9 22.1 23.1 24.1 24.3 24.7 26.1	5.5 6.1 6.8 7.4 7.8 8.6 9.4 10.2 10.6 11.3	3.4 3.5 3.4 3.5 3.8 3.9 4.1 4.2 4.0	63.0 68.5 74.0 80.6 86.1 92.1 99.2 105.9 112.8 121.9	21.7 24.3 27.0 29.8 32.2 34.3 36.7 39.3 42.0 45.0	9.5 10.4 11.1 12.0 12.6 14.0 15.2 16.2 17.3 18.5	3.3 3.7 4.1 4.5 5.0 5.5 6.1 6.5 7.1 7.6	6. 6. 7. 7. 8. 8. 9. 10.
960 961 962 963 964 965 965 966 966 967 968 968 968	324.9 335.0 355.2 374.6 400.4 430.2 464.8 490.4 535.9 579.7	43. 1 41. 6 46. 7 51. 4 56. 3 62. 8 67. 7 69. 6 80. 0 85. 5	19.7 17.8 21.5 24.4 26.0 29.8 30.1 29.7 35.8 37.7	17.7 17.9 18.9 20.3 22.8 24.7 27.7 29.5 32.6 35.0	151. 1 155. 3 161. 6 167. 1 176. 9 188. 6 204. 7 212. 6 230. 4 247. 0	81. 1 83. 2 85. 5 87. 8 92. 7 98. 9 106. 6 109. 6 118. 3 126. 1	26.7 27.4 28.7 29.5 31.9 33.5 36.6 38.2 41.8 45.1	12.0 12.0 12.6 12.9 13.5 14.7 16.0 17.0 18.4 20.4	3.8 3.7 3.7 4.0 4.1 4.4 4.7 4.8 5.0 5.2	130. 7 138. 1 147. 0 156. 1 167. 1 178. 7 192. 4 208. 1 225. 6 247. 2	48. 1 51. 2 54. 7 58. 0 61. 4 65. 5 69. 5 74. 1 79. 9 86. 8	20. 1 21. 0 22. 2 23. 4 24. 8 26. 3 28. 0 30. 6 32. 7 35. 5	8.3 8.8 9.4 9.9 10.4 10.9 11.5 12.2 13.1 14.2	10. 11. 12. 12. 13. 15. 16. 17. 18.
1970 1971 1972 1973 1974 1975 1976 1976 1977 P	618.8 668.2 733.0 809.9 889.6 980.4 1,094.0 1,210.1	84. 9 97. 1 111. 2 123. 7 122. 0 132. 9 158. 9 179. 4	34. 9 43. 8 50. 6 55. 2 48. 0 53. 9 71. 9 83. 8	36. 7 39. 4 44. 8 50. 7 54. 9 58. 0 63. 9 70. 3	264. 7 277. 7 299. 3 333. 8 376. 3 409. 3 442. 7 480. 1	136. 3 140. 6 150. 4 168. 1 189. 8 209. 5 225. 5 246. 3	46.6 50.5 55.1 61.3 65.3 70.2 76.3 82.6	22.0 23.4 24.9 27.8 36.4 39.1 41.4 44.8	5.4 5.5 6.3 7.7 9.6 10.1 12.0 12.9	269. 1 293. 4 322. 4 352. 3 391. 3 438. 2 492. 3 550. 6	94.0 102.7 112.3 123.2 136.5 150.8 167.9 184.5	38.3 41.6 45.9 50.2 56.1 64.2 73.0 83.1	15.5 17.0 18.9 20.6 24.1 29.0 33.3 39.4	21. 23. 26. 27. 30. 32. 36. 41.
1975: I	936, 5 965, 9 995, 1 1, 024, 1	122, 8 127, 8 136, 7 144, 3	48.0 49.9 56.5 61.3	54.8 57.4 58.7 61.0	394. 0 406. 4 415. 0 421. 9	202. 6 207. 9 212. 1 215. 4	66. 6 69. 8 71. 5 73. 0	38, 2 39, 1 39, 1 39, 8	9.6 10.0 10.8 10.2	419. 7 431. 7 443. 4 457. 9	145. 1 148. 5 152. 4 157. 2	61. 4 63. 7 65. 3 66. 3	27.6 29.0 29.7 29.8	31. 31. 32. 33.
1976:] 1 1 V	1, 056. 0 1, 078. 5 1, 102. 2 1, 139. 0	153. 3 156. 7 159. 3 166. 3	68.8 71.0 72.1 75.7	61. 9 63. 0 63. 9 66. 5	430. 4 437. 1 444. 7 458. 8	219.3 223.8 227.0 232.0	74.2 74.3 76.9 79.9	40.6 40.3 41.2 43.5	11. 4 11. 3 12. 0 13. 3	472. 4 484. 6 498. 2 513. 9	161.5 166.2 170.4 173.7	69.5 70.4 73.1 78.8	31.5 31.4 32.8 37.6	34. 36. 37. 38.
	1, 172, 4 1, 194, 0 1, 218, 9 1, 255, 3	177. 0 178. 6 177. 6 184. 6	85.3 84.5 81.2 84.1	67.4 69.3 70.9 73.4	466. 6 474. 4 481. 8 497. 7	237. 9 244. 8 248. 3 254. 2	79.3 80.4 83.3 87.5	44. 1 44. 3 44. 2 46. 4	13.7 12.3 12.3 13.4	528. 8 541. 1 559. 5 572. 9	177.6 181.9 186.7 191.6	80.7 79.2 85.2 87.2	38.7 36.1 41.0 41.7	39. 40. 42. 43.

(Billions of dollars; quarterly data at seasonally adjusted annual rates)

¹ Total includes "other" category, not shown separately. ² Includes imputed rental value of owner-occupied dwellings.

TABLE B-14.-Gross privat: domestic investment, 1929-77

						Fixed in	vestmen	t	_			busi	ge in ness tories
Year or	Gross			No	nresiden	tial			Resid	dential			
quarter	domes- tic invest- ment	Total	Total	Strue	ctures	dur	ucers' able pment	Total	Non- farm struc-	Farm struc-	Pro- ducers' dur- able	Total	Non- farm
				Totai	Non- farm	Total	Non- farm		tures	tures	equip- ment		
1929	16.2	14.5	10.5	5.0	4.8	5.5	4.8	4.0	3.8	0.2	0.1	1.7	1.8
1933	1.4	3.0	2.4	.9	.9	1.4	1.3	.6	. 5	.0	.0	1.6	-1.4
1939		8.8	5.8	2.0	1.9	3.9	3.3	3.0	2.8	.1	.1	.4	.3
1940	13. 1 17. 9 9. 9 5. 8 7. 2 10. 6 30. 7 34. 0 45. 9 35. 3	10.9 13.4 8.1 6.4 8.1 11.7 24.3 34.4 41.1 38.4	7.5 9.4 6.0 5.0 6.8 10.1 16.8 22.9 26.2 24.3	2.3 2.9 1.9 1.3 1.8 2.8 6.8 7.6 8.9 8.6	2.2 2.8 1.2 1.7 2.6 6.1 6.8 8.1 7.8	5.2 6.4 4.1 3.7 5.0 7.3 9.9 15.3 17.3 15.7	4.5 5.5 3.2 4.2 6.3 9.0 13.4 14.7 12.8	3.5 4.0 2.2 1.4 1.3 1.6 7.5 11.5 15.0 14.1	3.2 3.7 1.9 1.2 1.1 1.4 6.8 10.5 13.8 12.9	.2 .2 .2 .1 .1 .5 .7 .9	.1 .1 .0 .0 .0 .2 .3 .3 .3	2.2 4.5 1.8 6 -1.0 -1.0 6.4 5 4.7 -3.1	1.9 4.0 6 6 6.4 1.3 3.0 -2.2
1950 1951 1952 1953 1954 1955 1956 1956 1957 1958 1959	52.1 53.3 52.7 68.4 71.0 69.2 61.9 77.6	47.0 48.9 49.0 52.9 54.3 62.4 66.3 67.9 63.4 72.3	27. 1 31. 1 31. 2 34. 3 34. 0 38. 3 43. 7 46. 7 41. 6 45. 3	9.3 11.3 11.5 12.8 13.2 14.4 17.4 18.1 16.7 17.0	8.6 10.5 10.6 12.0 12.4 13.7 16.6 17.4 16.0 16.1	17.8 19.9 19.7 21.5 20.8 23.9 26.3 28.6 24.9 28.3	14.9 16.9 17.1 18.7 18.4 21.3 24.1 26.2 21.9 25.2	19.9 17.7 17.8 18.6 20.3 24.1 22.6 21.2 21.8 27.0	18.7 16.6 16.6 17.5 19.2 23.0 21.4 20.0 20.7 25.8	.88 .88 .76 .77 .77	.4 .4 .4 .4 .5 .5 .5	6.8 10.3 3.1 -1.5 6.0 4.7 1.3 -1.5 5.2	6.0 9.1 2.1 1.1 -2.1 5.5 5.1 -2.3 5.3
1960 1961 1962 1963 1964 1965 1965 1967 1968 1969	76. 4 74. 3 85. 2 90. 2 96. 6 112. 0 124. 5 120. 8 131. 5 146. 2	72.7 72.1 78.7 84.2 90.8 102.5 110.2 110.7 123.8 136.8	47.7 47.1 51.2 53.6 59.7 71.3 81.4 82.1 89.3 98.9	18.2 18.4 19.4 21.5 26.1 29.2 29.5 31.6 35.7	17.3 17.5 18.5 18.6 20.5 25.1 28.1 28.2 30.4 34.3	29.5 28.7 31.8 34.0 38.2 45.1 52.2 52.6 57.7 63.3	27.0 26.1 28.9 30.6 34.6 41.2 47.9 48.0 53.4 58.9	25.0 25.0 27.4 30.6 31.2 31.2 28.7 28.6 34.5 37.9	23. 9 23. 8 26. 3 29. 4 29. 9 29. 9 27. 4 27. 2 33. 1 36. 3	.67 .76 .77 .67 .76 .77	.55.56677789	3.8 2.2 6.5 6.0 5.8 9.5 14.3 10.1 7.7 9.4	3.5 1.9 5.8 5.2 6.4 8.5 14.5 9.4 7.6 9.2
1970 1971 1972 1973 1974 1975 1976 1977 p	140. 8 160. 0 188. 3 220. 0 214. 6 189. 1 243. 3 294. 3	137. 0 153. 6 178. 8 202. 1 205. 7 200. 6 230. C 276. 6	100. 5 104. 1 116. 8 136. 0 150. 6 149. 1 161. 9 185. 6	37.7 39.3 42.5 49.0 54.5 52.9 55.8 61.6	36. 1 37. 8 41. 1 46. 9 51. 8 50. 4 53. 4 58, 9	62.8 64.7 74.3 87.0 96.2 96.3 106.1 124.0	58. 1 59. 9 69. 1 80. 1 88. 2 87. 1 95. 9 112. 9	36.6 49.6 62.0 66.1 55.1 51.5 68.0 90.9	35. 1 47. 9 60. 3 64. 3 52. 7 49. 5 65. 7 88. 4	.6 .7 .6 1.2 .9 1.0 1.1	.9 1.0 1.1 1.2 1.2 1.1 1.3 1.4	3.8 6.4 9.4 17.9 8.9 -11.5 13.3 17.8	3.7 5.1 8.8 14.7 10.8 -15.1 14.9 17.5
1975: 1 II I/I IV	175 1	197. 1 196. 3 200. 5 208. 4	149. 8 147. 7 148. 2 150. 7	53.3 51.9 52.8 53.4	50. 7 49. 4 50. 4 51. 1	96. 5 95. 7 95. 4 97. 4	87.6 86.5 86.6 87.7	47.3 48.6 52.3 57.6	45.7 46.8 50.1 55.3	.5 .8 1.1 1.2	1.0 1.0 1.1 1.2	-22.0 -25.1 4.9 3.6	-25.9 -26.5 1.4 -9.2
1976: / / / / V	231. 3 244. 4 254. 3 243. 4	216. 8 226. 1 232. 8 244. 3	155.4 159.8 164.9 167.6	54.7 55.8 56.0 57.0	52. 1 53. 4 53. 6 54. 4	100. 8 104. 0 109. 0 110. 6	90, 5 93, 8 98, 4 100, 7	61. 4 66. 3 67. 8 76. 7	58.9 64.1 65.7 74.3	1.2 1.0 .9 1.1	1.2 1.2 1.2 1.3	14.5 18.3 21.5 9	15.9 20.4 22.0 .14
1977: t II III IV P	271.8 294.9 303.6	258. 0 273. 2 280. 0 295. 1	177.0 182.4 187.5 195.5	57.9 61.0 62.6 64.9	60.1	119. 2 121. 4 124. 9 130. 7	107.8 110.0 114.0 119.7	81.0 90.8 92.5 99.5	78.5 88.2 89.9 97.0	1.1 1.2 1.1 1.0	1.4 1.4 1.5 1.5	13.8 21.7 23.6 11.9	14. 1 22. 4 23. 1 10. 4

				Inventories	ι				Invento sales	ry-final ratio
Year and quarter					ionfarm			Final sales ²		
	Total	Farm	Total	Manufac- turing	Wholesale trade	Retail trade	Other		Total	Non- farm ³
purth quarter: 1946 1947 1948 1948	73.7 86.9 90.6 81.0	21. 8 25. 8 23. 4 19. 5	51.9 61.1 67.2 61.4	26.7 31.8 34.8 31.0	9.6 10.6 12.1 11.7	11. 9 14. 1 15. 3 14. 3	3.7 4.6 4.9 4.4	192. 0 219. 6 235. 7 234. 6	0. 384 . 396 . 384 . 345	0. 27 . 27 . 28 . 26
1950	98.8	24.2	74.6	37.4	14. 3	17.7	5.2	259.8	. 380	.28
1951	112.1	26.5	85.6	46.2	14. 9	18.3	6.2	295.6	. 379	.29
1952	109.4	23.1	86.3	47.3	14. 9	17.9	6.2	313.3	. 349	.27
1953	110.1	21.6	88.5	49.3	15. 1	18.5	5.5	325.8	. 338	.27
1954	107.2	20.5	86.7	47.0	15. 4	18.7	5.6	330.1	. 325	.27
1955	112. 1	17.6	94.6	51.4	16.7	20. 9	5.6	356.5	.315	. 26
1956	121. 8	18.3	103.5	57.5	17.8	21. 8	6.4	377.0	.323	. 27
1957	126. 7	20.9	105.8	57.9	18.1	22. 9	6.9	392.7	.323	. 26
1958	128. 9	24.9	103.9	56.0	18.1	22. 9	6.9	405.0	.318	. 25
1959	132. 3	23.6	108.7	57.5	19.2	24. 1	8.0	426.7	.310	. 25
1960	136. 2	24.8	111.3	58, 1	19.6	25.6	8.1	442. 1	. 308	.25
1961	138. 4	25.0	113.4	59, 5	20.2	25.1	8.7	465. 3	. 297	.24
1962	145. 2	26.6	118.6	62, 5	20.9	26.7	8.6	492. 7	. 295	.24
1963	151. 5	26.9	124.6	64, 8	22.4	28.2	9.2	524. 2	. 289	.23
1964	157. 6	25.7	131.8	68, 5	23.6	29.8	9.9	553. 1	. 285	.23
1965	172, 7	29.7	143. 0	73.7	25. 3	33. 1	10.9	610.7	. 283	.23
1966	189, 1	28.9	160. 2	83.4	28. 6	36. 6	11.6	647.5	. 292	.24
1967	202, 2	29.2	173. 0	91.1	30. 6	37. 8	13.5	688.0	. 294	.25
1968	215, 3	30.4	184. 9	97.4	32. 4	40. 7	14.4	757.6	. 284	.24
1969	236, 2	33.4	202. 8	107.1	35. 3	44. 4	16.1	804.5	. 294	.25
1970		31.7	212.5	110. 8	38. 3	45.6	17.7	839.4	. 291	. 25
1971		36.8	225.1	113. 6	41. 2	51.0	19.2	915.2	. 286	. 24
1972		44.6	243.9	120. 4	45. 7	55.9	21.8	1,019.9	. 283	. 23
1973		66.2	289.6	143. 6	55. 2	64.4	26.4	1,120.5	. 318	. 25
1974		61.9	363.7	186. 4	69. 8	72.3	35.2	1,216.0	. 350	. 29
1975	427.3	63. 9	363. 4	187.6	67. 7	72.6	35, 5	1, 356. 7	. 315	. 26
1976	461.5	59. 8	401. 7	206.1	75. 2	81.2	39, 1	1, 486. 1	. 311	. 27
1977 ₽	504.7	60. 5	444. 1	223.7	82. 6	94.5	43, 4	1, 657. 6	. 304	. 26
1975: I	417.9	58.8	359. 1	186. 2	68.6	69.9	34. 4	1, 244. 3	. 336	. 28
II	417.9	63.5	354. 4	183. 7	66.9	69.7	34. 0	1, 285. 2	. 325	. 27
III	427.3	66.9	360. 4	185. 4	68.1	72.5	34. 5	1, 318. 2	. 324	. 27
IV	427.3	63.9	363. 4	187. 6	67.7	72.6	35. 5	1, 356. 7	. 315	. 26
1976: I	436.2	63, 9	372. 3	190. 7	69. 8	75.7	36. 2	1, 381. 3	. 316	. 27
II		65, 7	383. 4	196. 3	72. 8	77.7	36. 5	1, 415. 0	. 317	. 27
III		61, 3	394. 2	201. 7	74. 3	80.4	37. 9	1, 441. 5	. 316	. 27
IV		59, 8	401. 7	206. 1	75. 2	81.2	39. 1	1, 486. 1	. 311	. 27
1977: 1 \/ ₽	492.0	62.8 60.0 57.6 60.5	415.8 422.5 434.4 444.1	210. 8 213. 7 219. 3 223. 7	78. 8 79. 5 80. 8 82. 6	86.0 88.5 91.9 94.5	40. 2 40. 8 42. 4 43. 4	1, 518. 5 1, 564. 7 1, 604. 4 1, 657. 6	. 315 . 308 . 307 . 304	.27 .27 .27 .27 .27

TABLE B-15.-Inventories and final sales of business, 1946-77

[Billions of dollars, except as noted; seasonally adjusted]

¹ End of quarter. ³ Annual rates. ³ Ratio based on total final sales, which include a small amount of final sales by farms.

Note.—The industry classification of inventories is on an establishment basis and is based on the 1972 Standard Indus-trial Classification (SIC) beginning in 1948 and on the 1942 SIC prior to 1948.

				Inventorie	S 1				Inventory-final sales ratio	
Year and quarter				N	lonfarm			Final sales 2		
ų uaitei	Total	Farm	Total	Manufac- turing	Wholesale trade	Retail trade	Other	29162 -	Total	Non- farm ³
Fourth quarter: 1947 1948 1948	118.6 124.1 119.7	25.7 26.7 26.2	93.0 97.3 93.5	49.9 51.3 48.6	13.8 16.1 16.1	20. 5 21. 3 20. 9	8.7 8.6 7.8	397.2 412.0 415.1	0. 299 . 301 . 288	0. 234 . 236 . 225
1950 1951 1952 1953 1953 1954	130. 2 143. 9 148. 2 149. 7 147. 5	27.5 29.1 30.4 30.2 31.1	102.7 114.8 117.9 119.6 116.5	51.8 62.5 65.2 66.9 63.3	18. 3 18. 9 19. 2 19. 4 19. 7	23. 9 23. 9 23. 9 24. 5 24. 5 24. 6	8.7 9.5 9.6 8.7 8.8	442.6 476.5 499.1 516.2 517.0	. 294 . 302 . 297 . 290 . 285	. 232 . 241 . 236 . 232 . 225
1955 1956 1957 1957 1958 1958	155. 3 161. 1 162. 6 160. 8 167. 2	31.5 30.7 31.4 32.4 32.4	123.7 130.3 131.2 128.4 134.8	66.7 71.6 71.1 68.6 71.1	21. 4 22. 0 21. 9 21. 8 23. 7	27. 2 27. 5 28. 4 28. 2 29. 6	8.4 9.2 9.8 9.8 10.5	547.4 557.6 565.3 577.2 596.8	. 284 . 289 . 288 . 279 . 280	. 226 . 234 . 232 . 222 . 226
1960 1961 1962 1963 1964	174.5	32.8 33.2 34.5 35.7 35.1	138.8 141.2 148.1 154.7 162.6	72. 4 74. 2 78. 4 80. 8 84. 7	24. 3 25. 0 25. 9 27. 8 29. 1	31. 5 30. 6 32. 5 34. 1 36. 0	10.7 11.4 11.4 12.0 12.8	609.0 636.6 664.2 699.3 730.7	. 282 . 274 . 275 . 272 . 271	. 228 . 221 . 223 . 221 . 223 . 223
1965 1966 1967 1968 1969	225.7	36. 2 36. 0 36. 8 37. 0 37. 3	172.8 189.7 200.9 209.4 219.7	89. 1 99. 0 105. 9 110. 7 115. 8	30. 5 33. 7 35. 5 36. 6 38. 2	39. 4 42. 7 43. 1 45. 3 47. 7	13.8 14.3 16.3 16.8 18.0	791. 3 809. 2 837. 2 882. 8 892. 2	. 264 . 279 . 284 . 279 . 288	. 218 . 234 . 240 . 237 . 246
1970 1971 1972 1973 1974	267 9	37.7 39.2 39.8 42.1 41.8	223.6 228.8 237.6 251.8 260.1	117. 1 115. 4 117. 5 123. 6 128. 6	40. 4 42. 44. 4 47. 4 50. 6	47.3 51.9 54.4 58.2 56.5	18.8 19.5 21.3 22.7 24.5	891.7 935.0 1,007.6 1,031.8 1,005.3	. 293 . 287 . 275 . 285 . 300	. 251 . 245 . 236 . 244 . 259
1975 1976 1977 <i>P</i>	300.4	41.4	248.9 259.0 270.4	124.0 128.1 131.8	47. 1 49. 7 51. 9	54.5 57.7 62.9	23. 4 23. 6 23. 8	1, 044. 7 1, 095. 7 1, 156. 3	. 279 . 274 . 270	. 238 . 236 . 234
1975: I II III IV	296. 9 292. 3 293. 1 291. 9	42.2	254.8 250.1 250.5 248.9	127.6 125.7 124.7 124.0	49.3 47.8 47.7 47.1	54.0 53.4 54.7 54.5	23. 9 23. 3 23. 3 23. 4	1,003.2 1,017.9 1,028.6 1,044.7	. 296 . 287 . 285 . 279	. 254 . 246 . 244 . 238
1976: I II III IV	297.4	42.1	251. 7 255. 2 258. 8 259. 0	124. 4 126. 1 127. 7 128. 1	47. 9 49. 0 49. 8 49. 7	55.9 56.7 58.0 57.7	23.5 23.5 23.4 23.6	1, 054. 5 1, 067. 2 1, 076. 6 1, 095. 7	. 279 . 279 . 279 . 279 . 274	. 239 . 239 . 240 . 236
1977: V p	.) 306.1 .) 310.0	41.2	261. 5 264. 9 268. 7 270. 4	128.7 130.3 131.4 131.8	50. 5 51. 1 51. 7 51. 9	58. 8 60. 0 62. 0 62. 9	23.5 23.6 23.7 23.8	1, 106. 5 1, 121. 7 1, 134. 8 1, 156. 3	. 274 . 273 . 273 . 270	. 236 . 236 . 237 . 234

[Billions of 1972 dollars, except as noted; seasonally adjusted]

¹ End of quarter.
 ³ Annual rates.
 ³ Ratio based on total final sales, which include a small amount of final sales by farms.

Note,—The industry classification of inventories is on an establishment basis and is based on the 1972 Standard In-dustrial Classification (SIC) beginning in 1948 and on the 1942 SIC prior to 1948.

TABLE B-17.-Relation of gross national product and national income, 1929-77

		Less: Capital		Plus: Subsidies		Less:		
Year or quarter	Gross national product	consump- tion allow- ances with capital consump- tion adjust- ment	Equals: Net national product	less current surplus of govern- ment enter- prises	Indirect business tax and nontax liability	Business transfer payments	Statistical discrep- ancy	Equals: National income
1929	103.4	9.7	93.7	-0.2	7.1	0.6	1.1	84.8
1933	55.8	7.5	48. 3	0	7.1	.7	.7	39.9
1939	90. 8	8.7	82.1	.4	9.4	.5	1.4	71.3
1940 1941	100. 0 124. 9 158. 3 192. 0 210. 5 212. 3 209. 6 232. 8 259. 1 258. 0	9.0 10.0 11.2 11.5 11.8 12.3 13.8 17.2 20.3 22.0	91.0 114.9 147.1 180.5 198.7 200.0 195.7 215.6 238.8 236.1	.4 .1 .1 .6 .7 .9 2 1 3	10. 1 11. 3 11. 8 12. 8 14. 2 15. 5 17. 1 18. 4 20. 1 21. 3	.4 .5 .5 .5 .5 .6 .7 .8	$ \begin{array}{r} 1.1\\.5\\8\\-1.8\\2.7\\4.1\\.7\\1.8\\-1.2\\1.0\end{array} $	79.7 102.6 135.7 169.1 181.9 180.6 178.3 194.6 219.0 212.7
1950	286. 2 330. 2 347. 2 366. 1 366. 3 399. 3 420. 7 442. 8 442. 8 448. 9 486. 5	23.9 27.6 29.6 31.6 33.1 35.3 38.9 42.0 44.1 46.1	262. 3 302. 6 317. 6 334. 5 364. 0 381. 8 400. 8 400. 8 404. 8 440. 4	$ \begin{array}{r} .1\\1\\3\\5\\3\\0\\ .7\\ .7\\ 1.1\\ .1 \end{array} $	23. 4 25. 3 27. 7 29. 7 32. 2 35. 1 37. 5 38. 7 41. 8	.8 .9 1.0 1.2 1.1 1.2 1.4 1.5 1.6 1.8	2.0 4.0 2.7 3.3 3.0 2.5 8 .2 1.7 2	236, 2 272, 3 285, 8 299, 7 328, 0 346, 9 362, 3 364, 0 367, 1
960 1961	506. 0 523. 3 563. 8 594. 7 635. 7 688. 1 753. 0 796. 3 868. 5 935. 5	47.7 49.1 50.5 52.2 54.6 57.5 61.7 67.0 73.8 82.5	458.3 474.2 513.3 542.5 581.2 630.6 691.3 729.3 794.7 853.1	.4 1.7 1.8 1.1 1.7 1.6 2.5 1.6 1.3 1.8	45. 4 48. 0 51. 6 54. 6 58. 8 62. 6 65. 3 70. 2 78. 8 86. 4	2.0 2.0 2.1 2.4 2.7 2.8 3.0 3.1 3.4 3.8	7 1.6 4.0 3.7 2.2 3.2 1.7 6 -3.3	412.0 424.2 457.4 482.8 519.2 566.0 622.2 655.8 714.4 767.9
970	982. 4 1, 063. 4 1, 171. 1 1, 306. 6 1, 412. 9 1, 528. 8 1, 706. 5 1, 890. 4	90. 8 98. 8 105. 4 117. 7 137. 7 162. 5 179. 0 197. 0	891. 6 964. 7 1, 065. 8 1, 188. 9 1, 275. 2 1, 366. 3 1, 527. 4 1, 693. 4	2.7 2.4 3.6 3.9 1.0 2.3 .8 2.1	94.0 103.4 111.0 120.2 128.6 138.7 150.5 165.2	4.0 4.2 4.7 5.4 5.9 7.0 8.1 9.0	2.1 1.3 1.7 2.6 5.8 5.9 5.5 1.0	798. 4 858. 1 951. 9 1, 064. 6 1, 136. 0 1, 217. 0 1, 364. 1 1, 520. 3
1975: I II III IV	1, 453. 0 1, 496. 6 1, 564. 9 1, 600. 7	153. 9 160. 4 165. 6 170. 2	1, 299. 1 1, 336. 2 1, 399. 2 1, 430. 6	1.9 2.0 2.3 2.9	132.7 136.5 141.4 144.2	6.3 6.8 7.3 7.6	6.0 3.5 8.0 5.9	1, 156. 0 1, 191. 4 1, 244. 9 1, 275. 7
1976: i 11 111 111 1V	1, 651. 2 1, 691. 9 1, 727. 3 1, 755. 4	173.8 177.0 180.9 184.5	1, 477. 4 1, 514. 9 1, 546. 5 1, 570. 9	1.0 .5 1.1 .5	145.5 149.1 151.8 155.5	7.8 8.0 8.2 8.4	4.2 4.5 8.0 5.3	1, 321. 0 1, 353. 9 1, 379. 6 1, 402. 1
1977: (V p	1, 810. 8 1, 869. 9 1, 915. 9 1, 965. 1	189. 0 193. 3 199. 8 205. 9	1, 621. 8 1, 676. 6 1, 716. 0 1, 759. 1	.5 .1 1.4 6.3	160. 1 163. 3 166. 9 170. 4	8.7 8.9 9.1 9.4	3.3 -1.2 .9	1, 450. 2 1, 505. 7 1, 540. 5

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

1			Le	\$\$:			Pla	IS:		Equals:
Year or quarter	National income	Corpo- rate profits with inven- tory valuation and capital con- sumption adjust- ments	Net interest	Contri- butions for social insur- ance	Wage accruats less dis- burse- ments	Govern- ment transfer pay- ments to persons	Personal interest income	Divi- dends	Business transfer pay- ments	Personal income
1929	84.8	9.2	4.7	0.2	.0	0. 9	6.9	5.8	0.6	
1933	39.9	-1.7	4.1	. 3	.0	1.5	5.5	2.0	.7	46. 9
939	71. 3	5.3	3.6	2, 1	.0	2, 5	5.4	3.8	.5	72.4
1940 1941 1942 1943 1944 1945 1945 1946 1947 1948 1949	79.7 102.6 135.7 169.1 181.9 180.6 178.3 194.6 219.0 212.7	8.7 14.1 19.3 23.5 23.6 19.0 16.6 22.2 29.1 26.9	3.3 3.3 2.7 2.4 2.2 1.6 2.1 2.1 2.2	2.3 2.8 3.5 5.2 6.1 5.8 5.4 5.9	.0 .0 .2 2 .0 0 .0 .0	2.7 2.6 2.7 2.5 3.1 5.6 10.8 11.2 10.6 11.7	5.3 5.2 5.2 5.4 5.9 6.7 7.7 8.2	4.0 4.4 4.3 4.4 4.6 5.6 5.6 7.0 7.2	4555555678	77.8 95.3 122.4 150.7 164.4 169.8 177.3 189.8 208.5 205.6
1950 1951 1952 1953 1954 1955 1955 1956 1957 1958 1959	236.2 272.3 285.8 299.7 299.1 328.0 346.9 362.3 364.0 397.1	33.7 38.1 35.4 35.5 34.6 42.9 42.1 37.5 48.2	2.3 2.7 3.4 4.3 5.2 6.5 8.0 8.8	7.1 8.5 9.0 9.1 10.1 11.5 12.9 14.9 15.2 18.0	.0 1 1 .0 .0 .0 .0	14.4 11.6 12.1 12.9 15.1 16.2 17.3 20.1 24.3 25.2	8.9 9.6 10.3 11.4 12.7 13.8 15.3 17.4 18.8 20.9	8.8 8.5 8.8 9.1 10.3 11.1 11.5 11.3 12.2	.89 1.0 1.2 1.1 1.2 1.4 1.5 1.6 1.8	226. 1 253. 7 270. 4 286. 1 286. 1 308. 8 330. 9 349. 3 359. 3 382. 1
1960 1961 1962 1963 1964 1965 1966 1968 1967	412.0 424.2 457.4 482.8 519.2 566.0 622.2 655.8 714.4 767.9	46.6 46.9 54.9 59.6 67.0 77.1 82.5 79.3 85.8 81.4	9.8 11.2 12.8 14.3 15.9 18.5 21.9 24.3 26.8 30.8	21. 1 21. 9 24. 3 27. 3 28. 7 30. 0 38. 8 43. 4 48. 1 54. 9	.00.00.00.00.00.00.00.00.00	27.0 30.8 31.6 33.4 34.8 37.6 41.6 49.5 56.5 62.7	23. 3 24. 6 27. 1 30. 2 33. 3 37. 2 41. 8 45. 0 49. 6 55. 9	12.9 13.3 14.4 15.5 17.3 19.1 19.4 20.1 21.9 22.6	2.0 2.0 2.1 2.4 2.7 2.8 3.0 3.1 3.4 3.8	399. 7 415. 0 440. 7 463. 1 495. 7 537. 0 584. 9 626. 6 685. 2 745. 8
970 971 972 973 974 974 975 975 975 976 976	798. 4 858. 1 951. 9 1, 064. 6 1, 136. 0 1, 217. 0 1, 364. 1 1, 520. 3	67.9 77.2 92.1 99.1 83.6 99.3 128.1 140.3	37.5 42.8 47.0 52.3 69.0 79.1 88.4 100.9	58.7 64.8 73.6 91.5 103.8 110.1 123.8 139.0	.0 .0 1 5 .0 .0	75.9 89.9 99.4 113.5 134.9 169.8 184.7 197.8	64. 3 69. 3 74. 6 84. 1 103. 0 115. 6 130. 3 147. 9	22.9 23.0 24.6 27.8 31.0 32.4 35.8 41.2	4.0 4.2 5.4 5.9 7.0 8.1 9.0	801. 3 859. 1 942. 5 1, 052. 4 1, 154. 9 1, 253. 4 1, 382. 7 1, 536. 1
1975: I II III IV	1, 156. 0 1, 191. 4 1, 244. 9 1, 275. 7	74.0 92.7 115.6 114.7	76.4 77.6 79.9 82.3	108.0 108.5 110.7 113.3	.0 .0 .0	157.6 169.9 174.2 177.5	111.5 113.3 116.6 121.0	32.0 32.2 32.9 32.5	6.3 6.8 7.3 7.6	1, 205. 1 1, 234. 7 1, 269. 7 1, 304. 0
1976: 1 V	1, 321. 0 1, 353. 9 1, 379. 6 1, 402. 1	126. 5 129. 2 133. 5 123. 1	85.0 86.5 90.1 92.0	120. 3 122. 8 124. 7 127. 5	.0 .0 .0	182. 5 180. 8 186. 2 189. 5	125. 0 127. 5 132. 2 136. 4	33.6 35.0 36.0 38.4	7.8 8.0 8.2 8.4	1, 338. 1 1, 366. 7 1, 393. 9 1, 432. 2
1977: 1 11 111 1VP	1, 450. 2 1, 505. 7 1, 540. 5	125.4 140.2 149.0	95.3 98.9 103.1 106.4	135.0 138.0 139.9 143.1	.0 .0 .0	194. 8 194. 0 199. 5 203. 1	140. 3 145. 4 150. 3 155. 6	38.5 40.3 42.3 43.6	8.7 8.9 9.1 9.4	1, 476, 8 1, 517, 2 1, 549, 8 1, 600, 5

TABLE B-18.—Relation of national income and personal income, 1929-77

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

TABLE B-19.-National income by type of income, 1929-77

(Billions of dollars; quarterly data at seasonally adjusted annual rates)

		Соп	npensatio	on of	Pi	oprietor	s' income con:	e with inv sumption	entory v adjustm	aluation : ents	and capit	al
	Na-		mployee	nployees		Farm			Non	larm		
Year or quarter	tional in- come ¹	Total	Wages and sala- ries	Sup- ple- ments to wages and sala- ries ²	Total	Total	In- come 3	Capi- tal con- sump- tion ad- just- ment	Total	in- come 4	Inven- tory valua- tion ad- just- ment	Capi- tal con- sump- tion ad- just- ment
1929	84.8	51.1	50.5	0.6	14. 9	6.2	6.3	-0.1	8. 8	8.8	0.1	-0.2
1933	39. 9	29.5	29.0	.5	5.8	2.6	2.5	.1	3.2	3.9	5	2
1939	71. 3	48.1	46.0	2.1	11.7	4.4	4.4	0	7.3	7.6	2	1
1940 1941 1943 1943 1945 1946 1946 1947 1948 1949	79. 7 102. 6 135. 7 169. 1 181. 9 180. 6 178. 3 194. 6 219. 0 212. 7	52.1 64.8 85.3 109.5 121.2 123.1 118.1 129.2 141.4 141.3	49.9 62.1 82.1 105.8 116.7 117.5 112.0 123.1 135.5 134.7	2.3 2.7 3.2 3.8 4.5 5.6 6.0 6.1 5.9 6.6	12. 9 17. 4 24. 0 29. 0 30. 2 31. 7 36. 6 35. 8 40. 7 36. 1	4.5 6.4 9.8 11.7 11.6 12.2 14.9 15.2 17.5 12.7	4.5 6.5 10.3 12.2 12.6 15.1 15.6 18.1 13.4	0 5 5 6 4 2 4 6 7	8, 4 10, 9 14, 3 17, 3 18, 6 19, 4 21, 6 20, 6 23, 2 23, 5	8.6 11.7 14.4 17.1 18.3 19.3 23.3 21.8 23.1 22.2	$\begin{array}{c}0 \\6 \\4 \\2 \\1 \\1 \\1 \\ -1.7 \\ -1.5 \\4 \\ .5 \end{array}$	1 1 .2 .3 .4 .2 .0 .4 .5 .8
1950 1951 1953 1953 1955 1956 1957 1958 1959	236. 2 272. 3 285. 8 299. 7 299. 1 328. 0 346. 9 362. 3 364. 0 397. 1	154.8 181.0 195.7 209.6 208.4 224.9 243.5 256.5 258.2 279.6	147. 0 171. 3 185. 3 198. 5 196. 8 211. 7 228. 3 239. 3 240. 5 258. 9	7.8 9.7 10.4 11.0 11.6 13.2 15.2 17.2 17.7 20.6	38. 4 42. 8 42. 9 41. 3 40. 8 42. 5 43. 6 45. 0 47. 4 47. 2	13. 5 15. 8 14. 9 12. 9 12. 3 11. 3 11. 2 11. 0 13. 1 10. 7	14. 1 16. 6 15. 7 13. 7 12. 9 11. 9 11. 8 11. 8 13. 9 11. 6	7 8 8 6 6 8 8 9	24. 9 27. 0 28. 0 28. 4 28. 5 31. 2 32. 4 33. 9 34. 3 36. 6	25. 1 26. 4 26. 9 27. 6 27. 6 30. 5 31. 8 33. 1 33. 2 35. 3	-1.1 3 2 2 2 2 5 3 1 1	.9 .9 .9 1.0 1.0 1.1 1.2 1.1 1.3
1960 1961 1962 1963 1963 1964 1965 1966 1966 1967 1968 1968 1969	412.0 424.2 457.4 482.8 519.2 566.0 622.2 655.8 714.4 767.9	294. 9 303. 6 325. 1 342. 9 368. 0 396. 5 439. 3 471. 9 519. 8 571. 4	271.9 279.5 298.0 313.4 336.1 362.0 398.4 427.5 469.5 514.6	23.0 24.1 27.1 29.5 31.8 34.5 40.9 44.4 50.3 56.8	47.0 48.3 49.6 50.3 52.2 56.7 60.3 61.0 63.4 66.2	11. 4 11. 8 11. 9 11. 6 10. 3 12. 6 13. 6 12. 1 12. 0 13. 9	12.3 12.7 12.8 12.5 11.2 13.5 14.6 13.2 13.3 15.4	9 9 -1.0 9 -1.0 9 -1.0 -1.2 -1.3 -1.4	35.6 36.4 37.7 38.7 42.0 44.1 46.7 48.9 51.4 52.3	34. 2 35. 3 36. 4 37. 2 40. 2 42. 7 45. 3 47. 5 50. 4 51. 3	.1 0 0 2 3 3 4 5	1.3 1.2 1.4 1.6 1.8 1.6 1.6 1.7 1.5
1970 1971 1972 1973 1974 1975 1976 1977 p	798.4 858.1 951.9 1,064.6 1,136.0	609. 2 650. 3 715. 1 799. 2 875. 8 930. 3 1,036.3 1,155.8	546. 5 580. 0 633. 8 701. 2 764. 1 805. 7 891. 8 989. 5	62. 7 70. 3 81. 4 98. 0 111. 7 124. 6 144. 5 166. 3	65. 1 67. 7 76. 1 92. 4 86. 2 86. 0 88. 0 97. 9	13. 9 14. 3 18. 0 32. 0 25. 4 23. 2 18. 6 19. 5	15. 3 16. 0 20. 0 34. 2 27. 9 26. 8 22. 8 24. 2	$ \begin{array}{c} -1.4 \\ -1.7 \\ -2.0 \\ -2.2 \\ -2.5 \\ -3.6 \\ -4.2 \\ -4.7 \\ \end{array} $	51. 2 53. 4 58. 1 60. 4 60. 9 62. 8 69. 4 78. 4	50. 7 52. 8 56. 4 60. 3 62. 9 63. 4 70. 4 79. 9	$ \begin{array}{c}5 \\4 \\7 \\ -1.7 \\ -3.6 \\ -1.2 \\ -1.3 \\ -1.4 \end{array} $	1.0 1.1 2.5 1.8 1.6 .3 1
1975: 1	1, 156. 0 1, 191. 4 1, 244. 9	904.6 914.4 936.7 965.6	785. 1 792. 4 810. 5 834. 9	119.6 122.1 126.3 130.7	78.9 84.3 90.4 90.4	18. 3 22. 7 26. 2 25. 5	21. 3 26. 1 30. 1 29. 7	$ \begin{array}{r} -3.1 \\ -3.5 \\ -3.8 \\ -4.2 \end{array} $	60. 6 61. 6 64. 2 64. 9	61.2 62.0 64.8 65.5	$ \begin{array}{c} -1.6 \\ -1.1 \\ -1.1 \\ -1.0 \end{array} $.9 .6 .5 .5
1976: V	1, 353. 9	999.6 1,024.9 1,046.5 1,074.2	861.5 882.4 900.2 923.2	138.1 142.5 146.3 150.9	86. 9 90. 4 86. 2 88. 7	20.0 21.6 16.2 16.6	24. 1 25. 8 20. 3 20. 8	-4.2 -4.2 -4.2 -4.2	66.9 68.8 70.0 72.0	67.6 70.1 70.7 73.2	-1.0 -1.5 -1.1 -1.7	.3 .2 .4 .5
1977: p	1, 450. 2 1, 505. 7 1, 540. 5	1,109.9 1,144.7 1,167.4 1,201.3	951. 3 980. 9 998. 9 1,027.1	158.6 163.8 168.5 174.2	95. 1 97. 0 95. 5 104. 2	20.7 19.7 15.5 22.1	25. 0 24. 2 20. 3 27. 4	-4.2 -4.5 -4.8 -5.2	74.3 77.3 80.0 82.0	76. 1 78. 9 80. 7 83. 9	$ \begin{array}{c} -2.0 \\ -1.7 \\6 \\ -1.4 \end{array} $.3 .0 .0 .1 .1

See footnotes at end of table.

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TABLE B-19.-National income by type of income, 1929-77-Continued

	Rental	income	of per-	Cor	porate p	rofits wit	h invento ad	ry valua justmen	tion and ts	capital c	onsump	tion	
	co	with cap nsumptic justment	n		Profits	with inv cap	entory va bital cons	umption	adjustm adjustm	ent and v ent	without		
Year or							Profi	ts before	e tax			Capital con-	Net inter-
quarter		Rental	Capital con-	Total				Pro	fits after	tax	Inven- tory	sump- tion	est
	Total	income of persons	sump- tion		Total	Total	Profits tax liability	Totai	Divi- dends	Undis- tributed profits	valua- tion adjust- ment	adjust- ment	
1929	4.9	5.7	-0.8	9, 2	10. 5	10. 0	1.4	8.6	5. 8	2. 8	0.5	-1.3	4. 7
1933	2.2	2.3	1	-1.7	-1.2	1.0	.5	. 4	2.0	1.6	-2.1	5	4.1
1939	2.6	3.1	6	5.3	6.3	7.0	1.4	5, 6	3.8	1.8	7	-1.0	3.6
1940 1941 1942 1943 1944 1945 1945 1946 1946 1947 1948 1949	2.7 3.1 4.0 4.4 5.5 5.3 5.7 6.1	3.3 3.9 5.0 5.9 6.2 7.3 7.7 8.5 8.9	$\begin{array}{r}6 \\8 \\ -1.0 \\ -1.2 \\ -1.4 \\ -1.6 \\ -2.5 \\ -2.8 \\ -2.8 \end{array}$	8.7 14.1 19.3 23.5 23.6 19.0 16.6 22.2 29.1 26.9	9.8 15.2 20.3 24.4 23.8 19.2 19.3 25.6 33.0 30.8	10. 0 17. 7 21. 5 25. 1 24. 1 19. 7 24. 6 31. 5 35. 2 28. 9	2.8 7.6 11.4 14.1 12.9 10.7 9.1 11.3 12.4 10.2	7.2 10.1 10.1 11.1 11.2 9.0 15.5 20.2 22.7 18.7	4.0 4.4 4.3 4.4 4.6 5.6 5.6 6.3 7.0 7.2	3.2 5.7 5.9 6.6 6.5 4.4 9.9 13.9 15.7 11.5	2 -2.5 -1.2 8 3 6 -5.3 -5.9 -2.2 1.9	$ \begin{array}{c} -1.1 \\ -1.0 \\8 \\2 \\1 \\ -2.7 \\ -3.4 \\ -3.9 \\ -3.8 \end{array} $	3.3 3.3 3.1 2.7 2.4 2.2 1.6 2.1 2.1 2.2
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	7.1 7.7 8.8 10.0 11.0 11.3 11.6 12.2 12.9 13.2	10. 0 11. 0 12. 2 13. 4 14. 4 14. 8 15. 2 15. 9 16. 7 17. 3	-2.9 -3.3 -3.4 -3.4 -3.5 -3.6 -3.6 -3.8 -3.8	33. 7 38. 1 35. 4 35. 5 34. 6 42. 9 42. 1 37. 5 48. 2	37. 6 42. 7 39. 8 39. 5 37. 8 46. 7 45. 9 45. 4 40. 8 51. 2	42.6 43.9 38.9 40.5 38.1 48.4 48.6 46.9 41.1 51.6	17.9 22.6 19.4 20.3 17.6 22.0 22.0 21.4 19.0 23.6	24. 7 21. 3 19. 5 20. 2 20. 5 26. 4 25. 5 22. 1 28. 0	8.8 8.5 8.5 9.1 10.3 11.1 11.5 11.3 12.2	15. 9 12. 8 11. 0 11. 5 11. 4 16. 1 15. 5 14. 0 10. 8 15. 8	$ \begin{vmatrix} -5.0 \\ -1.2 \\ 1.0 \\ -3 \\ -1.7 \\ -2.7 \\ -1.5 \\3 \\5 \end{vmatrix} $	-4.0 -4.6 -4.5 -4.1 -3.2 -2.1 -3.0 -3.3 -3.4 -2.9	2.3 2.7 3.0 3.4 4.3 4.8 5.2 6.5 8.0 8.8
1960 1961 1962 1963 1964 1965 1966 1968 1969	13.8 14.3 15.0 15.7 16.1 17.1 18.2 19.4 18.6 18.1	17.8 18.3 19.0 19.6 20.1 21.0 22.1 23.4 23.8 24.8	4.1 4.0 3.9 4.0 3.9 3.9 3.9 4.0 5.2 6.7	46. 6 46. 9 54. 9 59. 6 67. 0 77. 1 82. 5 79. 3 85. 8 81. 4	48. 9 48. 7 53. 7 57. 6 64. 2 73. 3 78. 6 75. 6 82. 1 77. 9	48.5 48.6 53.6 57.7 64.7 75.2 80.7 77.3 85.6 83.4	22. 7 22. 8 24. 0 26. 2 28. 0 30. 9 33. 7 32. 5 39. 4 39. 7	25.8 25.8 29.6 31.5 36.7 44.3 47.1 44.9 46.2 43.8	12.9 13.3 14.4 15.5 17.3 19.1 19.4 20.1 21.9 22.6	13.0 12.5 15.2 16.0 19.4 25.2 27.6 24.7 24.2 21.2	.3 .1 .1 2 5 -1.9 -2.1 -1.7 -3.4 -5.5	-2.3 -1.8 1.2 2.1 2.8 3.8 3.9 3.7 3.7 3.5	9.8 11.2 12.8 14.3 15.9 18.5 21.9 24.3 26.8 30.8
1970 1971 1972 1973 1974 1975 1976 1977 p	18. 6 20. 1 21. 5 21. 6 21. 4 22. 3 23. 3 25. 3	25. 8 27. 7 29. 4 31. 3 33. 7 36. 8 40. 0 45. 3	-7.1 -7.6 -7.9 -9.8 -12.3 -14.5 -16.7 -20.0	67.9 77.2 92.1 99.1 83.6 99.3 128.1 140.3	66.4 76.9 89.6 97.2 86.5 111.5 142.7 157.5	71.5 82.0 96.2 115.8 126.9 123.5 156.9 172.1	34.5 37.7 41.5 48.7 52.4 50.2 64.7 69.2	37.0 44.3 54.6 67.1 74.5 73.4 92.1 102.9	22. 9 23. 0 24. 6 27. 8 31. 0 32. 4 35. 8 41. 2	14. 1 21. 3 30. 0 39. 3 43. 6 41. 0 56. 4 61. 7	$\begin{array}{c} -5.1 \\ -5.0 \\ -6.6 \\ -18.6 \\ -40.4 \\ -12.0 \\ -14.1 \\ -14.5 \end{array}$.3 2.5 1.9 -2.9 -12.2 -14.7	37.5 42.8 47.0 52.3 69.0 79.1 88.4 100.9
1975: V	22. 1 22. 3 22. 2 22. 6	35.8 36.6 37.0 37.9	-13.7 -14.3 -14.8 -15.3	74.0 92.7 115.6 114.7	83. 2 104. 6 128. 9 129. 2	101.5 113.9 137.7 141.0	40.8 45.7 56.3 57.9	60. 8 68. 2 81. 4 83. 1	32.0 32.2 32.9 32.5	28.8 36.0 48.5 50.6	-18.3 -9.3 -8.8 -11.8	-9.2 -11.9 -13.3 -14.5	76.4 77.6 79.9 82.3
1976: V	23. 0 22. 9 23. 3 24. 1	38.9 39.4 40.3 41.5	-15.9 -16.4 -16.9 -17.3	126.5 129.2 133.5 123.1	141. 1 143. 7 148. 2 137. 9	153.5 159.2 159.9 154.8	63. 1 66. 1 65. 9 63. 9	90. 4 93. 1 94. 0 90. 9	33.6 35.0 36.0 38.4	56. 8 58. 1 58. 0 52. 5	-12.4 -15.5 -11.7 -16.9	-14.6 -14.6 -14.7 -14.8	85.0 86.5 90.1 92.0
1977 : I II III IV P.	24. 5 24. 9 25. 5 26. 4	42.9 44.6 45.7 48.1	-18.4 -19.7 -20.2 -21.7	125. 4 140. 2 149. 0	141. 0 156. 2 166. 9	161.7 174.0 172.8	64.4 69.7 69.3	97.2 104.3 103.6	38.5 40.3 42.3 43.6	58.8 64.1 61.2	-5.9	-17.9	95.3 98.9 103.1 106.4

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ National income is the total net income earned in production. It differs from gross national 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-17. ² Employer contributions for social insurance and to private pension, health, and welfare funds; workmen's compensation; directors' fees; and a few other minor items. ³ With inventory valuation adjustment and without capital consumption adjustment. ⁴ Without inventory valuation and capital consumption adjustments.

TABLE B-20.-Sources of personal income, 1929-77

			Wage	and salary	disburse	nents ¹			Proprietors' in- come with inven-	
Year or quarter	Per- sonal	Total	Comm prod indu	odity- ucing stries	Distrib- utive	Service	Govern- ment and	Other labor in-	tory valu	ation and onsump-
	income	Total	Total	Manu- factur- ing	indus- tries	indus- tries	govern- ment enter- prises	come1	Farm	Non- farm
1929	84. 9	50. 5	21.5	16.1	15.6	8.4	5.0	0.5	6, 2	8.8
1933	46. 9	29.0	9 . 8	7.8	8.8	5.2	5.2	. 4	2.6	3. 2
1939		46.0	17.4	13.6	13, 3	7.1	8. 2	.6	4.4	7.3
1940 1941 1942 1943 1944 1945 1946 1947 1948 1948	105.8 177.3 189.8 208.5 205.6	49. 9 62. 1 82. 1 105. 6 116. 9 117. 5 112. 0 123. 1 135. 5 134. 8	19.7 27.5 39.1 49.0 50.4 45.9 46.0 54.2 61.1 57.8	15. 6 21. 7 30. 9 40. 9 42. 9 38. 2 36. 5 42. 5 47. 1 44. 6	14. 2 16. 3 18. 0 20. 1 22. 7 24. 8 31. 0 35. 2 37. 5 37. 7	7.5 8.1 9.0 9.9 10.9 11.9 14.3 16.1 17.9 18.5	8.5 10.2 16.0 26.6 33.0 34.9 20.7 17.5 19.0 20.8	.6 .7 .9 1.1 1.5 1.8 2.0 2.4 2.7 2.9	4, 5 6, 4 9, 8 11, 7 11, 6 12, 2 14, 9 15, 2 17, 5 12, 7	8. 4 10. 9 14. 3 17. 3 18. 6 19. 4 21. 6 23. 2 23. 5
1950	226. 1 253. 7 270. 4 286. 1 288. 2 308. 8 330. 9 349. 3 359. 3 359. 3 382. 1	147.0 171.3 185.4 198.6 196.8 211.7 228.3 239.3 240.5 258.9	64. 8 76. 3 82. 0 89. 6 85. 7 93. 1 100. 6 104. 2 100. 0 109. 6	50. 3 59. 3 64. 1 71. 2 67. 5 73. 8 79. 4 82. 4 78. 6 86. 8	39. 8 44. 3 46. 9 49. 7 50. 1 53. 4 57. 7 60. 5 60. 8 64. 8	19.8 21.5 23.1 26.1 28.6 31.3 33.6 35.6 38.5	22.6 29.2 33.3 34.4 34.9 36.6 38.8 41.0 44.1 46.0	3.7 4.6 5.2 6.1 7.0 8.0 9.0 9.4 10.6	13.5 15.8 14.9 12.9 12.3 11.3 11.2 11.0 13.1 10.7	24. 9 27. 0 28. 0 28. 4 28. 5 31. 2 32. 4 33. 9 34. 3 36. 6
1960 1961 1962 1963 1964 1965 1965 1965 1966 1967 1968 1968	399. 7 415. 0 440. 7 463. 1 495. 7 537. 0 584. 9 626. 6 685. 2 745. 8	271.9 279.5 298.0 313.4 336.1 362.0 398.4 427.5 469.5 514.6	113. 1 113. 7 121. 8 126. 9 135. 4 146. 0 161. 0 168. 3 183. 4 199. 6	89.7 89.8 96.7 100.6 107.1 115.5 128.0 134.1 145.8 157.5	68.2 69.3 72.8 76.3 81.4 87.2 94.4 100.9 109.9 120.7	41. 4 44. 1 47. 2 50. 2 54. 4 58. 9 64. 7 71. 8 79. 8 89. 4	49.2 52.4 56.3 60.0 64.9 69.9 78.3 86.4 96.4 104.9	11.2 11.8 13.0 14.0 15.7 17.8 19.9 21.7 25.1 28.2	11.4 11.8 11.9 11.6 10.3 12.6 13.6 12.1 12.0 13.9	35.6 36.4 37.7 38.7 42.0 44.1 46.7 48.9 51.4 52.3
1970	801. 3 859. 1 942. 5 1, 052. 4 1, 154. 9 1, 253. 4 1, 382. 7 1, 536. 1	546. 5 579. 4 633. 8 701. 3 764. 6 805. 7 891. 8 989. 5	202. 9 208. 3 227. 3 254. 3 274. 6 275. 0 308. 5 346. 3	158.2 160.3 175.4 196.2 211.4 211.0 238.2 267.2	130. 1 139. 3 151. 9 168. 1 184. 3 195. 4 217. 1 242. 5	97.5 106.2 117.2 130.3 145.1 159.9 179.0 200.8	116.0 125.6 137.3 148.6 160.5 175.4 187.2 199.9	32.0 36.2 42.0 48.7 55.6 64.9 75.9 88.6	13.9 14.3 18.0 32.0 25.4 23.2 18.6 19.5	51.2 53.4 58.1 60.4 60.9 62.8 69.4 78.4
1975: I 11 111 111 1V	1, 205. 1 1, 234. 7 1, 269. 7 1, 304. 0	785. 1 792. 4 810. 5 834. 9	269. 0 269. 0 276. 0 285. 9	205. 8 206. 6 212. 1 219. 6	191. 1 192. 2 196. 7 201. 6	155. 1 157. 5 160. 8 166. 3	169. 8 173. 7 176. 9 181. 2	61.2 63.3 66.1 69.0	18. 3 22. 7 26. 2 25. 5	60.6 61.6 64.2 64.9
1976: V		861.5 882.4 900.2 923.2	298.6 306.7 310.8 317.7	230.6 236.7 240.2 245.1	208. 2 213. 7 220. 2 226. 4	172.0 176.6 180.9 186.7	182.7 185.4 188.2 192.5	71.7 74.5 77.3 80.0	20.0 21.6 16.2 16.6	66.9 68.8 70.0 72.0
1977: I ii iii iV P		951.3 980.9 998.9 1,027.1	329. 0 345. 4 351. 0 359. 7	255. 4 265. 9 270. 0 277. 5	234.5 240.5 244.4 250.7	193. 0 197. 7 202. 8 209. 7	194. 8 197. 2 200. 6 206. 9	83. 2 86. 7 90. 3 94. 0	20. 7 19. 7 15. 5 22. 1	74.3 77.3 80.0 82.0

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

See footnotes at end of table.

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TABLE B-20.-Sources of personal income, 1929-77-Continued

	Rental income of per-					Transf	er payme	ents			Less:	
Year or quarter	sons with capital con- sump- tion ad- just- ment	Divi- dends	Personal interest income	Total	Old age, survivors, disability, and health insurance benefits	Govern- ment unem- ploy- ment in- surance benefits	Vet- erans bene- fits	Govern- ment em- ployee retire- ment benefits	Aid to families with de- pendent children (AFDC)	Other	Personal contri- butions for social insur- ance	Non- farm per- sonal in- come ²
1929	4.9	5.8	6.9	1.5			0.6	0.1	0.	. 8	0.1	
1933	2.2	2.0	5.5	2.1			.6	.2	1	. 4	.2	
1939	2.6	3.8	5.4	3.0	0.0	0.4	. 5	.3	1	.7	.6	
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949	4.0 4.4 4.5 4.6 5.5 5.3	4.0 4.4 4.3 4.4 4.6 5.6 6.3 7.0 7.2	5.3 5.2 5.1 5.2 5.9 6.4 7.3 7.7 8.2	3. 1 3. 1 3. 0 3. 6 6. 2 11. 3 11. 7 11. 3 12. 5	.0 .1 .2 .3 .4 .5 .6 .7	.5 .4 .1 .1 .4 1.1 .8 .9 1.9	.5 .5 .5 1.0 3.0 7.0 5.9 5.3	.3 .3 .4 .4 .5 .7 .7 .7 .7 .9	1. 1. 1. 2. 2.	.7 .8 .8 .0 .0 .1 .2.5 .3 .3	.7 .8 1.2 1.8 2.2 2.3 2.0 2.1 2.2 2.2	159.6 171.5 187.7 189.9
1950 1951 1952 1953 1953 1955 1955 1956 1957 1958 1958 1959	7.7 8.8 10.0 11.0 11.3	8.8 8.5 8.5 9.1 10.3 11.1 11.5 11.3 12.2	8.9 9.6 10.3 11.4 12.7 13.8 15.3 17.4 18.8 20.9	15. 2 12. 6 13. 1 14. 1 16. 2 17. 5 18. 7 21. 6 25. 9 27. 0	1.0 1.9 2.2 3.0 3.6 4.9 5.7 7.3 8.5 10.2	1.5 .9 1.1 1.0 2.2 1.5 1.5 1.9 4.1 2.8	7.7 4.6 4.3 4.1 4.2 4.4 4.4 4.5 4.7 4.6	1.0 1.1 1.2 1.4 1.5 1.7 1.9 2.2 2.5 2.8	.66 .55 .66 .78 .9	3.5 3.6 3.8 4.1 4.3 4.5 4.9 5.3 5.8	2.9 3.4 3.8 4.0 4.6 5.2 5.8 6.7 6.9 7.9	209.3 234.4 252.0 269.9 272.7 294.3 316.4 335.0 342.6 367.7
1960 1961 1962 1963 1964 1965 1966 1967 1968 1968	13.8 14.3 15.0 15.7 16.1 17.1 18.2 19.4 18.6 18.1	12.9 13.3 14.4 15.5 17.3 19.1 19.4 20.1 21.9 22.6	23. 3 24. 6 27. 1 30. 2 33. 3 37. 2 41. 8 45. 0 49. 6 55. 9	28. 9 32. 8 33. 8 3 5 . 8 37. 4 40. 4 44. 7 52. 6 59. 9 66. 5	11. 1 12. 6 14. 3 15. 2 16. 0 18. 1 19. 8 25. 5 30. 2 32. 9	3.0 4.3 3.1 3.0 2.7 2.3 1.9 2.2 2.1 2.2	4.6 5.0 4.7 4.8 4.7 4.9 5.6 5.9 6.7	3.1 3.4 3.7 4.2 4.7 5.2 6.1 6.9 7.7 8.6	1.0 1.1 1.3 1.4 1.5 1.7 1.9 2.3 2.8 3.5	6.2 6.4 6.7 7.3 7.8 8.3 10.2 10.2 11.1 12.5	9.3 9.7 10.3 11.8 12.6 13.3 17.8 20.6 22.8 26.3	384. 4 399. 0 424. 5 447. 0 480. 7 519. 5 566. 1 609. 1 667. 5 725. 8
1970 1971 1972 1973 1974 1975 1976 1977 P	18.6 20.1 21.5 21.6 21.4 22.3 23.3 25.3	22.9 23.0 24.6 27.8 31.0 32.4 35.8 41.2	64. 3 69. 3 74. 6 84. 1 103. 0 115. 6 130. 3 147. 9	79.9 94.1 104.1 118.9 140.8 176.8 192.8 206.9	38.5 44.5 49.6 60.4 70.1 81.4 92.9 105.0	4.0 5.8 5.6 4.3 6.6 17.4 15.7 12.7	7.7 8.8 9.7 10.4 11.8 14.5 14.4 13.8	10. 1 11. 7 13. 5 15. 6 18. 8 22. 6 25. 7 28. 8	4.8 6.2 6.9 7.2 7.9 9.2 9.9 10.3	14.9 17.2 18.9 21.0 25.5 31.7 34.3 36.3	28. 0 30. 8 34. 2 42. 2 47. 7 50. 4 55. 2 61. 2	780.7 838.0 917.3 1,011.9 1,119.3 1,218.8 1,351.3 1,502.3
1975: I II III IV	22. 1 22. 3 22. 2 22. 6	32.0 32.2 32.9 32.5	111.5 113.3 116.6 121.0	163. 9 176. 8 181. 5 185. 2	76. 7 77. 9 84. 8 86. 3	14. 8 17. 9 18. 7 18. 2	14. 2 13. 9 14. 6 15. 1	21.5 22.1 23.0 24.0	8.8 9.0 9.4 9.7	28.0 35.8 31.0 31.9	49.6 49.8 50.5 51.6	1, 175.6 1, 200.8 1, 232.1 1, 266.7
1976: I II. III. IV.	23.0 22.9 23.3 24.1	33.6 35.0 36.0 38.4	125. 0 127. 5 132. 2 136. 4	190. 3 188. 7 194. 3 198. 0	88. 1 89. 3 95. 8 98. 4	17.5 15.0 15.1 15.0	15. 9 14. 4 13. 6 13. 9	24.5 25.7 26.1 26.4	9.8 9.9 10.0 10.0	34.6 34.5 33.8 34.3	53.9 54.8 55.6 56.6	1, 305. 9 1, 332. 5 1, 364. 7 1, 402. 1
1977: I.]_ V#	24.5 24.9 25.5 26.4	38.5 40.3 42.3 43.6	140. 3 145. 4 150. 3 155. 6	203. 5 203. 0 208. 7 212. 5	99. 9 101. 8 108. 5 109. 8	15. 1 12. 3 11. 6 11. 8	14. 3 13. 7 13. 3 13. 8	27. 1 28. 4 29. 2 30. 5	10. 0 10. 2 10. 3 10. 5	37.0 36.6 35.6 36.0	59.6 60.8 61.7 62.9	1, 442. 4 1, 483. 5 1, 519. 9 1. 56 3. 4

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ The total of wage and salary disbursements and other labor income differs from compensation of employees in Table B-19 in that it excludes employer contributions for social insurance and the excess of wage accruals over wage disburse-ments. ² Personal income exclusive of farm proprietors' income, farm wages, farm other labor income, and agricultural net

interest.

Note.—The industry classification of wage and salary disbursements and proprietors' income is on an establishment basis and is based on the 1972 Standard Industrial Classification (SIC) beginning 1948 and on the 1942 SIC prior to 1948.

TABLE B-21.—Disposition of personal income, 1929-77

			!		.ess: Pers	onal outlay	/s			nt of disp rsonal inco	
Year or quarter	Per- sonal income	Less: Per- sonal tax and	Equals: Dispos- able per-		Per- sonal con-	Interest paid by con-	Per- sonal transfer	Equals: Per- sonal		ional lays	Per-
	income	nontax pay- ments	sonal income	Total	sump- tion expend- itures	sumers to busi- ness	pay- ments to for- eigners (net)	saving	Totai	Con- sump- tion expend- itures	sonal saving
1929	84. 9	2.6	82.3	79.1	77.3	1.5	0.3	3.1	96. 2	93. 9	3, 8
1933	46.9	1.4	45.5	46. 5	45.8	. 5	. 2	1.0	102. 2	100. 7	-2.2
1939	72.4	2.4	69.9	67.8	67.0	.7	.2	2.1	97.0	95.8	3.0
1940 1941 1942 1943 1945 1945 1946 1947 1948 1949	77.8 95.3 122.4 150.7 164.4 169.8 177.3 189.8 208.5 205.6	2.6 3.3 5.9 17.8 18.9 20.8 18.7 21.4 21.0 18.5	75. 2 92. 0 116. 5 132. 9 145. 5 149. 0 158. 6 168. 4 187. 4 187. 1	72.0 81.8 89.4 100.1 109.0 120.4 145.2 163.5 176.9 180.4	71.0 80.8 88.6 99.4 108.2 119.5 143.8 161.7 174.7 178.1	.8 .9 .7 .5 .5 .5 .7 1.0 1.4 1.7	.22 .1 .2 .4 .5 .7 .7 .7	3.3 10.2 27.0 32.7 36.5 28.5 13.4 4.9 10.6 6.7	95.6 88.9 76.8 75.4 74.9 80.8 91.5 97.1 94.3 96.4	94.3 87.7 76.1 74.8 74.4 80.2 90.6 96.1 93.2 95.2	4.4 11.1 23.2 24.6 25.1 19.2 8.5 2.9 5.7 3.6
1950 1951 1952 1954 1954 1956 1957 1958 1958		20.6 28.9 34.0 35.5 32.5 35.4 39.7 42.4 42.1 46.0	205. 5 224. 8 236. 4 255. 7 255. 7 273. 4 291. 3 306. 9 317. 1 336. 1	194. 7 210. 0 220. 4 233. 7 240. 1 258. 5 271. 6 286. 4 295. 4 317. 3	192.0 207.1 217.1 229.7 235.8 253.7 266.0 280.4 289.5 310.8	2.3 2.5 2.9 3.8 4.4 5.5 5.6 6.1	.4 .4 .5 .5 .4 .5 .4 .4 .4	10.8 14.8 16.0 17.0 15.6 14.9 19.7 20.6 21.7 18.8	94.7 93.4 93.2 93.9 93.9 94.6 93.2 93.3 93.2 93.3 93.2	93.4 92.1 91.8 92.2 92.8 91.3 91.4 91.3 91.5	5.3 6.6 6.8 6.1 5.4 6.7 6.8 5.6
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969	399. 7 415. 0 440. 7 463. 1 495. 7 537. 0 584. 9 626. 6 685. 2 745. 8	50. 4 52. 1 56. 8 60. 3 58. 6 64. 9 74. 5 82. 1 97. 1 115. 4	349. 4 362. 9 383. 9 402. 8 437. 0 472. 2 510. 4 544. 5 588. 1 630. 4	332. 3 342. 7 363. 5 384. 0 410. 9 441. 9 477. 4 503. 7 550. 1 595. 3	324.9 335.0 355.2 374.6 400.4 430.2 464.8 490.4 535.9 579.7	7.0 7.3 7.8 8.8 9.9 11.1 12.0 12.5 13.3 14.7	.44 .56 .66 .98 .9	17. 1 20. 2 20. 4 18. 8 26. 1 30. 3 33. 0 40. 9 38. 1 35. 1	95.1 94.4 94.7 94.0 93.6 93.5 93.5 93.5 93.5	93.0 92.3 92.5 93.0 91.6 91.1 91.1 90.0 91.1 92.0	4.9 5.63 5.37 6.5 6.5 5.6 5.6
1970 1971 1972 1973 1974 1975 1976 1977 p	801. 3 859. 1 942. 5 1, 052. 4 1, 154. 9 1, 253. 4 1, 382. 7 1, 536. 1	115.3 116.3 141.2	685.9 742.8 801.3 901.7 984.6 1,084.4 1,185.8 1,308.6	635.4 685.5 751.9 831.3 913.0 1,004.2 1,119.9 1,240.9	618.8 668.2 733.0 809.9 889.6 980.4 1,094.0 1,210.1	15.5 16.2 17.9 20.2 22.4 22.9 25.0 29.6	1.1 1.1 1.0 1.3 1.0 .9 .9 1.2	50. 6 57. 3 49. 4 70. 3 71. 7 80. 2 65. 9 67. 8	92.6 92.3 93.8 92.2 92.7 92.6 94.4 94.8	90. 2 90. 0 91. 5 89. 8 90. 3 90. 4 92. 3 92. 5	7.4 7.7 6.2 7.8 7.3 7.4 5.6 5.2
1975: I 11 11 11 IV	1, 205. 1 1, 234. 7 1, 269. 7 1, 304. 0	179.6 142.5 173.9	1, 025. 4 1, 092. 2 1. 095. 7	960. 1 989. 1 1, 019. 1	936.5 965.9 995.1 1,024.1	22.6 22.4 23.0 23.6	1.0 .8 1.0 .9	65. 4 103. 1 76. 7 75. 5	93.6 90.6 93.0 93.3	91. 3 88. 4 90. 8 91. 1	6.4 9.4 7.0 6.7
1976: [V		184. 8 192. 6 200. 6 209. 5	1, 174.1 1, 193.3	1.128.5	1, 056. 0 1, 078. 5 1, 102. 2 1, 139. 0	23. 8 24. 4 25. 5 26. 3	1.0 .9 .9 1.0	72.4 70.3 64.8 56.3	93, 7 94, 0 94, 6 95, 4	91.6 91.9 92.4 93.2	6.3 6.0 5.4 4.6
1977: 1 1 11 V P.		224. 4 224. 8 226. 1 234. 6	1, 252, 4 1, 292, 5 1, 323, 8 1, 365, 9	1, 201. 0 1, 223. 9 1, 250. 5 1, 288. 1	1, 172, 4 1, 194, 0 1, 218, 9 1, 255, 3	27.5 28.9 30.4 31.6	1.1 1.0 1.3 1.2	51.4 68.5 73.3 77.8	95. 9 94. 7 94. 5 94. 3	93.6 92.4 92.1 91.9	4. 1 5. 3 5. 5 5. 7

[Billions of dollars; quarterly data at seasonally adjusted annual rates, except as noted]

TABLE B-22.—Total and per capita disposable personal income and personal consumption expenditures in current and 1972 dollars, 1929-77

	Dis	osable pe	rsonal incon	ne	Persona	l consump	tion expend	itures	
Year or quarter	Total (b of doll	illions ars)	Per ca (dolla	pita rs)	Total (b of doil	illions ars)	Per ca (dolla	pita irs)	Popu- lation (thou- sands)
-	Current dollars	1972 dollars	Current dollars	1972 dollars	Current dollars	1972 dollars	Current dollars	1972 dollars	
929	82, 3	229. 8	675	1, 886	77.3	215.6	634	1, 769	121, 87
933	45, 5	169, 7	362	1, 350	45.8	170.7	364	1, 358	125, 69
939	69.9	230, 1	534	1, 756	67.0	220. 3	511	1, 681	131, 02
940	75. 2 92. 0 116. 5 132. 9 145. 5 149. 0 158. 6 168. 4 187. 4 187. 1	244. 3 278. 1 317. 3 332. 2 343. 9 338. 6 332. 4 318. 8 335. 5 336. 1	570 690 863 972 1,051 1,065 1,122 1,168 1,278 1,254	1, 849 2, 084 2, 353 2, 429 2, 485 2, 420 2, 351 2, 212 2, 288 2, 253	71.0 80.8 88.6 99.4 108.2 119.5 143.8 161.7 174.7 178.1	230. 4 244. 1 241. 7 248. 7 255. 7 271. 4 301. 4 306. 2 312. 8 320. 0	537 605 657 727 781 854 1,017 1,122 1,192 1,194	1, 744 1, 830 1, 792 1, 819 1, 847 1, 939 2, 131 2, 124 2, 133 2, 145	132, 12 133, 40 134, 86 136, 73 138, 39 139, 92 141, 31 144, 12 146, 63 149, 11
950 951 952 953 954 955 955 956 956 958 958 958 959 959	205.5 224.8 236.4 250.7 273.4 291.3 306.9 317.1 336.1	361. 9 371. 6 382. 1 397. 5 402. 1 425. 9 444. 9 453. 9 459. 0 477. 4	1, 355 1, 457 1, 506 1, 571 1, 574 1, 654 1, 731 1, 792 1, 821 1, 898	2, 386 2, 408 2, 434 2, 491 2, 476 2, 577 2, 643 2, 650 2, 636 2, 696	192. 0 207. 1 217. 1 229. 7 235. 8 253. 7 266. 0 280. 4 289. 5 310. 8	338.1 342.3 350.9 364.2 370.9 395.1 406.3 414.7 419.0 441.5	1,266 1,342 1,383 1,439 1,452 1,535 1,581 1,637 1,662 1,755	2, 229 2, 219 2, 236 2, 283 2, 284 2, 391 2, 415 2, 421 2, 406 2, 493	151, 61 154, 21 156, 9 159, 56 162, 3 165, 2 168, 2 171, 2 174, 1 177, 0
960	349, 4 362, 9 383, 9 402, 8 437, 0 472, 2 510, 4 544, 5 588, 1 630, 4	487.3 500.6 521.6 539.2 577.3 612.4 643.6 669.8 695.2 712.3	1, 934 1, 976 2, 058 2, 128 2, 278 2, 278 2, 430 2, 597 2, 740 2, 930 3, 111	2, 697 2, 725 2, 796 2, 849 3, 009 3, 152 3, 274 3, 371 3, 464 3, 515	324.9 335.0 355.2 374.6 400.4 430.2 464.8 490.4 535.9 579.7	453.0 462.2 482.9 501.4 528.7 558.1 586.1 603.2 633.4 655.4	1,798 1,824 1,904 1,979 2,087 2,214 2,365 2,468 2,670 2,860	2,507 2,516 2,589 2,649 2,649 2,872 2,872 2,982 3,035 3,156 3,234	180, 6 183, 6 186, 5 189, 2 191, 8 194, 3 196, 5 198, 7 200, 7 202, 6
970	685.9 742.8	741.6 769.0 801.3 854.7 842.0 857.3 890.3 930.3	3, 348 3, 588 3, 837 4, 285 4, 646 5, 077 5, 511 6, 035	3, 619 3, 714 3, 837 4, 062 3, 973 4, 014 4, 137 4, 290	618.8 668.2 733.0 809.9 889.6 980.4 1,094.0 1,210.1	668.9 691.9 733.0 767.7 760.7 775.1 821.3 860.3	3, 020 3, 227 3, 510 3, 849 4, 197 4, 591 5, 084 5, 580	3, 265 3, 342 3, 510 3, 648 3, 589 3, 629 3, 817 3, 967	204, 8 207, 0 208, 8 210, 4 211, 9 213, 5 215, 1 216, 8
975: 1 11 11 11 11 11		828. 8 871. 1 859. 1 870. 2	4, 817 5, 120 5, 125 5, 247	3, 893 4, 084 4, 018 4, 062	936. 5 965. 9 995. 1 1, 024. 1	756. 9 770. 4 780. 2 792. 8	4, 399 4, 529 4, 654 4, 780	3, 555 3, 612 3, 649 3, 700	212, 8 213, 2 213, 8 214, 2
976: L H HI HI HI	1, 153. 3 1, 174. 1 1, 193. 3 1, 222. 6	881.5 887.8 890.7 901.5	5, 374 5, 462 5, 540 5, 665	4, 107 4, 130 4, 135 4, 177	1, 056. 0 1, 078. 5 1, 102. 2 1, 139. 0	807.2 815.5 822.7 839.8	4, 921 5, 018 5, 117 5, 278	3, 761 3, 794 3, 820 3, 891	214, 6 214, 9 215, 3 215, 8
1977 : 1 11 111 111 111	1, 252, 4 1, 292, 5 1, 323, 8 1, 365, 9	908. 4 924. 5 934. 4 953. 6	5, 793 5, 967 6, 098 6, 279	4, 202 4, 268 4, 305 4, 383	1, 172, 4 1, 194, 0 1, 218, 9 1, 255, 3	850. 4 854. 1 860. 4 876. 4	5, 422 5, 513 5, 615 5, 770	3, 933 3, 943 3, 964 4, 028	216, 20 216, 60 217, 0 217, 5

[Quarterly data at seasonally adjusted annual rates, except as noted]

¹ Population of the United States including Armed Forces overseas; includes Alaska and Hawaii beginning 1960. Annual data are for July 1 through 1973 and are averages of quarterly data beginning 1974. Quarterly data are average for the period.

Source: Department of Commerce (Bureau of Economic Analysis and Bureau of the Census).

TABLE B-23.-Gross saving and investment, 1929-77

				Gross	saving	··			Gr	oss invest	ment	
Yeat or quarter	Tatab	Gross	private	saving	Govern defici incor	iment su it (—), na ne and p accounts	itional roduct	Capital grants received	Tatal	Gross private domes-	Net	Statis- tical dis- crep-
	Total	Total	Per- sonal saving	Gross busi- ness saving ¹	Total	Fed- eral	State and local	by the United States, (net) ²	Total	tic in- vest- ment	invest- ment ³	ancy
1929	15.9	14.9	3.1	11.7	1.0	1. 2	-0.2		17.0	16.2	0.8	1.1
1933	.9	2, 2	-1.0	3, 2	1.4	-1.3	1		1.6	1.4	.2	.7
1939		10. 9	2.1	8.8	-2.2	-2,2	.0		10.1	9.3	.9	1.4
1940 1941 1943 1943 1944 1945 1946 1947 1947 1948 1948	34.6 41.2 49.0 34.8	14. 2 22. 2 41. 9 49. 4 54. 1 44. 6 29. 2 26. 8 40. 6 38. 2	3. 3 10. 2 27. 0 32. 7 36. 5 28. 5 13. 4 4. 9 10. 6 6. 7	10. 9 12. 0 14. 8 16. 7 17. 7 16. 0 15. 8 21. 8 30. 0 31. 4	$\begin{array}{r}7\\ -3.8\\ -31.4\\ -44.1\\ -51.8\\ -39.5\\ 5.4\\ 14.4\\ 8.4\\ -3.4\end{array}$	$\begin{array}{r} -1.3\\ -5.1\\ -33.1\\ -46.6\\ -54.5\\ -42.1\\ 3.5\\ 13.4\\ 8.3\\ -2.6\end{array}$.6 1.3 1.8 2.5 2.7 2.6 1.9 1.0 .1 7		14. 6 19. 0 9. 7 3. 5 5. 1 9. 2 35. 3 42. 9 47. 8 35. 9	13. 1 17. 9 9. 9 5. 8 7. 2 10. 6 30. 7 34. 0 45. 9 35. 3	$ \begin{array}{r} 1.5\\2\\ -2.2\\ -2.1\\ -1.4\\ 4.6\\ 9.0\\ 2.0\\ .6\end{array} $	$ \begin{array}{r} 1.1\\ .5\\8\\ -1.8\\ 2.7\\ 4.1\\ .7\\ 1.8\\ -1.2\\ 1.0 \end{array} $
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	48, 1 49, 4 65, 6 73, 6 72, 6 60, 4 75, 8	41.6 49.4 53.1 55.0 56.5 62.4 68.4 71.7 73.0 77.3	10. 8 14. 8 16. 0 17. 0 15. 6 14. 9 19. 7 20. 6 21. 7 18. 8	30.8 34.6 37.1 38.0 41.0 47.5 48.7 51.1 51.3 58.5	8.0 6.1 -3.8 -6.9 -7.1 3.1 5.2 9 -12.6 -1.6	9.2 6.5 -3.7 -7.1 -6.0 4.4 6.1 2.3 -10.3 -1.1	0 .1		51.7 59.5 51.9 51.4 52.4 68.0 72.8 72.8 62.0 75.5	53.8 59.2 52.1 53.3 52.7 68.4 71.0 69.2 61.9 77.6	-2.1 .3 2 -1.9 3 1.8 3.6 .1 -2.0	2.0 4.0 2.7 3.3 2.5 8 1.7 2
1960 1961 1962 1963 1964 1965 1966 1966 1967 1968 1969	78.9 75.8 83.6 89.6 100.1 115.4 122.9 120.3 130.8 147.5	75.8 80.0 87.4 88.9 102.4 114.9 124.2 134.6 136.3 136.8	17.1 20.2 20.4 18.8 26.1 30.3 33.0 40.9 38.1 35.1	58.7 59.8 67.0 70.1 76.2 84.6 91.2 93.7 98.2 101.7	$\begin{array}{r} 3.1 \\ -4.3 \\ -3.8 \\ -7 \\ -2.3 \\ -1.3 \\ -14.2 \\ -5.5 \\ 10.7 \end{array}$	$\begin{array}{r} 3.0 \\ -3.9 \\ -4.2 \\ -3.3 \\ -1.8 \\ -13.2 \\ -5.8 \\ 8.5 \end{array}$.5 .5 1.0 0		78. 2 77. 3 87. 6 93. 4 102. 3 116. 3 126. 1 122. 1 130. 2 144. 2	76.4 74.3 85.2 96.6 112.0 124.5 120.8 131.5 146.2	1.7 3.0 2.4 3.2 5.7 4.3 1.6 1.2 -1.4 -2.0	$\begin{array}{r}7\\ 1.6\\ 4.0\\ 3.7\\ 2.2\\ .9\\ 3.2\\ 1.7\\6\\ -3.3\end{array}$
1970 1971 1972 1973 1974 1975 1976 1977 p	143. 4 155. 4 177. 5 216. 8 204. 4 195. 1 237. 0 274. 3	151. 9 173. 0 180. 4 210. 5 209. 5 259. 4 272. 5 294. 7	50, 6 57, 3 49, 4 70, 3 71, 7 80, 2 65, 9 67, 8	101. 4 115. 7 131. 0 140. 2 137. 9 179. 2 206. 6 226. 9	-9.4 -18.3 -3.5 6.3 -3.2 -64.3 -35.6 -20.4	-12.1 -22.0 -17.3 -6.7 -10.7 -70.2 -54.0 -49.6	2.8 3.7 13.7 13.0 7.6 5.9 18.4 29.2	0.9 .7 .7 .0 .0 .0 .0 .0 .0	141. 4 156. 8 179. 2 219. 4 210. 1 201. 0 242. 5 275. 3	140. 8 160. 0 188. 3 220. 0 214. 6 189. 1 243. 3 294. 3	.5 -3.2 -9.0 6 -4.5 11.8 9 -19.1	-2.1 1.3 1.7 2.6 5.8 5.9 5.5 1.0
1975: I 11 111 111 1V	175.6 183.6 209.8 211.4	220. 5 278. 3 268. 8 270. 0	65. 4 103. 1 76. 7 75. 5	155. 1 175. 2 192. 1 194. 5	44.9 94.7 59.0 58.7	48.5 99.2 65.5 67.6	3.7 4.5 6.6 8.9	.0 .0 .0 .0	181.6 187.2 217.8 217.2	175. 1 171. 2 205. 4 204. 7	6.5 16.0 12.4 12.5	6.0 3.5 8.0 5.9
1976: I II III IV	228. 9 242. 1 244. 8 232. 2	276. 0 275. 4 277. 2 261. 6	72.4 70.3 64.8 56.3	203.6 205.1 212.4 205.3	47.1 33.3 32.4 29.4	-60.3 -46.2 -53.5 -55.9	13. 3 12. 9 21. 1 26. 5	.0 .0 .0 .0	233. 1 246. 5 252. 8 237. 5	231. 3 244. 4 254. 3 243. 4	1.8 2.2 -1.5 -5.9	4.2 4.5 8.0 5.3
1977: I II III IV p	251.4 277.2 284.5	262.9 292.1 310.5	51.4 68.5 73.3 77.8	237.2	-11.5 -14.9 -26.0	38.8 40.3 58.9	27.3 25.4 32.9	.0 .0 .0 .0	254.7 276.1 285.4 284.9	271. 8 294. 9 303. 6 307. 0	-17. 1 -18. 8 -18. 2 -22. 1	3.3 -1.2 .9

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ Undistributed corporate profits with inventory valuation and capital consumption adjustments, corporate and non-corporate capital consumption allowances with capital consumption adjustment, and private wage accruals less disburse-

Corporate capital consumption allowances with capital consumption adjustment, and private wage accruals less disbursements.
 A Allocations of special drawing rights (SDR), except as noted in footnote 4.
 Net exports of goods and services less net transfers to foreigners and interest paid by government to foreigners plus capital grants received by the United States, net.
 In February 1974, the U.S. Government paid to India \$2,010 million in rupees under provisions of the Agricultural Trade Development and Assistance Act. This transaction is being treated as capital grants paid to foreigners, i.e., a -\$2.0 billion entry in capital grants received by the United States (net).

Source: Department of Commerce, Bureau of Economic Analysis.

TABLE B-24.-Saving by individuals, 1946-77 1

			Inc	crease in	n financ	ial asset	ts		Neti	nvestme	ent in	Less :	Net inc in debt	
Year or			Cur-		s	ecuritie	s	Insur-			Non-	Mort-		
quarter	Total	Total 2	rency and de- mand de- posits	Sav- ings ac- counts	Gov- ern- ment secu- rities ³	Corpo- rate and for- eign bonds	Corpo- rate equi- ties 4	ance and pen- sion re- serves (⁵)	Non- farm homes	Con- sumer du- rables	cor- po- rate busi- ness assets	gage debt on non- farm homes	Con- sumer credit	Other debt∮
1946	22. 3	18.9	5.6	6.3	-1.4	-0.9	1.1	5.3	3.6	3, 9	2, 1	3.6	2.7	-0.0
1947	21. 0	13.2	.1	3.4	1.6	8	1.1	5.4	6.7	9, 5	2, 0	4.7	3.2	2.6
1948	25. 2	9.0	-2.9	2.2	1.3	1	1.0	5.3	9.1	10, 4	7, 1	4.6	2.9	3.0
1949	21. 4	9.9	-2.0	2.6	1.8	4	.7	5.6	8.4	10, 9	2, 0	4.4	2.9	2.4
1950	30. 4	13.7	2.6	2.5	1	8	.7	6.9	11.8	14.2	7.0	6.7	4.1	5.4
1951	34. 0	19.1	4.6	4.8	6	.2	1.8	6.3	11.7	10.4	4.4	6.6	1.2	3.8
1952	29. 9	23.1	1.6	7.8	2.5	0	1.6	7.7	11.3	7.5	2.0	6.2	4.8	3.0
1953	31. 5	22.6	1.0	8.2	2.5	1	1.0	7.9	12.3	9.6	.8	7.6	3.9	2.2
1954	27. 8	22.1	2.2	9.2	1.0	9	.8	7.8	12.7	7.0	1.5	8.7	1.1	5.8
1955 1956 1957 1958 1959	33. 2 36. 3 36. 1 33. 5 37. 4	27.9 30.0 28.6 31.6 37.1	1.2 1.8 4 3.8 .8	8.6 9.5 12.0 13.9 11.1	5.8 3.9 2.3 -2.5 9.1	.7 1.0 .9 1.2 .4	1.0 2.0 1.5 1.5 .6	8.5 9.5 9.5 10.4 11.9	16.7 15.6 13.2 12.1 15.9	11.6 8.4 7.8 3.5 8.0	2.4 .5 2.1 2.3 3.4	12. 2 11. 2 8. 9 9. 5 12. 8	6.4 3.5 2.6 .2 6.4	6.9 3.5 4.0 6.3
1960	34.9	31. 9	1.0	12.1	3.4	.7	5	11.5	14.3	7.4	3.1	11.7	4.6	5.5
1961	34.7	35. 7	9	18.3	1.8	1	.3	12.1	12.0	4.8	3.3	12.2	1.8	7.1
1962	40.2	39. 6	-1.2	26.2	1.3	4	-2.1	12.7	12.8	9.1	6.3	14.1	5.8	7.5
1963	45.2	46. 5	5	26.3	6.4	.1	-2.5	13.9	13.4	12.2	8.5	16.2	7.9	11.2
1964	54.9	55. 2	4.9	26.2	5.4	5	1	16.1	13.9	15.3	7.7	17.5	8.5	11.2
1965	62.0	58.3	7.5	28.0	3.9	.5	-2.1	16.9	13.4	19.1	11.2	17.0	9.6	13.4
	72.0	60.1	2.4	19.1	11.7	1.4	7	19.2	12.6	21.2	9.4	13.8	6.4	11.1
	72.7	67.8	9.9	35.3	7	4.0	-4.2	19.0	10.9	18.7	8.5	12.5	4.5	16.1
	78.0	73.4	11.1	31.1	5.7	4.2	-6.5	20.2	14.3	24.3	9.4	17.1	10.0	16.2
	69.6	62.7	2.5	9.1	20.3	5.4	-3.7	21.3	14.2	23.8	11.4	18.5	10.4	13.6
1970	97.9	77.7 103.7 128.1 142.8 140.5	8.9 9.1 14.8 12.9 5.6	43.6 67.8 71.0 67.8 57.2	-9.2 -9.9 1.9 22.8 22.6	9.5 8.3 4.4 1.3 4.7	-1.6 -5.1 -4.5 -6.9 -2.2	24.4 27.3 29.3 33.0 36.0	11.7 18.8 25.9 28.2 23.1	17.4 25.1 33.6 39.0 27.0	9.8 13.5 17.8 20.3 2.8	14.1 27.0 41.6 47.1 35.4	5.9 13.1 18.9 22.0 10.2	13.9 23.0 32.1 29.1 20.2
1975	143.0	165. 1	7.1	84. 9	20.7	8.2	-4.1	42. 8	20.8	22.7	8	38.0	9.4	17.4
1976	149.6	191. 4		108. 8	3.2	4.0	-3.8	53. 6	32.8	42.3	-2.5	61.2	23.6	29.6
1976:	148.6	186.7	14.4	96. 3	7.0	5.2	9.1	53.4	28.5	39.5	1.9	54.8	22.7	26.7
	158.6	196.0	1.6	101. 8	7.0	4.6	.0	54.4	31.6	42.4	2.6	54.1	23.1	31.7
	146.4	194.0	8.7	114. 3	-1.4	6.8	4.1	51.0	33.5	42.4	1.4	66.9	23.3	31.9
V	144.5	188.6	7.3	122. 8	.1	7	2.1	55.4	37.9	44.8	4.3	69.3	25.1	28.2
1977: / 	139.9 154.7	213.6	8.5 22.6 5.7	116, 6 88, 9 123, 4	23.5 5.5 31.0	-6.7 7.4 1.2	4	55. 3 73. 2 65. 9	40. 3 46. 2 52. 7	50. 9 48. 2 42. 8	-1.1 4 -4.7	73. 4 90. 3 96. 4	35.5 34.8 32.1	55. (34, 8 40. (

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ Saving by households, personal trust funds, nonprofit institutions, farms, and other noncorporate business.
 ² Includes commercial paper and miscellaneous financial assets, not shown separately.
 ³ Consists of U.S. savings bonds, other U.S. Treasury securities, U.S. Government agency securities and sponsored agency securities, and State and local obligations.
 ⁴ Includes investment company shares.
 ⁵ Private life insurance reserves, private insured and noninsured pension reserves, and government insurance and provide the securities of the securi

pension reserves. ⁶ Security credit, policy loans, noncorporate business mortgage debt, and other debt.

Source: Board of Governors of the Federal Reserve System.

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<u> </u>		Tot		1412 0	neuu.	, 1947– Whi			I Bla	ick and of	ther race	
	Total			nt with	Tatal			nt with			Percei	nt with
Year	Total num- ber (mil- lions)	Median income	Be- low \$5,000	Below pov- erty level	Totai num- ber (mil- lions)	Median income	Be- tow \$5,000	Below pov- erty level	Total num- ber (mil- lions)	Median income	Be- low \$5,000	mes Below pov- erty level
FAMILIES 1947 1948 1949 1950 1951 1952 1952		\$7, 724 7, 538 7, 421 7, 850 8, 128 8, 343 9, 029	26. 8 27. 8 29. 1 27. 0 25. 2 23. 9 22. 5			\$8, 046 7, 827 7, 717 8, 146 8, 457 8, 824 9, 362	23. 4 24. 8 26. 2 24. 4 22. 2 20. 8 20. 1		3.1 3.3	\$4, 112 4, 181 3, 941 4, 419 4, 453 5, 014 5, 249	61. 5 59. 9 62. 5 57. 1 56. 6 50. 5 47. 9	
1950 1951 1952 1953 1953 1955 1955 1956 1957 1958 1959 1959 1960 1961	42.0 42.9 43.5 43.7 44.2 45.1 145.5 146.4	8, 826 9, 393 10, 012 10, 044 10, 015 10, 580 10, 803 10, 913 11, 208	24.0 21.6 19.6 19.9 19.9 18.6 18.5 18.5 17.2	18.5 18.1 18.1 17.2	38.2 39.0 39.5 39.7 40.2 40.9 41.1 41.9 42.4	9, 188 9, 806 10, 477 10, 452 10, 435 11, 021 11, 216 11, 380 11, 738	21.5 19.0 16.9 17.2 17.0 15.9 16.0 15.9 14.8	15.2 14.9 14.8 13.9	3.8 3.9 4.0 4.0 4.2 4.3 4.5 4.6	5, 118 5, 408 5, 512 5, 589 5, 345 5, 693 6, 209 6, 072 6, 262	49.4 46.9 45.7 45.8 47.6 44.8 41.4 42.3 39.4	50. 4 49. 0 49. 0 48. 0
1960 1961 1962 1963 1964 1965 1965 1966 1967 1968 1969 1970	147.5 148.0 148.5 149.2 150.1 150.8 151.6 152.2	11, 618 12, 056 12, 552 13, 212 13, 526 14, 124 14, 648 14, 465	16.4 15.5 14.5 12.7 12.2 10.7 10.5 11.0	15.9 15.0 13.9 11.8 11.4 10.0 9.7 10.1	42.7 43.1 43.5 44.1 44.8 45.4 46.0 46.5	12, 176 12, 586 13, 083 13, 726 14, 039 14, 623 15, 208 15, 006	13.9 13.5 12.5 10.9 10.6 9.2 9.1 9.5	12.8 12.2 11.1 9.3 9.0 8.0 7.7 8.0	4.8 4.8 5.0 5.0 5.1 5.2 5.4	6, 442 7, 044 7, 205 8, 229 8, 685 9, 147 9, 614 9, 553	38. 4 33. 8 32. 3 28. 2 26. 8 23. 6 23. 0 24. 2	43.7 40.0 39.7 33.9 32.1 28.2 26.9 28.1
1970 1970 1971 1972 1973 1974 1974 1974 1975 1975	53.3 54.4 55.1 55.7 55.7 56.2 56.7	14, 457 15, 126 15, 437 14, 817 14, 894 14, 510 14, 958	11. 0 10. 3 9. 8 10. 4 10. 0 11. 0 10. 3	10.0 9.3 8.8 9.2 8.8 9.7 9.4 Below	47.6 48.5 48.9 49.5 49.4 49.9 50.1	15, 001 15, 715 16, 134 15, 418 15, 478 15, 091 15, 537	9.3 8.6 8.1 8.7 8.3 9.3 8.4	7.9 7.1 6.6 7.0 6.8 7.7 7.1 Below	5.7 5.9 6.1 6.3 6.3 6.4 6.6	9, 437 9, 669 9, 730 9, 541 9, 902 9, 859 9, 821	24. 4 24. 4 23. 1 24. 6 23. 8 24. 4 24. 5	27. 4 27. 7 26. 2 26. 0 25. 1 25. 3 26. 4 Below
UNRELATED INDIVIDUALS			Be- low \$3, 000	pov- erty level	1		Be- low \$3, 000	pov- erty level			Be- low \$3, 000	pov- erty level
1947 1948 1949 1949 1950 1951 1952 1953 1954 1955 1955 1957 1958 1959 1959 1960 1961 1862 1863 1964 1965 1961 1864 1965 1964 1965 1964 1965 1967 1968 1970 1971 1972 1973 1974 1974 1975 1976	8.4 9.0 9.1 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	$\begin{array}{c} \$2, 498\\ 2, 356\\ 2, 356\\ 2, 470\\ 2, 618\\ 3, 023\\ 2, 971\\ 2, 589\\ 2, 801\\ 2, 980\\ 2, 980\\ 3, 021\\ 2, 926\\ 3, 041\\ 3, 306\\ 3, 337\\ 3, 348\\ 3, 633\\ 3, 348\\ 4, 017\\ 4, 056\\ 4, 559\\ 4, 551\\ 4, 599\\ 4, 661\\ 4, 559\\ 4, 551\\ 5, 133\\ 5, 165\\ 5, 131\\ 5, 135\\ 5, 155$	$\begin{array}{c} 56.\ 4\\ 58.\ 3\\ 55.\ 7\\ 55.\ 4\\ 53.\ 5\\ 50.\ 3\\ 50.\ 7\\ 55.\ 4\\ 53.\ 5\\ 50.\ 3\\ 50.\ 7\\ 54.\ 6\\ 52.\ 9\\ 50.\ 8\\ 49.\ 9\\ 47.\ 2\\ 49.\ 8\\ 47.\ 9\\ 47.\ 2\\ 46.\ 8\\ 44.\ 7\\ 41.\ 7\\ 40.\ 3\\ 36.\ 3\\ 35.\ 3\\ 34.\ 1\\ 336.\ 3\\ 35.\ 3\\ 34.\ 1\\ 28.\ 5\\ 28.\ 5\\ 28.\ 5\\ 28.\ 5\\ 28.\ 5\\ 27.\ 7$			\$2, 639 2, 490 2, 490 2, 636 2, 756 3, 257 3, 135 2, 977 3, 026 3, 257 3, 231 3, 135 3, 231 3, 135 3, 231 3, 135 3, 527 3, 537 3, 558 3, 559 3, 559 3, 833 3, 559 3, 833 3, 559 4, 224 4, 830 4, 813 4, 813 4, 813 5, 5470 5, 5515 5, 593 5, 509	$\begin{array}{c} 54.\ 4\\ 56.\ 6\\ 53.\ 6\\ 53.\ 6\\ 52.\ 4\\ 49.\ 6\\ 50.\ 8\\ 49.\ 6\ 10\ 6\\ 49.\ 6\ 10\ 10\ 10\ 10\ 10\ 10\ 10\ 10\ 10\ 10$		1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.4 1.4 1.4 1.4 1.5 1.6 1.5 1.6 1.5 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.6 1.6 1.5 1.6 1.6 1.6 1.6 1.5 1.6 1.6 1.6 1.6 1.6 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	\$1,901 1,866 1,957 1,951 2,053 2,465 1,988 2,053 2,126 2,053 2,126 2,053 2,126 2,053 2,126 2,053 2,126 2,052 2,053 2,055	$\begin{array}{c} 69.9\\ 70.0\\ 65.9\\ 70.0\\ 65.9\\ 70.0\\ 65.9\\ 70.0\\ 65.9\\ 70.0\\$	

 TABLE B-25.—Number and money income (in 1976 dollars) of families and unrelated individuals by race of head, 1947-76

¹ Revised using population controls based on the 1970 census. Such controls are not available by race. ² Based on revised methodology procedures.

Note.—The poverty level is based on the poverty index adopted by a Federal interagency committee in 1969. That index reflects different consumption requirements for families based on size and composition, sex and age of family head, and farm-nonfarm residence. The poverty threshold is updated every year to reflect changes in the consumer price index. For further details, see "Current Population Reports", Series P-60, No. 107, Bureau of the Census.

Source: Department of Commerce, Bureau of the Census.

POPULATION, EMPLOYMENT, WAGES, AND PRODUCTIVITY

TABLE B-26.—Population by age groups, 1929-77

[Thousands of persons]

					Age (years)			
July 1	Total	Under 5	5-15	16-19	20-24	25-44	45-64	65 and over
1929	121, 767	11, 734	26, 800	9, 127	10, 694	35, 862	21, 076	6, 474
1933	125, 579	10, 612	26, 897	9, 302	11, 152	37, 319	22, 933	7, 363
1939	130, 880	[.] 10, 418	25, 179	9, 822	11, 519	39, 354	25, 823	8, 764
1940	132, 122	10, 579	24, 811	9, 895	11, 690	39, 868	26, 249	9, 031
1941	133, 402	10, 850	24, 516	9, 840	11, 807	40, 383	26, 718	9, 288
1942	134, 860	11, 301	24, 231	9, 730	11, 955	40, 861	27, 196	9, 584
1943	136, 739	12, 016	24, 093	9, 607	12, 064	41, 420	27, 671	9, 867
1944	138, 397	12, 524	23, 949	9, 561	12, 062	42, 016	28, 138	10, 147
1945	139, 928	12, 979	23, 907	9, 361	12, 036	42, 521	28, 630	10, 494
1946	141, 389	13, 244	24, 103	9, 119	12, 004	43, 027	29, 064	10, 828
1947	144, 126	14, 406	24, 468	9, 097	11, 814	43, 657	29, 498	11, 185
1948	146, 631	14, 919	25, 209	8, 952	11, 794	44, 288	29, 931	11, 538
1949	149, 188	15, 607	25, 852	8, 788	11, 700	44, 916	30, 405	11, 921
1950	152, 271	16, 410	26, 721	8, 542	11, 680	45, 672	30, 849	12, 397
1951	154, 878	17, 333	27, 279	8, 446	11, 552	46, 103	31, 362	12, 803
1952	157, 553	17, 312	28, 894	8, 414	11, 350	46, 495	31, 884	13, 203
1953	160, 184	17, 638	30, 227	8, 460	11, 062	46, 786	32, 394	13, 617
1954	163, 026	18, 057	31, 480	8, 637	10, 832	47, 001	32, 942	14, 07 6
1955	165, 931	18, 566	32, 682	8, 744	10, 714	47, 194	33, 506	14, 525
1956	168, 903	19, 003	33, 994	8, 916	10, 616	47, 379	34, 057	14, 938
1957	171, 984	19, 494	35, 272	9, 195	10, 6 03	47, 440	34, 591	15, 388
1958	174, 882	19, 887	36, 445	9, 543	10, 756	47, 337	35, 109	15, 806
1959	177, 830	20, 175	37, 368	10, 215	10, 969	47, 192	35, 663	16, 248
1960	180, 671	20, 341	38, 494	10, 683	11, 134	47, 140	36, 203	16,675
1961	183, 691	20, 522	39, 765	11, 025	11, 483	47, 084	36, 722	17,089
1962	186, 538	20, 469	41, 205	11, 180	11, 959	47, 013	37, 255	17,457
1963	189, 242	20, 342	41, 626	12, 007	12, 714	46, 994	37, 782	17,778
1964	191, 889	20, 165	42, 297	12, 736	13, 269	46, 958	38, 338	18,127
1965	194, 303	19, 824	42, 938	13, 516	13, 746	46, 912	38, 916	18, 451
1966	196, 560	19, 208	43, 702	14, 311	14, 050	47, 001	39, 534	18, 755
1967	198, 712	18, 563	44, 244	14, 200	15, 248	47, 194	40, 193	19, 071
1968	200, 706	17, 913	44, 622	14, 452	15, 786	47, 721	40, 846	19, 365
1969	202, 677	17, 376	44, 840	14, 800	16, 480	48, 064	41, 437	19, 680
1970	204, 878	17, 148	44, 774	15, 275	17, 184	48, 435	41, 975	20, 087
1971	207, 053	17, 177	44, 441	15, 635	18, 089	48, 811	42, 413	20, 488
1972	208, 846	16, 990	43, 948	15, 946	18, 032	50, 254	42, 785	20, 892
1973	210, 410	16, 694	43, 227	16, 310	18, 345	51, 411	43, 077	21, 346
1974	211, 901	16, 288	42, 538	16, 590	18, 741	52, 593	43, 319	21, 833
1975	213, 559	15, 879	41, 956	16, 793	19, 229	53, 735	43, 546	22, 420
1976	215, 142	15, 343	41, 459	16, 928	19, 629	55, 130	43, 705	22, 947
1977	216, 817	15, 236	40, 572	16, 966	20, 073	56, 692	43, 784	23, 494

Note.—Includes Armed Forces overseas beginning 1940. Includes Alaska and Hawaii beginning 1950. Source: Department of Commerce, Bureau of the Census.

				Civil	ian labor :	force		Unem- ploy-		ian labor cipation r	
Year or	Nonin- stitu- tional	Armed Forces 1		E	mployme	nt		ment rate (percent			
month	popu- lation ¹	roices+	Total	Total	Agri- cul- tural	Non- agri- cul- tural	Unem- ploy- ment	of civilian labor force)	Total	Males	Females
		Thousand	ls of perso	ons 14 yea	rs of age a	ind over			Per	cent	
1929		260	49, 180	47, 630	10, 450	37, 180	1, 550	3. 2			
1933		250	51, 590	38, 760	10, 090	28, 670	12, 830	24.9		•	
1939		370	55, 230	45, 750	9, 610	36, 140	9, 480	17.2			
1940	100, 380	540	55, 640	47, 520	9, 540	37, 980	8, 120	14.6	55.7	83.7	28. 1
1941	101, 520	1,620	55, 910	50, 350	9, 100	41, 250	5, 560	9.9	56.0	84.3	28. 7
1942	102, 610	3,970	56, 410	53, 750	9, 250	44, 500	2, 660	4.7	57.2	85.6	31. 3
1943	103, 660	9,020	55, 540	54, 470	9, 080	45, 390	1, 070	1.9	58.7	86.4	36. 0
1944	104, 630	11,410	54, 630	53, 960	8, 950	45, 010	670	1.2	58.6	87.0	36. 5
1945	105, 530	11, 440	53, 860	52, 820	8, 580	44, 240	1, 040	1.9	57.2	84.8	35.9
1946	106, 520	3, 450	57, 520	55, 250	8, 320	46, 930	2, 270	3.9	55.8	82.6	31.2
1947	107, 608	1, 590	60, 168	57, 812	8, 256	49, 557	2, 356	3.9	56.8	84.0	31.0
		Thousan	ds of pers	ons 16 yea	irs of age	and over					
1947	103, 418	1, 591	59, 350	57,038	7, 890	49, 148	2, 311	3.9	58. 3	86.4	31.8
1948	104, 527	1, 459	60, 621	58,343	7, 629	50, 714	2, 276	3.8	58. 8	86.6	32.7
1949	105, 611	1, 617	61, 286	57,651	7, 658	49, 993	3, 637	5.9	58. 9	86.4	33.1
1950	106,645	1, 650	62, 208	58, 918	7, 160	51, 758	3,288	5.3	59. 2	86. 4	33.9
1951	107,721	3, 100	62, 017	59, 961	6, 726	53, 235	2,055	3.3	59. 3	86. 5	34.6
1952	108,823	3, 592	62, 138	60, 250	6, 500	53, 749	1,883	3.0	59. 0	86. 3	34.7
1953 ³	110,601	3, 545	63, 015	61, 179	6, 260	54, 919	1,834	2.9	58. 9	86. 0	34.4
1954	111,671	3, 350	63, 643	60, 109	6, 205	53, 904	3,532	5.5	58. 8	85. 5	34.6
1955	112,732	3,049	65, 023	62, 170	6, 450	55,722	2, 852	4.4	59. 3	85.3	35.7
1956	113,811	2,857	66, 552	63, 799	6, 283	57,514	2, 750	4.1	60. 0	85.5	36.9
1957	115,065	2,800	66, 929	64, 071	5, 947	58,123	2, 859	4.3	59. 6	84.8	36.9
1958	116,363	2,636	67, 639	63, 036	5, 586	57,450	4, 602	6.8	59. 5	84.2	37.1
1958	117,881	2,552	68, 369	64, 630	5, 565	59,065	3, 740	5.5	59. 3	83.7	37.1
1960 ³	119,759	2, 514	69, 628	65, 778	5,458	60, 318	3, 852	5.5	59. 4	83.3	37.7
1961	121,343	2, 572	70, 459	65, 746	5,200	60, 546	4, 714	6.7	59. 3	82.9	38.1
1962 ³	122,981	2, 828	70, 614	66, 702	4,944	61, 759	3, 911	5.5	58. 8	82.0	37.9
1963	125,154	2, 738	71, 833	67, 762	4,687	63, 076	4, 070	5.7	58. 7	81.4	38.3
1964	127,224	2, 739	73, 091	69, 305	4,523	64, 782	3, 786	5.2	58. 7	81.0	38.7
1965	129, 236	2, 723	74, 455	71,088	4, 361	66, 726	3, 366	4.5	58. 9	80. 7	39.3
1966	131, 180	3, 123	75, 770	72,895	3, 979	68, 915	2, 875	3.8	59. 2	80. 4	40.3
1967	133, 319	3, 446	77, 347	74,372	3, 844	70, 527	2, 975	3.8	59. 6	80. 4	41.1
1968	135, 562	3, 535	78, 737	75,920	3, 817	72, 103	2, 817	3.6	59. 6	80. 1	41.6
1968	137, 841	3, 506	80, 734	77,902	3, 606	74, 296	2, 832	3.5	60. 1	79. 8	42.7
1970	140, 182	3, 188	82,715	78, 627	3, 462	75, 165	4, 088	4.9	60. 4	79.7	43. 3
1971	142, 596	2, 817	84,113	79, 120	3, 387	75, 732	4, 993	5.9	60. 2	79.1	43. 3
1972 ³	145, 775	2, 449	86,542	81, 702	3, 472	78, 230	4, 840	5.6	60. 4	79.0	43. 9
1973 ³	148, 263	2, 326	88,714	84, 409	3, 452	80, 957	4, 304	4.9	60. 8	78.8	44. 7
1974	150, 827	2, 229	91,011	85, 935	3, 492	82, 443	5, 076	5.6	61. 2	78.7	45. 6
1975	153, 449	2, 180	92, 613	84, 783	3, 380	81, 403	7, 830	8.5	61. 2	77.9	46.3
1976	156, 048	2, 144	94, 773	87, 485	3, 297	84, 188	7, 288	7.7	61. 6	77.5	47.3
1977	158, 559	2, 133	97, 401	90, 546	3, 244	87, 302	6, 855	7.0	62. 3	77.7	48.4

TABLE B-27.—Noninstitutional population and the labor force, 1929-77

[Monthly data seasonally adjusted, except as noted]

See footnotes at end of table.

				Civiliar	n labor fo	rce		Unem-		ian labo icipatio	
Year or month	Nonin- stitu- tional	Armed		E	mploymen	ıt		pioy- ment rate			
	popu- lation 1	Forces 1	Total	Total	Agri- cul- turał	Non- agri- cul- tural	Unem- ploy- ment	(percent of civilian labor force)	Total	Males	Females
	Т	housands	of persons	s 16 years	of age and	d over			Pe	rcent	
1975: Jan Feb Mar Apr May June	152,646	2, 193 2, 198 2, 198 2, 198 2, 195 2, 181 2, 178	92, 008 91, 694 92, 053 92, 234 92, 821 92, 433	84, 642 84, 263 84, 180 84, 153 84, 379 84, 382	3, 361 3, 340 3, 332 3, 278 3, 504 3, 350	81, 281 80, 923 80, 848 80, 875 80, 875 81, 032	7, 366 7, 431 7, 873 8, 081 8, 442 8, 051	8.0 8.1 8.6 8.8 9.1 8.7	61.3 61.0 61.2 61.2 61.5 61.5	78.2 78.0 78.1 78.0 78.3 77.9	46.2 45.8 46.1 46.2 46.5 46.3
July Aug Sept Oct Nov Dec	153, 824 154, 052 154, 256 154, 476	2, 186 2, 185 2, 170 2, 164 2, 155 2, 157	92, 833 92, 877 92, 979 93, 002 92, 966 93, 182	84, 813 85, 063 85, 120 85, 188 85, 281 85, 495	3, 428 3, 405 3, 493 3, 374 3, 305 3, 244	81, 385 81, 658 81, 627 81, 814 81, 976 82, 251	8, 020 7, 814 7, 859 7, 814 7, 685 7, 685	8.6 8.4 8.5 8.4 8.3 8.3 8.2	61.3 61.2 61.2 61.1 61.1 61.0 61.1	78.1 77.8 77.8 77.5 77.5 77.3	46.4 46.4 46.4 46.5 46.3 46.6
1976: Jan Feb Mar Apr May June	155, 106 155, 325 155, 516 155, 711	2, 140 2, 146 2, 148 2, 144 2, 144 2, 142 2, 137	93, 652 93, 757 93, 936 94, 391 94, 568 94, 549	86, 293 86, 552 86, 828 87, 217 87, 527 87, 432	3, 337 3, 265 3, 266 3, 392 3, 295 3, 298	82, 956 83, 287 83, 562 83, 825 84, 232 84, 134	7, 359 7, 205 7, 108 7, 174 7, 041 7, 117	7.9 7.7 7.6 7.6 7.4 7.5	61.3 61.3 61.3 61.5 61.6 61.6	77.4	46.8 46.9 47.0 47.1 47.2 47.3
July Aug Sept Oct Nov Dec	156, 367 156, 595 156, 788 157, 006	2, 140 2, 147 2, 145 2, 145 2, 147 2, 149 2, 149 2, 146	95, 176 95, 208 95, 089 95, 197 95, 741 95, 936	87, 801 87, 806 87, 777 87, 844 88, 255 88, 446	3, 324 3, 353 3, 265 3, 290 3, 238 3, 240	84, 477 84, 453 84, 512 84, 554 85, 017 85, 206	7, 375 7, 402 7, 312 7, 353 7, 486 7, 490	7.7 7.8 7.7 7.7 7.8 7.8 7.8	61.8 61.7 61.6 61.6 61.8 61.9	77.5	47.6 47.6 47.4 47.3 47.7 47.7
1977: Jan Feb Mar Apr May June	157, 584 157, 782 157, 986 158, 228	2, 133 2, 137 2, 138 2, 132 2, 128 2, 128 2, 129	95, 719 96, 320 96, 623 96, 746 97, 161 97, 552	88, 653 89, 047 89, 478 89, 877 90, 267 90, 648	3, 121 3, 164 3, 179 3, 256 3, 335 3, 330	85, 532 85, 883 86, 299 86, 621 86, 932 87, 318	7, 066 7, 273 7, 145 6, 869 6, 894 6, 904	7.4 7.6 7.4 7.1 7.1 7.1	61.7 62.0 62.1 62.1 62.2 62.4	77.7	48.5
July Aug Sept Oct Nov Dec	158, 899 159, 114 159, 334 159, 522	2, 137 2, 131 2, 134 2, 132	97, 307 97, 614 97, 756 98, 071 98, 877 98, 919	90, 588 90, 793 91, 088 91, 383 92, 214 92, 609	3, 206 3, 224 3, 199 3, 243 3, 357 3, 357 3, 323	87, 382 87, 569 87, 889 88, 140 88, 857 89, 286	6, 719 6, 821 6, 668 6, 688 6, 663 6, 310	6.9 7.0 6.8 6.8 6.7 6.4	62. 2 62. 3 62. 3 62. 4 62. 8 62. 8	77.5	48.9

TABLE B-27.-Noninstitutional population and the labor force, 1929-77-Continued [Monthly data seasonally adjusted, except as noted]

¹ Not seasonally adjusted.
² Civilian labor force as percent of civilian noninstitutional population.
³ 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 about 350,000 to labor force, total employment, and agricultural employment. Beginning 1960, inclusion of Alaska and Hawaii added about 500,000 to population, about 300,000 to labor force, and about 340,000 to nabout 300,000 to labor force, and about 350,000 to nabout 300,000 to nabout 300,000 to labor force, and about 350,000 to nabout 300,000 to labor force, and about 350,000 to nabout 300,000 to nabout 300,000

Note.—Labor force data in Tables B–27 through B–32 are based on household interviews and relate to the calendar week including the 12th of the month. For definitions of terms, area samples used, historical comparability of the data, comparability with other series, etc., see "Employment and Earnings."

			Er	nploymer	nt					Une	mploym	ent	·	
Year or			Males			Females				Male	s		Fema	les
month	Total	Total	16-19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
1947	57, 038	40, 99 4	2, 218	38, 776	16, 045	1, 691	14, 354	2, 311	1, 692	270	1, 422	619	144	475
1948	58, 343	41, 726	2, 345	39, 382	16, 618	1, 683	14, 937	2, 276	1, 559	255	1, 305	717	152	564
1949	57, 651	40, 926	2, 124	38, 803	16, 723	1, 588	15, 137	3, 637	2, 572	352	2, 219	1, 065	223	841
1950	58, 918	41, 580	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, 182	1, 611	16, 570	2, 055	1, 221	191	1, 029	834	145	689
1952	60, 250	41, 684	2, 106	39, 578	18, 570	1, 612	16, 958	1, 883	1, 185	205	980	698	140	559
1953 ¹	61, 179	42, 431	2, 135	40, 296	18, 750	1, 584	17, 164	1, 834	1, 202	184	1, 019	632	123	510
1954	60, 109	41, 620	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, 550	1, 548	18, 002	2, 852	1, 854	274	1, 580	998	209	823
1956	63, 799	43, 380	2, 164	41, 216	20, 422	1, 654	18, 767	2, 750	1, 711	269	1, 442	1, 039		832
1957	64, 071	43, 357	2, 117	41, 239	20, 714	1, 663	19, 052	2, 859	1, 841	299	1, 541	1, 018		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		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		1, 063
1960 ¹	65, 778	43, 904	2, 360	41, 543	21, 874	1, 769	20, 105	3, 852	2, 486	425	2,060	1, 366	349	1,080
1961	65, 746	43, 656	2, 314	41, 342	22, 090	1, 793	20, 296	4, 714	2, 997	479	2,518	1, 717		1,368
1962 ¹	66, 702	44, 177	2, 362	41, 815	22, 525	1, 833	20, 693	3, 911	2, 423	407	2,016	1, 488		1,175
1963	67, 762	44, 657	2, 406	42, 251	23, 105	1, 849	21, 257	4, 070	2, 472	500	1,971	1, 598		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		1,195
1965 1966 1967 1968 1968	71, 088 72, 895 74, 372 75, 920 77, 902	46, 340 46, 919 47, 479 48, 114 48, 818	2, 918 3, 252 3, 186 3, 255 3, 430	43, 422 43, 668 44, 293 44, 859 45, 388	24, 748 25, 976 26, 893 27, 807 29, 084	2, 118 2, 469 2, 497 2, 525 2, 686	22, 630 23, 510 24, 397 25, 281 26, 397	3, 366 2, 875 2, 975 2, 817 2, 832	1,914 1,551 1,508 1,419 1,403	479 432 448 427 441	1, 435 1, 120 1, 060 993 963	1, 452 1, 324 1, 468 1, 397 1, 429	404 391 412	1, 056 921 1, 078 985 1, 016
1970	78, 627	48, 960	3, 407	45, 553	29, 667	2, 734	26, 933	4, 088	2, 235	599	1, 636	1, 853	506	1, 347
1971	79, 120	49, 245	3, 470	45, 775	29, 875	2, 725	27, 149	4, 993	2, 776	691	2, 086	2, 217	567	1, 650
1972 ¹	81, 702	50, 630	3, 750	46, 880	31, 072	2, 972	28, 100	4, 840	2, 635	707	1, 928	2, 205	595	1, 610
1973 ¹	84, 409	51, 963	4, 017	47, 946	32, 446	3, 219	29, 228	4, 304	2, 240	647	1, 594	2, 064	579	1, 485
1974	85, 935	52, 518	4, 074	48, 445	33, 417	3, 329	30, 088	5, 076	2, 668	749	1, 918	2, 408	660	1, 748
1975	84, 783	51, 230	3, 803	47, 427	33, 553	3, 243	30, 310	7, 830	4, 385	957	3, 428	3, 445	795	2, 649
1976	87, 485	52, 391	3, 904	48, 486	35, 095	3, 365	31, 730	7, 288	3, 968	928	3, 041	3, 320	773	2, 546
1977	90, 546	53, 861	4, 124	49, 737	36, 685	3, 486	33, 199	6, 855	3, 588	861	2, 727	3, 267	781	2, 486
1976: Jan Feb Mar Apr May_ June_	86, 293 86, 552 86, 828 87, 217 87, 527 87, 432	51, 819 51, 990 52, 084 52, 341 52, 432 52, 286	3, 857 3, 885 3, 889 3, 910 3, 908 3, 877	47, 962 48, 105 48, 195 48, 431 48, 524 48, 409	34, 474 34, 562 34, 744 34, 876 35, 095 35, 146	3, 308 3, 291 3, 339 3, 370 3, 454 3, 380	31, 166 31, 271 31, 405 31, 506 31, 641 31, 766	7, 359 7, 205 7, 108 7, 174 7, 041 7, 117	4, 073 3, 923 3, 898 3, 933 3, 854 3, 902	946 924 922 1, 009 948 828	3, 127 2, 999 2, 976 2, 924 2, 906 3, 074	3, 286 3, 282 3, 210 3, 241 3, 187 3, 215	760 781 769 766 752 751	2, 526 2, 501 2, 441 2, 475 2, 435 2, 464
July Aug Sept_ Oct Nov Dec	87, 801 87, 806 87, 777 87, 844 88, 255 88, 446	52, 485 52, 567 52, 543 52, 622 52, 679 52, 816	3, 984 3, 970 3, 856 3, 906 3, 884 3, 953	48, 501 48, 597 48, 687 48, 716 48, 795 48, 863	35, 316 35, 239 35, 234 35, 222 35, 576 35, 630	3, 498 3, 362 3, 323 3, 363 3, 374 3, 301	31, 818 31, 877 31, 911 31, 859 32, 202 32, 329	7, 375 7, 402 7, 312 7, 353 7, 486 7, 490	3, 977 3, 881 3, 949 3, 972 4, 125	901 910 918 952 943 939	3, 076 2, 971 3, 031 3, 020 3, 182 3, 174	3, 398 3, 521 3, 363 3, 381 3, 361 3, 377	761 873 750 758 772 791	2, 637 2, 648 2, 613 2, 623 2, 589 2, 586
1977: Jan_ Feb_ Mar_ Apr_ May_ June	88, 653 89, 047 89, 478 89, 877 90, 267 90, 648	52, 962 53, 094 53, 301 53, 482 53, 644 54, 006	3, 955 3, 958 4, 004 4, 063 4, 139 4, 156	49, 007 49, 136 49, 297 49, 419 49, 505 49, 850	35, 691 35, 953 36, 177 36, 395 36, 623 36, 642	3, 319 3, 421 3, 435 3, 441 3, 374 3, 563	32, 372 32, 532 32, 742 32, 954 33, 249 33, 079	7, 066 7, 273 7, 145 6, 869 6, 894 6, 904	3, 839 3, 978 3, 812 3, 592 3, 638 3, 543	829 905 914 864 870 882	3, 010 3, 073 2, 898 2, 728 2, 768 2, 661	3, 227 3, 295 3, 333 3, 277 3, 256 3, 361	811 783 797 803 794 811	2, 416 2, 512 2, 536 2, 474 2, 462 2, 550
July	90, 588	53, 901	4, 173	49, 728	36, 687	3, 527	33, 160	6, 719	3, 498	851	2, 647	3, 221	762	2, 459
Aug	90, 793	53, 942	4, 155	49, 787	36, 851	3, 688	33, 163	6, 821	3, 533	875	2, 658	3, 288	765	2, 523
Sept_	91, 088	53, 964	4, 076	49, 888	37, 124	3, 434	33, 690	6, 668	3, 354	876	2, 478	3, 314	801	2, 513
Oct	91, 383	54, 341	4, 223	50, 118	37, 024	3, 505	33, 537	6, 688	3, 469	848	2, 621	3, 219	772	2, 447
Nov	92, 214	54, 745	4, 286	50, 459	37, 469	3, 546	33, 923	6, 663	3, 352	840	2, 512	3, 311	783	2, 528
Dec	92, 609	55, 012	4, 324	50, 688	37, 597	3, 588	34, 009	6, 310	3, 213	779	2, 434	3, 097	688	2, 409

TABLE B-28.—Civilian employment and unemployment by sex and age, 1947-77

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

¹See footnote 3, Table B-27.

Note.—See Note, Table B-27.

TABLE B-29.-Selected employment and unemployment data, 1948-77

[Percent 1; monthly data seasonally adjusted]

				Un	employm	ent rate	l					
		By	sex and	age		By s	elected g	roups		Employ of	ment as populatio	percent m 5
Year or month	All work- ers	Both sexes 16–19 years	Males 20 years and over	Females 20 years and over	Expe- rienced wage and salary work- ers	House- hold heads	Mar- ried men ²	Full- time work- ers 3	Blue- collar work- ers 4	Total	White	Black and other
1948 1949	3. 8 5. 9	9. 2 13. 4	3. 2 5. 4	3.6 5.3	4.3 6.8		3.5	5.4	4.2 8.0	55. 8 54. 6		
1950	5.3 3.0 2.9 5.5 4.4 4.1 4.3 6.8 5.5	12.2 8.2 8.5 7.6 12.6 11.0 11.1 11.6 15.9 14.6	4.7 2.5 2.4 2.5 4.9 3.8 3.4 3.6 6.2 4.7	5.1 4.0 3.2 2.9 5.5 4.4 4.2 4.1 6.1 5.2	6.0 3.7 3.3 4.2 4.8 4.4 4.6 7.2 5.7		4.6 1.5 1.4 1.7 4.0 2.8 2.6 2.8 5.1 3.6	5.0 2.6 2.5 5.2 3.8 3.7 4.0 7.2	7.2 3.9 3.6 3.4 7.2 5.8 5.1 6.2 10.2 7.6	55. 2 55. 7 55. 4 55. 3 53. 8 55. 1 56. 1 55. 7 54. 2 54. 8		
1960	5.5	14.7 16.8 14.7 17.2 16.2 14.8 12.8 12.8 12.7 12.2	4.7 5.7 4.6 3.9 3.2 2.5 2.3 2.2 2.1	5.1 6.3 5.4 5.2 4.5 3.8 4.2 3.8 3.7	5.7 6.8 5.6 5.5 4.3 3.5 3.6 3.4 3.3	3. 7 3. 2 2. 7 2. 2 2. 1 1. 9 1. 8	3.7 4.6 3.6 3.4 2.8 2.4 1.9 1.8 1.6 1.5	6.7 5.5 4.9 4.2 3.5 3.4 3.1 3.1	7.8 9.2 7.4 7.3 6.3 5.3 4.2 4.4 4.1 3.9	54.9 54.2 54.1 54.5 55.0 55.6 55.8 56.0 56.5	54.0 54.3 54.8 55.4 55.4 55.7 55.9 56.5	55, 2 56, 1 56, 8 57, 2 56, 9 56, 6 56, 7
1970 1971 1972 1973 1974 1975 1976 1977	5.9 5.6 4.9 5.6 8.5 7 7	15. 2 16. 9 16. 2 14. 5 16. 0 19. 9 19. 0 17. 7	3.5 4.4 4.0 3.2 3.8 6.7 5.9 5.2	4, 8 5, 7 5, 4 4, 8 5, 5 8, 0 7, 4 7, 0	4.8 5.7 5.3 4.5 5.3 8.2 7.3 6.6	2.9 3.6 3.3 2.9 3.3 5.8 5.1 4.5	2.6 3.2 2.8 2.3 2.7 5.1 4.2 3.6	4.5 5.5 5.1 4.3 5.1 8.1 7.3 6.5	6.2 7.4 6.5 5.3 6.7 11.7 9.4 8.1	56. 1 55. 5 56. 0 56. 9 57. 0 55. 3 56. 1 57. 1	56. 2 55. 7 56. 4 57. 3 57. 5 55. 9 56. 8 57. 9	55. 5 53. 7 53. 0 53. 0 53. 0 50. 0 50. 5 51. 1
1976: Jan Feb Mar Apr May June	7.7	19.2 19.2 19.0 19.6 18.8 17.9	6.1 5.9 5.8 5.7 5.7 6.0	7.5 7.4 7.2 7.3 7.1 7.2	7.6 7.3 7.2 7.2 7.1 7.2	5.3 5.0 5.0 4.9 5.1	4.2 4.2 4.2 4.1 4.1 4.3	7.4 7.2 7.1 7.1 7.0 7.3	9.5 9.4 9.2 9.0 9.0 9.4	55.7 55.8 55.9 56.1 56.2 56.1	56.4 56.6 56.8 56.9 56.9	50. 3 49. 4 51. 0 51. 0 50. 2 50. 5
July Aug Sept Oct Nov Dec	7.8 7.7 7.7 7.8	18.2 19.6 18.9 19.0 19.1 19.3	6.0 5.8 5.9 5.8 6.1 6.1	7.7 7.7 7.6 7.6 7.4 7.4	7.5 7.5 7.3 7.4 7.4 7.4	5.4 5.2 5.3 5.2 5.2 5.2 5.1	4.4 4.2 4.4 4.3 4.4 4.2	7.2 7.4 7.4 7.4 7.3 7.4	9.6 9.7 9.8 9.5 9.4 9.6	56. 2 56. 2 56. 1 56. 0 56. 2 56. 3	57.0 56.9 56.8 56.9 56.9 56.9 56.9 57.1	50. 5 50. 5 50. 5 50. 3 50. 9 50. 8
1977: Jan Feb Mar Apr May June	7.6 7.4 7.1 7.1	18.4 18.6 18.7 18.2 18.1 18.0	5.8 5.9 5.6 5.2 5.3 5.1	6.9 7.2 7.2 7.0 6.9 7.2	7.0 7.1 6.9 6.6 6.7 6.5	4.9 4.9 4.7 4.5 4.5 4.3	3.8 4.1 3.8 3.7 3.6 3.4	6.9 6.9 6.8 6.6 6.5	8.5 8.8 8.5 7.9 8.0 7.8	56.3 56.5 56.7 56.9 57.0 57.2	57.1 57.3 57.5 57.7 57.9 58.0	50.9 51.0 50.9 50.9 50.8 51.3
July Aug Sept Oct Nov Dec	6.9 7.0 6.8 6.8 6.7	17.3 17.3 18.3 17.3 17.2 15.6	5. 1 5. 1 4. 7 5. 0 4. 7 4. 6	6,9 7.1 6,9	6.4 6.5 6.3 6.5 6.3 6.0	4.4 4.5 4.4 4.4 4.2 3.9	3.4 3.5 3.3 3.6 3.3 3.2	6.5 6.6 6.4 6.2 5.9	8.1 8.3 7.8 8.0 7.6 7.2	57.1 57.1 57.2 57.4 57.8 58.0	57.9 58.0 58.1 58.3 58.7 58.7 58.7	50.4 50.6 51.0 50.8 51.3 51.3 52.7

¹ Unemployment as percent of civilian labor force in group specified.
 ² Married men living with their wives. Data for 1949 and 1951-54 are for April; 1950, for March.
 ³ Data for 1949-61 are for May.
 ⁴ Includes craft and kindred workers, operatives, and nonfarm laborers. Data for 1948-57 are based on data for January, April, July, and October.
 ⁵ Civilian employment as percent of total noninstitutional population.

Note .- See footnote 3 and Note, Table B-27.

				White						Blac	k and c	ther		
			Males			Female	5			Males			Females	
Year or month	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
1948 1949	3.5 5.6							5.9 8.9						
1950 1951 1952 1953 1954	4.9 3.1 2.8 2.7 5.0							9.0 5.3 5.4 4.5						
1954 1955 1956 1957 1958 1959	5.0 3.9 3.6 3.8 6.1 4.8	4.8 3.7 3.4 3.6 6.1 4.6	13.4 11.3 10.5 11.5 15.7 14.0	4.4 3.3 3.0 3.2 5.5 4.1	5.5 4.3 4.2 4.3 6.2 5.3	10. 4 9. 1 9. 7 9. 5 12. 7 12. 0	5.1 3.9 3.7 3.8 5.6 4.7	9.9 8.7 8.3 7.9 12.6 10.7	10.3 8.8 7.9 8.3 13.7 11.5	14.4 13.4 15.0 18.4 26.8 25.2	9.9 8.4 7.4 7.6 12.7 10.5	9.2 8.5 8.9 7.3 10.8 9.4	20.6 19.2 22.8 20.2 28.4 27.7	8.4 7.7 7.8 6.4 9.5 8.3
1960 1961 1962 1963 1964	4.9 6.0 4.9 5.0 4.6	4.8 5.7 4.6 4.7 4.1	14. 0 15. 7 13. 7 15. 9 14. 7	4.2 5.1 4.0 3.9 3.4	5.3 6.5 5.5 5.8 5.5	12.7 14.8 12.8 15.1 14.9	4.6 5.7 4.7 4.8 4.6	10. 2 12. 4 10. 9 10. 8 9. 6	10.7 12.8 10.9 10.5 8.9	24. 0 26. 8 22. 0 27. 3 24. 3	9.6 11.7 10.0 9.2 7.7	9.4 11.9 11.0 11.2 10.7	24.8 29.2 30.2 34.7 31.6	8.3 10.6 9.6 9.4 9.0
1965 1966 1967 1968 1969		3.6 2.8 2.7 2.6 2.5	12.9 10.5 10.7 10.1 10.0	2.9 2.2 2.1 2.0 1.9	5.0 4.3 4.6 4.3 4.2	14.0 12.1 11.5 12.1 11.5	4.0 3.3 3.8 3.4 3.4	8.1 7.3 7.4 6.7 6.4	7.4 6.3 6.1 5.6 5.3	23.3 21.3 23.9 22.1 21.4	6.0 4.9 4.3 3.9 3.7	9.2 8.7 9.1 8.3 7.8	31.7 31.3 29.6 28.7 27.6	7.5 6.6 7.1 6.3 5.8
1970 1971 1972 1973 1974		4.0 4.9 4.5 3.7 4.3	13, 7 15, 1 14, 2 12, 3 13, 5	3.2 4.0 3.6 2.9 3.5	5.4 6.3 5.9 5.3 6.1	13.4 15.1 14.2 13.0 14.5	4.4 5.3 4.9 4.3 5.0	8.2 9.9 10.0 8.9 9.9	7.3 9.1 8.9 7.6 9.1	25.0 28.9 29.7 26.9 31.6	5.6 7.2 6.8 5.7 6.8	9.3 10.8 11.3 10.5 10.7	34.4 35.4 38.5 34.5 34.6	6.9 8.7 8.8 8.2 8.4
1975 1976 1977	7.8 7.0 6.2	7.2 6.4 5.5	18, 3 17, 3 15, 0	6,2 5,4 4,6	8.6 7.9 7.3	17.4 16.4 15.9	7,5 6.8 6.2	13. 9 13. 1 13. 1	13.7 12.7 12.4	35.4 35.4 37.0	11.7 10.6 10.0	14.0 13.6 14.0	38.5 39.0 39.9	11.5 11.3 11.7
1976: Jan Feb Mar Apr May June	7.9 7.7 7.6 7.6 7.4 7.5	7.2 6.9 6.8 6.8 6.8 6.8	18.6 17.3 17.7 18.4 17.6 15.5	5.5 5.1 5.2 5.1 5.2 5.4	8.1 7.9 7.7 7.8 7.5 7.6	16.5 17.1 16.2 16.0 15.2 15.8	7.0 6.7 6.7 6.5 6.5	13. 3 13. 6 12. 7 13. 0 12. 3 13. 4	13.0 13.1 12.3 12.4 11.9 13.1	33. 1 35. 2 32. 6 35. 9 36. 1 39. 3	11.1 11.0 10.4 10.1 9.6 10.8	13.5 14.2 13.1 13.7 12.8 13.9	37.8 36.5 39.0 41.3 39.9 43.1	11.2 12.1 10.6 11.0 10.2 11.3
July Aug Sept Oct Nov Dec	7.7 7.8 7.7 7.7 7.8 7.8 7.8	7.1 7.1 7.1 7.1 7.1 7.1 7.0	16.9 16.6 16.8 17.5 17.9 17.2	5, 5 5, 4 5, 6 5, 5 5, 5 5, 4	8.0 8.3 7.9 8.0 8.0 7.9	15. 4 18. 0 16. 2 16. 2 16. 4 17. 3	7.0 7.0 6.9 7.0 6.9 6.8	13. 0 13. 4 12. 8 13. 3 13. 3 13. 5	12. 3 12. 5 12. 2 12. 9 13. 4 13. 4	29.8 36.9 38.4 37.7 35.2 35.2	10.7 10.2 9.8 10.5 11.3 11.3	13.9 14.4 13.5 13.7 13.3 13.6	39. 0 42. 7 37. 4 38. 5 37. 6 35. 3	11.6 11.7 11.4 11.5 11.1 11.7
1977: Jan Feb Mar Apr May June	7.4 7.6 7.4 7.1 7.1 7.1	6.7 6.8 6.6 6.3 6.3	15.9 16.2 16.3 15.5 15.1 15.6	5.2 5.3 5.0 4.8 4.7 4.5	7.7 7.6 7.6 7.4 7.2 7.5	17.7 16.7 -16.9 17.0 16.9 15.7	6.4 6.4 6.5 6.2 6.0 6.5	12.6 13.1 12.9 12.3 12.9 13.2	12.1 12.2 12.1 10.6 12.3 11.8	34. 5 38. 4 40. 0 34. 4 38. 5 35. 7	10. 1 9. 9 9. 6 8. 6 10. 0 9. 6	13.2 14.1 13.8 14.2 13.6 14.7	38. 2 36. 3 37. 4 37. 4 38. 4 44. 8	11.0 12.2 11.8 12.2 11.6 11.8
July Aug Sept Oct Nov Dec	6.9 7.0 6.8 6.7 6.4	6.1 6.1 6.0 5.9 5.5	13.7 14.8 15.5 14.5 14.0 12.5	4.5 4.4 4.2 4.4 4.1 4.0	7.2 7.3 7.3 7.1 7.1 6.6	15.0 14.5 16.2 15.4 15.5 12.8	6.2 6.3 6.2 6.1 6.1 5.9	13. 3 14. 3 13. 1 13. 7 13. 7 12. 7	13.0 14.2 12.6 13.5 12.6 11.6	40. 0 37. 9 34. 5 35. 8 38. 4 36. 1	10.2 11.7 10.5 11.3 10.0 9.1	13.6 14.3 13.7 13.9 14.9 13.9	41. 7 41. 4 40. 8 40. 5 39. 9 40. 4	11. 1 11. 8 11. 2 11. 4 12. 6 11. 5

TABLE B-30. Unemployment rate by demographic characteristic, 1948-77

[Percent 1; monthly data seasonally adjusted]

¹ Unemployment as percent of civilian labor force in group specified.

Note .--- See Note, Table B-27.

TABLE B-31.—Unemployment by duration, 1947-77

	Total un-	-	Duration of un	employment		Average
Year or month	employ- ment	Less than 5 weeks	5-14 weeks	15-26 weeks	27 weeks and over	(mean) duration in weeks
	Th	iousands of per	sons 16 years	of age and o	ver	
947 948 949	2, 311 2, 276 3, 637	1, Ž10 1, 300 1, 756	704 669 1, 194	234 193 428	164 116 256	8.6 10.0
950	3,288	1,450	1,055	425	357	12.1
	2,055	1,177	574	166	137	9.7
	1,883	1,135	516	148	84	8.4
	1,834	1,142	482	132	78	8.0
	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, 975	1,634	893	271	177	8.8
1968	2, 817	1,594	810	256	156	8.4
1969	2, 832	1,629	827	242	133	7.9
1970	4,088	2, 137	1,289	427	235	8.7
1971	4,993	2, 234	1,578	665	517	11.3
1972	4,840	2, 223	1,459	597	562	12.0
1973	4,304	2, 196	1,2 96	475	337	10.0
1974	5,076	2, 567	1,572	563	373	9.7
1975	7,830	2, 894	2, 452	1,290	1,193	14. 1
1976	7,288	2, 790	2, 159	1,003	1,336	15. 8
1977	6,855	2, 856	2, 089	896	1,015	14. 3
1976: Jan	7, 359	2, 665	2, 096	1, 145	1, 593	16. 7
Feb	7, 205	2, 687	1, 921	981	1, 535	16. 3
Mar	7, 108	2, 586	1, 946	963	1, 449	16. 4
Apr	7, 174	2, 934	1, 939	721	1, 396	15. 9
May	7, 041	2, 813	2, 004	860	1, 211	15. 1
June	7, 117	2, 729	2, 249	930	1, 306	16. 8
July	7, 375	2, 923	2, 159	1, 023	1, 221	15. 6
	7, 402	2, 855	2, 342	1, 085	1, 248	15. 5
	7, 312	2, 849	2, 337	1, 078	1, 194	15. 3
	7, 353	2, 881	2, 274	1, 095	1, 243	15. 3
	7, 486	2, 761	2, 420	1, 110	1, 279	15. 4
	7, 490	2, 843	2, 298	1, 124	1, 338	15. 4
1977: Jan Feb Mar Apr May June	7, 066 7, 273 7, 145 6, 869 6, 894 6, 904	2, 784 2, 863 2, 944 3, 041 2, 789 3, 076	2, 118 2, 142 2, 140 1, 899 2, 128 2, 050	1, 020 959 859 720 812 826	1, 224 1, 209 1, 149 1, 108 1, 057 962	15. 14. 14. 14. 14. 14. 14.
July Aug Sept Oct Nov Dec	6, 719 6, 821 6, 668 6, 688 6, 663 6, 310	2, 820 2, 865 2, 784 2, 804 2, 851 2, 628	2, 050 2, 237 2, 152 2, 117 2, 037 1, 937	881 933 908 920 936 941	943 867 926 928 893 856	14, 13, 14, 13, 13, 13, 13,

[Monthly data seasonally adjusted 1]

¹ Because of independent seasonal adjustment of the various series, detail will not add to totals.

Note .--- See footnote 3 and Note, Table B-27.

TABLE B-32. — Unemployment	by reason,	1967-77
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[Monthly	data	seasonally	adjusted ¹)
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Year or month	Total unemployment	Job Iosers	Job leavers	Reentrants	New entrants
		Thousands of per	sons 16 years of	age and over	
1967	2, 975	1, 229	438	945	396
1968	2, 817	1, 070	431	909	407
1969	2, 832	1, 017	436	965	413
1970	4, 088	1, 809	549	1, 227	503
	4, 993	2, 313	587	1, 466	627
	4, 840	2, 089	635	1, 444	672
	4, 304	1, 666	674	1, 323	642
	5, 076	2, 205	756	1, 441	672
1975	7, 830	4, 341	812	1, 865	812
1976	7, 288	3, 625	886	1, 895	882
1977	6, 855	3, 103	889	1, 926	938
1977 : Jan	7, 066	3, 264	932	1, 981	915
Feb	7, 273	3, 425	881	1, 972	942
Mar	7, 145	3, 212	916	2, 000	999
Apr	6, 869	3, 043	868	1, 993	985
May	6, 894	3, 080	913	1, 961	890
June	6, 904	2, 972	938	1, 917	1, 087
July	6, 719	3, 042	842	1,860	973
Aug	6, 821	3, 197	891	1,872	947
Sept	6, 668	3, 055	869	1,879	935
Oct	6, 688	3, 035	876	1,906	857
Nov	6, 663	2, 969	881	1,891	901
Dec	6, 310	2, 748	877	1,886	820
	l	Percen	t of civilian labo	r force	
1967	3.8	1.6	0.6	1.2	0.5
1968	3.6	1.3	.5	1.2	.5
1969	3.5	1.2	.5	1.2	.5
1970	4.9	2.2	.7	1.5	.6
	5.9	2.8	.7	1.7	.7
	5.6	2.4	.7	1.7	.8
	4.9	1.9	.8	1.5	.7
	5.6	2.4	.8	1.6	.7
1975	8.5	4.7	.9	2.0	.9
1976	7.7	3.8	.9	2.0	.9
1977	7.0	3.2	.9	2.0	1.0
1977: Jan Feb Mar Apr June	7.4 7.6 7.4 7.1 7.1 7.1	3.4 3.6 3.3 3.1 3.2 3.0	1.0 .9 .9 .9 .9 .9	2. 1 2. 0 2. 1 2. 1 2. 0 2. 0 2. 0	1.0 1.0 1.0 1.0 .9 1.1
July Aug Sept Oct Nov Dec	6.9 7.0 6.8 6.7 6.4	3. 1 3. 3 3. 1 3. 1 3. 0 2. 8	.9 .9 .9 .9 .9	1.9 1.9 1.9 1.9 1.9 1.9	1.0 1.0 1.0 .9 .9 .8

¹ Because of independent seasonal adjustment of the various series, detail will not add to totals.

Note .--- See footnote 3 and Note, Table B-27.

	ĺ	All program	15		S	itate progr	ams	ms		
Year or month	Covered employ- ment ¹	Insured unem- ploy- ment (weekly aver- age) ²³	Total benefits paid (millions of dol- lars) ^{2 4}	Insured unem- płoy- ment	Initial claims	Ex- haus- tions⁵	insured unem- ploy- ment as percent of cov- ered employ- ment	Benefit Total (mil- lions of dol- lars) 4	Average weekly check (dol- lars) ⁶	
	Thou	sands		Weekly a	verage; tho	usands				
1946 1947 1948 1949	31, 856 33, 876 34, 646 33, 098	2, 804 1, 793 1, 446 2, 474	2, 878. 5 1, 785. 5 1, 328. 7 2, 269. 8	1, 295 997 980 1, 973	189 187 200 340	38 24 20 37	4.3 3.1 3.0 6.2	1, 094. 9 775. 1 789. 9 1, 736. 0	18.50 17.83 19.03 20.48	
1950 1951 1952 1953 1954 1955 1956 1956 1957 1958 1959	34, 308 36, 334 37, 006 38, 072 36, 622 40, 018 42, 751 43, 436 44, 411 45, 728	1, 605 1, 000 1, 069 1, 067 2, 051 1, 399 1, 323 1, 571 3, 269 2, 099	1, 467, 6 862, 9 1, 043, 5 1, 050, 6 2, 291, 6 1, 560, 2 1, 540, 6 1, 913, 0 4, 290, 6 2, 854, 3	1, 513 969 1, 044 990 1, 870 1, 265 1, 215 1, 446 2, 526 1, 684	236 208 215 218 304 226 227 270 369 277	36 16 18 15 34 25 20 23 50 33	4.6 2.9 2.8 5.2 3.5 3.6 6.4 4.4	1, 373, 1 840, 4 998, 2 962, 2 2, 026, 9 1, 350, 3 1, 380, 7 1, 733, 9 3, 512, 7 2, 279, 0	20. 76 21. 09 22. 79 23. 58 24. 93 25. 04 27. 02 28. 17 30. 58 30. 41	
1 960 1 961 1 962 1 963 1 964 1 965 1 966 1 967 1 968 1 968	46, 334 46, 266 47, 776 48, 434 49, 637 51, 580 54, 739 56, 342 57, 977 59, 999	2, 071 2, 994 1, 946 7 1, 973 1, 753 1, 450 1, 129 1, 270 1, 187 1, 177	3, 022. 8 4, 358. 1 3, 145. 1 3, 025. 9 2, 749. 2 2, 360. 4 1, 890. 9 2, 191. 0 2, 298. 6	1, 908 2, 290 1, 783 7 1, 806 1, 605 1, 328 1, 061 1, 205 1, 111 1, 101	331 350 302 7 298 268 232 203 226 201 200	31 46 32 30 26 21 15 17 16	4.8 5.6 4.4 3.0 2.3 2.5 2.2 2.1	2, 726. 7 3, 422. 7 2, 675. 4 2, 774. 7 2, 522. 1 2, 166. 0 1, 771. 3 2, 092. 3 2, 031. 6 2, 127. 9	32. 87 33. 80 34. 56 35. 27 35. 92 37. 19 39. 75 41. 25 43. 43 46. 17	
1970 1971 1972 1973 1974 1975 1976 p 1977 p	59, 526 59, 375 66, 458 69, 897 72, 451 71, 037 * 73, 459	2, 070 2, 608 2, 192 1, 793 2, 558 4, 937 3, 846 3, 112	4, 209. 3 6, 154. 0 5, 491. 1 4, 517. 3 6, 933. 9 16, 802. 4 12, 344. 8	1, 805 2, 150 1, 848 1, 632 2, 262 3, 986 2, 991 2, 473	296 295 261 247 363 478 386 375	25 39 35 29 37 81 63	3.4 4.1 3.5 2.7 3.5 6.0 4.6 3.6	3, 848. 5 4, 957. 0 4, 471. 0 4, 007. 6 5, 974. 9 11, 754. 7 8, 974. 5	50, 34 53, 23 56, 76 59, 00 64, 25 70, 23 75, 16	
1976: Jan Feb Mar Apr May June	 	4, 962 4, 721 4, 366 3, 917 3, 564 3, 457	1, 344, 9 1, 231, 9 1, 338, 7 1, 141, 5 938, 3 977, 8	3, 012 2, 865 2, 815 2, 807 2, 888 2, 950	367 345 354 373 394 401	76 74 71 69 65 64	4.6 4.4 4.3 4.2 4.3 4.4	1, 018.6 945.1 1, 022.4 860.5 691.3 715.2	74.71 75.66 75.71 75.50 74.97 74.27	
July Aug Sept Oct Nov Dec		3, 642 3, 446 3, 235 3, 217 3, 453 3, 884	950. 4 947. 8 886. 3 821. 2 909. 2 1, 074. 8	3, 017 3, 110 3, 134 3, 127 3, 085 2, 915	404 403 409 411 391 365	60 58 55 51 53 53	4, 5 4, 7 4, 7 4, 7 4, 6 4, 4	703.0 695.8 633.7 590.6 666.7 819.0	73.66 73.91 74.40 75.47 75.95 77.29	
1977: Jan Feb Mar Apr May June		4, 442 4, 448 3, 972 3, 506 3, 105 2, 939	1, 212, 0 1, 214, 5 1, 322, 0 998, 5 887, 0 882, 8	2, 823 2, 822 2, 636 2, 565 2, 565 2, 568	407 430 344 374 383 372	63 64 64 56 59	4. 2 4. 2 4. 0 3. 8 3. 8 3. 8 3. 8	955. 3 975. 6 1, 038. 5 763. 1 666. 0 658. 3	78. 61 80. 48 79. 60 78. 63 77. 69 76. 90	
July Aug Sept Oct p Nov p		3, 065 2, 751 2, 643 2, 649 2, 853 3, 225	784. 5 824. 8 712. 2 774. 6	2, 626 2, 733 2, 664 2, 624 2, 602 2, 516	385 385 368 361 354 346	53 52 47 46 45	3, 9 4, 0 3, 9 3, 8 3, 8 3, 7	592. 4 671. 3 565. 2 584. 2 604. 6	75. 91 77. 16 77. 75 77. 08 79. 37	

TABLE B-33.-Unemployment insurance programs, selected data, 1946-77

Monthly data are seasonally adjusted.
 Includes persons under the State, UCFE (Federal employee, effective January 1955), and RRB (Railroad Retirement Board) programs. Beginning October 1958, also includes the UCX program (unemploymentcompensation for ex-servicemen).
 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) and SUA (special unemployment assistance) programs.
 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 94 percent of the total.

Source: Department of Labor, Employment and Training Administration.

	Total	Ma	nufacturi	ng			Trans- porta-		Fi-		Gover	nment
Year or month	wage and salary work- ers	Total	Dura- ble goods	Non- dura- ble goods	Min- ing	Con- tract con- struc- tion	tion and pub- lic utili- ties	Whole- sale and retait trade	nance, insur- ance, and reat estate	Serv- ices	Fed- eral	State and local
1929	31, 339	10, 702			1, 087	1, 497	3, 916	6, 123	1, 509	3, 440	533	2, 532
1933	23, 711	7, 397			744	809	2, 672	4, 755	1, 295	2, 873	565	2, 601
1939	30, 618	10, 278	4, 715	5, 564	854	1, 150	2, 936	6, 426	1, 462	3, 517	905	3, 090
1940	32, 376	10, 985	5, 363	5, 622	925	1, 294	3, 038	6, 750	1, 502	3, 681	996	3, 206
1941	36, 554	13, 192	6, 968	6, 225	957	1, 790	3, 274	7, 210	1, 549	3, 921	1, 340	3, 320
1942	40, 125	15, 280	8, 823	6, 458	992	2, 170	3, 460	7, 118	1, 538	4, 084	2, 213	3, 270
1943	42, 452	17, 602	11, 084	6, 518	925	1, 567	3, 647	6, 982	1, 502	4, 148	2, 905	3, 174
1944	41, 883	17, 328	10, 856	6, 472	892	1, 094	3, 829	7, 058	1, 476	4, 163	2, 928	3, 116
1945	40, 394	15, 524	9, 074	6, 450	836	1, 132	3, 906	7, 314	1, 497	4, 241	2, 808	3, 137
1946	41, 674	14, 703	7, 742	6, 962	862	1, 661	4, 061	8, 376	1, 697	4, 719	2, 254	3, 341
1947	43, 881	15, 545	8, 385	7, 159	955	1, 982	4, 166	8, 955	1, 754	5, 050	1, 892	3, 582
1948	44, 891	15, 582	8, 326	7, 256	994	2, 169	4, 189	9, 272	1, 829	5, 206	1, 863	3, 787
1948	43, 778	14, 441	7, 489	6, 953	930	2, 165	4, 001	9, 264	1, 857	5, 264	1, 908	3, 948
1950	45, 222	15, 241	8, 094	7, 147	901	2, 333	4,034	9, 386	1, 919	5, 382	1, 928	4, 098
1951	47, 849	16, 393	9, 089	7, 304	929	2, 603	4,226	9, 742	1, 991	5, 576	2, 302	4, 087
1952	48, 825	16, 632	9, 349	7, 284	898	2, 634	4,248	10, 004	2, 069	5, 730	2, 420	4, 188
1953	50, 232	17, 549	10, 110	7, 438	866	2, 623	4,290	10, 247	2, 146	5, 867	2, 305	4, 340
1954	49, 022	16, 314	9, 129	7, 185	791	2, 612	4,084	10, 235	2, 234	6, 002	2, 188	4, 563
1955	50, 675	16, 882	9, 541	7, 340	792	2, 802	4, 141	10, 535	2, 335	6, 274	2, 187	4, 727
1956	52, 408	17, 243	9, 834	7, 409	822	2, 999	4, 244	10, 858	2, 429	6, 536	2, 209	5, 069
1957	52, 894	17, 174	9, 856	7, 319	828	2, 923	4, 241	10, 886	2, 477	6, 749	2, 217	5, 399
1958	51, 363	15, 945	8, 830	7, 116	751	2, 778	3, 976	10, 750	2, 519	6, 806	2, 191	5, 648
1958	53, 313	16, 675	9, 373	7, 303	732	2, 960	4, 011	11, 127	2, 594	7, 130	2, 233	5, 850
1960	54, 234	16, 796	9, 459	7, 336	712	2, 885	4, 004	11, 391	2, 669	7, 423	2, 270	6, 083
1961	54, 042	16, 326	9, 070	7, 256	672	2, 816	3, 903	11, 337	2, 731	7, 664	2, 279	6, 315
1962	55, 596	16, 853	9, 480	7, 373	650	2, 902	3, 906	11, 566	2, 800	8, 028	2, 340	6, 550
1963	56, 702	16, 995	9, 616	7, 380	635	2, 963	3, 903	11, 778	2, 877	8, 325	2, 358	6, 868
1964	58, 331	17, 274	9, 816	7, 458	634	3, 050	3, 951	12, 160	2, 957	8, 709	2, 348	7, 248
1965	60, 815	18, 062	10, 406	7, 656	632	3, 186	4, 036	12, 716	3, 023	9, 087	2, 378	7, 696
1966	63, 955	19, 214	11, 284	7, 930	627	3, 275	4, 151	13, 245	3, 100	9, 551	2, 564	8, 227
1967	65, 857	19, 447	11, 439	8, 008	613	3, 208	4, 261	13, 606	3, 225	10, 099	2, 719	8, 679
1968	67, 951	19, 781	11, 626	8, 155	606	3, 306	4, 311	14, 099	3, 381	10, 622	2, 737	9, 109
1968	70, 442	20, 167	11, 895	8, 272	619	3, 525	4, 435	14, 704	3, 562	11, 228	2, 758	9, 444
1970	70, 920	19, 349	11, 195	8, 154	623	3, 536	4, 504	15, 040	3, 687	11, 621	2, 731	9, 830
1971	71, 222	18, 572	10, 597	7, 975	609	3, 639	4, 457	15, 352	3, 802	11, 903	2, 696	10, 192
1972	73, 714	19, 090	11, 006	8, 084	625	3, 831	4, 517	15, 975	3, 943	12, 392	2, 684	10, 656
1973	76, 896	20, 068	11, 839	8, 229	644	4, 015	4, 644	16, 674	4, 091	13, 021	2, 663	11, 075
1974	78, 413	20, 046	11, 895	8, 151	694	3, 957	4, 696	17, 017	4, 208	13, 617	2, 724	11, 453
1975	77, 051	18, 347	10, 679	7, 668	745	3, 512	4, 498	17, 000	4, 223	14, 006	2, 748	11, 973
1976	79, 443	18, 956	11, 026	7, 930	783	3, 594	4, 509	17, 694	4, 316	14, 644	2, 733	12, 215
1977 P	82, 140	19, 555	11, 480	8, 075	831	3, 845	4, 590	18, 281	4, 509	15, 334	2, 727	12, 468

 TABLE B-34.—Wage and salary workers in nonagricultural establishments, 1929-77

 [Thousands of persons; monthly data seasonally adjusted]

See footnotes at end of table.

TABLE B-34.—Wage and salary workers in nonagricultural establishments, 1929-77—Continued

	Total	Ma	nufacturii	ng		Con-	Trans- porta-	Whole-	Fi-		Gover	nment
Year or month	wage and salary work- ers	Total	Dura- ble goods	Non- dura- ble goods	Min- ing	tract con- struc- tion	tion and pub- lic utili- ties	sale and retail trade	nance, insur- ance, and real estate	Serv- ices	Fed- erai	State and local
1975: Jan Feb Mar Apr May June	77, 280 76, 832 76, 507 76, 441 76, 524 76, 460	18, 783 18, 394 18, 237 18, 166 18, 175 18, 118	11, 088 10, 828 10, 735 10, 642 10, 597 10, 533	7, 695 7, 566 7, 502 7, 524 7, 578 7, 585	725 729 731 734 741 743	3, 724 3, 605 3, 479 3, 448 3, 442 3, 412	4, 594 4, 556 4, 506 4, 508 4, 496 4, 478	16, 903 16, 865 16, 851 16, 830 16, 848 16, 899	4, 215 4, 210 4, 208 4, 205 4, 212 4, 206	13, 843 13, 865 13, 864 13, 878 13, 903 13, 898	2, 736 2, 735 2, 735 2, 735 2, 735 2, 736 2, 741	11, 757 11, 873 11, 896 11, 937 11, 971 11, 965
July Aug Sept Oct Nov Dec	76, 720 77, 064 77, 384 77, 626 77, 749 78, 032	18, 114 18, 254 18, 396 18, 477 18, 479 18, 570	10, 491 10, 563 10, 649 10, 664 10, 652 10, 713	7, 623 7, 691 7, 747 7, 813 7, 827 7, 857	745 750 752 759 762 767	3, 434 3, 474 3, 517 3, 523 3, 548 3, 571	4, 473 4, 471 4, 467 4, 476 4, 476 4, 487 4, 473	16, 979 17, 055 17, 133 17, 150 17, 188 17, 282	4,248	13, 997 14, 049 14, 118 14, 182 14, 218 14, 265	2, 750 2, 753 2, 757 2, 759 2, 759 2, 756 2, 752	12, 017 12, 036 12, 009 12, 058 12, 063 12, 096
1976: Jan Feb Mar Apr May June	78, 413 78, 650 78, 929 79, 228 79, 263 79, 402	18, 707 18, 797 18, 897 18, 983 18, 975 18, 973	10, 809 10, 870 10, 950 11, 004 11, 052 11, 053	7, 898 7, 927 7, 947 7, 979 7, 923 7, 920	767 767 772 775 776 782	3, 595 3, 579 3, 575 3, 613 3, 602 3, 602	4, 485 4, 504 4, 503 4, 510 4, 503 4, 491	17, 401 17, 469 17, 537 17, 608 17, 645 17, 682	4, 266 4, 276 4, 289 4, 282	14, 342 14, 397 14, 460 14, 536 14, 567 14, 625	2, 749 2, 742 2, 735 2, 735 2, 735 2, 732 2, 728	12, 106 12, 129 12, 174 12, 179 12, 181 12, 214
July Aug Sept Oct Nov Dec	79, 520 79, 606 79, 895 79, 835 80, 127 80, 370	18, 956 18, 958 19, 064 18, 970 19, 070 19, 114	11, 046 11, 069 11, 119 11, 046 11, 126 11, 165	7, 910 7, 889 7, 945 7, 924 7, 944 7, 949	790 753 798 800 805 809	3, 605 3, 582 3, 572 3, 586 3, 609 3, 605	4, 508 4, 506 4, 524 4, 511 4, 523 4, 549	17, 737 17, 778 17, 839 17, 807 17, 848 17, 925	4, 312 4, 316 4, 338 4, 359 4, 381 4, 398	14, 664 14, 736 14, 783 14, 805 14, 858 14, 936	2, 723 2, 729 2, 728 2, 727 2, 727 2, 731 2, 720	12, 225 12, 248 12, 249 12, 270 12, 302 12, 314
1977: Jan Feb Mar Apr May June	80, 574 80, 870 81, 331 81, 620 81, 837 82, 157	19, 219 19, 278 19, 417 19, 499 19, 566 19, 611	11, 236 11, 261 11, 373 11, 404 11, 451 11, 484	7, 983 8, 017 8, 044 8, 095 8, 115 8, 127	817 824 841 847 845 856	3, 549 3, 661 3, 759 3, 830 3, 853 3, 888	4, 544 4, 553 4, 563 4, 575 4, 586 4, 588	17, 994 18, 039 18, 118 18, 175 18, 202 18, 264	4, 419 4, 431 4, 453 4, 463 4, 481 4, 494	15, 010 15, 068 15, 149 15, 182 15, 197 15, 260	2, 721 2, 721 2, 725 2, 721 2, 721 2, 725 2, 735	12, 301 12, 295 12, 306 12, 328 12, 382 12, 382 12, 461
July Aug Sept Oct Nov P. Dec P.	82, 407 82, 474 82, 763 82, 902 83, 222 83, 439	19, 666 19, 594 19, 612 19, 666 19, 717 19, 876	11, 548 11, 527 11, 545 11, 604 11, 627 11, 746	8, 118 8, 067 8, 067 8, 062 8, 090 8, 130	833 818 856 859 863 713	3, 913 3, 893 3, 892 3, 911 3, 946 3, 964	4, 572 4, 581 4, 616 4, 610 4, 630 4, 660	18, 322 18, 377 18, 431 18, 414 18, 486 18, 511	4, 506 4, 524 4, 545 4, 572 4, 600 4, 618	15, 372 15, 448 15, 482 15, 533 15, 601 15, 676	2, 721 2, 732 2, 728 2, 730 2, 727 2, 727 2, 722	12, 502 12, 507 12, 601 12, 607 12, 652 12, 659

[Thousands of persons; monthly data seasonally adjusted]

Note.—Data in Tables B-34 through P-36 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 12th of the month. Not comparable with labor force data (Tables B-27 through B-32), which include proprietors, self-employed persons, domestic servants, and unpaid family workers; which count persons as employed when they are not at work because of industrial disputes, bad weather, etc., even if they are not paid for the time off and which are based on a sample of the working-age population, whereas the estimates in this table are based on reports from employing establishments. For description and details of the various establishment data, see "Employment and Earnings."

TABLE B-35.—Average weekly hours and hourly cornings in selected private nonagricultural industries, 1947-77

	A	verage w	eekiy ho	urs	Averag	ge gross curren	hourly ea t dollars	arnings,	Adj total	usted ho private n	urly earn onagricul	ings, Itural 2
Year or month	Total private nonag- ricul- tural 1	Manu- factur- ing	Con- tract con- struc- tion	Whole- sale and retail trade	Total private non- agri- cul- tural 1	Manu- factur- ing	Con- tract con- struc- tion	Whole- sale and retail trade	Inc 1967 Cur- rent	lex, =100	cha fru a v	cent nge om lier 4 1967
<u> </u>									dol- lars	dol- lars ³	dol- lars	dol- lars
1947 1948 1949		40.4 40.0 39.1	38. 2 38. 1 37. 7	40. 5 40. 4 40. 5	\$1. 131 1. 225 1. 275	\$1.217 1.328 1.378	\$1. 541 1. 713 1. 792	\$0. 940 1. 010 1. 060	42.6 46.0 48.2	63.7 63.8 67.5	8.0 4.8	0. 2 5. 8
1950	39.8	40.5	37.4	40, 5	1.335	1.440	1.863	1. 100	50. 0	69.3	3.7	2.7
1951	39.9	40.6	38.1	40, 5	1.45	1.56	2.02	1. 18	53. 7	69.0	7.4	4
1952	39.9	40.7	38.9	40, 0	1.52	1.65	2.13	1. 23	56. 4	70.9	5.0	2.8
1953	39.6	40.5	37.9	39, 5	1.61	1.74	2.28	1. 30	59. 6	74.4	5.7	4.9
1954	39.1	39.6	37.2	39, 5	1.65	1.78	2.39	1. 35	61. 7	76.6	3.5	3.0
1955		40, 7	37.1	39.4	1.71	1.86	2.45	1.40	63.7	79.4	3.2	3.7
1956		40, 4	37.5	39.1	1.80	1.95	2.57	1.47	67.0	82.3	5.2	3.7
1957		39, 8	37.0	38.7	1.89	2.05	2.71	1.54	70.3	83.4	4.9	1.3
1958		39, 2	36.8	38.6	1.95	2.11	2.82	1.60	73.2	84.5	4.1	1.3
1959		40, 3	37.0	38.8	2.02	2.19	2.93	1.66	75.8	86.8	3.6	2.7
1960		39.7	36.7	38.6	2.09	2.26	3. 08	1.71	78.4	88.4	3.4	1.8
1961		39.8	36.9	38.3	2.14	2.32	3. 20	1.76	80.8	90.2	3.1	2.0
1962		40.4	37.0	38.2	2.22	2.39	3. 31	1.83	83.5	92.2	3.3	2.2
1963		40.5	37.3	38.1	2.28	2.46	3. 41	1.89	85.9	93.7	2.9	1.6
1964		40.7	37.2	37.9	2.36	2.53	3. 55	1.96	88.2	95.0	2.7	1.4
1965		41. 2	37.4	37.7	2.45	2.61	3.70	2.03	91. 2	96, 6	3.4	1.7
1966		41. 3	37.6	37.1	2.56	2.72	3.89	2.13	95. 3	98, 0	4.5	1.4
1967		40. 6	37.7	36.5	2.68	2.83	4.11	2.24	100. 0	100, 0	4.9	2.0
1968		40. 7	37.3	36.0	2.85	3.01	4.41	2.40	106. 2	101, 9	6.2	1.9
1969		40. 6	37.9	35.6	3.04	3.19	4.79	2.55	113. 2	103, 1	6.6	1.2
1970	37.1	39.8	37. 3	35. 3	3. 22	3.36	5. 24	2.71	120. 7	103.8	6.6	.7
1971	37.0	39.9	37. 2	35. 1	3. 44	3.57	5. 69	2.86	129. 2	106.5	7.0	2.6
1972	37.1	40.6	36. 9	35. 1	3. 67	3.81	6. 03	3.01	137. 7	109.9	6.6	3.2
1973	37.1	40.7	37. 0	34. 7	3. 92	4.08	6. 37	3.20	146. 5	110.0	6.4	.1
1974	36.6	40.0	36. 9	34. 1	4. 22	4.41	6. 75	3.47	158. 5	107.3	8.2	2.5
1975	36. 1	39.4	36.6	33.8	4.54	4.81	7.25	3.75	172.5	107.0	8.8	3
1976	36. 2	40.0	37.1	33.6	4.87	5.19	7.68	3.97	185.0	108.5	7.2	1.4
1977 <i>p</i>	36. 1	40.3	36.8	33.7	5.24	5.63	8.04	4.28	198.5	109.4	7.3	.8
1976: Jan	36.4	40. 4	37.6	33. 9	4.72	5.00	7.46	3.87	179.6	107.5	8.1	1.2
Feb	36.4	40. 3	37.6	33. 8	4.75	5.05	7.48	3.88	180.5	107.9	7.8	1.4
Mar	36.1	40. 2	36.0	33. 5	4.77	5.08	7.60	3.90	181.4	108.2	7.3	1.1
Apr	36.1	39. 4	37.4	33. 9	4.79	5.08	7.57	3.91	182.4	108.3	7.6	1.5
May	36.3	40. 3	37.0	33. 7	4.83	5.13	7.66	3.94	183.6	108.3	7.7	1.3
June	36.3	40. 2	37.3	33. 5	4.85	5.13	7.67	3.95	184.2	108.3	7.1	1.1
July Aug Sept Oct Nov Dec	36. 1 36. 1 36. 0 36. 2 36. 2	40. 1 40. 0 39. 7 39. 9 40. 1 40. 0	37.0 36.9 36.1 37.3 37.3 37.2	33.6 33.6 33.6 33.6 33.4 33.4	4.88 4.90 4.93 4.96 5.00 5.02	5. 21 5. 24 5. 29 5. 29 5. 34 5. 38	7.73 7.73 7.71 7.77 7.81 7.83	3.98 4.00 4.03 4.05 4.08 4.11	185.5 186.6 187.5 188.4 189.7 190.7	108.5 108.6 108.7 108.9 109.3 109.5	7.3 7.1 7.1 6.8 6.7 6.9	1.8 1.4 1.5 1.5 1.6 2.0
1977: Jan Feb Mar Apr May June	35.8 36.2 36.2 36.2 36.3 36.3	39.5 40.3 40.4 40.3 40.4 40.5	35.4 37.5 37.2 37.3 37.4 36.8	33. 3 33. 4 33. 4 33. 4 33. 4 33. 5 33. 3	5.07 5.10 5.13 5.17 5.20 5.22	5. 43 5. 45 5. 49 5. 53 5. 57 5. 61	7.92 7.90 7.91 7.95 7.97 8.04	4. 15 4. 17 4. 20 4. 23 4. 24 4. 26	192. 6 193. 2 194. 2 195. 6 196. 4 197. 4	109.7 109.0 108.8 108.8 108.6 108.5	7.2 7.0 7.2 7.2 7.0 7.1	2.0 1.0 .6 .4 .2 .3
July Aug Sept Oct Nov P Dec P	36. 1 36. 0 36. 0 36. 2 36. 1	40. 2 40. 3 40. 4 40. 4 40. 5 40. 3	36. 9 36. 5 36. 4 36. 8 36. 9 36. 5	33. 3 33. 2 33. 2 33. 5 33. 3 33. 3 33. 2	5. 27 5. 28 5. 32 5. 38 5. 39 5. 41	5. 66 5. 68 5. 73 5. 79 5. 81 5. 82	8.06 8.09 8.17 8.16 8.17	4. 30 4. 31 4. 33 4. 37 4. 38 4. 42	199. 4 199. 9 201. 2 203. 3 204. 0 204. 8	109. 2 109. 1 109. 5 110. 3 110. 1 110. 2	7.5 7.1 7.3 7.9 7.5 7.4	.7 .4 .7 1.3 .7 .6

[For production or nonsupervisory workers; monthly data seasonally adjusted]

Also includes other private industry groups shown in Table B-34.
 Adjusted for overtime (in manufacturing only) and for interindustry employment shifts.
 Current dollar earnings index divided by the consumer price index.
 Monthly data are computed from indexes to two decimal places.

Note .- See Note, Table B-34.

		Average	gross weekly	earnings		year earlier,	ange from a total private cultural ³
Year or month	Total p nonagric	rivate ultural ¹	Manu- facturing	Contract construc- tion	Wholesale and retail trade	Current dollars	1967 dollars
	Current dollars	1967 dollars ²		Current dollars			
1947 1948 1949	\$45.58 49.00 50.24	\$68.13 67.96 70.36	\$49.17 53.12 53.88	\$58.87 65.27 67.56	\$38. 07 40. 80 42. 93	7.5 2.5	-0.2 3.5
1950	53.13	73.69	58.32	69.68	44.55	5.8	4.7
1951	57.86	74.37	63.34	76.96	47.79	8.9	.9
1952	60.65	76.29	67.16	82.86	49.20	4.8	2.6
1953	63.76	79.60	70.47	86.41	51.35	5.1	4.3
1954	64.52	80.15	70.49	88.91	53.33	1.2	.7
1955	67.72	84, 44	75.70	90, 90	55.16	5.0	5.4
1956	70.74	86, 90	78.78	96, 38	57.48	4.5	2.9
1957	73.33	86, 99	81.59	100, 27	59.60	3.7	.1
1958	75.08	86, 70	82.71	103, 78	61.76	2.4	3
1959	78.78	90, 24	88.26	108, 41	64.41	4.9	4.1
1960	80.67	90. 95	89.72	113.04	66.01	2.4	.8
1961	82.60	92. 19	92.34	118.08	67.41	2.4	1.4
1962	85.91	94. 82	96.56	122.47	69.91	4.0	2.9
1963	88.46	96. 47	99.63	127.19	72.01	3.0	1.7
1964	91.33	98. 31	102.97	132.06	74.28	3.2	1.9
1965	95.06	100,59	107.53	138.38	76, 53	4. 1	2.3
1966	98.82	101,67	112.34	146.26	79, 02	4. 0	1.1
1967	101.84	101,84	114.90	154.95	81, 76	3. 1	.2
1968	107.73	103,39	122.51	164.49	86, 40	5. 8	1.5
1969	114.61	104,38	129.51	181.54	90, 78	6. 4	1.0
1970	119.46	102.72	133.73	195.45	95.66	4.2	-1.6
1971	127.28	104.93	142.44	211.67	100.39	6.5	2.2
1972	136.16	108.67	154,69	222.51	105.65	7.0	3.6
1973	145.43	109.26	166.06	235.69	111.04	6.8	.5
1974	154.45	104.57	176.40	249.08	118.33	6.2	-4.3
1975	163.89	101.67	189. 51	265, 35	126. 75	6.1	-2.8
1976	176.29	103.40	207. 60	284, 93	133. 39	7.6	1.7
1977 p	189.16	104.22	226. 89	295, 87	142. 52	7.3	.8
1976: Jan	171.81	102. 82	202.00	280. 50	131. 19	8.2	1.3
Feb	172.90	103. 35	203.52	281. 25	131. 14	8.1	1.7
Mar	172.20	102. 68	204.22	273. 60	130. 65	8.1	1.9
Apr	172.92	102. 68	200.15	283. 12	132. 55	7.5	1.3
May	175.33	103. 44	206.74	283. 42	132. 78	8.7	2.4
June	175.09	102. 87	207.43	286. 09	132. 33	7.8	1.8
July	176. 17	103. 02	208.92	286. 01	133. 73	7.9	2.3
Aug	176. 89	102. 96	209.60	285. 24	i34. 40	7.0	1.3
Sept	177. 48	102. 95	210.01	278. 33	135. 41	6.6	1.0
Oct	179. 55	103. 79	211.07	289. 82	136. 08	6.9	1.5
Nov	181. 00	104. 32	214.13	291. 31	136. 27	6.5	1.5
Dec	181. 72	104. 32	215.20	291. 28	138. 10	6.7	1.5
1977: Jan	181. 51	103. 37	214. 49	280. 37	138. 20	5.6	.4
Feb	184. 62	104. 13	219. 64	296. 25	139. 28	7.1	1.0
Mar	185. 71	104. 10	221. 80	294. 25	140. 28	7.7	1.2
Apr	187. 15	104. 09	222. 86	296. 54	141. 28	8.3	1.5
May	188. 76	104. 34	225. 03	298. 08	142. 04	7.5	.7
June	188. 96	103. 88	227. 21	295. 87	141. 86	7.6	.7
July	190. 25	104, 19	227. 53	297. 41	143. 19	7.7	1.0
Aug	190. 08	103, 76	228. 90	294. 92	143. 09	7.3	.6
Sept	191. 52	104, 20	230. 92	294. 48	143. 76	8.1	1.4
Oct	194. 76	105, 68	233. 92	300. 66	146. 40	8.4	1.8
Nov ፆ	194. 58	105, 06	235. 31	301. 10	145. 83	7.9	1.1
Dec ፆ	194. 76	104, 77	234. 55	298. 21	146. 74	7.2	.4

TABLE B-36.-Average weekly earnings in selected private nonagricultural industries, 1947-77 [For production or nonsupervisory workers; monthly data seasonally adjusted]

Also includes other private industry groups shown in Table B-34.
 Earnings in current dollars divided by the consumer price index.
 Based on unadjusted data.

Note .-- See Note, Table B-34.

	Outp	out 1	-	of all	hour	ut per of all sons	Compensation per hour ³		Unit labor costs		Implicit price deflator4	
Year or quarter	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector
1947 1948 1949	48.6 50.8 49.9	47.5 49.5 48.7	92.9 93.5 90.3	80.9 82.1 78.9	52.3 54.4 55.3	58.7 60.3 61.7	35.1 38.1 38.8	37.5 40.7 42.0	67.1 70.1 70.2	63.9 67.5 68.1	65, 1 70, 6 69, 8	62.3 67.5 68.0
1950 1951 1952 1953 1954	57.7	53.2 56.7 58.4 60.8 59.6	91.2 93.9 93.9 93.9 94.7 91.5	81.3 85.0 85.8 87.9 84.8	59.7 61.5 63.0 65.3 66.5	65.5 66.7 68.1 69.2 70.3	41.6 45.6 48.6 51.8 53.5	44.5 48.4 51.0 54.0 55.8	69.6 74.3 77.1 79.3 80.5	67.9 72.5 75.0 78.0 79.3	70.8 76.0 77.4 77.9 78.6	69.1 73.7 75.2 76.8 77.8
1955 1956 1957 1958 1959	67.5 68.4 66.9	64.5 66.5 67.5 65.8 71.0	94.8 96.2 94.6 90.2 93.4	88.1 90.3 89.7 85.8 89.3	69.2 70.2 72.3 74.2 76.8	73.2 73.6 75.3 76.8 79.6	54.9 58.6 62.5 65.4 68.5	57.8 61.4 65.0 67.6 70.6	79, 3 83, 5 86, 5 88, 2 89, 1	79.0 83.3 86.4 88.1 88.8	79.8 82.2 84.8 86.4 88.1	79.4 81.9 84.6 85.9 88.0
1960 1961 1962 1963 1964	74.1 78.8 82.2	72. 2 73. 3 78. 1 81. 6 86. 4	93.6 92.0 93.4 93.8 95.1	89.9 88.7 90.5 91.4 93.3	78.1 80.6 84.4 87.7 91.3	80.3 82.6 86.2 89.3 92.6	71.4 74.2 77.7 80.7 85.1	73.7 76.2 79.4 82.3 86.2	91.4 92.1 92.1 92.0 93.2	91.7 92.3 92.0 92.2 93.1	89.3 89.8 90.6 91.4 92.7	89.2 89.8 90.5 91.5 92.9
1965 1966 1967 1968 1969	98.0 100.0 105.1	92.6 98.1 100.0 105.4 108.6	98.1 100.3 100.0 101.7 104.5	96.8 100.0 100.0 102.1 105.3	94.7 97.8 100.0 103.3 103.7	95.7 98.1 100.0 103.2 103.1	88.4 94.7 100.0 107.6 115.1	89.1 94.5 100.0 107.3 114.3	93.4 96.8 100.0 104.1 111.0	93.2 96.4 100.0 103.9 110.9	94.2 97.2 100.0 103.9 108.8	94.1 96.8 100.0 104.0 108.7
1970 1971 1972 1973 1974	110.3 117.6 124.5	107.4 110.3 117.9 125.0 121.9	102.8 102.3 106.0 110.1 110.6	104.0 103.7 107.6 112.2 112.7	104.5 107.8 111.0 113.1 109.9	103. 3 106. 3 109. 5 111. 4 108. 1	123. 3 131. 5 138. 9 150. 3 164. 3	121.9 129.9 137.4 148.1 162.0	118.1 121.9 125.2 132.9 149.5	118.1 122.2 125.5 133.0 149.8	113. 9 118. 9 123. 2 130. 3 143. 1	114.0 119.2 122.9 128.0 141.5
1975 1976 1977 ₽	118.7 126.9 134.6	118.7 127.4 134.9	106.1 108.9 112.8	108.1 111.4 115.7	111.8 116.5 119.3	109.9 114.3 116.7	180, 2 196, 5 213, 6	177.6 193.1 209.6	161. 1 168. 7 179. 0	161. 7 168. 9 179. 7	158.0 165.6 174.2	156. 9 165. 0 174. 0
1975: I II III IV	117.2	115.3 117.1 120.6 121.8	105.7 104.9 106.0 107.5	107.8 106.8 107.7 109.7	108.9 111.7 113.8 113.3	106.9 109.6 112.0 111.0	176. 2 179. 2 181. 1 184. 6	173.2 176.3 179.1 181.9	161.7 160.4 159.1 163.0	162. 0 160. 9 160. 0 163. 9	154.2 156.5 159.4 161.6	153.4 155.6 158.1 160.3
1976: I II IV	124.9 126.7 127.7 128.4	125.2 127.2 128.3 128.7	108.2 108.9 109.0 109.6	111.0 111.2 111.4 112.3	115.4 116.4 117.2 117.2	112.9 114.5 115.2 114.6	190. 5 194. 5 198. 6 202. 7	186.9 191.3 195.2 198.7	165. 1 167. 1 169. 4 173. 0	165.6 167.1 169.5 173.3	162.9 164.8 166.5 168.3	162. 1 163. 6 166. 0 168. 1
1977: I II III IV P	135.7	131.6 134.5 136.0 137.5	110.4 113.0 112.9 113.9	113.4 115.6 115.9 116.8	118.9 118.6 120.2 120.6	116. 1 116. 3 117. 4 117. 8	208. 4 211. 7 216. 0 219. 7	204. 3 208. 1 211. 9 215. 7	175.2 178.5 179.7 182.2	176. 0 178. 9 180. 5 183. 2	170. 1 173. 1 175. 4 177. 7	169.6 172.7 175.6 177.7

TABLE B-37.—Productivity and related data, private business economy, 1947-77

[1967 = 100; quarterly data seasonally adjusted]

Output refers to gross domestic product originating in the sector in 1972 dollars.
 Hours of all persons in private industry engaged in production, including hours of proprietors and unpaid family workers. Estimates based primarily on establishment data.
 Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of wages, salaries, and supplemental payments for the self-employed.
 Current dollar gross domestic product divided by constant dollar gross domestic product.

	Outp	utt	Hour all per	s of sons ¹	Output p of all p		Compe per h	nsation our ³	Unit cos		Implicit price deflator 4	
Year or quarter	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector	Private busi- ness sector	Non- farm busi- ness sector
1948	4.6	4.4	0.6	1.6	3.9	2.8	8.6	8.7	4.5	5.8	8.4	8.3
1949	-1.8	1.7	-3.4	4.0	1.7	2.3	1.8	3.2	.1	.8	1.1	.7
1950 1951 1952 1953 1953 1954	9.2 5.9 2.5 4.6 -1.7	9.4 6.5 3.0 4.1 1.9	1.1 2.9 .0 .9 -3.5	3.1 4.6 1.0 2.4 -3.6	8.0 2.9 2.5 3.7 1.8	6.1 1.8 2.0 1.6 1.7	7.1 9.8 6.4 6.6 3.4	5.8 8.7 5.6 5.7 3.3	8 6.7 3.8 2.9 1.5	3 6.7 3.5 4.0 1.6	1.5 7.3 1.9 .6 .9	1.6 6.5 2.1 2.1 1.3
1955	2 8	8.2	3.7	4.0	4.1	4, 1	2.6	3.7	-1.5	4	1.5	2.1
1956		3.1	1.4	2.4	1.4	.6	6.7	6.2	5.2	5.5	3.0	3.2
1957		1.5	-1.6	7	3.0	2, 2	6.7	5.9	3.7	3.7	3.2	3.3
1958		-2.4	-4.7	-4.3	2.7	2, 0	4.7	4.0	1.9	2.0	1.9	1.5
1959		7.9	3.6	4.1	3.6	3, 7	4.6	4.4	1.0	.7	2.0	2.4
1960	15	1.6	.2	.6	1.6	1.0	4.2	4.3	2.6	3.3	1.4	1.4
1961		1.5	-1.7	~1.3	3.3	2.8	4.0	3.5	.7	.6	.6	.6
1962		6.5	1.5	2.1	4.6	4.4	4.7	4.1	.1	3	.9	.8
1963		4.5	.4	.9	4.0	3.5	3.9	3.7	1	.1	.9	1.0
1964		5.9	1.4	2.1	4.1	3.7	5.4	4.8	1.3	1.0	1.4	1.5
1965	55	7.1	3.1	3.7	3.7	3.3	3.9	3.4	.2	.1	1.6	1.3
1966		6.0	2.3	3.3	3.2	2.5	7.0	6.1	3.7	3.4	3.2	2.9
1967		1.9	3	0	2.3	1.9	5.6	5.8	3.3	3.8	2.9	3.3
1968		5.4	1.7	2.1	3.3	3.2	7.6	7.3	4.1	3.9	3.9	4.0
1969		3.0	2.7	3.2	.3	-,2	7.0	6.5	6.6	6.6	4.7	4.5
1970	9	-1.1	-1.6	-1.2	.7	.2	7.2	6.7	6.4	6,5	4.7	4.9
1971	2.8	2.7	4	3	3.2	2.9	6.6	6.6	3.2	3,5	4.4	4.5
1972	6.6	6.9	3.6	3.7	2.9	3.0	5.7	5.8	2.7	2,7	3.6	3.1
1973	5.9	6.0	3.9	4.3	1.9	1.7	8.2	7.8	6.2	6,0	5.8	4.1
1974	-2.4	-2.5	.4	.4	2.8	-2.9	9.4	9.4	12.5	12,7	9.8	10.5
1975	-2.4	-2.6	-4.1	-4.1	1.8	1.6	9.6	9.6	7.7	7.9	10.4	10, 9
1976	7.0	7.3	2.7	3.1	4.2	4.1	9.1	8.7	4.7	4.5	4.8	5, 1
1977#	6.0	5.9	3.6	3.8	2.4	2.0	8.7	8.5	6.1	6.4	5.1	5, 5
1975:	-11.6	-11.6	12.7	12.5	1.3	1.0	13. 1	12. 1	11.7	10.9	12.9	14.2
		6.5	2.8	3.6	10.6	10.5	6. 9	7. 4	-3.3	-2.8	6.2	5.7
		12.5	4.2	3.3	7.7	8.9	4. 4	6. 5	-3.0	-2.2	7.5	6.6
V		4.1	5.9	7.6	-1.9	3.3	8. 1	6. 4	10.2	10.0	5.9	5.8
1976: {	5.9	11.7	2.8	4.6	7.8	6.8	13.3	11.4	5.1	4.3	3.1	4.4
		6.6	2.3	.8	3.5	5.7	8.6	9.7	4.9	3.8	4.8	3.8
		3.2	.3	.6	2.8	2.6	8.7	8.5	5.8	5.7	4.1	6.0
V		1.3	2,2	3.3	—.1	-1.9	8.5	7.3	8.6	9.4	4.6	5.3
1977 : I II III IV P	8.5 5,2	9.5 8.8 4.8 4.5	3.3 9.5 2 3.4	4.2 7.9 .9 3.2	$ \begin{array}{r} 6.1 \\ -1.0 \\ 5.4 \\ 1.4 \end{array} $	5.1 .8 3.8 1.2	11.8 6.5 8.5 7.0	11.7 7.7 7.5 7.5	5.4 7.6 2.9 5.6	6.3 6.8 3.5 6.1	4.4 7.2 5.2 5.5	3.5 7.5 7.0 4.8

TABLE	B-38.—Changes	in productivit	y and rela	ted data,	private	business	economy,	1948-77
	[Percent change f	rom preceding p	eriod; quarte	rly data at s	easonally	adjusted ar	nual rates]	

¹ Output refers to gross domestic product originating in the sector in 1972 dollars.
 ³ Hours of all persons in private industry engaged in production, 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 Current dollar gross domestic product divided by constant dollar gross domestic product.

Note,--Percent changes are based on original data and therefore may differ slightly from percent changes based on indexes in Table B-37.

PRODUCTION AND BUSINESS ACTIVITY

TABLE E-39.-Industrial production indexes, major industry divisions, 1929-77

[1967=100; monthly data seasonally adjusted]

	Total		Manufacturin	g		
Year or month	industrial production	Totai	Durable	Nondurable	Mining	Utilities
1967 proportion	100, 00	87.95	51, 98	35.97	6. 36	5. 69
1929	21.6	22.8	22.5	23.2	43.1	7.4
1933	13.7	14.0	9.1	19.9	30.6	6.7
1939	21.7	21.5	17.7	26.1	42.1	10, 7
1940	25. 0	25. 4	23.5	27.5	46. 8	11. 8
	31. 6	32. 4	31.4	33.3	49. 7	13. 3
	36. 3	37. 8	39.9	34.6	51. 3	14. 9
	44. 0	47. 0	54.2	37.1	52. 5	16. 5
	47. 4	50. 9	59.9	38.6	55. 1	17. 5
	40. 7	42. 6	45.2	38.5	55. 1	17. 8
	35. 0	35. 3	31.6	39.7	54. 2	18. 6
	39. 4	39. 4	37.7	41.3	61. 3	20. 1
	41. 1	40. 9	39.3	42.7	64. 4	22. 4
	38. 8	38. 7	35.7	42.0	57. 1	23. 9
1950	44.9 48.7 50.6 54.8 51.9 58.5 61.1 61.9 57.9 64.8	45.0 48.6 50.6 51.5 58.2 60.5 61.2 57.0 64.2	43.5 48.9 51.9 58.7 51.8 59.2 61.6 53.9 61.9	46. 7 48. 3 49. 2 51. 2 51. 6 57. 2 60. 1 61. 1 61. 6 67. 7	63.8 70.0 69.4 71.2 69.9 77.9 82.0 82.1 75.3 78.7	27. 2 31. 0 33. 7 36. 5 39. 3 43. 9 48. 2 51. 5 53. 9 59. 3
1960	66.2	65.4	62.9	69.3	80.3	63.4
	66.7	65.6	61.8	71.5	80.8	67.0
	72.2	71.5	68.6	75.8	83.1	72.0
	76.5	75.8	73.1	80.0	86.4	77.0
	81.7	81.0	78.3	85.2	89.9	83.6
	89.8	89.7	89.0	90.9	93.2	88.7
	97.8	97.9	98.9	96.7	98.2	95.5
	100.0	100.0	100.0	100.0	100.0	100.0
	106.3	106.4	106.5	106.2	104.2	108.4
	111.1	111.0	110.6	111.5	108.3	117.3
1970	107. 8	106. 4	102. 3	112. 3	112.2	124, 5
	109. 6	108. 2	102. 4	116. 6	109.8	130, 5
	119. 7	118. 9	113. 7	126. 5	113.1	139, 4
	129. 8	129. 8	127. 1	133. 8	114.7	145, 4
	129. 3	129. 4	125. 7	134. 6	115.3	143, 7
	117. 8	116. 3	109. 3	126. 4	112.8	146, 0
	129. 8	129. 5	121. 7	140. 9	114.2	151, 0
	137. 1	137. 1	129. 4	148. 1	117.8	156, 8
1976: Jan	125. 9	124. 8	116. 0	137.5	113. 2	151.9
Feb	127. 6	127. 1	118. 4	139.9	113. 6	152.4
Mar	128. 3	128. 0	119. 5	140.3	113. 8	149.5
Apr	128. 7	128. 4	120. 3	140.4	112. 6	147.6
May	129. 7	129. 7	122. 2	140.6	113. 8	149.1
June	129. 8	129. 8	122. 4	140.6	114. 6	148.7
July.	130. 7	130, 7	124. 0	140. 3	112.7	150.0
Aug.	131. 3	131, 2	125. 0	140. 4	114.0	150.5
Sept.	130. 6	130, 5	122. 4	142. 3	115.5	149.6
Oct.	130. 2	129, 8	121. 4	141. 9	116.1	150.8
Nov.	131. 5	131, 4	123. 4	143. 0	115.3	154.6
Dec.	133. 0	132, 5	125. 0	143. 3	115.4	157.9
1977: Jan	132. 3	131. 6	123. 4	143. 4	112.8	163. 8
Feb	133. 2	132. 6	124. 0	145. 3	116.3	160. 3
Mar	135. 3	135. 1	126. 8	147. 0	120.6	154. 8
Apr	136. 1	135. 8	128. 0	147. 0	119.2	154. 0
May	137. 0	137. 1	129. 3	148. 5	119.5	156. 7
June	137. 8	137. 8	130. 5	148. 4	122.8	156. 8
July	138.7	138.5	131. 6	148. 6	119.8	161. 4
Aug	138.1	138.6	131. 3	149. 4	115.4	155. 7
Sept	138.5	139.0	131. 7	149. 5	118.0	154. 1
Oct	138.8	139.2	132. 3	149. 4	119.1	153. 5
Nov ₽	1 ² 9.3	139.6	132. 2	150. 3	118.3	155. 7
Dec ₽	139.6	140.4	133. 0	151. 1	113.4	157. 4

¹ Preliminary; annual by Council of Economic Advisers.

Source: Board of Governors of the Federal Reserve System.

				Final p	roducts					Materials	2
Year or month	Total indus- trial pro- duc- tion	Total	Con Totai	Auto- motive prod- ucts	Home goods	Equip Total	Busi- ness	Inter- mediate prod- ucts	Total	Dura- ble goods	Non- dura- ble goods
1967 pro- portion	100.00	47. 82	27.68	2. 83	5. 06	20, 14	12.63	12. 89	39, 29	20.35	10.47
1947 1948 1949		38.6 40.0 38.8	42. 4 43. 7 43. 4	45.3 47.4 47.0	37.5 39.1 36.2	30.6 32.2 28.7	38.0 39.5 34.5	41. 9 44. 3 42. 0	39.5 41.2 37.6	38. 3 39. 4 35. 3	
1950 1951 1952 1953 1954	44 Q	43.7 47.2 50.7 54.1 51.3	49.6 49.1 50.2 53.2 52.9	59. 1 52. 3 47. 1 59. 5 55. 4	49.9 43.0 43.0 48.6 44.9	31. 1 43. 3 51. 9 56. 3 49. 3	37. 0 45. 2 51. 2 53. 3 46. 8	48.8 51.3 50.9 54.5 54.3	45. 0 49. 8 50. 5 56. 1 51. 8	44, 4 50, 5 51, 6 60, 3 52, 0	45, 9
1955 1956 1957 1957 1958 1958	58.5 61.1 61.9 57.9 64.8	55.4 58.6 60.3 57.6 63.2	59.0 61.2 62.6 62.1 68.1	73.6 60.6 63.5 50.5 63.3	53.0 55.7 54.5 51.4 59.0	50.4 55.3 57.5 51.5 56.5	50.8 58.8 61.1 51.5 57.9	61.7 64.4 64.4 63.0 69.5	61. 3 62. 8 62. 8 56. 5 65. 2	63.7 63.9 63.8 53.7 64.0	52. 5 54. 9 54. 7 54. 4 62. 1
1960	66.2	65.3	70.7	72.5	59.4	58.1	59, 4	70.0	66, 1	64. 8	63. 2
1961	66.7	65.8	72.2	66.1	61.3	57.3	57, 7	71.4	66, 2	63. 3	65. 8
1962	72.2	71.4	77.1	80.1	66.5	63.7	62, 7	75.7	72, 1	70. 4	71. 3
1963	76.5	75.5	81.3	87.7	71.8	67.5	65, 8	79.9	76, 7	75. 1	75. 6
1964	81.7	79.7	85.9	91.9	78.4	71.4	73, 7	85.2	82, 9	81. 9	82. 2
1965	89.8	87.6	92.6	113.3	88.9	80.7	84. 4	90.6	92, 4	93.8	90. 3
1966	97.8	95.9	97.3	112.8	97.9	94.0	97. 7	96.2	100, 7	103.3	97. 5
1967	100.0	100.0	100.0	100.0	100.0	100.0	100. 0	100.0	100, 0	100.0	100. 0
1968	106.3	106.2	105.9	119.4	106.4	106.5	105. 5	106.3	106, 5	106.2	108. 8
1969	111.1	109.6	109.8	118.1	113.2	109.3	112. 5	112.9	112, 5	112.1	115. 7
1970	107.8	105.3	109.0	98.8	110.2	100. 1	107.0	112.9	109. 2	103. 8	115. 4
1971	109.6	106.3	114.7	124.4	115.6	94. 7	104.1	116.7	111. 3	104. 9	120. 2
1972	119.7	115.7	124.4	141.4	129.5	103. 8	118.0	126.5	122. 3	117. 7	132. 9
1973	129.8	124.4	131.5	153.0	142.5	114. 5	134.2	137.2	133. 9	134. 6	142. 2
1974	129.3	125.1	128.9	132.8	136.8	120. 0	142.4	135.3	132. 4	132. 7	142. 6
1975	117. 8	118, 2	124.0	125.8	118, 8	110. 2	128, 2	123. 1	115. 5	109. 1	126.6
1976	129. 8	127, 2	136.2	154.8	133, 9	114. 6	136, 3	137. 2	130. 6	126. 8	146.3
1976: Jan	125. 9	124. 1	132, 6	142. 5	130. 9	112. 4	131. 4	134. 1	125. 4	118.4	142, 8
Feb	127. 6	125. 6	134, 6	149. 6	131. 5	113. 2	132. 8	136. 0	127. 6	121.9	144, 8
Mar	128. 3	126. 1	135, 2	155. 0	132. 3	113. 8	134. 2	134. 6	129. 0	123.6	147, 2
Apr	128. 7	126. 1	135, 4	155. 5	133. 0	113. 5	134. 4	135. 1	129. 7	125.4	147, 3
May	129. 7	126. 9	136, 5	153. 5	137. 0	113. 7	134. 8	136. 2	130. 8	127.3	147, 1
June.	129. 8	126. 8	136, 0	153. 9	135. 3	114. 2	136. 2	136. 7	131. 0	128.0	146, 5
July	130. 7	127. 4	136. 1	156. 1	133.4	115. 3	137. 9	138.4	132. 1	131.0	145.1
Aug	131. 3	128. 0	137. 0	157. 8	136.5	115. 6	137. 6	138.4	133. 0	131.4	146.3
Sept	130. 6	126. 9	135. 7	147. 6	133.8	114. 8	137. 0	138.7	132. 4	129.9	147.6
Oct	130. 2	126. 7	135. 9	147. 8	133.9	114. 2	135. 7	138.8	131. 8	128.3	147.5
Nov	131. 5	129. 3	138. 4	161. 6	133.7	116. 8	140. 1	139.0	131. 9	128.2	147.3
Dec	133. 0	131. 5	141. 3	178. 8	134.5	118. 0	142. 3	140.5	132. 0	128.7	147.3
1977: Jan	132. 3	130. 8	139. 9	164. 2	134. 8	118. 4	142.3	142. 2	131. 1	127. 4	144. 8
Feb	133. 2	131. 6	140. 5	161. 7	137. 3	119. 2	143.5	141. 6	132. 7	128. 4	150. 4
Mar	135. 3	133. 3	142. 9	178. 3	137. 9	120. 0	144.8	141. 8	135. 5	131. 9	153. 3
Apr	136. 1	134. 1	142. 9	173. 9	138. 8	122. 1	147.1	142. 3	136. 5	133. 8	153. 7
May	137. 0	134. 7	143. 1	172. 8	140. 6	123. 2	148.9	143. 5	137. 8	135. 2	155. 4
June_	137. 8	135. 4	143. 8	179. 8	142. 3	124. 1	150.1	144. 7	138. 7	136. 4	154. 7
July	138.7	136. 8	145. 4	184. 8	142. 9	124. 8	151. 2	146. 3	138. 9	136. 8	154, 1
Aug	138.1	136. 3	144. 7	177. 2	142. 1	124. 9	151. 1	146. 1	137. 6	135. 4	155, 1
Sept	138.5	136. 8	144. 9	177. 0	143. 6	125. 6	152. 1	146. 5	137. 9	135. 7	153, 9
Oct	138.8	136. 6	145. 2	180. 1	144. 4	124. 9	152. 3	147. 0	138. 8	137. 0	154, 7
Nov P	139.3	137. 0	145. 7	173. 7	145. 3	125. 3	152. 7	147. 9	139. 2	137. 3	155, 7
Dec P	139.6	137. 6	146. 2	173. 5	146. 2	126. 0	153. 3	149. 2	139. 1	138. 3	156, 7

TABLE B-40.-Industrial production indexes, market groupings, 1947-77 [1967=100; monthly data seasonally adjusted]

Also includes clothing and consumer staples, not shown separately.
 Also includes energy materials, not shown separately.

Source: Board of Governors of the Federal Reserve System.

TABLE B-41.—Industrial	production	indexes.	selected	manufactures.	1947-77
	production		30000004	manajaorajes;	1040 00

:			Du	rable ma	nufactur	es			Non	durable i	manufactures		
Year or	Primary	y metals	Fabri-	Non- elec-	Elec-		ortation oment	Lum-	AD-	Prin t-	Chem-		
month	Total	iron and steel	cated metal prod- ucts	trical ma- chin- ery	trical ma- chin- ery	Total	Motor ve- hicles and parts	ber and prod- ucts	parel prod- ucts	ing and pub- lishing	icals and prod- ucts	Foods	
1967 proportion.	6.57	4.21	5.93	9. 15	8.05	9. 27	4. 50	1.64	3, 31	4. 72	7.74	8.75	
1947 1948 1949	63, 3 65, 8 55, 4		49.9 50.8 45.8	39.0 39.2 33.4	22.2 23.0 21.6	31. 8 34. 8 34. 9		58.9 61.3 54.1	57.8 60.3 59.7	43.3 45.4 46.6	19.7 21.3 21.0	55.8 55.2 55.9	
1950 1951 1952 1953 1954	69.7 75.8 69.2 78.5 63.5	70.1	56. 1 59. 9 58. 5 66. 0 59. 4	37.5 47.7 51.9 54.0 46.1	29.6 29.8 34.0 39.0 34.7	41. 8 46. 6 54. 2 68. 0 59. 2	60.5	65.7 65.5 64.7 68.4 68.0	64.3 63.1 66.3 67.2 66.4	48. 9 49. 7 49. 7 52. 0 54. 1	26. 2 29. 7 31. 1 33. 6 34. 1	57.9 59.0 60.2 61.4 62.7	
1955 1956 1957 1958 1959	82.5 82.0 78.5 62.3 72.7	93. 2 91. 5 88. 2 66. 5 76. 5	67.8 68.8 70.6 63.3 71.0	50.6 58.0 57.9 48.6 56.7	39. 9 43. 1 42. 8 39. 2 47. 6	68.0 66.0 70.7 55.8 63.2	81. 2 65. 8 69. 0 51. 0 66. 2	75.9 75.0 68.8 69.9 79.3	73, 3 75, 0 74, 9 72, 8 80, 1	59. 5 63. 2 65. 4 63. 9 68. 2	39.8 42.7 45.2 46.6 54.3	66.3 70.1 71.1 72.9 76.5	
1960 1961 1962 1963 1964		77.7 74.2 77.3 84.3 95.9	71.1 69.4 75.4 77.8 82.6	56.9 55.4 62.1 66.3 75.6	51.6 54.8 62.9 64.7 68.4	65.4 61.5 71.1 78.0 80.0	74.7 65.5 79.8 88.3 90.7	74. 7 78. 2 82. 5 86. 3 92. 7	81, 7 82, 2 85, 5 89, 1 92, 2	71.0 71.3 73.9 77.8 82.6	56. 4 59. 2 65. 7 71. 8 78. 8	78.6 80.9 83.4 86.4 90.4	
1965 1966 1967 1968 1969		105.2 108.4 100.0 103.2 112.6	90. 8 97. 2 100. 0 105. 6 107. 9	85.0 98.8 100.0 101.8 109.3	81.7 97.9 100.0 105.5 111.9	95.1 102.0 100.0 111.1 108.4	115.9 113.9 100.0 120.3 116.5	96, 3 100, 0 100, 0 105, 5 107, 9	97.4 99.9 100.0 102.9 106.7	87.9 94.6 100.0 103.2 107.4	87.8 95.7 100.0 109.5 118.4	92. 4 96. 0 100. 0 102. 6 106. 1	
1970 1971 1972 1973 1974		104. 7 96. 1 107. 1 122. 3 119. 8	102. 4 103. 5 112. 1 124. 7 124. 2	104, 4 100, 2 116, 0 133, 7 140, 1	108.1 107.7 122.2 143.1 143.8	89.5 97.9 108.2 118.3 108.7	92. 3 118. 6 135. 8 148. 8 128. 2	105.6 113.8 120.8 126.0 116.2	101. 4 104. 7 109. 4 117. 3 114. 3	107.0 107.1 112.7 118.2 118.2	120, 4 125, 9 143, 6 154, 5 159, 4	108.9 112.8 116.8 120.9 124.0	
1975 1976	1	95.8 104.9	109.9 123.3	125. 1 135. 0	116.5 131.6	97.4 110.6	111.1 140.7	107.6 125.1	107.6 122.2	113. 3 120. 6	147. 2 169. 3	123. 4 132. 3	
1976: Jan Feb Mar Apr May June	104.0 104.9 107.9	92.8 100.7 99.4 105.0 111.2 112.5	116.6 120.9 120.3 121.4 121.4 124.0	129. 4 131. 5 133. 0 133. 5 134. 1 134. 1	125. 1 126. 6 127. 9 129. 9 131. 7 131. 5	105.8 109.1 111.0 110.8 112.6 112.8	127.0 135.3 140.5 141.4 144.1 146.9	122. 5 123. 3 121. 1 122. 8 123. 0 120. 3	120. 6 122. 0 121. 2 122. 7 126. 9 124. 5	120.0 121.0 121.0 122.0 120.5 119.7	163. 4 166. 5 169. 6 168. 7 167. 2 169. 2	129. 2 130. 7 128. 7 129. 4 132. 0 131. 4	
July Aug Sept Oct Nov Dec	118.3 113.0 109.9 104.6	115.0 116.0 108.6 105.1 100.3 93.4	124.6 125.8 126.5 123.5 126.7 128.1	137.9 136.4 136.8 134.3 137.5 141.5	131, 4 135, 4 133, 9 135, 0 135, 7 135, 1	112.8 114.6 104.7 104.3 112.7 117.4	147.5 149.7 130.6 128.4 145.5 155.0	124. 6 127. 9 128. 7 129. 6 129. 5 128. 1	120. 2 117. 5 119. 5 122. 9 122. 7 124. 9	121.2 120.6 120.6 119.3 119.7 123.0	167.6 169.7 171.3 170.7 173.7 173.1	134.5 134.8 134.6 134.8 134.8 134.3 132.9	
1977: Jan Feb Mar Apr May June	100.2 108.3 112.2 117.1	89.7 91.3 97.9 103.9 111.0 109.2	125.7 125.8 127.5 127.6 128.2 130.8	139.9 139.8 139.8 142.9 142.6 144.0	134. 0 137. 6 137. 6 139. 6 141. 8 142. 6	113. 5 113. 4 120. 5 119. 8 120. 3 123. 7	145. 5 145. 4 161. 2 158. 1 157. 7 163. 2	132. 7 132. 2 132. 1 130. 6 133. 0 132. 4	123. 0 124. 4 122. 2 121. 4 123. 5 122. 1	124.7 122.4 124.8 123.4 124.4 124.1	172.2 174.9 180.0 180.6 182.8 183.5	134.2 136.4 138.7 138.0 138.3 138.3	
July Aug Sept Oct Oct Dec P	112.5 109.0 113.7 111.9	110.9 110.6 104.6 108.1 105.6	132.0 134.0 133.6 134.4 135.2 136.0	145.7 145.2 147.4 148.2 148.9 150.4	143.6 143.9 144.6 144.2 145.1 146.6	125.6 124.3 125.5 124.1 121.9 122.2	166. 2 164. 4 165. 6 167. 9 163. 0 161. 9	132.9 131.8 137.1 136.2 137.4	121.1 124.1 127.7 129.2	124.9 125.0 124.2 124.8 124.7 126.5	182.6 182.6 181.3 180.8 183.0	138. 139. 138. 138. 137. 138.	

[1967 = 100; monthly data seasonally adjusted]

Source: Board of Governors of the Federal Reserve System.

TABLE B-42.-Capacity utilization rate in manufacturing, 1948-77

	ł	RB series	1		Com	imerce sei		Wharton series 3			
Year or quarter	Total manu- fac- turing	Primary proc- essing	Ad- vanced proc- essing	Total manu- fac- turing	Dur- able goods	Non- dur- able goods	Pri- mary- proc- essed goods	Ad- vanced proc- essed goods	Total manu- fac- turing	Dur- able goods	Non- dur- able goods
1948 1949	82.5 74.2	87.3 76.2	80.0 73.2								
1950 1951 1952 1953 1954	82. 8 85. 8 85. 4 89. 2 80. 1	88.5 90.2 84.9 89.4 80.6	79, 8 83, 4 85, 9 89, 3 80, 0						88.9 90.3 88.4 92.4 82.9	83.7 87.2 86.0 93.3 79.5	96. 1 94. 8 91. 8 91. 2 87. 7
1955 1956 1957 1958 1959	87.0 86.1 83.6 75.0 81.6	92.0 89.4 84.7 75.4 83.0	84. 2 84. 4 83. 1 74. 9 81. 1						91.4 90.8 88.0 77.5 84.0	90. 2 89. 1 86. 1 70. 8 78. 6	93. 1 93. 4 90. 8 87. 4 92. 0
1960 1961 1962 1963 1964	80. 1 77. 3 81. 4 83. 5 85. 7	79.8 77.9 81.5 83.8 87.8	80.5 77.2 81.6 83.4 84.6						82.1 79.1 82.5 84.0 86.8	77.0 72.9 77.7 79.6 82.9	89.8 88.5 89.8 90.8 92.8
1965 1966 1967 1968 1968 1969	89.5 91.1 86.9 87.0 86.2	91.0 91.4 85.7 87.6 88.6	88.9 91.1 87.6 86.8 85.0	86 86 84 85 85	88 87 83 84 84	85 86 85 86 86	89 88 87 86 87	85 85 83 84 84	92.4 96.6 93.5 95.0 95.3	90.6 96.0 91.8 93.7 94.0	95.3 97.5 96.0 97.0 97.2
1970 1971 1972 1973 1974	79. 2 78. 0 83. 1 87. 5 84. 2	82.8 82.0 88.0 92.4 87.7	77.3 75.9 80.5 84.9 82.2	81 80 83 86 83	78 78 82 85 82	83 83 85 86 84	83 82 85 89 85	79 80 82 84 82	87.9 86.4 91.8 97.1 93.0	84. 2 82. 3 88. 9 96. 6 91. 9	93.5 92.9 96.3 98.0 94.6
1975 1976 1977 ₽	73.6 80.2 82.4	73. 8 82. 2 84. 3	73.5 79.1 81.4	77 81	76 81	79 82	76 82	77 81	80.4 87.5 90.2	77. 1 84. 7 88. 1	85. 9 92. 2 93. 6
1972: [[[V	80.9 82.4 83.4 85.8	85.2 87.2 88.6 91.1	78.6 79.8 80.6 83.1	82 82 83 85	80 81 82 85	84 84 85 85	82 83 85 88	82 81 82 84	89.3 90.9 92.1 94.9	85.6 87.7 89.3 93.1	95.1 96.0 96.4 97.8
1973: I II III III IV	87.1 87.6 87.8 87.7	91. 8 92. 1 92. 7 93. 0	84.5 85.2 85.0 85.0	86 86 85 85	86 86 85 84	86 86 86 86	88 89 89 89	85 85 83 82	96.4 97.1 97.4 97.5	95.4 96.4 97.1 97.4	98.1 98.4 97.8 97.6
1974: I II III IV	85.7 85.8 85.5 79.7	90.6 90.1 89.3 80.7	83.0 83.3 83.5 79.1	84 84 84 78	83 84 84 76	85 85 84 80	87 87 86 79	83 83 83 77	94.7 94.8 94.6 87.8	93.3 93.5 93.9 86.9	96.8 96.8 95.7 89.2
1975: 1 11 (11 IV	70.9 71.3 75.3 76.9	69.9 70.4 76.3 78.6	71. 3 71. 9 74. 8 75. 9	75 75 79 79	74 73 78 77	76 78 80 81	75 73 78 78	75 76 79 79	77.3 77.9 82.4 84.0	74.8 74.7 78.8 80.0	81. 4 83. 2 88. 3 90. 6
1976: I II III IV	79. 1 80. 3 80. 8 80. 6	81. 0 82. 5 83. 1 82. 2	78.0 79.1 79.5 79.7	82 82 80 81	81 83 79 81	82 81 82 82	83 83 82 80	81 82 79 82	86.3 87.9 88.2 87.7	82.7 85.1 86.0 85.0	92.3 92.5 91.8 92.1
1977: [V P	81.2 82.7 83.0 82.8	82.3 85.1 85.0 84.8	80.5 81.4 81.9 81.8	83 84 82	84 86 82	82 82 82	83 84 82	84 84 82	88.4 90.4 90.9 91.0	85.6 88.3 89.2 89.4	93. 1 93. 8 93. 8 93. 7

[Percent; quarterly data seasonally adjusted]

¹ For description of the series, see "Federal Reserve Bulletin," November 1976.
 ² Quarterly data are for last month in quarter. Annual data are averages of the four indexes, except for 1965 (December index) and 1966-67 (averages of June and December indexes). For description of the series, see "Survey of Current Business," July 1974.
 ³ Annual data are averages of quarterly indexes. For description of the series, see F. Gerard Adams and Robert Summers, "The Wharton Index of Capacity Utilization: A Ten Year Perspective," 1973 Proceedings of the Business and Economic Statistics Section, American Statistical Association.

Sources: Board of Governors of the Federal Reserve System, Department of Commerce (Bureau of Economic Analysis), and Wharton School of Finance.

TABLE B-43.--New construction activity, 1929-77

[Privat	e construc	tion			Public construction			
Year or month	Total new con-		Resid build	ential ings 1	Nonresic	lential bu constru	ildings a ictio n 1	ind other				
	struc- tion	Total	Total 3	New hous- ing units	Total	Com- mer- cial ³	In- dus- trial	Other 4	Total	Fed- erai	State and local ⁶	
1929	10.8	8.3	3.6	3.0	4.7	1.1	0.9	2.6	2.5	0.2	2, 3	
1933	2.9	1. 2	.5	.3	.8	.1	.2	.5	1.6	. 5	1.1	
1939	8.2	4, 4	2.7	2, 3	1.7	.3	.3	1.2	3.8	.8	3, 1	
1940 1941 1942 1943 1944	8.7 12.0 14.1 8.3 5.3	5.1 6.2 3.4 2.0 2.2	3.0 3.5 1.7 .9 .8	2.6 3.0 1.4 .7 .6	2.1 2.7 1.7 1.1 1.4	.3 .4 .2 .0 .1	.4 .8 .3 .2 .2	1.3 1.5 1.2 .9 1.1	3.6 5.8 10.7 6.3 3.1	1.2 3.8 9.3 5.6 2.5	2.4 2.0 1.3 .7 .6	
1945 1946	5.8 14.3	3. 4 12. 1	1.3 6.2	.7 4.8	2. 1 5. 8	2 1.2	6 1.7	1.3 3.0	2. 4 2. 2	1.7 .9	.7 1.4	
New series							1					
1947 1948 1949	20.0 26.1 26.7	16.7 21.4 20.5	9, 9 13, 1 12, 4	7.8 10.5 10.0	6.9 8.2 8.0	1.0 1.4 1.2	1.7 1.4 1.0	4.2 5.5 5.9	3.3 4.7 6.3	.8 1.2 1.5	2.5 3.5 4.8	
1950 1951 1952 1953 1954	33.6 35.4 36.8 39.1 41.4	26.7 26.2 26.0 27.9 29.7	18.1 15.9 15.8 16.6 18.2	15.6 13.2 12.9 13.4 14.9	8.6 10.3 10.2 11.3 11.5	1.4 1.5 1.1 1.8 2.2	1.1 2.1 2.3 2.2 2.0	6.1 6.7 6.8 7.3 7.2	6.9 9.3 10.8 11.2 11.7	1.6 3.0 4.2 4.1 3.4	5.2 6.3 6.6 7.1 8.3	
1955 1956 1957 1958 1959	46.5 47.6 49.1 50.0 55.4	34.8 34.9 35.1 34.6 39.3	21.9 20.2 19.0 19.8 24.3	18. 2 16. 1 14. 7 15. 4 19. 2	12.9 14.7 16.1 14.8 15.1	3.2 3.6 3.6 3.9	2.4 3.1 3.6 2.4 2.1	7.3 8.0 9.0 8.8 9.0	11.7 12.7 14.1 15.5 16.1	2.8 2.7 3.0 3.4 3.7	8.9 10.0 11.1 12.1 12.3	
1960 1961 1962 1963 1964	54, 7 56, 4 60, 2 64, 8 67, 7	38.9 39.3 42.3 45.5 47.3	23.0 23.1 25.2 27.9 28.0	17.3 17.1 19.4 21.7 21.8	15.9 16.2 17.2 17.6 19.3	4.2 4.7 5.1 5.0 5.4	2.9 2.8 2.8 2.9 3.6	8.9 8.7 9.2 9.7 10.3	15.9 17.1 17.9 19.4 20.4	3.6 3.9 3.9 4.0 3.9	12.2 13.3 14.0 15.4 16.5	
1965 1966 1967 1968 1968	73. 7 76. 4 78. 1 87. 1 93. 9	51.7 52.4 52.5 59.5 66.0	27.9 25.7 25.6 30.6 33.2	21, 7 19, 4 19, 0 24, 0 25, 9	23.8 26.7 27.0 28.9 32.8	7. 8 9. 4	6. 0 6. 8	15. 1 16. 6	22.1 24.0 25.5 27.6 28.0	4.0 4.0 3.5 3.4 3.3	18.0 20.0 22.1 24.2 24.7	
1970 1971 1972 1973 1974	94. 9 110. 0 124. 1 137. 9 138. 5	66. 8 80. 1 93. 9 105. 4 100. 2	31.9 43.3 54.3 59.7 50.4	24. 3 35. 1 44. 9 50. 1 40. 6	34. 9 36. 8 39. 6 45. 7 49. 8	9.8 11.6 13.5 15.5 15.9	6.5 5.4 4.7 6.2 7.9	18.6 19.8 21.5 24.0 25.9	28. 1 29. 9 30. 2 32. 5 38. 3	3.3 4.0 4.4 4.9 5.3	24.8 25.9 25.8 27.7 33.0	
1975 1976	134. 3 147. 5	93.6 109.5	46, 5 60, 5	34. 4 47. 3	47.2 49.0	12. 8 12. 8	8.0 7.2	26. 3 29. 0	40. 7 38. 0	6. 1 6. 4	34.6 31.6	

[Value put in place, billions of dollars; monthly data at seasonally adjusted annual rates]

See footnotes at end of table.

TABLE B-43 .- New construction activity, 1929-77-Continued

				Privat	te construc	tion			Public construction			
Year or month	Total new con-		Resid buildi		Nonresid		ildings a uction ¹	ind other			State	
struc- tion	Total	Total 3	New hous- ing units	Total	Com- mer- cial 3	ln- dus- trial	Other 4	Total	Fed- eral	and local 5		
1976: Jan	141. 9	101. 8	53. 5	40. 1	48. 3	12. 1	7.8	28. 4	40. 2	6.5	33.6	
Feb	144. 5	104. 7	56. 3	42. 4	48. 4	12. 6	7.9	27. 9	39. 8	7.0	32.9	
Mar	148. 0	107. 9	58. 6	44. 4	49. 3	13. 1	7.8	28. 4	40. 1	6.4	33.7	
Apr	147. 2	107. 2	58. 7	45. 1	48. 5	12. 8	7.6	28. 1	40. 1	6.6	33.4	
May	147. 8	108. 2	59. 2	45. 4	49. 0	12. 8	7.2	29. 0	39. 6	6.2	33.4	
June	149. 6	109. 7	61. 0	45. 8	48. 7	12. 6	7.2	28. 9	39. 9	6.4	33.5	
July	145. 8	107. 1	59.2	46.3	47.9	13.0	6.6	28. 3	38.7	6.4	32. 3	
Aug	141. 8	103. 6	54.5	47.1	49.0	12.9	7.2	29. 0	38.2	6.3	31. 9	
Sept	145. 2	107. 4	57.7	48.7	49.7	12.8	7.1	29. 7	37.9	7.4	30. 4	
Oct	150. 1	114. 8	65.5	50.9	49.3	12.7	6.9	29. 7	35.3	5.5	29. 8	
Nov	153. 8	119. 0	69.6	52.7	49.4	12.6	6.7	30. 1	34.9	6.6	28. 3	
Dec	155. 4	121. 2	71.1	54.8	50.1	12.8	6.6	30. 7	34.3	6.3	28. 0	
1977: Jan	148. 1	116. 2	66.5	52, 1	49.6	12.5	6.2	30. 9	32. 0	6.7	25. 2	
Feb	156. 9	122. 4	72.1	58, 3	50.3	12.5	6.3	31. 5	34. 5	7.2	27. 3	
Mar	163. 8	128. 4	76.7	62, 2	51.7	13.7	7.2	30. 9	35. 4	6.9	28. 5	
Apr	167. 5	131. 3	79.5	63, 5	51.9	13.9	7.3	30. 7	36. 2	7.2	29. 0	
May	172. 1	133. 7	82.4	65, 8	51.3	13.8	7.2	30. 4	38. 4	6.8	31. 6	
June	174. 6	135. 2	82.5	66, 0	52.7	15.2	7.1	30. 4	39. 4	6.3	33. 0	
July	173. 0	133. 8	80. 8	65. 1	53.0	15. 5	7.2	30. 2	39. 2	7.5	31. 7	
Aug	172. 0	133. 8	80. 7	65. 1	53.1	15. 3	7.6	30. 2	38. 2	7.6	30. 6	
Sept	175. 9	136. 7	82. 4	66. 4	54.3	16. 1	7.5	30. 8	39. 3	8.5	30. 7	
Oct	177. 9	140. 2	85. 8	68. 9	54.4	15. 8	7.6	31. 0	37. 7	6.1	31. 6	
Novp	178. 0	142. 1	87. 9	70. 7	54.2	15. 5	7.3	31. 3	35. 9	6.8	29. 2	

[Value put in place, billions of dollars; monthly data at seasonally adjusted annual rates]

Beginning 1960, farm residential buildings included in residential buildings; prior to 1960, included in nonresidential buildings and other construction.
 Total includes additions and alterations and nonhousekeeping units, not shown separately.
 Office buildings, warehouses, stores, restaurants, garages, etc.
 Religious, educational, hospital and institutional, miscellaneous nonresidential, farm (see also footnote 1), public utilities, and all other private.
 Includes Federal grants-in-aid for State and local projects.

Source: Department of Commerce (Bureau of the Census).

TABLE B-44.-New housing units started and authorized, 1959-77

[Thousands of units]

		Ne	w housing	units star	ted								
		te and lic 1		Priv	ate 1		New private housing units						
Year or month			То	tal (farm a	ind nonfai	rm)		author	ized 2				
	Total (farm and	Non- farm		Туре	e of struct	ure							
	non- farm)		Total	One unit	2 to 4 units	5 units or more	Total	One unit	2 to 4 units	5 units or more			
1959	l '	1, 531. 3	1, 517. 0	1, 234. 0	28	3.0	1, 208. 3	938. 3	77.1	192.9			
1960 1961 1962 1963 1964		1, 274. 0 1, 336. 8 1, 468. 7 1, 614. 8 1, 534. 0	1, 252. 2 1, 313. 0 1, 462. 9 1, 603. 2 1, 528. 8	994.7 974.3 991.4 1,012.4 970.5	25 33 47 590 108. 4	7.4 8.7 1.5 0.8 450.0	998.0 1,064.2 1,186.6 1,334.7 1,285.8	746.1 722.8 716.2 750.2 720.1	64.6 67.6 87.1 118.9 100.8	187.4 273.8 383.3 465.6 464.9			
1965 1966 1967 1968 1969	1, 509. 7 1, 195. 8 1, 321. 9 1, 545. 4 1, 499. 5	1, 487. 5 1, 172. 8 1, 298. 8 1, 521. 4 1, 482. 3	1, 472. 8 1, 164. 9 1, 291. 6 1, 507. 6 1, 466. 8	963. 7 778. 6 843. 9 899. 4 810. 6	86.6 61.1 71.6 80.9 85.0	422.5 325.1 376.1 527.3 571.2	1, 239. 8 971. 9 1, 141. 0 1, 353. 4 1, 323. 7	709.9 563.2 650.6 694.7 625.9	84.8 61.0 73.0 84.3 85.2	445. 1 347. 7 417. 5 574. 4 612. 7			
1970 1971 1972 1973 1974	1, 469. 0 2, 084. 5 2, 378. 5 2, 057. 5 1, 352. 5	(3) (3) (3) (3) (3)	1, 433. 6 2, 052. 2 2, 356. 6 2, 045. 3 1, 337. 7	812.9 1, 151.0 1, 309.2 1, 132.0 888.1	84.8 120.3 141.3 118.3 68.1	535. 9 780. 9 906. 2 795. 0 381. 6	1, 351, 5 1, 924, 6 2, 218, 9 1, 819, 5 1, 074, 4	646. 8 906. 1 1, 033. 1 882. 1 643. 8	88.1 132.9 148.6 117.0 64.3	616.7 885.7 1,037.2 820.5 366.2			
1975 1976 1977 <i>¤</i>	1, 171. 4 1, 547. 6 1, 989. 1	(3) (3) (3)	1, 160. 4 1, 537. 5 1, 986. 4	892. 2 1, 162. 4 1, 451. 3	64.0 85.9 122.0	204. 3 289. 2 413. 1	939. 2 1, 296. 2 1, 680. 0	675.5 893.6 1,125.8	63.9 93.1 114.6	199. 8 309. 5 439. 7			
				·	Seaso	onally adju	isted anni	al rates					
1976: Jan Feb Mar Apr May June	72.9 91.6 118.8 137.4 148.3 155.1	() () () () () () ()	1, 259 1, 476 1, 426 1, 385 1, 435 1, 494	973 1, 216 1, 124 1, 071 1, 091 1, 122	76 64 80 77 88 75	210 196 222 237 256 297	1, 185 1, 176 1, 181 1, 120 1, 183 1, 170	854 858 866 819 817 834	78 82 82 77 82 81	253 236 233 224 284 255			
July Aug Sept Oct Nov Dec	137.5 146.8 153.1 149.8 128.2 108.1	() () () () () () () ()	1, 413 1, 530 1, 768 1, 715 1, 706 1, 889	1, 129 1, 172 1, 254 1, 269 1, 236 1, 324	72 83 106 98 98 120	212 275 408 348 372 445	1, 229 1, 308 1, 481 1, 481 1, 583 1, 532	866 876 914 987 1, 055 1, 047	79 102 114 116 124 114	284 330 453 378 404 371			
1977: Jan Feb Mar Apr May June	112.7	(3) (3) (3) (3) (3) (3)	1, 384 1, 802 2, 089 1, 880 1, 937 1, 897	1,006 1,424 1,503 1,413 1,455 1,389	103 120 113 116 120 105	275 258 473 351 362 403	1, 333 1, 526 1, 687 1, 605 1, 615 1, 678	930 1,060 1,188 1,051 1,077 1,105	101 107 112 105 99 105	302 359 387 449 439 468			
July Aug Sept Oct Nov p Dec p	194.2 177.8 193 2 156.0	(3) (3) (3) (3) (3)	2, 083 2, 029 2, 065 2, 203 2, 121 2, 295	1, 437 1, 453 1, 523 1, 562 1, 543 1, 605	127 113 128 132 136 169	519 463 414 509 442 521	1, 639 1, 772 1, 695 1, 850 1, 893 1, 858	1, 089 1, 156 1, 135 1, 216 1, 257 1, 223	112 127 114 131 151 125	438 489 446 503 485 510			

¹ Units in structures built by private developers for sale upon completion to local public housing authorities under the Department of Housing 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 14,000 permit-issuing places beginning 1972; 13,000 for 1967–71; 12,000 for 1963–66; and 10,000 prior to 1963. ³ Not available separately beginning January 1970.

Note.—Only the series on private and public nonfarm housing units started is available prior to 1959. See 1976 "Eco-nomic Report" for this earlier series.

Source: Department of Commerce, Bureau of the Census.

TABLE B-45. -- Business expenditures for new plant and equipment, 1947-781

		Ma	nufacturi	ng	Nonmanufacturing							
Year or quarter	Total		Dura-	Non-			Tra	nsportat	ion	Public	Com-	Com- mer-
		Total	ble goods	durable goods	Total	Mining	Rail- road	Air	Other	utili- ties	muni- cation	cial and other 2
1947 1948 1949	19. 33 21. 30 18. 98	8. 44 9. 01 7. 12	3. 25 3. 30 2. 45	5. 19 5. 71 4. 68	10. 89 12. 29 11. 86	0.69 .93 .88	0. 91 1. 37 1. 42	0.17 .10 .12	1. 13 1. 17 . 76	1. 54 2. 54 3. 10	1. 40 1. 74 1. 34	5. 0 5 4. 42 4. 24
1950 1951 1952 1953 1954	25 /6	7.39 10.71 11.45 11.86 11.24	2. 94 4. 82 5. 21 5. 31 4. 91	4. 45 5. 89 6. 24 6. 56 6. 33	12. 82 14. 75 14. 98 16. 34 15. 95	. 84 1. 11 1. 21 1. 25 1. 28	1.18 1.58 1.50 1.42 .93	. 10 . 14 . 24 . 24 . 24 . 24	1. 09 1. 33 1. 23 1. 29 1. 22	3. 24 3. 56 3. 74 4. 34 3. 99	1. 14 1. 37 1. 61 1. 78 1. 82	5. 22 5. 67 5. 45 6. 02 6. 45
1955 1956 1957 1958 1959	29, 53 35, 73 37, 94 31, 89 33, 55	11. 89 15. 40 16. 51 12. 38 12. 77	5. 41 7. 45 7. 84 5. 61 5. 81	6.48 7.95 8.68 6.77 6.95	17. 64 20. 34 21. 43 19. 51 20. 78	1. 31 1. 64 1. 69 1. 43 1. 36	1. 02 1. 37 1. 58 . 86 1. 02	. 26 . 35 . 41 . 37 . 78	1. 30 1. 31 1. 30 1. 06 1. 33	4. 03 4. 52 5. 67 5. 52 5. 14	2. 11 2. 82 3. 19 2. 79 2. 72	7.63 8.32 7.60 7.48 8.44
1960 1961 1962 1963 1964	35.91	15. 09 14. 33 15. 06 16. 22 19. 34	7.23 6.31 6.79 7.53 9.28	7.85 8.02 8.26 8.70 10.07	21. 66 21. 58 23. 33 24. 55 27. 62	1. 30 1. 29 1. 40 1. 27 1. 34	1. 16 . 82 1. 02 1. 26 1. 66	.66 .73 .52 .40 1.02	1. 30 1. 23 1. 65 1. 58 1. 50	5. 24 5. 00 4. 90 4. 98 5. 49	3. 24 3. 39 3. 85 4. 06 4. 61	8.75 9.13 9.99 10.99 12.02
1965 1966 1967 1968 1968	63. 51 65. 47 67. 76	23. 44 28. 20 28. 51 28. 37 31. 68	11. 50 14. 06 14. 06 14. 12 15. 96	11. 94 14. 14 14. 45 14. 25 15. 72	30. 98 35. 32 36. 96 39. 40 43. 88	1. 46 1. 62 1. 65 1. 63 1. 86	1. 99 2. 37 1. 86 1. 45 1. 86	1. 22 1. 74 2. 29 2. 56 2. 51	1.68 1.64 1.48 1.59 1.68	6. 13 7. 43 8. 74 10. 20 11. 61	5. 30 6. 02 6. 34 6. 83 8. 30	13. 19 14. 48 14. 59 15. 14 16. 05
1970 1971 1972 1973 1974	79. 71 81. 21 88. 44 99. 74 112. 40	31. 95 29. 99 31. 35 38. 01 46. 01	15. 80 14. 15 15. 64 19. 25 22. 62	16. 15 15. 84 15. 72 18. 76 23. 39	47.76 51.22 57.09 61.73 66.39	1.89 2.16 2.42 2.74 3.18	1.78 1.67 1.80 1.96 2.54	3.03 1.88 2.46 2.41 2.00	1. 23 1. 38 1. 46 1. 66 2. 12	13. 14 15. 30 17. 00 18. 71 20. 55	10. 10 10. 77 11. 89 12. 85 13. 96	16. 59 18. 05 20. 07 21. 40 22. 05
1975 1976 1977 ³ 1978 ³	112.78 120.49	47.95 52.48 61.03 67.35	21.84 23.68 28.26 31.57	26. 11 28. 81 32. 77 35. 78	64. 82 68. 01 75. 99 83. 54	3.79 4.00 4.44 5.27	2.55 2.52 2.90 3.34	1.84 1.30 1.68 2.17	3. 18 3. 63 2. 41 1. 88	20. 14 22. 28 26. 14 29. 27	12.74 13.30 15.36 41	20.60 20.99 23.06 .61
1975: 1 11 111 IV	114.57 112.46 112.16 111.80	49. 05 48. 78 47. 39 46. 82	22.86 22.59 21.01 21.07	26. 20 26. 19 26. 38 25. 75	65. 52 63. 68 64. 76 64. 98	3. 76 3. 78 3. 82 3. 82 3. 82	2, 39 2, 70 2, 75 2, 39	2.09 1.60 2.12 1.65	2.82 2.75 2.99 3.56	20. 28 19. 52 19. 79 20. 91	13.36 12.50 12.95 12.22	20.82 20.83 20.34 20.44
1976: I II III IV	114. 72 118. 12 122. 55 125. 22	49. 21 50. 64 54. 78 54. 44	21, 63 22, 54 24, 59 25, 50	27.58 28.09 30.20 28.93	65. 51 67. 48 67. 76 70. 78	3. 83 3. 83 4. 21 4. 13	2.08 2.64 2.69 2.63	1.18 1.44 1.12 1.41	3. 29 4. 16 3. 44 3. 49	21. 91 21. 85 21. 67 23. 46	12. 54 12. 62 13. 64 14. 30	20. 68 20. 94 20. 99 21. 36
1977: / V ³	130. 16 134. 24 140. 38 142. 38	56. 43 59. 46 63. 02 64. 42	26. 30 27. 26 29. 23 29. 88	30. 13 32. 19 33. 79 34. 54	73. 74 74. 78 77. 36 77. 96	4. 24 4. 49 4. 74 4. 30	2. 71 2. 57 3. 20 3. 18	1.62 1.43 1.69 2.01	2.96 2.96 1.96 1.98	25. 35 25. 29 26. 22 27. 41	14. 19 15. 32 16. 40 39	22. 67 22. 73 23. 14 09
1978: † ³ ³	146. 26 149. 86	64. 14 67. 73	30. 46 31. 82	33. 68 35. 91	82. 12 82. 13	4.61	3. 80	2.39	1.83	28.72		76

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹Excludes agricultural business; real estate operators; medical, legal, educational, and cultural services; and nonprofit organizations. These figures do not agree precisely with the nonresidential fixed investment data in the gross national product estimates, mainly because those data include investment by farmers, professionals, nonprofit institutions, and real estate firms, and certain outlays charged to current account. ² Commercial and other includes trade, service, construction, finance, and insurance. ³ Estimates based on expected capital expenditures reported by business in October-December 1977. Includes adjust-ments when necessary for systematic tendencies in expectations data.

Source: Department of Commerce, Bureau of Economic Analysis.

<u></u>	Total manufacturing						Merchant wholesalers					
Year or month	a	nd trade		Ma	nufactur	ing	Merch	ant whole	esalers	R	etail trad	e
	Sales 1	Inven- tories ²	Ratio 3	Sales 1	Inven- tories 2	Ratio 3	Sales 1	Inven- tories ²	Ratio 3	Sales 1	Inven- tories ²	Ratio 3
1947 1948 1949			1. 42 1. 53	15, 513 17, 316 16, 126	25, 897 28, 543 26, 321	1.58 1.57 1.75			1. 13 1. 19		14, 241 16, 007 15, 470	I. 26 1. 39 1. 41
1950 1951 1952 1953 1954	38, 596 43, 356 44, 840 47, 987 46, 443	59, 822 70, 242 72, 377 76, 122 73, 175	1.36 1.55 1.58 1.58 1.60	18, 634 21, 714 22, 529 24, 843 23, 355	31, 078 39, 306 41, 136 43, 948 41, 612	1.48 1.66 1.78 1.76 1.81	7, 695 8, 597 8, 782 9, 052 8, 993	9, 284 9, 886 10, 210 10, 686 10, 637	1.07 1.16 1.12 1.17 1.18	12, 268 13, 046 13, 529 14, 091 14, 095	19, 460 21, 050 21, 031 21, 488 20, 926	1.38 1.64 1.52 1.53 1.51
1955 1956 1957 1958 1959		79, 516 87, 304 89, 052 87, 094 92, 132	1.47 1.55 1.59 1.60 1.50	26, 480 27, 740 28, 736 27, 247 30, 286	45, 069 50, 642 51, 871 50, 242 52, 948	1.62 1.73 1.80 1.84 1.70	10, 257	11, 678 13, 260 12, 730 12, 739 13, 879	1. 13 1. 19 1. 23 1. 24 1. 15	15, 321 15, 811 16, 667 16, 696 17, 951	24.113	1.43 1.47 1.44 1.43 1.40
1960 1961 1962 1963 1964	60, 828 61, 160 65, 660 68, 995 73, 682	94, 718 95, 596 101, 064 105, 482 111, 501	1.56 1.54 1.50 1.49 1.47	30, 879 30, 923 33, 357 35, 058 37, 330	53, 785 54, 887 58, 187 60, 048 63, 407	1.76 1.74 1.70 1.69 1.64	11, 656 11, 988 12, 674 13, 382 14, 529	14, 120 14, 488 14, 936 16, 048 17, 000	1. 22 1. 20 1. 16 1. 15 1. 14	18, 294 18, 249 19, 630 20, 556 21, 823		
1965 1966 1967 1968 1969			1.45 1.48 1.57 1.54 1.56		68, 190 77, 951 84, 527 90, 394 98, 011	1.60 1.62 1.76 1.74 1.76				23, 677 25, 330 24, 413 27, 092 29, 041		
1970 1971 1972 1973 1974				52, 831 55, 925 63, 042 72, 954 84, 612		1.89 1.83 1.67 1.58 1.66	23 043			30, 924 34, 169 37, 422 41, 871 44, 5 43		1.41
1975 1976 1977 4	180, 229 200, 118 221, 668	281, 837 306, 325 332, 049	1. 57 1. 47 1. 45	87, 226 98, 168 109, 962	155, 693 166, 587 177, 162		44, 633 48, 408 53, 179	55, 113 61, 307 66, 422	1. 24 1. 21 1. 22	48, 370 53, 542 58, 527	71, 031 78, 431 88, 465	
1976: Jan Feb Mar Apr May June	191, 810 194, 335 196, 915 198, 492 197, 848 200, 067	283, 369 285, 273 287, 634 289, 807 292, 554 296, 083	1.48 1.47 1.46 1.46 1.48 1.48	93, 884 95, 262 97, 502 98, 178 98, 191 98, 597	156, 120 156, 458 157, 560 158, 134 159, 488 161, 118	1.66 1.64 1.62 1.61 1.62 1.63	46, 257 46, 997 47, 239 47, 714 47, 359 48, 554	55, 683 56, 263 56, 531 57, 326 58, 308 59, 427	1. 20 1. 20 1. 20 1. 20 1. 23 1. 23	51, 669 52, 076 52, 174 52, 600 52, 298 52, 916	71, 566 72, 552 73, 543 74, 347 74, 758 75, 538	1.39 1.39 1.41 1.41 1.43 1.43
July Aug Sept Oct Nov Dec	200, 482 200, 823 201, 093 199, 569 203, 731	297, 899 300, 428 303, 468 305, 234 306, 151 306, 325	1. 49 1. 50 1. 51 1. 53 1. 50 1. 44	98, 932 99, 078 98, 387 97, 043 99, 919 104, 475	162, 144 163, 184 164, 966 166, 674 167, 114 166, 587	1.64 1.65 1.68 1.72 1.67 1.59	48, 604 48, 548 49, 336 48, 355	59, 703 59, 913 60, 440 60, 553 61, 049 61, 307	1. 23 1. 23 1. 23 1. 25 1. 25 1. 20	52, 946 53, 197 53, 370 54, 171 54, 822 56, 685	76, 052 77, 331 78, 062 78, 007 77, 988 78, 431	1.44 1.45 1.46 1.44 1.42 1.38
1977: Jan Feb Mar Apr May June	209, 950 215, 281 221, 903	309, 063	1. 47 1. 45 1. 42 1. 44 1. 45 1. 45	103, 569 106, 133 111, 241 109, 640 109, 458 110, 680	167, 482 168, 449 169, 379 170, 747 172, 629 173, 818	1.62 1.59 1.52 1.56 1.58 1.58	50, 678 51, 857 52, 672 53, 385 53, 866	62, 123	1.23	55, 703 57, 291 57, 990 58, 142 58, 003	79, 458	1. 43 1. 39 1. 40 1. 41 1. 43 1. 45
July Aug Sept Oct Nov Dec P	221, 255 223, 604 224, 242 227, 536	324, 107 326, 849 329, 510 330, 460			174, 571 175, 104 176, 164 176, 789 177, 162		53, 495 53, 208 53, 307 53, 639		1.20 1.22 1.24 1.23		85, 326 86, 650 87, 227 87, 462 88, 465	1.46 1.47 1.48 1.44

[Amounts in millions of dollars; monthly data seasonally adjusted]

Monthly average for year and total for month.
 Seasonally adjusted, end of period.
 Inventory/sales ratio. For annual periods, ratio of weighted average inventories to average monthly sales; for monthly data, ratio of inventories at end of month to sales for month.
 Based on seasonally adjusted data through November.

Note.—The inventory figures in this table do not agree with the estimates of change in business inv entories included in the gross national product since these figures cover only manufacturing and trade rather than all business, and show inventories in terms of current book value without adjustment for revaluation.

Source: Department of Commerce (Bureau of Economic Analysis and Bureau of the Census).

TABLE B-47.--Manufacturers' shipments and inventories, 1947-77

[Millions of dollars; month]	v data seasonally adjusted)
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		Shipment	s 1	Inventories ²								_
		Dura-	Non-		Dui	able goo	ds indust	tries	Nond	urable g	oods indu	stries
Year or month	Total	ble	durable goods indus- tries	Total	Total	Mate- rials and sup- plies	Work in process	Fin- ished goods	Total	Mate- rials and sup- plies	Work in process	Fin- ished goods
		6, 694 7, 579 7, 191	8, 819 9, 738 8, 935	25, 897 28, 543 26, 321	13, 061 14, 662 13, 060				12, 836 13, 881 13, 261			
1950 1951 1952 1953 1954	18, 634 21, 714 22, 529 24, 843 23, 355	8, 845 10, 493 11, 313 13, 349 11, 828	9, 789 11, 221 11, 216 11, 494 11, 527	31, 078 39, 306 41, 136 43, 948 41, 612	15, 539 20, 991 23, 731 25, 878 23, 710	8, 966 7, 894	10, 720 9, 721		15, 539 18, 315 17, 405 18, 070 17, 902	8, 317 8, 167	2, 472 2, 440	7, 409 7, 415
1955 1956 1957 1958 1959	26, 480 27, 740 28, 736 27, 247 30, 286	14, 071 14, 715 15, 237 13, 563 15, 609	12, 409 13, 025 13, 499 13, 684 14, 677	45, 069 50, 642 51, 871 50, 242 52, 948	26, 405 30, 447 31, 728 30, 259 32, 077	9, 194 10, 417 10, 608 10, 041 10, 781	12.391	6, 348 7, 565 8, 125 7, 829 8, 232	18, 664 20, 195 20, 143 19, 983 20, 871	8, 556 8, 971 8, 775 8, 674 9, 097	2, 571 2, 721 2, 864 2, 835 2, 950	7, 666 8, 622 8, 624 8, 474 8, 825
1960 1961 1962 1963 1964	30, 879 30, 923 33, 357 35, 058 37, 330	15, 883 15, 616 17, 262 18, 280 19, 637	14, 996 15, 307 16, 095 16, 778 17, 693	53, 785 54, 887 58, 187 60, 048 63, 407	32, 375 32, 544 34, 632 35, 867 38, 506	10, 354 10, 276 10, 802 11, 062 11, 958	12, 777 13, 210 14, 170 14, 885 16, 209	9, 243 9, 058 9, 659 9, 920 10, 342	21, 410 22, 343 23, 555 24, 182 24, 901	9, 104 9, 519 9, 844 10, 005 10, 151	2, 949 3, 109 3, 297 3, 410 3, 522	9, 357 9, 715 10, 414 10, 764 11, 229
	40, 995 44, 869 46, 487 50, 269 53, 540	22, 221 24, 648 25, 267 27, 698 29, 477	18, 773 20, 220 21, 220 22, 570 24, 064		42, 264 49, 922 54, 885 58, 675 64, 561	13, 311 15, 033 16, 397 17, 314 18, 638	18, 098 22, 583 24, 984 27, 265 30, 329	10 852	25, 926 28, 029 29, 641 31, 719 33, 450		3, 820 4, 222 4, 432 4, 851 5, 117	11, 643 12, 645 13, 496 14, 581 15, 612
1970 1971 1972 1973 1974	52, 831 55, 925 63, 042 72, 954 84, 612	28, 215 29, 973 34, 042 39, 704 44, 043	24, 616 25, 953 28, 999 33, 250 40, 569	101, 502 102, 490 108, 072 124, 395 157, 971	66, 648 66, 149 70, 098 81, 218 101, 780	19, 123 19, 681 20, 752 25, 892 35, 809	29, 785 28, 586 30, 738 35, 440 41, 254	17, 714 17, 839 18, 556 19, 812 24, 613	34, 854 36, 341 37, 974 43, 177 56, 191	13, 139 13, 661 14, 655 17, 882 23, 963	5, 269 5, 676 6, 009 6, 751 8, 503	16, 447 17, 003 17, 306 18, 545 23, 726
1975 1976 1977 ³		43, 912 50, 376 57, 261		155, 693 166, 587 177, 162		33, 145 34, 621 37, 147	41, 304 43, 020 44, 938		55, 382 60, 858 64, 614	23, 023 26, 013 26, 353	8, 234 9, 182 9, 761	24, 124 25, 663 28, 500
1976: Jan Feb Mar Apr May June	93, 884 95, 262 97, 502 98, 178 98, 191 98, 597	47, 289 48, 430 50, 382 50, 146 50, 558 50, 606	46, 595 46, 832 47, 120 48, 033 47, 634 47, 990	156, 120 156, 458 157, 560 158, 134 159, 488 161, 118	99, 980 99, 942 100, 740 101, 033 101, 502 102, 429	33, 551 33, 269 33, 541 33, 416 33, 669 33, 927	40, 910 40, 568 40, 745 40, 910 40, 978 41, 411	25, 371 25, 438 25, 558 25, 855 26, 045 26, 344	56, 140 56, 516 56, 820 57, 101 57, 986 58, 689	23, 288 23, 460 23, 666 23, 765 24, 366 24, 453	8, 391 8, 520 8, 640 8, 677 8, 705 8, 873	24, 461 24, 536 24, 512 24, 660 24, 913 25, 364
July Aug Sept Oct Nov Dec	98, 932 99, 078 98, 387 97, 043 99, 919 104, 475	51, 090 51, 648 50, 060 49, 029 51, 238 55, 295	47, 842 47, 430 48, 328	162, 144 163, 184 164, 966 166, 674 167, 114 166, 587	102, 856 103, 282 104 117	34, 064 33, 822 34, 113 35, 047 35, 320 34, 621	41, 499 41, 743 41, 987 42, 627 43, 005 43, 020	26 862	59, 288 59, 902 60, 850 61, 085 60, 986 60, 858	24, 900 25, 023 25, 502 26, 880 25, 843 26, 013	8, 929 9, 004 9, 096 8, 524 9, 171 9, 182	25, 460 25, 875 26, 250 25, 681 25, 972 25, 663
1977: Jan Feb Mar Apr May June	103, 569 106, 133 111, 241 109, 640 109, 458 110, 680	53, 341 54, 703 58, 849 56, 764 56, 717 57, 570	50, 228 51, 430 52, 392 52, 876 52, 741 53, 110	167, 482 168, 449 169, 379 170, 747 172, 629 173, 818	106, 562 107, 222 107, 685 108, 190 109, 154 110, 421	35, 141 35, 229 35, 798 35, 758 36, 615 37, 289	43, 235 43, 611 43, 343 43, 805 43, 339 43, 584	28, 186 28, 382	60, 920 61, 227 61, 694 62, 557 63, 475 63, 397	25, 678 25, 988 26, 405 26, 810 27, 068 26, 842	9, 067 9, 141 9, 356 9, 379 9, 422 9, 429	26, 175
July Aug Sept Oct Nov	109, 208 111, 376 111, 921 113, 119 113, 240	56, 820 58, 087 58, 608 59, 262 59, 154		174, 571 175, 104 176, 164 176, 789 177, 162		37, 209 37, 312 37, 538 37, 394 37, 147	44, 120 44, 529 44, 750 44, 430 44, 938	29, 649 29, 611 29, 499 30, 080 30, 463	63, 593 63, 652 64, 377 64, 885 64, 614	26, 701 26, 579 26, 765 26, 696 26, 353	9, 574 9, 547 9, 629 9, 741 9, 761	27, 318 27, 526 27, 983 28, 448

Monthly average for year and total for month.
 Book value, seasonally adjusted, end of period, except as noted.
 Based on seasonally adjusted data through November.

Note.—Data are as published by Bureau of the Census, but for 1968-75 detail for durable goods inventories does not add to totals. Correction will be published later by Census.

Source: Department of Commerce, Bureau of the Census.

TABLE B-48.—Manufacturers' new and unfilled orders, 1947-77	TABLE	B-48	-Manufacturers ¹	new and	unfilled	orders,	1947-77
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		New o	rders 1		Un	filled orde	rs ²	Unfilled orders			
Year or month		Durabl indu	e goods stries	Non-		Dura-	Non-		Dura-	Non-	
	Total	Total	Capital goods indus- tries, non- defense	dura- ble goods indus- tries	Total	ble goods indus- tries	dura- ble goods indus- tries	Total	ble goods indus- tries	dura- ble goods indus- tries	
1947 1948 1949	15, 256 17, 693 15, 614	6, 388 8, 126 6, 633		8, 868 9, 566 8, 981	34, 473 30, 736 24, 045	28, 579 26, 619 19, 622	5, 894 4, 117 4, 423				
1950. 1951. 1952. 1953. 1953.	20, 110 23, 907 23, 204 23, 586 22, 335	10, 165 12, 841 12, 061 12, 147 10, 768		9,945 11,066 11,143 11,439 11,566	41, 456 67, 266 75, 857 61, 178 48, 266	35, 435 63, 394 72, 680 58, 637 45, 250	6, 021 3, 872 3, 177 2, 541 3, 016	3. 42		0, 96	
1955 1956 1957 1957 1958 1959	27, 465 28, 368 27, 559 27, 002 30, 724	14, 996 15, 365 14, 111 13, 290 16, 003		12, 469 13, 003 13, 448 13, 712 14, 720	60, 004 67, 375 53, 183 47, 280 52, 571	56, 241 63, 880 50, 352 44, 465 49, 207	3, 763 3, 495 2, 831 2, 815 3, 364	3. 63 3. 87 3. 35 3. 07 3. 00	4.27 4.55 4.00 3.67 3.53	1. 12 1. 04 . 85 . 86 . 94	
1960 1961 1962 1963 1964		15, 303 15, 759 17, 374 18, 709 20, 652		14, 932 15, 345 16, 061 16, 815 17, 705	45, 061 47, 384 48, 600 54, 384 67, 001	42, 491 44, 345 45, 983 51, 321 63, 806	2, 570 3, 039 2, 617 3, 063 3, 195	2.78 2.64 2.68 2.81 3.10	3. 36 3. 14 3. 21 3. 38 3. 71	. 72 . 79 . 68 . 73 . 72	
1965 1966 1967 1968 1969		23, 278 26, 177 25, 831 28, 149 29, 934	7, 079 7, 821	18, 823 20, 225 21, 232 22, 571 24, 079	80, 174 98, 519 105, 114 110, 537 116, 330	76, 395 94, 689 101, 144 106, 563 112, 158	3, 778 3, 830 3, 970 3, 974 4, 172	3. 34 3. 80 3. 73 3. 85 3. 76	3.97 4.54 4.44 4.64 4.50	. 80 . 76 . 73 . 69 . 69	
1970	52, 096 55, 937 64, 246 76, 217 86, 988	27, 447 29, 951 35, 142 42, 888 46, 570	7, 053 7, 575 8, 947 11, 169 12, 656	24, 649 25, 986 29, 104 33, 329 40, 418	107, 460 107, 656 122, 362 161, 766 190, 271	102, 867 102, 623 116, 004 154, 361 184, 697	4, 593 5, 033 6, 358 7, 404 5, 575	3.70 3.39 3.35 3.94 4.23	4.45 4.06 3.96 4.66 5.09	.77 .78 .88 .93 .64	
1975 1976 1977 4	85, 659 98, 497 111, 233	42, 164 50, 681 58, 488	10, 899 12, 820 15, 119	43, 495 47, 816 52, 744	171, 438 175, 453 189, 416	163, 582 167, 261 180, 750	7, 856 8, 192 8, 666	3. 63 3. 28 3. 22	4.40 3.93 3.85	. 78 . 75 . 73	
1976: Jan Feb Mar Apr May June	92, 639 94, 755 98, 267 98, 415 99, 025 99, 135	45, 904 47, 930 51, 111 50, 245 51, 354 51, 249	11, 663 11, 900 12, 173 12, 476 12, 666 12, 607	46, 735 46, 825 47, 155 48, 170 47, 670 47, 886	170, 193 169, 686 170, 450 170, 687 171, 520 172, 059	162, 197 161, 697 162, 426 162, 525 163, 322 163, 965	7, 996 7, 989 8, 024 8, 162 8, 198 8, 094	3. 53 3. 46 3. 37 3. 39 3. 35 3. 38	4. 26 4. 19 4. 06 4. 08 4. 02 4. 06	.79 .77 .77 .77 .78 .77	
July Aug Sept Oct Nov Dec	98, 811 97, 554 98, 476 99, 006 100, 784 106, 600	51, 180 50, 380 50, 068 50, 754 52, 235 57, 040	13, 778 12, 690 13, 468 14, 124 12, 734 13, 835	47, 631 47, 174 48, 409 48, 252 48, 549 49, 560	171, 938 170, 414 170, 503 172, 468 173, 333 175, 453	164, 055 162, 787 162, 795 164, 522 165, 519 167, 261	7, 883 7, 627 7, 708 7, 946 7, 814 8, 192	3. 38 3. 31 3. 33 3. 45 3. 39 3. 28	4.04 3.97 4.02 4.14 4.07 3.93	.76 .73 .72 .77 .75 .75	
1977: Jan Feb Mar Apr May June	105, 288 106, 575 111, 788 111, 547 111, 693 111, 524	55, 037 55, 133 59, 160 58, 652 59, 176 58, 378	14, 621 14, 249 14, 561 14, 679 15, 000 15, 535	50, 251 51, 442 52, 628 52, 895 52, 517 53, 146	177, 179 177, 623 178, 167 180, 065 182, 301 183, 150	168, 962 169, 394 169, 704 171, 587 174, 047 174, 859	8, 217 8, 229 8, 463 8, 478 8, 254 8, 291	3. 34 3. 29 3. 11 3. 20 3. 23 3. 22	4. 02 3. 96 3. 71 3. 86 3. 89 3. 88	.75 .73 .73 .72 .70 .71	
July Aug Sept Oct Nov	108, 598 111, 494 112, 441 116, 543 116, 068	56, 031 58, 270 59, 048 62, 503 61, 984	14, 409 14, 678 16, 189 16, 502 15, 883	52, 567 53, 224 53, 393 54, 040 54, 084	182, 541 182, 646 183, 166 186, 590 189, 416	174, 072 174, 245 174, 682 177, 923 180, 750	8, 469 8, 401 8, 484 8, 667 8 , 666	3. 23 3. 17 3. 15 3. 19 3. 22	3. 88 3. 81 3. 78 3. 81 3. 81 3. 85	.73 .70 .71 .73 .73	

[Amounts in millions of dollars; monthly data seasonally adjusted]

Monthly average for year and total for month.
 Seasonally adjusted, end of period.
 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.
 Based on seasonally adjusted data through November.

Source: Department of Commerce, Bureau of the Census.

PRICES

TABLE B-49.—Consumer price indexes by expenditure classes, 1929-77

For urban wage earners and clerical workers

[1967 = 100]

Year or month	All	Food	Hou	sing	Apparel and	Trans- porta-	Medical	Personal	Reading and	Other goods
	items	FOUG	Total	Rent	upkeep	tion	care	care	recrea- tion	and services
1929	51.3	48.3		76.0	48.5					
1933	38. 8	30.6		54, 1	36.9		•••••			
1939	41.6	34.6	52, 2	56.0	42.4	43.0	36.7	40.3	45.3	46.9
1940	42.0 44.1 48.8 51.8 52.7 53.9 58.5 66.9 72.1 71.4	35. 2 38. 4 45. 1 50. 3 49. 6 50. 7 58. 1 70. 6 76. 6 73. 5	52. 4 55. 7 56. 2 56. 8 58. 1 59. 1 60. 6 65. 2 69. 8 70. 9	56. 2 57. 2 58. 5 58. 5 58. 6 58. 8 59. 2 61. 1 65. 1 68. 0	42. 8 44. 8 52. 3 54. 6 58. 5 61. 5 67. 5 78. 2 83. 3 80. 1	42. 7 44. 2 48. 1 47. 9 47. 9 47. 8 50. 3 55. 5 61. 8 66. 4	36. 8 37. 0 38. 0 39. 9 41. 1 42. 1 44. 4 48. 1 51. 1 52. 7	40. 2 41. 2 45. 2 49. 9 53. 4 55. 1 59. 0 66. 0 68. 5 68. 3	46. 1 47. 7 50. 0 54. 1 60. 0 62. 4 64. 5 68. 7 72. 2 74. 9	48. 3 49. 2 50. 7 53. 3 54. 7 56. 9 58. 8 63. 8 66. 8 68. 7
1950	72.1 77.8 79.5 80.1 80.5 80.2 81.4 84.3 86.6 87.3	74.5 82.8 84.3 83.0 82.8 81.6 82.2 84.9 88.5 87.1	72.8 77.2 78.7 80.8 81.7 82.3 83.6 86.2 87.7 88.6	70. 4 73. 2 76. 2 80. 3 83. 2 84. 3 85. 9 87. 5 89. 1 90. 4	79.0 86.1 85.3 84.6 84.5 84.1 85.8 87.3 87.5 88.2	68. 2 72. 5 77. 3 79. 5 78. 3 77. 4 78. 8 83. 3 86. 0 89. 6	53.7 56.3 59.3 61.4 63.4 64.8 67.2 69.9 73.2 76.4	68.3 74.7 75.6 76.3 76.6 77.9 81.1 84.1 86.9 88.7	74.4 76.6 76.9 77.7 76.9 76.7 77.8 80.7 83.9 85.3	69. 9 72. 8 76. 6 78. 5 79. 8 81. 0 83. 3 84. 4 86. 1
1960	88.7 89.6 90.6 91.7 92.9 94.5 97.2 100.0 104.2 109.8	88. 0 89. 1 99. 9 91. 2 92. 4 94. 4 99. 1 100. 0 103. 6 108. 9	90. 2 90. 9 91. 7 92. 7 93. 8 94. 9 97. 2 100. 0 104. 2 110. 8	91.7 92.9 94.0 95.0 95.9 96.9 98.2 100.0 102.4 105.7	89.6 90.4 90.9 91.9 92.7 93.7 96.1 100.0 105.4 111.5	89.6 90.6 92.5 93.0 94.3 95.9 97.2 100.0 103.2 107.2	79. 1 81. 4 83. 5 85. 6 87. 3 89. 5 93. 4 100. 0 106. 1 113. 4	90. 1 90. 6 92. 2 93. 4 94. 5 95. 2 97. 1 100. 0 104. 2 109. 3	87.3 89.3 91.3 92.8 95.0 95.9 97.5 100.0 104.7 108.7	87. 8 88. 5 89. 1 90. 6 92. 0 94. 2 97. 2 100. 0 104. 6 109. 1
1970 1971 1972 1973 1974 1975 1976 1976 1977	116.3 121.3 125.3 133.1 147.7 161.2 170.5 181.5	114, 9 118, 4 123, 5 141, 4 161, 7 175, 4 180, 8 192, 2	118.9 124.3 129.2 135.0 150.6 166.8 177.2 189.6	110. 1 115. 2 119. 2 124. 3 130. 6 137. 3 144. 7 153. 5	116. 1 119. 8 122. 3 126. 8 136. 2 142. 3 147. 6 154. 2	112.7 118.6 119.9 123.8 137.7 150.6 165.5 177.2	120.6 128.4 132.5 137.7 150.5 168.6 184.7 202.4	113.2 116.8 119.8 125.2 137.3 150.7 160.5 170.9	113. 4 119. 3 122. 8 125. 9 133. 8 144. 4 151. 2 157. 9	116.0 120.9 125.5 129.0 137.2 147.4 153.3 159.2
1976: Jan Feb Mar Apr May June	166. 7 167. 1 167. 5 168. 2 169. 2 170. 1	180, 8 180, 0 178, 7 179, 2 180, 0 180, 9	173. 2 173. 8 174. 5 174. 9 175. 6 176. 5	141. 2 142. 1 142. 7 143. 2 143. 8 144. 4	143. 3 144. 0 145. 0 145. 7 146. 8 146. 9	158. 1 158. 5 159. 8 161. 3 163. 5 165. 9	176.6 178.8 180.6 181.6 182.6 183.7	155. 7 157. 0 157. 4 158. 3 158. 9 159. 8	148. 2 148. 5 149. 0 149. 5 150. 3 150. 9	150, 5 151, 3 151, 8 152, 5 152, 9 153, 2
July Aug Sept Oct Nov Dec	171. 1 171. 9 172. 6 173. 3 173. 8 174. 3	182. 1 182. 4 181. 6 181. 6 181. 1 181. 7	177.5 178.4 179.5 180.1 180.7 181.6	145.0 145.6 146.2 146.9 147.5 148.3	146.5 148.1 150.2 150.9 151.9 151.8	167.6 168.5 169.5 170.9 171.4 171.4	185.5 186.8 187.9 188.9 191.3 192.3	160, 5 161, 6 162, 8 163, 9 164, 8 165, 2	151. 2 151. 4 152. 8 153. 5 154. 1 154. 4	153.6 153.8 153.9 154.4 155.3 155.9
1977: Jan Feb Mar Apr May June	175. 3 177. 1 178. 2 179. 6 180. 6 181. 8	183, 4 187, 7 188, 6 190, 9 191, 7 193, 6	183. 1 184. 3 185. 5 186. 7 187. 6 189. 0	149.5 150.2 150.8 151.6 152.2 152.9	150. 0 150. 8 151. 7 152. 3 153. 4 153. 9	172. 2 173. 2 174. 7 176. 7 178. 1 179. 1	194. 1 195. 8 197. 6 199. 1 200. 5 201. 8	166. 2 166. 7 167. 3 168. 4 169. 5 170. 6	154. 9 155. 5 155. 8 156. 0 156. 8 157. 6	156.7 156.9 157.3 157.7 158.0 158.4
July Aug Sept Oct Nov Dec	182.6 183.3 184.0 184.5 185.4 186.1	194. 6 195. 2 194. 5 194. 4 195. 6 196. 3	190. 5 191. 4 192. 7 193. 6 194. 6 195. 7	153.6 154.4 155.3 156.1 157.0 157.9	153.4 154.8 156.2 157.2 158.5 158.2	179.2 178.8 178.4 178.6 178.7 178.8	203.5 204.9 206.3 207.2 208.1 209.3	171. 3 172. 1 172. 8 173. 9 175. 5 176. 3	157. 7 158. 1 159. 8 160. 6 160. 9 161. 3	159. 1 159. 1 160. 6 161. 5 162. 4 162. 7

For urban wage earners and clerical workers

[1967 = 100]

			C	ommoditi	ies			Services		Special indexes		
Year or month	All items	All		Comme	odities le	ss food		1	Serv-	All	All	Non- dura-
		com- modi- ties	Food	All	Dura- ble	Non- dura- ble	All services	Rent	ices less rent	items less food	items less shel- ter	ble com- mod- ities
1939	41.6	40.2	34.6	47.7	48.5	44.3	43.5	56.0	38. 1	47.2	39.7	38.4
1940 1941 1942 1943 1944 1945 1946 1946 1947 1948 1949	42.0 44.1 48.8 51.8 52.7 53.9 58.5 66.9 72.1 71.4	40. 6 43. 3 49. 6 54. 0 54. 7 56. 3 62. 4 75. 0 80. 4 78. 3	35. 2 38. 4 45. 1 50. 3 49. 6 50. 7 58. 1 70. 6 76. 6 73. 5	48.0 50.4 56.0 58.4 61.6 64.1 68.1 76.8 82.7 81.5	48. 1 51. 4 58. 4 60. 3 65. 9 70. 9 74. 1 80. 3 86. 2 87. 4	44.7 46.7 51.6 53.8 56.6 58.6 62.9 72.2 77.8 76.3	43. 6 44. 2 45. 6 46. 4 47. 5 48. 2 49. 1 51. 1 54. 3 56. 9	56. 2 57. 2 58. 5 58. 5 58. 6 58. 8 59. 2 61. 1 65. 1 68. 0	38. 1 38. 6 40. 3 42. 1 44. 2 45. 1 46. 7 49. 0 51. 9 54. 5	47.3 48.7 52.1 53.6 55.7 56.9 59.4 64.9 69.6 70.3	39. 9 42. 4 47. 7 51. 3 52. 2 53. 6 59. 0 68. 5 73. 9 72. 6	38.9 41.6 47.6 51.8 52.2 53.7 59.6 71.9 77.2 74.9
1950		78.8 85.9 87.0 86.7 85.9 85.1 85.9 88.6 90.6 90.7	74.5 82.8 84.3 83.0 82.8 81.6 82.2 84.9 88.5 87.1	81. 4 87. 5 88. 3 88. 5 87. 5 86. 9 87. 8 90. 5 91. 5 92. 7	88. 4 95. 1 96. 4 95. 7 93. 3 91. 5 91. 5 94. 4 95. 9 97. 3	76. 2 82. 0 82. 4 83. 1 83. 5 83. 5 85. 3 87. 6 88. 2 89. 3	58.7 61.8 64.5 67.3 69.5 70.9 72.7 75.6 78.5 80.8	70. 4 73. 2 76. 2 80. 3 83. 2 84. 3 85. 9 87. 5 89. 1 90. 4	56.0 59.3 62.2 64.8 66.7 68.2 70.1 73.3 76.4 79.0	71.1 75.7 77.5 79.0 79.5 79.7 81.1 83.8 85.7 87.3	73. 1 79. 2 80. 8 81. 0 80. 6 81. 7 84. 4 86. 9 87. 6	75. 4 82. 5 83. 4 83. 2 83. 2 83. 2 83. 7 86. 3 88. 6 88. 2
1960	88.7 89.6 90.6	91. 5 92. 0 92. 8 93. 6 94. 6 95. 7 98. 2 100. 0 103. 7 108. 4	88.0 89.1 89.9 91.2 92.4 94.4 99.1 100.0 103.6 108.9	93, 1 93, 4 94, 1 94, 8 95, 6 96, 2 97, 5 100, 0 103, 7 108, 1	96.7 96.6 97.9 98.8 98.4 98.5 100.0 103.1 107.0	90, 7 91, 2 91, 8 92, 7 93, 5 94, 8 97, 0 100, 0 104, 1 108, 8	83.5 85.2 86.8 88.5 90.2 92.2 95.8 100.0 105.2 112.5	91.7 92.9 94.0 95.9 96.9 98.2 100.0 102.4 105.7	81.9 83.9 85.5 87.3 89.2 91.5 95.3 100.0 105.7 113.8	88.8 89.7 90.8 92.0 93.2 94.5 96.7 100.0 104.4 110.1	88.9 90.9 92.1 93.2 94.6 97.4 100.0 104.1 109.0	89. 4 90. 2 90. 9 92. 0 93. 0 94. 6 98. 1 100. 0 103. 9 108. 9
1970 1971 1972 1973 1974 1975 1976 1977	110.0	113.5 117.4 120.9 129.9 145.5 158.4 165.2 174.7	114.9 118.4 123.5 141.4 161.7 175.4 180.8 192.2	112.5 116.8 119.4 123.5 136.6 149.1 156.6 165.1	111. 8 116. 5 118. 9 121. 9 130. 6 145. 5 154. 3 163. 2	113.1 117.0 119.8 124.8 140.9 151.7 158.3 166.5	121. 6 128. 4 133. 3 139. 1 152. 1 166. 6 180. 4 194. 3	110. 1 115. 2 119. 2 124. 3 130. 6 137. 3 144. 7 153. 5	123.7 130.8 135.9 141.8 156.0 171.9 186.8 201.6	116.7 122.1 125.8 130.7 143.7 157.1 167.5 178.4	114. 4 119. 3 122. 9 131. 1 146. 1 159. 1 168. 3 179. 1	114. 0 117. 7 121. 7 132. 8 151. 0 163. 2 169. 2 178. 9
1976: Jan Feb Mar Apr May June	166.7 167.1 167.5 168.2	162. 4 162. 3 162. 3 163. 1 164. 2 165. 2	180. 8 180. 0 178. 7 179. 2 180. 0 180. 9	152. 3 152. 7 153. 3 154. 2 155. 5 156. 5	149.0 149.3 150.4 151.9 153.5 154.7	154.7 155.2 155.5 156.0 157.0 157.9	174.9 176.1 177.2 177.7 178.4 179.5	141. 2 142. 1 142. 7 143. 2 143. 8 144. 4	181. 0 182. 2 183. 4 184. 0 184. 7 185. 8	162.6 163.4 164.2 165.0 166.0 167.0	164. 4 164. 9 165. 3 166. 1 167. 1 168. 1	167.3 167.2 166.7 167.2 168.2 168.0
July Aug Sept Oct Nov Dec	171. 1 171. 9 172. 6 173. 3 173. 8 174. 3	166.0 166.6 167.0 167.4 167.7 168.1	182. 1 182. 4 181. 6 181. 6 181. 1 181. 7	157, 1 158, 0 158, 9 159, 6 160, 3 160, 6	155. 8 156. 4 156. 9 157. 8 158. 0 158. 4	158.1 159.1 160.4 161.0 161.9 162.3	180, 7 181, 8 183, 2 184, 1 185, 1 185, 8	145.0 145.6 146.2 146.9 147.5 148.3	187. 2 188. 4 189. 8 190. 8 191. 8 192. 6	167.9 168.9 170.0 170.8 171.6 172.2	169.0 169.7 170.4 171.0 171.6 172.2	169.7 170.4 170.7 171.0 171.3 171.7
1977: Jan Feb Mar Apr May June	175. 3 177. 1 178. 2 179. 6 180. 6 181. 8	168.7 170.9 171.8 173.3 174.3 175.4	183. 4 187. 7 188. 6 190. 9 191. 7 193. 6	160, 6 161, 6 162, 6 163, 6 164, 7 165, 4	158. 9 159. 7 160. 8 162. 2 163. 4 163. 9	161, 9 163, 1 163, 9 164, 7 165, 7 166, 6	187.4 188.7 190.0 191.2 192.2 193.7	149.5 150.2 150.8 151.6 152.2 152.9	194. 3 195. 6 197. 0 198. 4 199. 4 201. 1	172.9 174.0 175.1 176.2 177.3 178.4	173.0 175.0 176.1 177.5 178.4 179.6	172. 4 175. 0 175. 9 177. 4 178. 3 179. 7
July Aug Sept Oct Nov Dec	182.6 183.3 184.0 184.5 185.4 186.1	175.8 176.3 176.6 177.0 177.9 178.3	194. 6 195. 2 194. 5 194. 4 195. 6 156. 3	165.6 166.0 166.7 167.4 168.1 168.4	164. 3 164. 3 164. 5 165. 0 165. 5 165. 9	166. 6 167. 3 168. 4 169. 2 170. 1 170. 3	195. 3 196. 3 197. 7 198. 5 199. 5 200. 5	153.6 154.4 155.3 156.1 157.0 157.9	202. 8 203. 8 205. 3 206. 2 207. 2 208. 2	179. 1 179. 8 180. 9 181. 6 182. 5 183. 1	180. 2 180. 8 181. 2 181. 7 182. 5 183. 0	180. 1 180. 8 181. 0 181. 4 182. 4 182. 9

Source: Department of Labor, Bureau of Labor Statistics.

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TABLE B-51.-Consumer price indexes, selected commodities and services, 1939-77

For urban wage earners and clerical workers

[1967 = 100]

	D	urable co	ommoditi	es	Nondu iti	Nondurable commod- ities less food			Services less rent				
Year or month	Total 1	New cars	Used cars	House- hold dura- bles	Total	Ap- parel com- mod- ities	Non- dura- bles less food and apparel	Total	House- hold serv- ices less rent	Trans- porta- tion serv- ices	Med- ical care serv- ices	Other ²	
1939				55.9	44.3 44.7 46.7 51.6 53.8 56.6 58.6 62.9 72.2 77.8 76.3	43.0 43.5 45.8 53.5 55.9 59.8 63.0 69.5 80.4 85.4 82.0	46. 3 46. 8 48. 4 51. 1 53. 2 54. 7 55. 8 58. 2 66. 2 72. 3 72. 4	38.1 38.6 40.3 42.1 44.2 45.1 46.7 49.0 51.9 54.5		36. 1 36. 3 38. 2 38. 2 38. 2 38. 2 39. 0 40. 3 44. 9 50. 0	32.5 32.5 32.7 33.7 35.4 36.9 37.9 40.1 43.5 46.4 48.1		
1950 1951 1951 1952 1953 1954 1955 1956 1957 1958 1958	88.4 95.1 96.4 95.7 93.3 91.5 91.5	83.4 87.4 94.9 95.8 94.3 90.9 93.5 98.4 101.5 105.9	89. 2 75. 9 71. 8 69. 1 77. 4 80. 2 89. 5	100. 2 109. 8 106. 9 105. 7 102. 9 100. 1 99. 7 101. 4 102. 1 102. 0	76. 2 82. 0 82. 4 83. 1 83. 5 83. 5 85. 3 87. 6 88. 2 89. 3	81.1 88.7 87.7 86.3 85.8 87.3 88.2 88.2 88.2 89.0	72.9 77.5 79.0 81.0 81.8 82.1 84.1 87.4 88.3 89.6	56.0 59.3	71. 2 75. 4 79. 4 81. 6	53.3 58.3 62.4 66.4 69.2 69.4 70.5 73.8 78.5 81.2	49. 2 51. 7 55. 0 57. 0 58. 7 60. 4 62. 8 65. 5 68. 7 72. 0	 	
1960 1961 1962 1963 1964 1965 1966 1967 1968 1968	96.7 96.6 97.6 97.9 98.8 98.4 98.5 100.0	104.5 104.5 104.1 103.5 103.2 100.9 99.1 100.0 102.8 104.4	83.6 86.9 94.8 96.0 100.1 99.4 97.0 100.0 (³) 103.1	101. 9 100. 7 100. 6 100. 3 100. 2 98. 7 98. 6 100. 0 103. 3 107. 4	90.7 91.2 91.8 92.7 93.5 94.8 97.0 100.0 104.1 108.8	90.3 90.8 91.2 92.0 92.8 93.6 96.0 100.0 105.6 111.9	90. 9 91. 3 92. 1 93. 1 93. 9 95. 5 97. 5 100. 0 103. 3 107. 0	81.9 83.9 85.5 87.3 89.2 91.5 95.3 100.0 105.7 113.8	85.0 86.0 87.1 89.0 90.4 92.1 95.7 100.0 105.9 115.3	83. 3 85. 3 86. 6 87. 5 89. 6 92. 9 96. 8 100. 0 104. 0 111. 3	74.9 77.7 80.2 82.6 84.6 87.3 92.0 100.0 107.3 116.0	80, 8 83, 4 85, 6 87, 7 90, 1 92, 6 96, 2 100, 0 105, 6 110, 6	
1970 1971 1972 1973 1974 1975 1976 1977	163, 2	107.6 112.0 111.0 111.1 117.5 127.6 135.7 142.9	104.3 110.2 110.5 117.6 122.6 146.4 167.9 182.8	110.2 112.9 115.0 118.8 128.9 140.3 146.0 151.5	113.1 117.0 119.8 124.8 140.9 151.7 158.3 166.5	116.5 120.1 122.7 127.1 136.1 141.2 145.8 151.6	111.2 115.2 118.2 123.4 143.8 157.9 165.7 175.3	123.7 130.8 135.9 141.8 156.0 171.9 186.8 201.6	126.8 132.6 139.2 146.8 166.0 184.7 198.4 213.8	123.1 133.0 136.0 136.9 141.9 152.7 174.3 188.4	124. 2 133. 3 138. 2 144. 3 159. 1 179. 1 197. 1 216. 7	116.7 122.5 125.8 131.6 141.6 152.1 161.1 171.1	
1976: Jan Feb Mar Apr June June July Aug Oct Nov	149.3 150.4 151.9 153.5 154.7 155.8 156.4 156.9	134. 2 134. 3 134. 5 134. 4 134. 5 134. 5 134. 5 134. 4 134. 4 134. 2 139. 1 139. 7	144. 6 144. 9 150. 9 159. 4 167. 8 173. 4 177. 5 179. 6 180. 1 179. 9 179. 0	143. 3 144. 0 144. 8 145. 5 145. 8 146. 1 146. 5 146. 3 146. 7 147. 2 147. 8	154. 7 155. 2 155. 5 156. 0 157. 0 157. 9 158. 1 159. 1 160. 4 161. 0 161. 9	141. 5 142. 2 143. 1 143. 9 145. 1 145. 0 144. 4 146. 2 148. 5 149. 2 150. 1	162. 6 162. 9 162. 8 163. 2 164. 2 165. 6 166. 3 166. 8 167. 4 168. 1 169. 0	181.0 182.2 183.4 184.0 184.7 185.8 187.2 188.4 189.8 190.8 191.8	193. 7 194. 4 195. 1 195. 4 196. 1 197. 3 198. 7 200. 1 201. 5 202. 3 202. 6	167.0 168.9 171.1 171.7 172.3 173.2 174.7 175.5 177.3 178.9 180.2	188. 0 190. 4 192. 5 193. 5 194. 6 195. 8 197. 9 199. 4 200. 6 201. 7 204. 5	156. 6 157. 4 158. 4 159. 1 159. 7 160. 5 161. 2 162. 0 163. 6 164. 3 165. 2	
Dec 1977: Jan Feb Mar Apr May June July	158. 4 158. 9 159. 7 160. 8 162. 2 163. 4 163. 9 164. 3	140. 4 141. 1 140. 7 140. 9 140. 6 141. 4 141. 7 141. 6	173.0 178.0 177.7 179.1 182.7 187.8 191.4 192.2 190.6	147.8 148.2 148.4 148.8 149.7 150.7 151.2 151.6 151.8	161. 9 162. 3 161. 9 163. 1 163. 9 164. 7 165. 7 166. 6 166. 6	149.9 147.6 148.5 149.3 149.8 150.9 151.3 150.6	169.7 169.7 170.5 171.8 172.6 173.5 174.5 175.6 176.1	191. 8 192. 6 194. 3 195. 6 197. 0 198. 4 199. 4 201. 1 202. 8	203.5 205.7 206.8 208.4 209.7 210.8 212.9 215.4	180. 8 182. 9 183. 3 184. 8 186. 7 187. 4 188. 7 189. 4	205.7 207.6 209.4 211.5 213.1 214.6 216.0 217.9	165.7 166.7 167.5 168.1 168.9 169.6 170.5 171.2	
Aug Sept Oct Nov Dec	164.3 164.5 165.0	141.6 141.1 145.7 148.2 150.5	136. 4 186. 4 182. 5 178. 0 175. 0 170. 7	151. 8 152. 3 152. 8 153. 2 153. 7 154. 2	167.3 168.4 169.2 170.1 170.3	152, 1 153, 5 154, 6 155, 9 155, 3	176.3 177.2 177.9 178.6 179.3	203. 8 205. 3 206. 2 207. 2 208. 2	216.6 218.1 219.2 220.4 221.4	190.0 191.0 191.3 192.0 192.9	219.6 221.1 222.0 223 0 224.2	171.8 173.6 174.3 175.3 176.0	

¹ Also includes the "other durables" group.
 ² Includes the services components of apparel, personal care, reading and recreation, and other goods and services.
 ³ Not available.

TABLE B-52.—Consumer price indexes for commodity groups, seasonally adjusted, 1974-77

For urban wage earners and clerical workers

[1967 = 100, seasonally adjusted]

			Commodities less food									
Year and	· All com-			Du	rable com	modities	·	r	londurabl	es less food	ł	
month mod- ities	Food	Total	Total 1	House- hold dur- ables	New cars	Used cars	Total 1	Apparel com- mod- ities	Gaso- line and motor oil	Fuel oil and coal		
1974: Jan	137, 4	154. 0	128, 5	123. 7	122, 1	111.7	111. 0	131. 9	130. 1	140, 6	191. 1	
Feb	139, 5	157. 3	129, 9	124. 2	123, 0	112.0	109. 4	133. 9	131. 4	148, 0	197. 6	
Mar	141, 1	158. 8	131, 6	125. 1	124, 0	112.5	108. 1	136. 2	132. 5	157, 9	198. 6	
Apr	141, 8	158. 6	132, 8	126. 1	125, 1	113.1	110. 6	137. 6	133. 7	160, 2	204. 8	
May	143, 4	160. 1	134, 4	127. 5	126, 3	114.7	114. 7	139. 3	134. 7	163, 3	210. 6	
June	144, 5	160. 3	136, 0	129. 4	128, 0	116.6	119. 7	140. 8	135. 7	163, 8	215. 3	
July_	145. 2	159.8	137.4	130. 9	129. 3	118, 5	123. 4	142. 1	136. 3	163. 8	221.0	
Aug	147. 3	162.1	139.2	132. 7	131. 3	119, 3	127. 3	143. 9	139. 0	163. 1	225.2	
Sept	149. 1	165.1	140.5	134. 4	132. 7	120, 9	130. 6	144. 9	139. 0	162. 8	227.4	
Oct	150. 4	166.6	141.6	135. 9	133. 8	123, 0	134. 2	145. 7	139. 4	161. 1	228.9	
Nov	151. 8	168.4	142.8	137. 4	135. 2	123, 6	138. 2	146. 6	140. 2	160. 6	228.9	
Dec	152. 9	170.0	143.7	138. 7	136. 1	123, 9	138. 7	147. 3	140. 1	160. 9	228.7	
1975: Jan	153. 9	171. 1	144. 7	140. 0	137.3	122.3	140. 5	148, 0	140. 4	161. 1	224, 8	
Feb	154. 7	171. 2	145. 8	141. 6	138.0	123.9	142. 5	148, 8	140. 6	161. 3	224, 5	
Mar	155. 2	171. 0	146. 7	143. 3	138.7	127.0	143. 7	149, 1	140. 5	161. 2	225, 4	
Apr	155. 8	171. 3	147. 5	144. 3	139.4	127.3	143. 3	149, 8	140. 5	162. 2	227, 5	
May	156. 6	172. 5	148. 0	144. 9	139.9	127.0	142. 9	150, 3	140. 6	164. 4	230, 2	
June	157. 8	174. 6	148. 6	145. 5	140.1	127.3	144. 6	150, 9	140. 5	167. 4	232, 2	
July	159.6	177. 8	149.8	146. 2	140. 4	127. 2	147.5	152.3	141. 3	173. 2	236. 9	
Aug	160.0	177. 5	150.5	146. 9	140. 8	128. 1	150.0	153.2	142. 1	174. 8	240. 3	
Sept	160.4	177. 9	151.0	147. 6	141. 4	129. 1	149.9	153.4	141. 4	176. 4	243. 7	
Oct	161.3	179. 5	151.6	147. 9	142. 0	129. 1	150.3	154.2	141. 8	178. 3	246. 7	
Nov	161.9	180. 3	152.0	148. 5	142. 6	130. 2	150.0	154.5	142. 2	178. 4	245. 7	
Dec	162.5	181. 0	152.6	149. 2	143. 1	132. 8	149.9	155.0	142. 5	178. 1	245. 9	
1976: Jan	163. 0	181, 1	153, 2	149. 9	143. 8	133. 1	150. 9	155.6	143. 4	176.5	244. 3	
Feb	162. 7	179, 5	153, 7	150. 7	144. 7	133. 8	155. 0	155.8	143. 7	174.5	243. 8	
Mar	162. 6	178, 5	154, 1	151. 8	145. 2	134. 3	160. 6	155.7	143. 7	171.7	244. 7	
Apr	163. 3	179, 4	154, 6	152. 7	145. 5	134. 2	165. 7	156.0	144. 2	170.4	245. 3	
May	164. 4	180, 8	155, 6	153. 7	145. 7	134. 8	168. 8	156.9	144. 9	172.2	246. 5	
June	165. 0	181, 2	156, 2	154. 2	145. 9	134. 8	170. 0	157.6	145. 3	174.7	249. 3	
July	165. 5	181. 4	156. 9	155. 0	146. 3	135. 1	170. 7	158.4	145.9	175. 8	251. 2	
Aug	166. 2	181. 8	157. 8	155. 6	146. 2	135. 9	172. 3	159.3	147.2	177. 5	254. 2	
Sept	166. 6	181. 9	158. 3	156. 1	146. 4	136. 9	172. 1	159.9	147.5	179. 0	256. 0	
Oct	167. 1	182. 2	159. 0	156. 6	146. 9	138. 2	172. 6	160.6	147.5	181. 7	256. 5	
Nov	167. 4	181. 7	159. 6	157. 3	147. 5	138. 6	174. 8	161.3	147.8	183. 0	257. 0	
Dec	168. 0	181. 9	160. 5	158. 4	148. 4	139. 2	178. 7	162.0	148.5	183. 1	261. 4	
1977: Jan	169. 4	183.5	161. 6	159. 9	148. 8	140. 0	185.5	162. 8	149. 4	181. 8	266. 6	
Feb	171. 4	187.1	162. 7	161. 4	149. 5	140. 1	191.6	163. 7	150. 0	183. 5	272. 0	
Mar	172. 2	188.2	163. 4	162. 4	150. 2	140. 6	194.4	164. 2	149. 9	184. 3	278. 1	
Apr	173. 6	191.0	164. 0	163. 2	150. 7	140. 5	195.2	164. 7	150. 1	185. 4	280. 6	
May	174. 5	192.4	164. 7	163. 5	151. 0	141. 7	192.6	165. 6	150. 7	186. 9	282. 9	
June	175. 3	193.9	165. 1	163. 4	151. 4	142. 0	188.4	166. 3	151. 6	186. 2	285. 4	
July	175.5	194. 0	165. 3	163. 4	151.6	142. 3	183. 3	166. 8	152, 1	185.7	287. 1	
Aug	176.0	194. 5	165. 8	163. 5	152.1	143. 2	178. 9	167. 5	153, 1	186.1	289. 6	
Sept	176.3	194. 7	166. 2	163. 8	152.5	144. 0	174. 5	168. 0	152, 5	187.2	290. 9	
Oct	176.7	194. 9	166. 7	163. 8	152.9	144. 8	170. 8	168. 8	152, 8	189.8	291. 0	
Nov	177.6	196. 1	167. 5	164. 8	153.4	147. 0	170. 9	169. 5	153, 5	191.3	288. 7	
Dec	178.3	196. 5	168. 3	165. 9	154.4	149. 2	171. 4	170. 1	153, 8	192.0	288. 4	

¹ Includes certain groups not shown separately.

TABLE B-53.—Consumer price indexes for service groups and selected expenditure classes, seasonally adjusted, 1974-77

For urban wage earners and clerical workers [1967=100, seasonally adjusted]

			S	ervices			Sele	cted expen	diture class	ses
Year				Services	less rent			House- hold		
and month se	All services	Rent	Total 1	House- hold services less rent	Trans- porta- tion services	Medical care services	Fuel and utili- ties	furnish- ings and opera- tion	Apparel and upkeep	Tra ns- porta- tion
1974: Jan	144. 6	127.6	147. 6	155. 2	138, 2	149. 9	140. 2	129. 3	130. 0	128.7
Feb	145. 6	128.1	148. 8	156. 8	138, 6	151. 0	142. 2	130. 6	131. 3	130.3
Mar	146. 9	128.5	150. 2	158. 8	139, 2	152. 4	143. 9	132. 7	132. 6	132.8
Apr	148. 0	129.1	151. 4	160. 5	139, 7	153. 5	146. 0	133. 9	133. 7	134.3
May	149. 7	129.6	153. 3	162. 7	140, 6	155. 5	148. 2	136. 8	134. 7	136.2
June	151. 2	130.2	155. 0	164. 7	141, 6	158. 0	149. 5	139. 0	135. 8	137.9
July	152, 9	130. 7	156. 8	167. 1	142. 6	160. 0	151, 5	141, 4	136.5	139. 4
Aug	154, 5	131. 3	158. 6	169. 4	143. 2	162. 4	153, 6	144, 0	138.8	140. 4
Sept	155, 9	131. 9	160. 1	171. 4	143. 8	164. 1	155, 1	146, 3	139.2	141. 9
Oct	157, 2	132. 5	161. 6	173. 4	144. 3	165. 6	156, 4	148, 7	139.7	142. 3
Nov	158, 4	133. 2	162. 9	174. 9	145. 0	167. 3	157, 5	150, 7	140.5	143. 1
Dec	159, 7	133. 6	164. 3	176. 6	145. 8	168. 9	158, 2	152, 2	140.7	143. 8
1975: Jan	161. 1	134. 5	165. 8	178, 4	145. 9	171.1	159.9	153. 7	140.9	144. 2
Feb	162. 3	134. 9	167. 2	180, 1	146. 8	172.9	160.8	155. 4	141.3	144. 9
Mar	163. 1	135. 4	168. 1	180, 8	147. 9	174.4	161.9	155. 8	141.4	145. 9
Apr	164. 2	135. 8	169. 3	182, 3	149. 1	175.9	163.7	156. 7	141.5	147. 0
May	164. 9	136. 4	170. 0	182, 9	149. 7	177.2	165.1	157. 2	141.6	147. 4
June	166. 1	136. 9	171. 3	184, 7	150. 6	178.5	167.0	157. 9	141.6	148. 9
July	167. 0	137.5	172, 2	185.5	151, 5	180. 1	168.7	158.4	142, 4	151.2
Aug	167. 7	138.1	173, 0	186.1	152, 5	181. 2	170.0	159.0	142, 9	152.5
Sept	169. 0	138.5	174, 4	186.9	156, 5	182. 8	172.0	159.8	142, 8	154.9
Oct	170. 0	139.3	175, 4	187.7	157, 3	184. 7	173.3	160.5	143, 1	155.4
Nov	171. 6	139.9	177, 3	189.9	161, 7	184. 5	174.8	161.2	143, 5	157.0
Dec	172. 7	140.5	178, 4	191.0	162, 9	186. 3	175.8	161.9	143, 9	158.0
1976: Jan	174.6	141. 2	180. 6	193, 1	166. 3	188.4	175.6	164. 2	144. 9	159, 3
Feb	175.8	141. 8	181. 9	194, 1	168. 4	190.4	176.4	165. 9	145. 2	160, 1
Mar	177.1	142. 6	183. 2	195, 1	170. 6	192.1	177.8	166. 8	145. 6	161, 1
Apr	177.9	143. 1	184. 1	196, 0	171. 2	193.5	178.4	167. 3	146. 0	162, 2
May	178.9	143. 8	185. 1	196, 9	172. 5	194.9	179.8	167. 7	146. 6	163, 6
June	179.9	144. 5	186. 2	198, 2	173. 5	195.9	181.9	168. 3	147. 1	164, 8
July	181. 1	145. 2	187.5	199.5	175. 2	197.6	183. 3	169.0	147.8	166.0
Aug	182. 2	145. 7	188.7	200.7	176. 3	198.9	184. 9	169.3	148.7	167.3
Sept	183. 2	146. 4	189.7	201.5	177. 8	200.1	186. 3	169.9	149.4	168.9
Oct	184. 0	147. 0	190.6	201.8	179. 2	201.9	187. 9	170.6	149.9	170.2
Nov	184. 8	147. 6	191.4	201.8	180. 2	204.9	188. 7	171.4	149.9	171.0
Dec	185. 5	148. 3	192.2	202.5	180. 6	206.4	191. 8	172.2	150.6	171.9
1977: Jan	187.0	149.5	193. 9	205. 1	182. 2	208. 0	194. 0	173. 1	151. 7	173.6
Feb	188.4	149.9	195. 4	206. 4	182. 8	209. 4	194. 6	174. 3	152. 0	174.9
Mar	189.9	150.6	196. 8	208. 4	184. 2	211. 1	197. 3	174. 8	152. 3	176.1
Apr	191.4	151.6	198. 6	210. 3	186. 1	213. 1	198. 4	175. 4	152. 6	177.8
May	192.6	152.2	199. 8	211. 6	187. 6	215. 0	199. 8	175. 7	153. 2	178.3
June	194.2	152.9	201. 6	213. 8	189. 1	216. 2	202. 0	176. 9	154. 2	178.0
July	195. 7	153.8	203. 3	216. 3	190. 0	217.7	204. 3	177.6	154.8	177, 4
Aug	196. 7	154.6	204. 2	217. 3	191. 0	218.9	205. 9	178.3	155.4	177, 6
Sept	197. 7	155.5	205. 3	218. 1	191. 6	220.7	206. 9	178.5	155.4	177, 7
Oct	198. 4	156.1	206. 1	218. 8	191. 7	222.2	208. 3	179.1	155.6	177, 9
Nov	199. 2	157.2	206. 8	219. 5	192. 0	223.4	208. 0	179.7	156.3	178, 3
Dec	200. 1	157.9	207. 7	220. 3	192. 7	224.9	207. 4	180.9	156.9	179, 3

¹ Also includes the "other services" group.

Year or month	All	items	Fo	bod	Commoo fc	lities l ess od	Services		
	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	
1948 1949	2.7 —1.8	7.8 -1.0	-0.8 -3.7	8.5 4.0	5.3 4.8	7.7 -1.5	6. 1 3. 6	6. 3 4. 8	
1950 1951 1952 1953 1953 1954	5.8 5.9 .9 .6 5	1.0 7.9 2.2 .8 .5	9.6 7.4 -1.1 -1.3 -1.6	1.4 11.1 1.8 -1.5 2	5.7 4.6 5 .2 -1.4	1 7.5 .9 .2 -1.1	3.6 5.2 4.6 4.2 1.9	3.2 5.3 4.4 4.3 3.3	
1955 1956 1957 1957 1958 1959	.4 2.9 3.0 1.8 1.5	4 1.5 3.6 2.7 .8	9 3.1 2.8 2.2 8	-1.4 .7 3.3 4.2 -1.6	0 2.5 2.2 .8 1.5	7 1.0 3.1 1.1 1.3	2.3 3.1 4.5 2.7 3.7	2.0 2.5 4.0 3.8 2.5	
960 1961 1962 1963 1964	1.5 .7 1.2 1.6 1.2	1.6 1.0 1.1 1.2 1.3	3.1 9 1.5 1.9 1.4	1.0 1.3 .9 1.4 1.3	3 .6 .7 1.2 .4	.4 .3 .7 .7 .8	2.7 1.9 1.7 2.3 1.8	3.3 2.0 1.9 2.0 1.9	
965 966 967 968 968	1.9 3.4 3.0 4.7 6.1	1.7 2.9 2.9 4.2 5.4	3.4 3.9 1.2 4.3 7.2	2.2 5.0 .9 3.6 5.1	.7 1.9 3.1 3.7 4.5	.6 1.4 2.6 3.7 4.2	2.6 4.9 4.0 6.1 7.4	2.2 3.9 4.4 5.2 6.9	
970 971 972 973 974	5.5 3.4 3.4 8.8 12.2	5.9 4.3 3.3 6.2 11.0	2. 2 4. 3 4. 7 20. 1 12. 2	5.5 3.0 4.3 14.5 14.4	4.8 2.3 2.5 5.0 13.2	4. 1 3. 8 2. 2 3. 4 10. 6	8.2 4.1 3.6 6.2 11.3	8.1 5.6 3.8 4.4 9.3	
975 976 977	7.0 4.8 6.8	9.1 5.8 6.5	6.5 .6 8.0	8.5 3.1 6.3	6.2 5.1 4.9	9.2 5.0 5.4	8.1 7.3 7.9	9.1 8. 7.7	
			Cha	ange from pr	<u> </u>	I			
	Un- adjusted	Seasonally adjusted	Un- adjusted	Seasonally adjusted	Un- adjusted	Seasonally adjusted	Un- adjusted	Seasonally adjusted	
976: Jan Feb Mar Apr May June	0.2 .2 .4 .5	0.6 .1 .2 .4 .7 .4	0.1 4 7 .3 .4 .5	0.1 9 6 .5 .8 .2	0.3 .3 .4 .6 .8 .6	0.4 .3 .3 .6 .4	1.0 .7 .6 .3 .4 .6	1.1 .7 .7 .5 .6 .6	
July Aug Sept Oct Nov Dec	.6 .5 .4 .3 .3	.5 .5 .3 .3 .3 .4	.7 .2 4 0 3 .3	.1 .2 .1 .2 3 .1	.4 .6 .4 .4 .2	.4 .6 .3 .4 .4 .6	.7 .6 .8 .5 .5 .4	.7 .6 .5 .4 .4 .4	
977: Jan Feb Mar Apr May June	.6 1.0 .6 .8 .6 .7	.8 1.0 .6 .8 .6 .6	.9 2.3 .5 1.2 .4 1.0	.9 2.0 .6 1.5 .7 .8	.0 .6 .6 .7 .4	.7 .7 .4 .4 .4 .2	.9 .7 .6 .5 .8	. 8 . 7 . 8 . 8 . 6 . 8	
July Aug Sept Oct Nov Dec	.4 .4 .3 .5 .4	.4 .3 .3 .3 .5 .4	.5 .3 4 1 .6 .4	.1 .3 .1 .1 .6 .2	.1 .2 .4 .4 .4 .2	.1 .3 .2 .3 .5 .5	.8 .5 .7 .4 .5 .5	.5	

TABLE B-54.—Percent changes in consumer price indexes, major groups, 1948-77 [Percent change]

¹ Changes from December to December are based on unadjusted indexes.

TABLE B-55.-Wholesale price indexes by major commodity groups, 1929-77

[1967 = 100]

			ducts and p ods and fee		Industrial commodities					
Year or month	All com- modities	Total	Farm products	Proc- essed 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	
1929	49. 1		64.1		48.6		48.9	59.4		
1933	34.0		31, 4		37.8		36.3	47.6	47.4	
1939	39.8		40.0		43.3		42.8	52. 3	51.5	
1940 1941 1942	45.1 50.9		41. 4 50. 3 64. 8		44.0 47.3 50.7		45. 2 48. 4 52. 8	51. 4 54. 6 56. 2	52. 4 57. 0 63. 3	
1943 1944 1945	53.3 53.6 54.6		75.0 75.5 78.5		51. 5 52. 3 53. 0		52, 7 52, 2 52, 9	57.8 59.5 60.1	64. 1 64. 8 65. 2 70. 5	
1946 1947 1948 1949	62.3 76.5 82.8 78.7	94. 3 101. 5 89. 6	90.9 109.4 117.5 101.6	82. 9 88. 7 80. 6	58. 0 70. 8 76. 9 75. 3	103.6 108.1 98.9	61. 1 83. 3 84. 2 79, 9	64.4 76.9 90.5 86.2	70. 5 93. 7 95. 9 87. 6	
1950		93. 9 106. 9 102. 7 96. 0 95. 7 91. 2 90. 6 93. 7 98. 1 93. 5	106. 7 124. 2 117. 2 106. 2 104. 7 98. 2 96. 9 99. 5 103. 9 97. 5	83. 4 92. 7 91. 6 87. 4 88. 9 85. 0 84. 9 87. 4 91. 8 89. 4	78.0 86.1 84.8 85.0 86.9 90.8 93.3 93.6 95.3	102.7 114.6 103.4 100.8 98.6 98.7 98.7 98.7 98.8 97.0 98.4	86. 3 99. 1 80. 1 81. 3 77. 6 77. 3 81. 9 82. 0 82. 9 94. 2	87, 1 90, 3 90, 1 92, 6 91, 3 91, 2 94, 0 99, 1 95, 3 95, 3	88. 9 101. 7 96. 5 97. 7 98. 9 98. 5 99. 1 101. 2 102. 0 101. 6	
1960	94.9	93. 7 93. 7 94. 7 93. 8 93. 2 97. 1 103. 5 100. 0 102. 4 108. 0	97. 2 96. 3 98. 0 94. 6 98. 7 105. 9 100. 0 102. 5 109. 1	89.5 91.0 91.9 92.5 92.3 95.5 101.2 100.0 102.2 107.3	95. 3 94. 8 94. 8 94. 7 95. 2 96. 4 98. 5 100. 0 102. 5 106. 0	99.5 97.7 98.6 98.5 99.2 99.8 100.1 100.0 103.7 106.0	90. 8 91. 7 92. 7 90. 0 90. 3 94. 3 103. 4 100. 0 103. 2 108. 9	96. 1 97. 2 96. 7 96. 3 93. 7 95. 5 97. 8 100. 0 98. 9 100. 9	101. 8 100, 7 99. 1 97. 9 98. 3 99. 0 99. 4 100. 0 99. 8 99. 9	
1970 1971 1972 1973 1974 1975 1976 1977	114.0 119.1 134.7 160.1 174.9 183.0	111. 7 113. 9 122. 4 159. 1 177. 4 184. 2 183. 1 188. 8	111. 0 112. 9 125. 0 176. 3 187. 7 186. 7 191. 0 192. 5	112. 1 114. 5 120. 8 148. 1 170. 9 182. 6 178. 0 186. 1	110. 0 114. 1 117. 9 125. 9 153. 8 171. 5 182. 4 195. 1	107. 1 109. 0 113. 6 123. 8 139. 1 137. 9 148. 2 154. 0	110. 3 114. 1 131. 3 143. 1 145. 1 148. 5 167. 8 179. 5	106. 2 115. 2 118. 6 134. 3 208. 3 245. 1 265. 6 302. 2	102. 2 104. 1 104. 2 110. 0 146. 8 181. 3 187. 2 192. 7	
1976: Jan Feb Mar Apr May June	179.4	184. 6 181. 9 180. 0 183. 7 184. 8 187. 4	192.8 190.7 186.5 192.9 192.6 196.5	179. 4 176. 4 175. 8 178. 0 179. 9 181. 8	177. 4 178. 1 179. 0 180. 1 180. 5 181. 5	145. 6 146. 3 146. 8 147. 3 147. 3 148. 3	158. 2 160. 8 162. 9 166. 1 170. 1 168. 1	257. 2 255. 6 255. 8 257. 0 257. 2 260. 5	184, 5 185, 1 185, 8 187, 0 187, 1 187, 3	
July Aug Sept Oct Nov Dec	183.8 184.8 185.3	188. 1 181. 7 182. 9 179. 5 178. 3 183. 9	196. 9 189. 7 191. 9 186. 7 183. 6 191. 6	182. 6 176. 7 177. 2 174. 9 174. 8 179. 0	182. 7 183. 8 184. 8 186. 3 187. 1 187. 4	149. 0 149. 5 149. 0 149. 3 150. 1 149. 9	170. 3 171. 6 173. 6 170. 9 169. 8 171. 5	265. 3 269. 2 271. 2 277. 1 281. 6 279. 0	187. 1 188. 0 188. 6 188. 6 188. 2	
1977: Jan Feb Mar Apr May June	190.2 192.0 194.3	184. 8 188. 4 190. 9 195. 9 196. 8 191. 5	193. 5 199. 1 202. 5 208. 2 204. 3 192. 8	179.3 181.9 183.9 188.5 191.9 190.1	188. 4 190. 0 191. 7 193. 3 194. 2 194. 7	150, 8 151, 7 152, 4 153, 7 154, 0 154, 6	175. 3 176. 9 177. 9 179. 9 181. 9 179. 4	278. 8 289. 1 293. 7 298. 8 302. 4 304. 3	188. 9 190. 1 191. 2 192. 9 194. 0 193. 9	
July Aug Sept Oct Nov Dec	194.6 195.3 196.3 197.0	188. 7 184. 2 183. 9 184. 2 186. 8 189. 5	190. 2 181. 2 181. 9 182. 4 185. 5 188. 3	187. 2 185. 1 184. 2 184. 5 186. 7 189. 3	195. 9 196. 9 197. 8 199. 1 199. 2 200. 0	154. 5 154. 4 155. 1 155. 2 155. 3 155. 9	180, 0 180, 5 179, 9 179, 6 180, 3 181, 8	307.0 309.5 309.7 310.6 310.4 311.9	193. 6 193. 5 193. 2 193. 5 193. 8 193. 8 193. 9	

See next page for continuation of table and for footnotes.

TABLE B-55. Wholesale price indexes by major commodity groups, 1929-77. [1967=100]

				ndustrial c	ommodities	-Continue	d 		
Year or month	Rubber and plastic products	Lumber and wood products	Pulp, paper, and allied products	Metais and metai products	Machin- ery and equip- ment	Furni- ture and house- hold durables	Nonme- tallic mineral products	Trans- portation equip- ment: Motor vehicles and equip- ment ²	Miscel- laneous products
1929	59.4	25, 0		40. 2		55. 8	51. 2	41.9	
1933	40.2	19.0		30.7		44.6	47.2	34.8	
939	61. 2	24. 8		37.6	41.3	52.6	49.1	39.1	
940	57.1 61.5 71.6 73.6 72.7 70.5 70.8 70.5 72.8 70.5	27.4 32.7 35.6 37.7 40.6 41.2 47.2 73.4 84.0 77.7	72.5 75.7 72.4	37.8 38.5 39.1 39.0 39.0 39.6 44.3 54.9 62.5 63.0	41, 4 42, 1 42, 8 42, 4 42, 1 42, 2 46, 4 53, 7 58, 2 61, 0	53.8 57.2 61.8 63.4 63.1 63.2 67.1 77.0 81.6 82.9	49, 1 50, 2 52, 3 53, 5 55, 7 59, 3 66, 3 71, 6 73, 5	40. 4 43. 2 47. 2 47. 5 47. 5 48. 3 56. 0 64. 1 70. 8 75. 7	
950 951 952 953 954 955 955 955 955 957 957 958 958	85. 9 105. 4 95. 5 89. 1 90. 4 102. 4 103. 8 103. 4 103. 3 102. 9	89.3 97.2 94.4 94.3 97.1 98.5 93.5 93.5 92.4 98.8	74.3 88.0 85.7 85.5 87.8 93.6 95.4 95.4 95.4 95.3	66.3 73.8 76.3 76.9 82.1 89.2 91.0 90.4 92.3	63. 1 70. 5 70. 6 72. 2 73. 4 75. 7 81. 8 87. 6 89. 4 91. 3	84.7 91.8 90.1 91.9 92.9 93.3 95.8 98.3 99.1 99.3	75.4 80.1 83.3 85.1 87.5 91.3 94.8 95.8 97.0	75. 3 79. 4 84. 0 83. 6 85. 3 91. 2 95. 1 98. 1 100. 3	79. 2 83. 9 83. 4 85. 6 86. 5 87. 6 90. 2 92. 0 92. 2
960	103. 1 99. 2 96. 3 96. 8 95. 5 95. 9 97. 8 100. 0 100. 0 103. 4 105. 3	95.3 91.0 93.5 95.4 95.9 100.2 100.0 113.3 125.3	98. 1 95. 2 96. 3 95. 6 95. 4 96. 2 98. 8 100. 0 101. 1 104. 0	92.4 91.9 91.2 91.3 96.4 98.8 100.0 102.6 108.5	92.0 91.9 92.0 92.2 93.9 96.8 100.0 103.2 106.5	99.0 98.4 97.7 97.0 97.4 96.9 98.0 100.0 102.8 104.9	97. 2 97. 6 97. 6 97. 3 97. 3 97. 3 98. 4 100. 0 103. 7 107. 7	98, 8 98, 6 97, 8 98, 3 98, 3 98, 5 98, 6 100, 0 102, 8 104, 8	93. 0 93. 3 93. 7 94. 5 95. 2 95. 9 97. 7 100. 0 102. 2 105. 2
970 971 972 973 974 975 976 977	108.3 109.1 109.3 112.4 136.2 150.2 159.2 167.5	113.6 127.3 144.3 177.2 183.6 176.9 205.6 236.2	108. 2 110. 1 113. 4 122. 1 151. 7 170. 4 179. 4 186. 4	116.6 118.7 123.5 132.8 171.9 185.6 195.9 209.0	111. 4 115. 5 117. 9 121. 7 139. 4 161. 4 171. 0 181. 7	107.5 110.0 111.4 115.2 127.9 139.7 145.6 151.4	112. 9 122. 4 126. 1 130. 2 153. 2 174. 0 186. 3 200. 4	108.7 114.9 118.0 119.2 129.2 144.6 153.8 163.7	109.9 112.9 114.6 119.7 133.1 147.7 153.7 164.4
1976: Jan Feb Mar Apr May June	152. 3 154. 1 155. 5 156. 7 157. 1 157. 1	190. 7 196. 3 202. 5 203. 3 202. 4 199. 9	174.8 175.7 176.9 178.6 179.3 179.6	187. 8 189. 2 190. 7 193. 0 194. 2 196. 6	167. 1 167. 8 168. 4 169. 2 169. 6 170. 4	143. 3 143. 7 144. 0 144. 5 144. 9 145. 3	181. 2 181. 5 182. 7 185. 4 186. 0 186. 3	151. 3 151. 4 151. 6 151. 8 151. 6 151. 8	151. 9 152. 2 152. 6 152. 5 152. 7 154. 4
July Aug Sept Oct Nov Dec	161. 1 163. 9 164. 6	203. 7 207. 5 212. 8 213. 6 214. 3 220. 0	180, 5 181, 0 181, 6 181, 6 181, 5 181, 5 181, 8	198. 9 199. 5 200. 1 200. 0 200. 1 200. 9	171. 2 171. 6 172. 8 174. 0 174. 5 175. 4	145.7 146.1 146.7 147.2 147.5 147.9	187. 3 188. 0 188. 6 189. 4 189. 5 189. 6	151. 7 152. 8 153. 5 159. 0 159. 2 159. 5	153.8 153.5 153.9 154.1 156.1 157.0
1977: Jan Feb Mar Apr May June	164.2 164.6 165.7 166.3	222. 8 224. 4 229. 0 229. 8 229. 5 228. 8	182. 9 183. 0 183. 6 185. 3 186. 2 187. 3	202. 1 203. 2 206. 5 208. 2 208. 5 208. 5 207. 7	176. 7 177. 5 178. 2 178. 9 180. 0 180. 7	148. 8 149. 1 149. 6 150. 1 150. 6 151. 5	192. 4 193. 6 195. 1 198. 6 199. 3 200. 6	159. 2 159. 4 160. 7 161. 0 161. 4 161. 9	160. 2 160. 6 161. 0 162. 5 163. 1 163. 5
July Aug Sept Oct Nov Dec	169. 1 169. 4 170. 0 170. 0	235. 6 242. 7 252. 4 247. 3 243. 2 249. 1	187, 8 187, 8 188, 5 188, 8 188, 3 187, 6	210. 6 211. 7 212. 6 211. 8 212. 0 213. 3	181. 8 182. 8 183. 9 185. 7 186. 7 187. 3	151. 4 152. 4 152. 5 153. 0 153. 6 154. 0	201. 7 202. 4 204. 2 205. 3 205. 6 206. 5	161. 9 163. 1 163. 8 170. 8 170. 6 170. 9	163. 9 164. 2 166. 5 168. 4 168. 9 169. 6

¹ Prices for some items in this grouping are lagged and refer to 1 or 2 months earlier than the index month. ⁹ Index for total transportation equipment is not shown but is available beginning December 1968.

TABLE B-56.—Wholesale price indexes by stage of processing and by special groupings, 1947-77[1967=100]

		Crude m	naterials		Inte	rmediate	materia	ls, suppli	es, and c	omponer	its 1
	fo	r further	processi	ıg		M		and comp inufactur		or	Mate-
Year or month			Non-					Materials			rials and com-
	Total	Food- stuffs and feed- stuffs	food mate- rials except fuel	Fuel	Totai	Total	For food manu- factur- ing	For non- durable manu- factur- ing	For durable manu- factur- ing	Com- ponents	ponents for con- struc- tion
947 948 949	101.2 110.9 96.0	111.7 120.8 100.3	90.6 100.7 91.6	66.6 78.7 78.3	72.4 78.3 75.2	72.1 77.8 74.5	94.0 96.9 83.3	95.2 100.8 91.9	54.4 61.4 63.1	58.3 63.0 64.2	66.0 73.1 73.2
950 951 952 953 953 954	104.6 120.1 110.3 101.9 101.0	107.6 124.5 117.2 104.9 104.9	104.7 120.7 104.6 100.1 98.2	77.9 79.4 79.9 82.7 79.0	78.6 88.1 85.5 86.0 86.5	78. 1 88. 5 84. 8 86. 2 86. 3	86.7 96.6 92.9 93.0 92.2	96.5 111.7 100.6 99.8 98.2	66.7 74.1 74.3 77.6 79.3	66.6 75.6 75.7 77.1 77.5	77.0 84.3 83.7 85.1 85.5
1955 1956 1957 1958 1959	97.1 97.6 99.8 102.0 99.4	95. 1 93. 1 97. 2 103. 0 96. 2	103. 8 107. 6 106. 2 102. 2 105. 8	78.8 84.4 89.2 90.3 91.9	88.1 92.0 94.1 94.3 95.6	88.4 92.6 94.8 95.2 96.5	89.3 89.7 91.3 93.4 90.0	98.6 100.1 101.4 100.4 102.1	83.3 88.5 91.4 92.0 94.2	80.9 88.3 91.8 92.5 93.6	88.9 93.5 94.0 94.0 94.0 96.6
1960 1961 1962 1963 1964	97.0 96.5 97.5 95.4 94.5	95. 1 93. 8 95. 7 92. 9 90. 8	101. 4 102. 5 102. 0 100. 7 102. 4	92. 8 92. 6 92. 1 93. 2 92. 8	95.6 95.0 94.9 95.2 95.5	96.5 95.3 94.7 94.9 95.9	91.1 94.0 92.0 96.6 95.2	102.1 99.9 99.3 98.4 99.1	94.3 93.0 92.9 93.0 94.8	93.1 92.2 91.5 91.5 92.3	95.9 94.6 94.2 94.5 94.5
1965 1966 1967 1968 1968 1969	99.3 105.7 100.0 101.6 108.4	97.1 105.9 100.0 101.3 109.3	104.5 106.7 100.0 102.1 106.9	93.5 96.3 100.0 102.3 106.6	96. 8 99. 2 100. 0 102. 3 105. 8	97.4 99.3 100.0 102.2 105.8	97.6 101.9 100.0 101.5 107.1	100.0 100.8 100.0 101.3 102.4	96.8 98.6 100.0 103.3 109.1	93.8 97.1 100.0 102.3 105.5	96.2 98.8 100.0 104.9 110.8
1970 1971 1972 1973 1974	112. 3 115. 1 127. 6 174. 0 196. 1	112. 0 114. 2 127. 5 180. 0 189. 4	109.8 110.7 121.9 161.5 205.4	122.6 139.0 148.7 164.5 219.4	109.9 114.1 118.7 131.6 162.9	110.0 112.8 117.0 127.7 162.2	112.9 116.5 119.9 146.0 209.2	103. 8 105. 3 109. 4 121. 2 155. 2	114.7 118.2 123.8 133.7 171.7	111.1 114.8 117.6 121.4 139.9	112.6 119.7 126.2 136.7 161.6
1975 1976 1977	196. 9 205. 1 214. 3	191.8 190.1 190.9	188.3 210.2 217.3	271.5 314.7 400.5	180.0 189.3 201.7	178, 7 185, 6 195, 5	209.4 180.6 181.7	174.7 183.6 189.2	188.4 202.3 218.9	158.3 165.6 175.9	176, 4 188, 0 202, 9
1976: Jan Feb Mar Apr May June	199.3	193. 2 191. 3 187. 4 194. 5 194. 1 197. 8	198. 7 196. 3 200. 5 206. 9 208. 7 214. 3	279.3 278.5 286.1 291.5 293.4 301.7	183. 8 184. 6 185. 7 186. 9 187. 7 189. 1	180.7 181.6 182.5 183.6 184.4 185.3	186. 4 183. 0 183. 6 182. 9 183. 5 182. 2	180. 4 181. 3 181. 9 183. 2 183. 5 183. 7	192. 7 194. 7 196. 2 198. 1 199. 6 202. 3	161.7 162.2 162.6 163.2 163.8 164.4	181. 8 183. 0 184. 7 185. 5 186. 2 186. 6
July Aug Sept Oct Nov Dec	211 8	196. 3 188. 6 189. 0 182. 3 178. 8 187. 4	222.7 217.5 217.3 213.1 213.2 213.7	305. 9 315. 8 316. 0 356. 8 390. 4 361. 3	190. 6 191. 1 192. 6 192. 7 193. 1 194. 0	186. 8 187. 2 188. 2 188. 4 188. 7 189. 2	187.0 177.6 176.6 174.5 174.7 175.5	184. 5 184. 9 185. 4 184. 9 185. 2 185. 2 184. 8	204. 4 205. 7 207. 3 208. 4 208. 6 210. 0	165.0 166.9 168.3 169.3 169.7 170.3	188.3 190.0 191.7 192.6 192.6 193.6
1977: Jan. Feb. Mar. Apr. May. June.		189.7 194.0 197.1 203.7 201.8 192.0	214.1 220.8 228.0 232.7 227.6 219.0	342. 8 377. 8 383. 9 392. 3 404. 5 399. 4	195. 0 196. 6 198. 7 201. 2 202. 1 202. 1	189.7 190.8 192.7 194.6 195.8 195.5	174.5 178.5 182.0 189.0 191.1 185.6	184. 9 185. 8 187. 1 189. 3 190. 7 190. 8	211. 2 212. 4 215. 0 216. 6 217. 6 216. 8	172.9 173.4 174.2	195. 195. 197. 197. 200. 201.
July Aug Sept Oct Nov Dec	212.9 207.3 207.8	191. 2 181. 4 182. 0 182. 6 185. 4 189. 9	210. 6 210. 7 210. 4 209. 1 209. 6 215. 1	403. 2 412. 4 415. 6 416. 8 424. 5 432. 2	202. 6 203. 4 204. 2 204. 4 204. 8 205. 3	196. 6 197. 3 197. 8 197. 9 198. 2 198. 8	179. 9 179. 9 175. 8 177. 5 181. 1 185. 8	190. 8 190. 6 190. 2 190. 4 190. 2 190. 1	220. 9 222. 2 224. 1 223. 2 223. 0 224. 0	176. 1 177. 5 179. 0 179. 7 180. 4 180. 6	204. 1 206. 2 208. 2 208. 2 208. 2 209. 0

See next page for continuation of table and for footnotes.

TABLE B-56.—Wholesale trice indexes by stage of processing and by special groupings, 1947-77-Continued

[1967 = 100]

			Fir	nished g	oods				Special	grouping	5
			Consume	r finishe	d goods				actured ods		Inter- me- diate
Year or month	Total			Exc	luding f	oods	Pro- ducer fin-			Crude mate-	mate- rials, sup-
		Total	Foods	Total	Non- dur- able goods	Dur- able goods	ished goods	Total	Dur- able	rials ²	plies, and com- po- nents ³
1947	74.0	80. 5	82. 8	79.0	80.7	74.6	55, 4	72. 3	59.4	79, 2	70. 0
1948	79.9	86. 5	90. 4	84.0	85.8	79.7	60, 4	78. 2	65.4	92, 5	76. 1
1949	77.6	82. 5	83. 1	82.2	82.3	81.8	63, 4	75. 5	67.3	84, 0	74. 2
1950	79. 0	83.9	84.7	83. 5	83.6	82.7	64.9	78.4	69.6	93, 6	77.7
1951	86. 5	91.8	95.2	89. 5	90.0	88.2	71.2	87.0	76.3	102, 9	87.0
1952	86. 0	90.7	94.3	88. 3	87.8	88.9	72.4	85.1	76.7	93, 1	84.3
1953	85. 1	89.2	89.4	89. 1	88.6	89.6	73.6	85.0	78.4	92, 4	85.3
1954	85. 3	89.1	88.7	89. 4	88.9	90.3	74.5	85.7	79.4	88, 0	85.7
955	85, 5	88.5	86. 5	90, 1	89.4	91, 2	76, 7	86.6	82. 2	96, 6	88, 3
956	87, 9	89.8	86. 3	92, 3	91.1	94, 3	82, 4	90.0	87. 5	102, 3	92, 6
957	91, 1	92.4	89. 3	94, 6	93.2	97, 1	87, 5	92.8	90. 9	100, 9	95, 0
958	93, 2	94.4	94. 5	94, 7	92.6	98, 4	89, 8	93.8	92. 2	96, 9	94, 8
959	93, 0	93.6	90. 1	95, 9	94.0	99, 6	91, 5	94.6	94. 0	102, 3	96, 4
960	93.7	94. 5	92. 1	96. 3	94.7	99, 2	91. 7	94. 8	94, 1	98.3	96, 8
961	93.7	94. 3	91. 7	96. 2	94.7	98, 8	91. 8	94. 4	93, 6	97.2	95, 5
962	94.0	94. 6	92. 5	96. 0	94.8	98, 3	92. 2	94. 5	93, 5	95.6	95, 3
963	93.7	94. 1	91. 4	96. 0	95.1	97, 8	92. 4	94. 3	93, 5	94.3	95, 0
964	94.1	94. 3	91. 9	95. 9	94.8	98, 2	93. 3	94. 8	94, 6	97.1	95, 6
965	95, 7	96. 1	95.4	96, 6	95.9	97.9	94. 4	96, 3	95.8	100. 9	96. 9
966	98, 8	99. 4	101.6	98, 1	97.8	98.5	96. 8	99, 1	97.9	104. 5	98. 9
967	100, 0	100. 0	100.0	100, 0	100.0	100.0	100. 0	100, 0	100.0	100. 0	100. 0
968	102, 9	102. 7	103.7	102, 1	102.2	102.2	103. 5	102, 6	103.5	102. 0	102. 6
969	106, 6	106. 6	110.0	104, 6	105.0	104.0	106. 9	106, 3	107.7	110. 6	106. 1
970	110.3	109.9	113, 5	107.7	108.3	106, 9	112.0	110, 2	112.0	118, 9	109, 9
971	113.7	112.9	115, 3	111.4	111.7	110, 8	116.6	113, 9	117.0	123, 1	114, 3
972	117.2	116.6	121, 7	113.4	113.6	113, 2	119.5	117, 9	121.1	131, 1	118, 9
973	127.9	129.2	146, 4	118.5	120.5	115, 8	123.5	129, 2	127.4	155, 2	128, 1
974	147.5	149.3	166, 9	138.6	146.8	126, 3	141.0	154, 1	148.6	219, 1	159, 5
975	163. 4	163.6	181. 0	153. 1	163.0	138, 2	162.5	171, 1	165.6	225. 1	178,6
976	170. 3	169.0	180. 2	161. 8	173.3	144, 4	173.2	179, 0	175.6	249. 9	189,5
977	180. 6	178.9	189. 1	172. 1	185.4	152, 1	184.5	190, 1	188.0	280. 4	202,4
976: Jan	168. 8	168. 4	183.7	159. 1	169.8	143. 0	169.5	175.4	170.7	233.8	183. 8
Feb	168. 2	167. 4	180.2	159. 4	170.1	143. 1	170.0	175.6	171.5	231.7	184. 9
Apr	168. 0	166. 8	178.6	159. 3	169.9	143. 1	170.6	176.0	172.4	237.9	186. 1
Apr	169. 0	168. 0	182.0	159. 3	170.1	143. 0	171.3	177.1	173.2	245.8	187. 3
May	169. 4	168. 5	183.2	159. 4	170.3	143. 0	171.4	177.7	173.8	246.2	188. 0
June	169. 9	168. 9	182.1	160. 7	172.0	143. 6	172.1	178.9	174.8	248.6	188. 8
July	170. 5	169.6	182. 2	161.6	173.6	143.6	172.6	179.8	175.7	254.2	190. 1
Aug	170. 0	168.7	177. 8	162.5	175.1	143.6	173.1	179.8	176.6	254.9	191. 4
Sept	170. 7	169.3	178. 1	163.2	176.0	144.2	174.0	180.9	177.8	252.9	192. 8
Oct	172. 2	170.0	177. 0	164.9	176.7	147.2	177.2	181.5	179.7	261.4	193. 2
Nov	172. 3	170.1	176. 0	165.6	177.6	147.5	177.6	181.9	180.0	269.6	193. 6
Dec	174. 0	172.0	180. 9	166.0	178.0	147.8	178.7	183.2	181.0	262.3	194. 2
977: Jan	175. 1	173. 2	181.5	167. 4	179.6	149.0	179.6	184, 2	182.1	259. 4	195. 3
Feb	176. 6	175. 0	185.0	168. 3	181.0	149.3	180.2	185, 4	182.9	273. 7	196. 7
Mar	177. 5	176. 1	186.6	169. 2	182.3	149.7	180.7	186, 9	184.3	279. 6	198. 7
Apr	178. 8	177. 5	188.5	170. 4	183.6	150.6	181.6	188, 9	185.4	283. 1	200. 7
May	180. 3	179. 4	192.3	171. 1	184.8	150.8	182.4	190, 2	186.2	284. 5	201. 6
June	180. 5	179. 4	190.7	172. 0	185.9	151.4	183.1	190, 4	186.7	279. 5	202. 2
July.	181. 3	180. 2	192. 1	172.5	186. 6	151. 5	183. 8	190. 9	188.3	279. 1	203. 8
Aug.	181. 3	179. 7	190. 0	172.9	186. 8	152. 1	184. 7	191. 1	189.5	283. 4	204. 9
Sept	181. 8	180. 2	189. 7	173.7	188. 2	152. 1	185. 6	191. 9	190.9	283. 7	206. 0
Oct	183. 9	181. 4	189. 8	175.5	188. 4	156. 1	189. 9	193. 1	192.8	282. 3	206. 2
Nov	184. 5	181. 8	190. 4	175.8	188. 7	156. 3	190. 8	193. 7	193.2	284. 6	206. 0
Dec	185. 5	182. 9	192. 9	176.2	189. 1	156. 8	191. 5	194. 5	194.0	292. 4	206. 5

Includes, in addition to subgroups shown, processed fuels and lubricants, containers, and supplies.
 Excludes crude foodstuffs and feedstuffs, plant and animal fibers, oilseeds, and leaf tobacco.
 Excludes intermediate materials for food manufacturing and manufactured animal feeds.

TABLE B-57Wholesale price	indexes for	selected groupings,	seasonally adjusted,	1974– 77
	[1967 = 100, sea	asonally adjusted)		

	proc	product cessed f and feed	oods			Finish	ed good	5		Man tured	ufac- goods		
Year and month		Farm	Proc- essed	C	onsume		ed good Juding f					Crude mate- rials 1	Inter- mediate mate- rials, supplies,
	Total	prod- ucts	foods and feeds	Total	Foods	Total	Non- dur- able goods	Dur- able goods	Producer finished goods	Total	Dur- able	11013 -	and compo- nents ²
974: Jan Feb Mar Apr May June	177. 2 179. 8 176. 8 170. 9 168. 3 161. 5	204.1	161. 2 164. 4 164. 0 160. 4 160. 2 157. 6	139. 3 142. 3 143. 4 145. 0 146. 5 145. 9	164.0	125. 9 128. 3 130. 9 133. 5 136. 0 138. 5	134.0 137.8 141.2 144.2	118.9 119.7 120.7 121.9 123.8 125.3	127.9 129.2 130.9 132.5 136.1 138.9	138.5 141.0 143.7 146.3 149.3 151.5	133.9 135.3 137.9 141.0 145.2 148.0	190. 3 201. 5 211. 1 221. 7 214. 1 215. 8	138. 6 141. 2 145. 9 150. 9 155. 3 159. 0
July Aug Sept Oct Nov Dec	170.9 182.2 177.7 185.7 190.6	179. 1 188. 0 180. 6 189. 2 191. 1 183. 9	165. 8 178. 6 175. 8 183. 5 190. 2 187. 9	149. 5 152. 0 153. 3 155. 9 158. 9 158. 6	168.4	140. 8 142. 7 144. 3 146. 6 147. 2 148. 1	150. 0 152. 4 154. 0 155. 7 156. 7 157. 2	127. 1 128. 2 129. 6 132. 6 133. 3 134. 6	141. 8 145. 4 148. 3 151. 4 153. 7 155. 0	155.8 161.0 161.9 165.0 166.5 167.2	151, 2 154, 3 156, 6 158, 4 159, 9 160, 9	228. 0 229. 3 230. 2 230. 4 230. 3 224. 3	163. 168. 170. 172. 173. 174.
975: Jan Feb Mar Apr May June	183.1 178.8 175.6 180.3 182.4 181.6	179. 3 173. 4 171. 2 179. 1 185. 3 184. 6	178.4	159. 3 158. 7 158. 3 160. 3 161. 9 163. 3	175.6 174.0 171.9 176.4 179.6 182.2	149.5 149.7 150.2 150.7 151.1 151.8	158. 8 158. 8 159. 1 159. 7 160. 4 161. 3	135.2 135.9 136.6 137.0 137.1 137.6	157.0 158.3 159.8 160.8 161.4 161.9	168. 2 168. 3 168. 3 169. 2 169. 7 170. 1	162 3	222. 0 220. 1 217. 9 220. 0 223. 7 224. 7	176. 176. 176. 177. 177. 177.
July Aug Sept Oct Nov Dec	185.7 188.0 188.8	1199 2	182. 3 185. 3 184. 9 186. 4 183. 8 180. 9	164. 6 165. 3 166, 7 168. 0 168. 0 168. 2	184. 2 184. 0 185. 9 186. 9 185. 6 184. 9	152.8 154.1 155.1 156.5 157.6 158.1	162. 5 164. 3 165. 8 167. 2 168. 3 169. 2	139.1 140.4 141.1	162. 9 163. 2 164. 4 165. 9 166. 9 167. 7	170. 7 171. 6 172. 3 174. 2 174. 6 174. 9	167.9 169.1	222. 3 225. 3 231. 7 229. 7 228. 3 234. 4	177. 178. 179. 181. 182. 183.
976: Jan Feb Mar Apr May June	184. 4 181. 6 181. 2 185. 4	193. 3 189. 8 187. 3 195. 0	178.7 176.5 177.2 179.5 181.1 181.6	168. 2 167. 0 166. 7 168. 8 169. 3 169. 5	182.7 179.4 178.1 184.3 185.5 183.7	159.4	170.2 170.3 170.3	142.8 143.0 143.3	169.8 170.7 171.5 171.8	175. 4 176. 1 176. 7 177. 8 178. 1 179. 1	172.0 172.7 173.2 173.5	237.0 231.1 237.6 242.9 244.1 246.8	185 186 187 187
July Aug Sept Oct Nov Dec	. 185. 8 180. 5 181. 1 181. 1 180. 1 180. 1	194. 2 187. 7 189. 2 188. 2 187. 1	175.9 176.0 174.9 175.6	169, 2 168, 5 169, 3 169, 6 169, 9 171, 9	177.1 177.1 176.4 175.7	162.5 163.7 164.6 165.5	176.7	144.9 145.7 146.5 146.8	173.6 174.5 176.3 177.0	11181.0	176.2 177.8 179.3 180.4	254.4 253.1 262.4 271.6	192
977: Jan Feb Mar Apr May June			181.9 185.3 190.1 193.4	1178.4	184. 2 186. 2 190. 8 194. 6	168.1 169.3 170.5	181.0 182.7 183.8 184.8	148.9 149.4 150.6	180.1 180.8 181.8	186.0	183.5 184.7 185.4 185.8	273, 0 279, 3 280, 1 282, 3	196 197 199 200 200 201
July Aug Sept Oct Nov Dec	186. 4 183. 1 182. 3 184. 7 188. 9	187.6 179.9 179.6 184.0 189.5	185. 0 184. 2 183. 1 184. 5 187. 7 189. 3	179.7 179.5 180.1 181.0 181.6 182.7	188.6	175.6	188.4	153.5 153.6 155.3 155.5	184. 4 185. 2 186. 1 188. 9 190. 2 191. 2	190. 3 190. 3 191. 1 192. 5 193. 9 194. 7	187.9 189.1 190.9 192.4 193.6 194.8	277.7 283.0 283.2 283.2 283.2	202 203 205 206

¹ Excludes crude foodstuffs and feedstuffs, plant and animal fibers, oilseeds, and leaf tobacco. ² Excludes intermediate materials for food manufacturing and manufactured animal feeds.

					[Percent	change]						
	Farm p	roducts			-		Con	sumer fir	nished go	ods	-	
Year or month	and pro foods ar	cessed	Indu: commo		To finished		Fød	ods	All exce	ept food	finished	lucer I goods
	Dec. to Dec.1	Year to year	Dec. to Dec.1	Year to year	Dec. to Dec.1	Year to year	Dec. to Dec.1	Year to year	Dec. to Dec.1	Year to year	Dec. to Dec.1	Year to year
1948 1949	6.8 8,9	7.6 11.7	5.0 -5.0	8.6 -2.1	3.0 -4.6	8.0 -2.9	-2.4 -7.4	9.2 -8.1	4. C 4. 5	6.3 2.1	10.4 6	9.0 5.0
1950 1951 1952 1953 1954	17.0 3.5 -8.2 -2.3 -2.6	4.8 13.8 3.9 6.5 3	14.0 .4 -1.4 1.4 .2	3.6 10.4 2.3 .8 .2	10.4 2.9 -2.2 .5 1	1.8 9.5 6 -1.0 .2	13.3 5.3 5.9 2.2 1.9	1.9 12.4 9 5.2 8	8.2 .9 -1.1 1.6 .3	1.6 7.2 -1.3 .9 .3	10. 3 3. 4 .8 2. 3 1. 1	2.4 9.7 1.7 1.7 1.2
1955 1956 1957 1958 1959	-6.4 6.0 4.2 2 -4.4	-4.7 7 3.4 4.7 -4.7	4.3 4.2 1.1 .9 1.2	2,2 4,5 2,8 ,3 1,8	1.2 4.2 3.2 .5 4	.2 2.8 3.6 2.3 2	-2.9 3.6 5.3 .4 3.7	-2.5 2 3.5 5.8 -4.7	1.7 2.5 1.7 .2 .8	.8 2.4 2.5 .1 1.3	5.6 8.3 4.3 1.3 1.0	3.0 7.4 6.2 2.6 1.9
1960 1961 1962 1963 1964	6 .6 -2.1 0	.2 0 1.1 -1.0 6	6 1 5 .6	0 5 1 .5	1.8 5 .1 2	.8 0.3 3 .4	5.2 -1.8 .5 -1.3 .4	2.2 4 .9 -1.2 .5	.4 3 1 .1 .1	.4 1 2 0 1	.1 .2 .3 .5 .9	.2 .1 .4 .2 1.0
1965 1966 1967 1968 1969		4,2 6,6 -3,4 2,4 5,5	1.4 2.2 1.9 2.7 3.9	1.3 2.2 1.5 2.5 3.4	3.3 2.2 1.6 3.1 4.8	1.7 3.2 1.2 2.9 3.6	9.1 1.4 4 4.8 8.2	3.8 6.5 -1.6 3.7 6.1	.9 1.7 2.1 2.0 2.9	.7 1.6 1.9 2.1 2.4	1.5 3.9 3.1 3.0 4.6	1.2 2.5 3.3 3.5 3.3
1970 1971 1972 1973 1974	-1.4 6.0 14.4 26.7 11.0	3, 4 2, 0 7, 5 30, 0 11, 5	3.6 3.4 3.4 10.7 25.6	3.8 3.7 3.3 6.8 22.2	2, 2 3, 2 3, 8 11, 8 18, 3	3.5 3.1 3.1 9.1 15.3	-2.5 5.9 8.0 22.5 13.0	3.2 1.6 5.6 20.3 14.0	3.9 2.0 2.0 7.4 20.5	3.0 3.2 2.1 4.5 16.9	4.9 2.4 2.0 5.3 22.6	4.8 4.1 2.5 3.3 14.2
1975 1976 1977	3 -1.1 3.0	3.8 6 3.1	6.0 6.4 6.7	11.5 6.4 7.0	6.6 3.3 6.6	10.8 4.2 6.0	5.5 -2.5 6.6	8.4 4 4.9	6.7 4.9 6.1	10.5 5.7 6.4	8,2 6,4 7,2	15.2 6.6 6.5
		<u> </u>			Chang	e from p	receding	month	<u>.</u>	•	·	·
	Unad- justed	Sea- sonally ad- justed	Unad- justed	Sea- sonally ad- justed	Unad- justed	Sea- sonally ad- justed	Unad- justed	Sea- sonally ad- justed	Unad- justed	Sea- sonally ad- justed	Unad- justed	Sea- sonally ad- justed
1976: Jan Feb Mar Apr May June	$ -1.5 \\ -1.0 \\ 2.1 \\ .6 $	-0.9 -1.5 2 2.3 .5 .4	0.7 .4 .5 .6 .2 .6	0.7 .2 .4 .4 .2 .6	0.2 4 1 .6 .2 .3	0.2 4 0 1.1 .2 .2	-1.0 -1.9 9 1.9 .7 6	-1.2 -1.8 7 3.5 .7 -1.0	0.5 .2 1 0 .1 .8	0.8 1 .1 .1 .1 .8	0.9 .3 .4 .4 .1 .4	0.8 .5 .5 .2 .4
July Aug Sept Oct Nov Dec	-3.4 .7 -1.9 7	6 -2.9 .3 6 0 2.2	.7 .6 .5 .8 .4 .2	.6 .8 .9 .6 .3	.4 3 .4 .9 .1 1.0	1 2 .5 .3 1.0	2.0	-1.5 -2.2 0 4 4 2.8	.6 .6 .4 1.0 .4 .2	.5 .6 .7 .5 .5 .2	.3 .5 1.8 .2 .6	.3 .3 .5 1.0 .4 .8
1977: Jan Feb Mar Apr May June	-2.7	.3 2.0 2.1 2.9 .2 -3.6	.5 .8 .9 .8 .5 .3	.5 .7 .6 .4 .3	.6 9 .5 .7 .8 .1	.6 .8 .7 1.1 .9 0	.3 1.9 .9 1.0 2.0 8	1 2.0 1.1 2.5 2.0 -1.2	.8 .5 .7 .4 .5	1.0 .4 .7 .7 .5 .4	.5 .3 .5 .4 .4	.3 .6 .4 .6 .4 .5 .5 1.55 1.55 .7 .5
July Aug Sept Oct Nov Dec	1.4	$\begin{vmatrix} -2.4 \\ -2.1 \\4 \\ 1.3 \\ 2.3 \\ .4 \end{vmatrix}$.6 .6 .5 .7 .1 .4	.5 .5 .8 .6 .4 .5	.4 0 1.2 .3 .5	0 .1 .4 .8 .4 .7	.7 -1.2 2 .1 .3 1.3	7 9 3 .3 .4 1.5	.2 .3 .5 1.0 .2 .2	.2 .3 .7 .6 .3 .2	.4 .5 .5 2.3 .5 .4	.5 .4 .5 1.5 .7 .5

TABLE B-58.-Percent changes in wholesale price indexes, major groups, 1948-77

[Percent change]

¹ Changes from December to December are based on unadjusted indexes.

MONEY STOCK, CREDIT, AND FINANCE

TABLE B-59.-Money stock measures, 1947-77

[Averages of daily figures; billions of dollars, seasonally adjusted, except as noted]

	Öv	erall measu	res				nents and			
		M2 (M ₁ plus	M ₃ (M 2 plus		Depos	its at cor	nmercial	banks	Deposits	U.S.
Year and month	M1 (Currency plus demand deposits)	time deposits at com- mercial banks ot her than large CDs)	deposits at non- bank thrift institu- tions)	Cur- rency 1	De- mand ²	Time Total	and savi Large CDs 4	ngs 3 Other	at non- bank thrift institu- tions ⁵	Govern- ment demand deposits (unad- justed) 6
1947: Dec 1948: Dec 1949: Dec				26.4 25.8 25.1	86.7 85.8 86.0	35. 4 36. 0 36. 4				1.0 1.8 2.8
1950: Dec 1951: Dec 1952: Dec 1953: Dec 1955: Dec 1956: Dec 1957: Dec 1958: Dec 1958: Dec 1958: Dec 1959: Dec	122.7 127.4 128.8 132.3 135.2 136.9 135.9 141.1	210.9	303.8	25. 0 26. 1 27. 3 27. 7 27. 4 27. 8 28. 2 28. 3 28. 6 28. 9	91. 2 96. 5 100. 1 101. 1 104. 9 107. 4 108. 7 107. 6 112. 6 114. 5	36.7 38.2 41.1 44.5 48.3 50.0 51.9 57.4 65.4 67.4		67.4	 92. 9	2. 4 2. 7 4. 9 3. 8 5. 0 3. 4 3. 4 3. 5 3. 9 4. 9
1960: Dec 1961: Dec 1962: Dec 1963: Dec 1964: Dec 1965: Dec 1966: Dec 1966: Dec 1968: Dec 1969: Dec	148.7 150.9 156.5 163.7 171.3 175.7 187.3 202.2	217. 1 228. 6 242. 9 258. 9 277. 1 301. 3 318. 1 349. 9 382. 9 392. 3	319. 3 342. 1 369. 2 400. 3 434. 4 471. 7 495. 4 543. 9 589. 6 607. 3	29.0 29.6 30.6 32.5 34.3 36.3 38.3 40.4 43.4 45.1	115. 2 119. 1 120. 3 124. 1 129. 5 134. 9 137. 3 146. 9 158. 7 162. 8	72.9 82.7 97.6 112.0 126.2 146.4 157.9 183.3 204.3 194.4	2.8 5.7 9.6 12.8 16.4 15.5 20.6 23.5 10.9	72.9 79.9 92.0 102.3 113.4 130.0 142.4 162.6 180.8 183.5	102. 3 113. 4 126. 4 141. 4 157. 3 170. 4 177. 3 194. 0 206. 7 214. 9	4.7 4.9 5.6 5.1 5.5 4.6 3.4 5.0 5.0 5.0
1970: Dec 1971: Dec 1972: Dec 1973: Dec 1974: Dec 1975: Dec 1976: Dec 1977: Dec 1977: Dec	233.8 255.3 270.5 283.1 294.8 312.4	423.5 471.7 525.3 571.4 612.4 664.3 740.3 806.5	656.2 742.8 844.5 919.6 981.5 1,092.6 1,237.1 1,373.9	49.1 52.6 56.9 61.5 67.8 73.7 80.5 88.4	170.5 181.3 198.4 209.0 215.3 221.0 231.9 247.0	229.2 271.1 313.5 363.9 418.3 451.7 491.1 545.8	25. 3 33. 3 43. 5 63. 0 89. 0 82. 1 63. 3 74. 7	204.0 237.8 270.0 300.9 329.3 369.6 427.9 471.1	232.7 271.1 319.3 348.1 369.1 428.3 496.8 567.4	7.3 6.9 7.4 6.3 4.9 4.1 4.7 5.5
1976: Jan Feb Mar Apr May June	296.8 298.1 301.8 303.5	670. 3 678. 2 682. 6 690. 6 695. 7 698. 2	1, 103.6 1, 117.1 1, 126.5 1, 139.7 1, 149.7 1, 156.5	74.3 75.0 75.7 76.6 77.3 77.5	221.1 221.8 222.4 225.2 226.2 225.6	453.3 456.7 457.8 460.0 460.7 465.3	78.4 75.4 73.4 71.2 68.6 70.2	374. 9 381. 3 384. 4 388. 9 392. 1 395. 1	433. 4 438. 9 443. 9 449. 1 454. 0 458. 2	3.8 4.5 3.9 3.9 3.8 4.8
July Aug Sept Oct Nov Dec	306.5 306.9 310.4 310.4	705. 2 710. 4 716. 3 725. 9 732. 3 740. 3	1, 168. 8 1, 180. 8 1, 193. 9 1, 210. 7 1, 223. 4 1, 237. 1	78. 1 78. 6 79. 2 79. 8 80. 2 80. 5	226. 9 227. 9 227. 7 230. 6 230. 2 231. 9	469.0 468.9 472.5 477.8 484.2 491.1	68.9 65.0 63.1 62.3 62.2 63.3	400. 1 403. 9 409. 4 415. 5 422. 0 427. 9	463.6 470.5 477.6 484.8 491.0 496.8	3.5 3.7 5.0 4.0 4.2 4.7
1977: Jan Feb Mar Apr May June	314.0 315.4 320.5 320.7	746. 3 750. 7 756. 1 764. 6 767. 6 772. 8	1, 248. 9 1, 258. 2 1, 268. 1 1, 281. 2 1, 289. 0 1, 299. 5	81. 1 81. 8 82. 2 83. 1 83. 6 84. 0	232.7 232.1 233.2 237.4 237.1 238.0	495.6 500.0 502.8 505.7 509.2 514.8	63.1 63.3 62.2 61.6 62.3 63.9	432.5 436.7 440.6 444.1 446.9 450.9	502.6 507.5 512.1 516.6 521.4 526.7	4. 2 4. 4 4. 5 5. 6 3. 8 5. 2
July Aug Sept Oct Nov Dec P	328.4 330.4 333.7 333.3	783. 5 787. 7 792. 9 799. 6 802. 7 806. 5	1, 316. 9 1, 329. 5 1, 343. 1 1, 357. 1 1, 365. 6	85. 1 85. 5 86. 4 87. 1 87. 8 88. 4	241.7 242.9 244.0 246.6 245.5 247.0	519.5 522.5 525.8 532.2 540.3 545.8	62. 8 63. 2 63. 2 66. 4 70. 9 74. 7	456.7 459.3 462.6 465.9 469.4 471.1	533. 5 541. 7 550. 2 557. 5 563. 0 567. 4	3.9 3.7 5.4 4.1 3.8 5.4

¹ Currency outside the Treasury, the Federal Reserve Banks, and the vaults of all commercial banks.
 ² Demand deposits other than those due to domestic commercial banks and the U.S. Government, less cash items in process of collection and Federal Reserve float, plus foreign balances at Federal Reserve Banks.
 ³ Time and savings deposits other than those due to domestic commercial banks and the U.S. Government, less cash items in process of collection and Federal Reserve float, plus foreign balances at Federal Reserve Banks.
 ⁴ Time and savings deposits other than those due to domestic commercial banks and the U.S. Government. Effective June 1966, excludes balances accumulated for payment of personal loans (about \$1.1 billion).
 ⁴ Negotiable time certificates of deposit (CDs) issued in denominations of \$100,000 or more by large weekly reporting commercial banks, and the beginning- and end-of-month deposits of mutual savings banks, savings capital at savings and loan associations, and credit union shares.
 ⁶ Deposits at all commercial banks.

		Lo	ans	Investi	ments	
End of year or month ¹	Total loans and invest- ments ³	Total 2	Commercial and industrial	U.S. Govern- ment securities	Other securities	Loans plus loans sold to bank affiliates
930: June 933: June 939	48. 9 30. 4 40. 7	34.5 16.3 17.2		5.0 7.5 16.3	9.4 6.5 7.1	
940	43.9 50.7	18.8 21.7		17.8 21.8	7.4 7.2	
942 943 944	67.4 85.1 105.5	19. 2 19. 1 21. 6		41. 4 59. 8 77. 6	6.8 6.1 6.3	
945 946 947	124.0 114.0 116.3	26. 1 31. 1 38. 1		90.6 74.8 69.2	7.3 8.1 9.0	
948	114. 2	42. 4		62.6	9. 2	
	113.0	41. 5		y adjusted 62.3	9.2	
948	118.7	42. 0		66. 4	10.3	
950 951 952	124.7 130.2 139.1	51. 1 56. 5 62. 8		61. 1 60. 4 62. 2	12.4 13.4 14.2	
953	143. 1 153. 1	66. 2 69. 1		62.2 67.6	14.7 16.4	
955 956 957	157.6 161.6 166.4	80.6 88.1 91.5		60.3 57.2 56.9	16.8 16.3 17.9	
958. 959 3	181. 2 188. 7	95.6 110.5	39.4	65. 1 57. 7	20. 5 20. 5 20. 5	
960	197. 4 212. 8	116.7 123.6 137.3	42. 1 43. 9	59. 9 65. 3	20. 8 23. 9	
962 963 964	231. 2 250. 2 272. 3	153.7 172.9	47.6 52.1 58.4	64.7 61.5 60.7	29. 2 35. 0 38. 7	
965	300. 1 4 316. 1	198. 2 4 213. 9	69.5 78.6 86.2	57.1 53.5 59.4	44.8 4 48.7 61.3	
967 968 969 ⁵	352.0 390.2 401.7	231. 3 258. 2 279. 4	95. 9 105. 7	60.7 51.2	71. 3 71. 1	283.
970	435. 5 485. 7	292. 0 \$ 320. 9	110.0 116.1	57.8 60.6	85.7 4 104.2	294. • 323.
972 973 974	558.0 633.4 690.4	378.9 449.0 500.2	130.2 156.4 183.3	62.6 54.5 50.4	116.5 129.9 139.8	381. 453. 7 505.
975 976 977 »	721.1 784.4 865.4	496.9 538.9 612.9	176.0 179.5 ¢202.2	79.4 97.3 93.5	144. 8 148. 2 159. 0	501. 542. 617.
977: Jan Feb	787.3 797.9	541. 4 546. 6	180. 4 182. 2	97.0 101.7	148.9 149.6	545. 550.
Mar Apr	805.1 815.7 823.9	552.9 560.7	184. 4 186. 7 188. 2	103.8 103.2 105.1	148. 4 151. 8 152. 7	556. 564. 570.
May June	823. 9 830. 5	566. 1 572. 4	188. 2 190. 2	105. 1 105. 2	152. 7 152. 9	570.
July	837.0 845.6	579.0 587.0	192. 4 194. 6	103.6 103.1	154. 4 155. 5	583. 591.
Sept P Oct P Nov P	848.4 857.9 866.1	592.2 602.5 611.2	195.1 199.3 201.6	100. 1 97. 8 95. 0	156, 1 157, 6 159, 9	596. 606. 615. 617.
Dec	865.4	612.9	\$ 202. 2	93. 5	159.0	617.

TABLE B-60.—Commercial bank loans and investments, 1930-77 [Billions of dollars]

Note.—Data may not be strictly comparable because of bank mergers, liquidations, loan reclassifications, etc.

			Currei	ncy and de	posits		U.S. Tr	easury		
Vaar	Tatal				Time d	eposits	secu		Nego- tiable	Other private
Year and month	Totai liquid assets	Total	Cur- rency 1	De- mand de- posits ¹	Com- mer- cial banks 1	Non- bank thrift institu- tions ^a	Sav- ings bonds ³	Short- term market- able secu- rities 4	certifi- cates of de- posit ^s	money market instru- ments ⁶
1952: Dec	269. 1	200. 9	27.3	91.6	39. 1	42, 8	49, 2	18, 4		0.7
1953: Dec	284. 5	211. 0	27.7	92.8	41. 9	48, 6	49, 3	23, 1		1.1
1954: Dec	295. 2	223. 9	27.4	96.2	45. 1	55, 2	49, 9	20, 1		1.2
1955: Dec 1956: Dec 1957: Dec 1958: Dec 1959: Dec	325.3	235. 4 246. 2 257. 2 277. 4 290. 7	27.8 28.2 28.3 28.6 28.9	98.5 99.5 97.9 102.2 104.2	46. 9 49. 0 54. 6 61. 8 64. 7	62. 3 69. 5 76. 4 84. 8 92. 9	50. 2 50. 1 48. 3 47. 8 46. 1	27.7 27.4 30.6 27.6 35.5		1.4 1.6 1.8 1.4 .9
1960: Dec 1961: Dec 1962: Dec 1963: Dec 1964: Dec	386.6 410.4 441.8 479.1 515.2	305.7 326.2 352.2 382.2 414.6	29.0 29.6 30.6 32.5 34.3	104.6 106.3 106.5 109.7 114.3	69.9 77.0 88.8 98.6 108.8	102.3 113.4 126.4 141.4 157.3	45.7 46.5 46.9 48.1 49.0	32.4 32.0 33.4 35.0 33.0	2.7 5.3 9.0 11.6	2.8 3.1 4.0 4.8 6.9
1965: Dec	559.2	451.1	36.3	119.3	125.1	170.4	49.6	35.8	15.1	7.5
1966: Dec	586.9	474.3	38.3	121.7	136.9	177.3	50.2	37.8	14.4	10.3
1967: Dec	638.0	521.0	40.4	130.3	156.2	194.0	51.2	34.8	18.7	12.4
1968: Dec	696.4	565.3	43.4	140.9	174.3	206.7	51.8	40.9	21.7	16.6
1969: Dec	722.4	582.8	46.1	145.0	176.8	214.9	51.7	53.2	8.3	26.4
1970: Dec	769.5	632.4	49. 1	151.8	198.9	232.7	52.0	41.9	21.8	21.4
1971: Dec	851.8	718.9	52. 6	161.6	233.6	271.1	54.3	31.3	27.7	19.6
1972: Dec	967.4	817.0	56. 9	176.4	264.5	319.3	57.6	34.4	36.3	22.2
1973: Dec	1,079.2	887.5	61. 5	183.3	294.5	348.1	60.4	43.3	53.8	34.3
1974: Dec	1,166.9	945.2	67. 8	187.2	321.2	369.1	63.3	47.5	70.4	40.5
1975: Dec		1, 054. 4	73, 7	191. 7	360.6	428.3	67.2	66.5	59.4	43.0
1976: Dec		1, 194. 2	80, 5	198. 8	418.1	496.8	71.9	66.1	44.2	47.4
1977: Dec P		1, 330. 8	88, 4	214. 7	460.3	567.4	76.6	76.4	55.0	60.9
1976: Jan	1, 300. 4	1, 065. 9	74.3	192. 2	366. 1	433. 4	67.6	67. 2	56. 2	43. 5
Feb	1, 311. 7	1, 079. 5	75.0	193. 0	372. 6	438. 9	68.0	67. 2	53. 7	43. 4
Mar	1, 320. 1	1, 088. 4	75.7	192. 9	375. 9	443. 9	68.3	68. 0	52. 2	43. 2
Apr	1, 333. 1	1, 101. 4	76.6	195. 2	380. 6	449. 1	68.7	68. 5	50. 7	43. 8
May	1, 343. 7	1, 111. 7	77.3	196. 5	383. 9	454. 0	69.0	69. 1	49. 0	44. 9
June	1, 354. 1	1, 118. 0	77.5	195. 5	386. 8	458. 2	69.4	70. 1	50. 6	46. 1
Juły Aug Sept Oct Nov Dec	1, 367. 5 1, 376. 7 1, 386. 9 1, 402. 8 1, 413. 0 1, 423. 7	I, 130. 2 1, 142. 9 1, 155. 1 1, 171. 0 1, 182. 2 1, 194. 2	78. 1 78. 6 79. 2 79. 8 80. 2 80. 5	196. 7 198. 0 197. 4 199. 8 198. 3 198. 8	391. 8 395. 9 401. 0 406. 5 412. 7 418. 1	463. 6 470. 5 477. 6 484. 8 491. 0 496. 8	69.8 70.4 70.7 71.1 71.5 71.9	70. 9 69. 9 68. 7 68. 9 68. 5 68. 5 66. 1	49.7 46.1 44.6 44.0 43.4 44.2	46. 9 47. 4 47. 8 47. 8 47. 8 47. 5 47. 4
1977: Jan	1, 438. 5	1, 207. 6	81. 1	200. 9	423. 0	502. 6	72. 3	66. 9	43. 6	48. 1
Feb	1, 453. 6	1, 216. 7	81. 8	200. 1	427. 2	507. 5	72. 6	70. 3	44. 2	49. 7
Mar	1, 464. 3	1, 226. 0	82. 2	200. 9	430. 8	512. 1	73. 0	70. 3	43. 3	51. 7
Apr	1, 478. 6	1, 239. 4	83. 1	205. 5	434. 2	516. 6	73. 4	70. 0	42. 5	53. 3
May	1, 486. 8	1, 246. 3	83. 6	204. 5	436. 8	521. 4	73. 8	69. 2	42. 8	54. 7
June	1, 499. 6	1, 256. 0	84. 0	205. 0	440. 4	526. 7	74. 2	68. 4	44. 3	56. 6
July	1, 519. 4	1, 273. 4	85. 1	208. 7	446. 1	533. 5	74.7	69.8	43. 4	58. 1
Aug	1, 534. 1	1, 284. 7	85. 5	208. 6	448. 9	541. 7	75.1	71.8	43. 8	58. 7
Sept	1, 549. 7	1, 299. 0	86. 4	209. 9	452. 5	550. 2	75.4	72.5	43. 5	59. 3
Oct	1, 570. 2	1, 313. 5	87. 1	213. 3	455. 7	557. 5	75.8	74.4	46. 8	59. 9
Nov	1, 585. 1	1, 321. 4	87. 8	212. 4	458. 5	562. 7	76.2	75.8	51. 3	60. 4
Dec p	1, 599. 6	1, 330. 8	88. 4	214. 7	460. 3	567. 4	76.6	76.4	55. 0	60. 9

TABLE B-61.-Liquid asset holdings, private domestic nonfinancial investors, 1952-77 [Month by average outstandings; billions of dollars, seasonally adjusted]

Money stock components (see Table B-59) after deducting foreign holdings and holdings by domestic financial institutions. The three columns add to M₂ held by domestic nonfinancial sectors.
 A so published in money stock statistics.
 Series E and H savings bonds, other savings bonds, and savings notes held by individuals.
 Stort-term marketable U.S. Treasury securities excluding official, foreign, and financial institution holdings.
 Certificates over \$100,000 at weekly reporting banks, except foreign holdings.
 Commercial paper, bankers' acceptances, Federal funds, security repurchase agreements, and money market mutual fund shares held outside banks and other financial institutions.

	[Billions	or dona	2					
item	1969	1970	1971	1972	1973	1974	1975	1976
Total funds raised	93.7	100.6	153.5	177.8	202.0	189.6	205.6	268.3
U.S. Government	-3.7	11.9	24. 9	15.1	8.3	11.8	85.4	69.0
Treasury issuesAgency issues and mortgages	-1.3 -2.4	12.9 -1.0	26.0 -1.1	14.3 .8	7.9 .4	12.0 2	85.8 4	69.1 1
Foreign	3.7	2.7	5. 2	4.0	6.2	15.4	13. 2	20.3
Corporate equities Debt instruments	.5 3.2	2.7	.0 5.2	4 4. 4	2 6.4	2 15.7	.1 13.0	.0 20.3
Private domestic nonfinancial sectors	93.6	86.0	123. 5	158, 7	187.5	162.4	107.0	179.0
Corporate equities Debt instruments	3.4 90.2	. 5.7 80.3	11.4 112.0	10.9 147.8	7.9 179.7	4. 1 158. 3	9.9 97.1	10. 5 168. 4
Debt capital instruments	52.5	60.2	86.8	102.3	105.0	98.7	95.8	122.7
State and local government obli- gations Corporate bonds Mortgages Home Muti-family residential Commercial Farm	9.9 12.0 30.6 18.1 4.9 5.7 1.8	11. 2 19. 8 29. 2 14. 4 6. 9 7. 1 . 8	17.4 18.8 50.5 28.6 9.7 9.8 2.4	14.7 12.2 75.4 42.6 12.7 16.5 3.6	14.7 9.2 81.2 46.4 10.4 18.9 5.5	17.1 19.7 61.9 34.8 6.9 15.1 5.0	13.6 27.2 55.0 39.5 .0 11.0 4.6	15. 1 22. 8 84. 8 63. 6 1. 6 13. 4 6. 1
Other debt instruments	37.8	20. 1	25.3	45.5	74.6	59.6	1.3	45.7
Consumer credit Bank loans n.e.c. Open-market paper Other	10.4 15.7 1.8 9.9	5.9 6.8 2.6 4.8	13.1 8.1 4 4.4	18.9 18.9 .8 6.9	22.0 39.8 2.5 10.3	10. 2 29. 1 6. 6 13. 7	9.4 14.5 2.6 9.0	23.6 3.7 4.0 14.4
By borrowing sector: Total	93.6	86.0	123, 5	158.7	187.5	162.4	107.0	179.0
State and local governments Households Nonfinancial business Farm Nonfarm noncorporate Corporate	10, 7 34, 4 48, 6 3, 0 7, 3 38, 2	11. 3 24. 9 49. 8 2. 3 6. 8 40. 7	17.7 45.2 60.6 4.5 11.6 44.5	14.5 66.6 77.6 5.8 14.1 57.7	13. 2 79. 1 95. 2 9. 7 12. 8 72. 7	16. 2 49. 2 97. 0 7. 9 7. 4 81. 8	11. 2 48. 6 47. 3 8. 7 2. 0 36. 6	14.6 89.8 74.6 11.0 5.2 58.3
Total funds advanced to nonfinancial sectors	93.7	100.6	153. 5	177.8	202.0	189.6	205, 6	268. 3
Financed directly or indirectly by:								
Private domestic nonfinancial sectors	48.1	63.4	85.9	119.6	133. 3	120.2	138.1	166.9
Deposits	5.1	64.2	92.8	105.2	90.4	75.7	97.1	130.1
Demand deposits and currency Time and savings accounts At commercial banks At savings institutions	7.3 -2.2 -10.6 8.4	8.9 55.3 38.7 16.6	13.7 79.1 39.5 39.6	21.4 83.8 38.3 45.4	14.3 76.1 47.7 28.5	8.9 66.7 45.0 21.8	12.3 84.8 25.3 59.4	17.2 113.0 43.9 69.1
Credit market instruments, net	42.9	8	-6.9	14.4	42.9	44.5	41.0	36.8
U.S. Government securities Private credit market instru-	17.7	-7.3	-10. 7	3.9	19. 5	18.2	22. 2	19, 4
Corporate equities	27.3 -3.7 -1.6	7.2 -1.6 9	11.0 -5.1 2.1	19.4 -4.5 4.3	26.0 6.9 4.2	27.7 -2.2 8	23.1 -4.1 .2	24.5 3.8 3.3
Other sources:								
Foreign funds At banks Direct	10.8 9.6 1.1	3.0 8.1 11.1	23.3 3.9 27.2	16. 1 5. 3 10. 8	10. 4 6. 9 3. 5	26.3 14.5 11.7	10, 4 4 10, 7	21. 0 3. 1 18. 0
Change in U.S. Government cash balance U.S. Government loans Private insurance and pension re-	.5 3.1	2.8 2.8	3. 2 2. 8	3 1.8	1.7 2.8	-4,6 9.8	2, 9 15, 1	3. 2 8. 9
serves. Other	19.7 11.6	21.9 6.7	24.4 14.0	26. 1 14. 3	30.6 26.6	33.2 4.7	39. 1 . 1	48. 8 19. 5

TABLE B-62.—Total funds raised in credit markets by nonfinancial sectors, 1969-77

[Billions of dollars]

See footnotes at end of table.

ltem		7 unadju: arterly fic		197 adjust	7 season ed annua	aliy al rates
	1	II	111	1	- 11	
Total funds raised	65.0	81.3	90.0	300.4	318.9	369.
U.S. Government	17.6	-1.1	19.6	41.4	39.2	83.
Treasury securities Agency issues and mortgages	17.8 2	-1.0 1	20.1 5	42.1 7	39.6 4	85. 2.
Foreign	. 4	2.9	4.3	2.2	6.7	21.
Corporate equities Debt instruments	.2 .2	.1 2.8	.4 3.9	.8 1.4	.4 6.3	1. 20.
Private domestic nonfinancial sectors	46.9	79.6	66.1	256.8	273.0	264.
Corporate equities Debt instruments	1.5 45.4	2.6 77.0	1.5 64.6	6.2 250.7	10.3 262.6	6. 258.
Debt capital instruments	30. 2	51.5	47.7	135.8	191.2	186.
State and local government obligations Corporate bonds Mortgages Home Multi-family Commercial Farm	2.4 5.4 22.4 16.4 .7 3.0 2.2	11. 1 5. 8 34. 6 25. 3 1. 6 5. 0 2. 7	8.6 3.8 35.3 26.3 2.0 5.0 2.0	13.1 18.1 104.6 76.5 3.6 15.4 9.1	41. 3 21. 1 128. 8 94. 8 5. 5 19. 1 9. 3	32. 20. 133. 97. 7. 19. 8.
Other debt instruments	15.2	25.5	16.9	114.9	71. 4	72.
Consumer credit. Bank loans n.e.c. Open-market paper Other	2.6 5.6 .8 6.1	10.8 10.9 1.3 2.5	10.6 3.1 0 3.2	35.5 53.0 3.4 23.1	34.8 21.4 6.6 8.6	32. 24. —. 16.
By borrowing sector: Total	46.9	79.6	66.1	256.8	273.0	264.
State and local governments Households Nonfinancial business Farm Nonfarm noncorporate Corporate	2.2 21.6 23.1 3.9 1.4 17.8	8.0 36.8 34.8 5.7 2.8 26.2	9.7 36.6 19.7 3.8 1.6 14.3	12. 1 128. 9 115. 8 16. 7 12. 4 86. 6	29. 1 130. 4 113. 5 17. 1 8. 8 87. 7	37. 140. 87. 15. 6. 65.
Total funds advanced to nonfinancial sectors	65.0	81.3	90.0	300.4	318. 9	369.
Financed directly or indirectly by:						
Private domestic nonfinancial sectors	40.4	42.2	47.4	200.5	163. 3	234.
Deposits	22.7	36.4	21. 4	142.7	111.4	146.
Demand deposits and currency Time an d savings accounts At commercial banks At savings institutions	-15.8 38.5 17.5 21.1	13.3 23.1 5.8 17.3	5.7 27.1 9.6 17.5	18.2 124.6 55.7 68.9	22.8 88.6 22.8 65.8	6. 139. 56. 83.
Credit market instruments, net	17.7	5.8	25.9	57.7	51.9	87.
U.S. Government securities Private credit market instruments Corporate equities Less security debt	7,9 9,5 1,3	-6.5 12.2 .1	16.8 10.0 5	25.1 37.2 4	3.1 52.8 2.0	57. 37. —5.
Other sources:	1.0	1	.4	4. 2	2	1.0
Foreign funds At banks Direct	3.8 -4.4 8.2	8.5 1.9 6.7	10. 8 1. 2 9. 6	17. 7 -15. 7 33, 4	37.1 7.5 29.5	38. 5. 33.
Change in U.S. Government cash balance U.S. Government loans Private insurance and pension reserves Other	-2.8 1.2 12.7 9.7	7.4 1.1 16.1 5.9	1.1 4.7 14.4 11.6	4. 3 8. 5 50. 4 27. 7	17.5 3.3 64.5 33.1	—, 3 15, 9 56, 4 25, 1

TABLE B-62.—Total funds raised in credit markets by nonfinancial sectors, 1969-77.—Continued [Billions of dollars]

Source: Board of Governors of the Federal Reserve System.

Digitized for FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis

		Reserve Bar	nk credit ou	tstanding		Memb	er bank res	erves
Year and month	Total	U.S. Govern- ment se-	Membe borro	r bank wings	Other	Total	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Excess
		curities	Total	Seasonal			44.100	
1929: Dec 1933: Dec 1939: Dec	1, 643 2, 669 2, 612	446 2, 432 2, 510	801 95 3		396 142 99	2, 395 2, 588 11, 473		48 1 766 5, 011
1940: Dec	2, 305 2, 404 6, 035 11, 914 19, 612 24, 744 24, 746 22, 858 23, 978 19, 012	2, 188 2, 219 5, 549 11, 166 18, 693 23, 708 23, 767 21, 905 23, 002 18, 287	3 5 4 90 265 334 157 224 134 118		114 180 482 658 654 702 822 729 842 607	14, 049 12, 812 13, 152 12, 749 14, 168 16, 027 16, 517 17, 261 19, 990 16, 291	9, 422 10, 776 11, 701 12, 884 14, 536 15, 617 16, 275 19, 193	6, 646 3, 390 2, 376 1, 048 1, 284 1, 491 900 986 797 80 3
1950: Dec. 1951: Dec. 1952: Dec. 1953: Dec. 1954: Dec. 1955: Dec. 1956: Dec. 1957: Dec. 1958: Dec. 1958: Dec. 1959: Dec.	21, 606 25, 446 27, 299 27, 107 26, 317 26, 853 27, 156 26, 186 28, 412 29, 435	20, 345 23, 409 24, 400 25, 639 24, 917 24, 602 24, 765 23, 982 26, 312 27, 036	142 657 1,593 441 246 839 688 710 557 906		1, 119 1, 380 1, 306 1, 027 1, 154 1, 412 1, 703 1, 494 1, 543 1, 493	17, 391 20, 310 21, 180 19, 920 19, 279 19, 240 19, 535 19, 420 18, 899 2 18, 932	19, 484 20, 457 19, 227 18, 576 18, 646 18, 883 18, 843 18, 383	1,027 826 723 693 703 594 652 577 516 482
1960: Dec. 1961: Dec. 1962: Dec. 1963: Dec. 1964: Dec. 1965: Dec. 1966: Dec. 1967: Dec. 1968: Dec. 1969: Dec. 1969: Dec.	29, 060 31, 217 33, 218 36, 610 39, 873 43, 853 46, 864 51, 268 56, 610 64, 100	27, 248 29, 098 30, 546 33, 729 37, 126 40, 885 43, 760 48, 891 52, 529 57, 500	87 149 304 327 243 454 557 238 765 1,086		1, 725 1, 970 2, 368 2, 554 2, 504 2, 514 2, 547 2, 547 3, 316 5, 514	19, 283 20, 118 20, 040 20, 746 21, 609 22, 719 23, 830 25, 260 27, 221 28, 031	19, 550 19, 468 20, 210 21, 198 22, 267 23, 438 24, 915 26, 766	769 568 572 536 411 452 392 345 455 257
1970: Dec 1971: Dec 1972: Dec 1973: Dec 1974: Dec 1975: Dec 1975: Dec 1976: Dec 1977: Dec ^p	66, 708 74, 255 76, 851 85, 642 93, 967 99, 651 107, 632 116, 382	61, 688 69, 158 71, 094 79, 701 86, 679 92, 108 100, 328 107, 948	321 107 1,049 1,298 703 127 62 558	41 32 13 12 54	4, 699 4, 990 4, 708 4, 643 6, 585 7, 416 7, 242 7, 876	29, 265 31, 329 \$ 31, 353 \$ 35, 068 \$ 36, 941 \$ 34, 989 35, 136 36, 471	31, 164 31, 134 34, 806 36, 602 34, 727 34, 964	272 165 3 219 3 262 3 339 4 262 172 175
1977: Jan Feb Mar Apr May June	108, 700 109, 021 108, 085 108, 558 112, 694 109, 453	101, 397 102, 689 102, 092 102, 129 106, 282 102, 649	61 79 110 73 200 262	8 12 13 14 31 55	7, 242 6, 253 5, 883 6, 356 6, 212 6, 542	36, 290 34, 199 34, 135 34, 613 34, 732 34, 406	34, 234 33, 870 34, 602	494 35 265 11 272 113
July Aug Oct Nov Dec ^p	113, 886 110, 886 112, 171 113, 279 110, 650 116, 382	105, 970 103, 389 105, 037 105, 426 102, 776 107, 948	336 1, 071 634 1, 319 840 558	60 101 112 114 83 54	7, 580 6, 426 6, 500 6, 534 7, 034 7, 876	35, 391 35, 186 35, 156 35, 860 35, 782 36, 471	35, 043 34, 987 34, 965 35, 521 35, 647 36, 296	348 199 191 339 135 175

TABLE B-63.—Federal Reserve Bank credit and member bank reserves. 1929-77 Averages of daily figures: millions of dollars]

Data are for licensed banks only.
 Beginning December 1959, total reserves held include vault cash allowed.
 Beginning November 1972, includes \$450 million of reserve deficiencies on which Federal Reserve Banks were allowed to waive penalties for a transition period in connection with bank adaptation to Regulation J as amended effective November 9, 1972. Beginning 1973, allowable deficiencies included are (beginning with first statement week of quarter): first quarter, \$279 million; second quarter, \$173 million; thillion. Beginning 1974 allowable deficiencies included are: first quarter, \$12 million; Tourth quarter, \$58 million. Transition period e ended after second quarter 1974.
 Iffective November 1975. includes reserve deficiencies on which penalties are waived over a 24-month period when a nonmember bank merges into an existing member bank, or when a nonmember bank joins the Federal Reserve System.

TABLE B-64.-Aggregate reserves and deposits, member banks, 1959-77

	Meml	ber bank res	erves 1	Member	bank deposi require	its subject to ments ²	o reserve	
year and month		Non-			Time	Demand		
	Total	borrowed	Required	Total	and savings	Private	U.S. Gov- ernment	
1959: Dec	18.63	17.68	18.12	158. 2	54.3	99.0	4.8	
1960: Dec	19.75 19.66 20.31	18. 84 19. 61 19. 40 19. 98 20. 92	18. 17 19. 16 19. 08 19. 82 20. 78	162.5 175.5 189.0 203.2 218.7	58.8 67.7 79.9 92.1 103.7	99. 1 102. 9 103. 3 105. 9 109. 1	4.6 4.9 5.7 5.2 5.9	
1965: Dec	23.28 24.76 27.05	21. 74 22. 75 24. 54 26. 31 26. 82	21.76 22.94 24.39 26.63 27.66	238. 3 246. 3 275. 7 299. 8 287. 8	120. 7 128. 7 148. 9 164. 5 150. 5	112.8 113.9 121.3 130.5 132.1	4.9 3.7 5.5 4.9 5.2	
1970: Dec	- 31.22 - 31.41 - 34.94	28, 79 31, 10 30, 36 33, 64 35, 87	28. 87 31. 04 31. 12 34. 64 36. 34	321. 1 360. 2 402. 1 442. 3 486. 2	178. 8 210. 5 241. 6 279. 2 322. 1	136. 1 144. 0 154. 4 158. 1 160. 6	6. 2 5. 8 6. 2 5. 0 3. 5	
1975: Dec 1976: Dec 1977: Dec #	34.95	34.60 34.90 35.64	34, 46 34, 68 36, 02	505.4 529.6 569.8	337, 9 355, 0 387, 7	164. 5 171. 4 178. 4	3.0 3.2 3.7	
1976: Jan Feb Mar Apr May June	34.07 34.02 34.05 34.17	34. 23 33. 99 33. 97 34. 00 34. 05 34. 16	34. 07 33. 85 33. 80 33. 89 33. 96 34. 07	506, 0 507, 9 508, 0 509, 7 508, 1 513, 0	338, 1 339, 5 339, 7 339, 9 338, 7 341, 9	165. 2 165. 6 165. 8 167. 2 167. 1 167. 5	2.7 2.7 2.5 2.6 2.3 3.6	
July Aug Sept Oct Nov Dec	34.51 34.34 34.51 34.85	34. 21 34. 41 34. 27 34. 41 34. 78 34. 90	34. 11 34. 31 34. 14 34. 29 34. 59 34. 68	514. 1 514. 2 515. 6 520. 0 524. 9 529. 6	343. 5 341. 7 343. 3 346. 2 350. 2 355. 0	167.9 168.6 168.7 170.4 170.7 171.4	2.7 3.9 3.6 3.4 4.0 3.2	
1977: Jan Feb Mar Apr May June	34. 40 34. 31 34. 68 34, 72	34. 71 34. 33 34. 20 34. 61 34. 52 34. 60	34, 51 34, 20 34, 09 34, 49 34, 51 34, 71	532. 5 532. 0 535. 2 538. 4 537. 6 544. 5	357.3 360.1 361.3 361.4 363.1 367.0	172. 5 169. 5 171. 1 173. 4 172. 3 173. 8	2.7 2.5 2.8 3.6 2.1 3.7	
July Aug Sept Oct Nov Dec P	. 35. 64 35. 63 35. 90 36. 01	35, 03 34, 58 35, 00 34, 59 35, 15 35, 64	35.08 35.44 35.42 35.69 35.76 36.02	547.7 551.4 552.9 559.4 564.6 569.8	369. 2 370. 8 372. 4 377. 1 383. 5 387. 7	175.8 177.0 176.9 179.0 177.6 178.4	2.8 3.6 3.7 3.3 3.5 3.7	

[Averages of daily figures; billions of dollars, seasonally adjusted]

Member bank reserves series reflects actual reserve requirement percentages with no adjustment to eliminate the
effect of changes in Regulations D and M.
 Deposits subject to reserve requirements include total time and savings deposits and net demand deposits as defined
by Regulation D. Private demand deposits include all demand deposits except those due to the U.S. Government, less
cash items in process of collection and demand balances due from domestic commercial banks.

TABLE B-65. -Bond yields and interest rates, 1929-77

	U.S. Gov	ernment s	ecurities	bor	orate nds dy's)	High- grade munic-	Average rate on short-	Prime com- mer-	Dis- count rate,	Federal	New - home
Year or month	3-month Treas- ury bills 1	3–5 year issues 2	Taxable bonds ³	Aaa	Baa	ipal bonds (Stand- ard & Poor's)	term bank loans to busi- ness	cial paper, 4-6 months	Federal Reserve Bank of New York 4	funds rate ⁵	mort- gage yields (FHLBB) (*)
1929				4.73	5.90	4. 27		5. 85	5. 16		
1933	0.515	2.66		4.49	7.76	4.71		1.73	2.56	- -	
1939	. 023	. 59		3.01	4.96	2.76	2.1	. 59	1.00		
1940 1941 1942 1943 1944	. 103 . 326 . 373	.50 .73 1.46 1.34 1.33	2.46 2.47 2.48	2.84 2.77 2.83 2.73 2.72	4. 75 4. 33 4. 28 3. 91 3. 61	2.50 2.10 2.36 2.06 1.86	2.1 2.0 2.2 2.6 2.4	.56 .53 .66 .69 .73	1.00 1.00 7 1.00 7 1.00 7 1.00 7 1.00		
1945 1946 1947 1948 1948 1949	. 375 . 594 1. 040	1.18 1.16 1.32 1.62 1.43	2.37 2.19 2.25 2.44 2.31	2.62 2.53 2.61 2.82 2.66	3. 29 3. 05 3. 24 3. 47 3. 42	1.67 1.64 2.01 2.40 2.21	2.2 2.1 2.1 2.5 2.68	.75 .81 1.03 1.44 1.49	7 1.00 7 1.00 1.00 1.34 1.50		
1950 1951 1952 1953 1954	1.552	1.50 1.93 2.13 2.56 1.82	2.32 2.57 2.68 2.94 2.55	2.62 2.86 2.96 3.20 2.90	3. 24 3. 41 3. 52 3. 74 3. 51	1.98 2.00 2.19 2.72 2.37	2.69 3.11 3.49 3.69 3.61	1.45 2.16 2.33 2.52 1.58	1.59 1.75 1.75 1.99 1.60		
1955 1956 1957 1958 1958 1959	2.658 3.267 1.839	2.50 3.12 3.62 2.90 4.33	2. 84 3. 08 3. 47 3. 43 4. 07	3.06 3.36 3.89 3.79 4.38	3.53 3.88 4.71 4.73 5.05	2.53 2.93 3.60 3.56 3.95	3.70 4.20 4.62 4.34 \$5.00	2. 18 3. 31 3. 81 2. 46 3. 97	1. 89 2. 77 3. 12 2. 15 3. 36	1, 78 2, 73 3, 11 1, 57 3, 30	
1960 1961 1962 1963 1964	2.378 2.778 3.157	3. 99 3. 60 3. 57 3. 72 4. 06	4. 01 3. 90 3. 95 4. 00 4. 15	4. 41 4. 35 4. 33 4. 26 4. 40	5. 19 5. 08 5. 02 4. 86 4. 83	3.73 3.46 3.18 3.23 3.22	5. 16 4. 97 5. 00 5. 01 4. 99	3. 85 2. 97 3. 26 3. 55 3. 97	3. 53 3. 00 3. 00 3. 23 3. 55	3. 22 1. 96 2. 68 3. 18 3. 50	 5, 93 5, 86
1965 1966 1967 1968 1968	4. 881 4. 321 5. 339	4. 22 5. 16 5. 07 5. 59 6. 85	4. 21 4. 66 4. 85 5. 25 6. 10	4. 49 5. 13 5. 51 6. 18 7. 03	4.87 5.67 6.23 6.94 7.81	3. 27 3. 82 3. 98 4. 51 5. 81	5.06 6.00 8 6.00 6.68 8.21	4.38 5.55 5.10 5.90 7.83	4. 04 4. 50 4. 19 5. 17 5. 87	4.07 5.11 4.22 5.66 8.22	5.81 6.25 6.46 6.97 7.81
1970 1971 1972 1973 1974	4 348	7.37 5.77 5.85 6.92 7.81	6.59 5.74 5.63 6.30 6.99	8.04 7.39 7.21 7.44 8.57	9. 11 8. 56 8. 16 8. 24 9. 50	6.51 5.70 5.27 5.18 6.09	8. 48 8 6. 32 5. 82 8. 30 11. 28	7.72 5.11 4.69 8.15 9.87	5. 95 4. 88 4. 50 6. 45 7. 83	7. 17 4. 67 4. 44 8. 74 10. 51	8.45 7.74 7.60 7.95 8.92
1975 1976 1977	5.838 4.989 5.265	7.55 6.94 6.85	6.98 6.78 7.06	8.83 8.43 8.02	10.61 9.75 8.97	6.89 6.49 5.56	8.65 7.52	6.33 5.35 5.60	6.25 5.50 5.46	5.82 5.05 5.54	9, 01 8, 99 9, 01

[Percent per annum]

See next page for continuation of table and for footnotes.

TABLE	B-65Bond	yields and interest rates,	1929–77-Continued
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(Percent)	per annum]	

	U.S. Gov	ernment s	securities	l bò	orate nds edy's)	High- grade munic-	Average rate on short-	Prime com- mer-	Dis- count rate,	Federal	New- home mort-
Year or month	3-month Treas- ury bills 1	3–5 year issues 2	Taxable bonds ³	Aaa	Baa	ipal bonds (Stand- ard & Poor's)	term bank loans to busi- ness	cial paper, 4–6 months	Federal Reserve Bank of New York 4	funds rate \$	gage yields (FHLBB) (*)
1975: Jan Feb Mar Apr May June	5.583 5.544 5.694	7.29 6.85 7.00 7.76 7.49 7.26	6.68 6.61 6.73 7.03 6.99 6.86	8.62 8.67 8.95 8.90	10. 81 10. 65 10. 48 10. 58 10. 69 10. 62	6.66 6.30 6.61 6.83 6.81 6.76	9.94	7.30 6.33 6.06 6.15 5.82 5.79	734-714714-684634-614614-614614-66-6	7.13 6.24 5.54 5.49 5.22 5.55	9. 33 9. 12 9. 06 8. 96 8. 90 8. 90 8. 96
July Aug Sept Oct Nov Dec	6.463	7.72 8.12 8.22 7.80 7.51 7.50	6.89 7.06 7.29 7.29 7.21 7.17	8.95 8.95 8.86 8.78	10, 55 10, 59 10, 61 10, 62 10, 56 10, 56	6.94 7.02 7.23 7.22 7.21 7.06	8.22 8.29	6.44 6.70 6.86 6.48 5.91 5.97	999999 99999 99999	6. 10 6. 14 6. 24 5. 82 5. 22 5. 20	8. 89 8. 89 8. 94 9. 01 9. 01 9. 01
1976: Jan Feb Mar Apr May June	4.852 5.047 4.878	7.18 7.18 7.25 6.99 7.35 7.40	6.94 6.92 6.87 6.73 6.99 6.92	8.60 8.55 8.52 8.40 8.58 8.62	10.41 10.24 10.12 9.54 9.86 9.89	6.80 6.91 6.86 6.62 6.87 6.85	7.54	5.27 5.23 5.37 5.23 5.54 5.94	$\begin{array}{c} 6 & -51_2 \\ 51_2 - 51_2 \\ 51_2 - 51_2 \\ 51_2 - 51_2 \\ 51_2 - 51_2 \\ 51_2 - 51_2 \\ 51_2 - 51_2 \end{array}$	4.77	8. 99 8. 93 8. 93 8. 92 8. 97 8. 89
July Aug Sept Oct Nov Dec	5.153	7.24 7.04 6.84 6.50 6.35 5.\$6	6.85 6.79 6.70 6.65 6.62 6.39	8. 56 8. 45 8. 38 8. 32 8. 25 7. 98	9.82 9.64 9.40 9.29 9.23 9.12	6, 64 6, 28 6, 20 6, 06 6, 05 5, 69	7.80	5.67 5.47 5.45 5.22 5.05 4.70	$\begin{array}{c} 5\frac{1}{2}-5\frac{1}{2}\\ 5\frac{1}{2}-5\frac{1}{2}\\ 5\frac{1}{2}-5\frac{1}{2}\\ 5\frac{1}{2}-5\frac{1}{2}\\ 5\frac{1}{2}-5\frac{1}{4}\\ 5\frac{1}{4}-5\frac{1}{4}\end{array}$	5, 31 5, 29 5, 25 5, 03 4, 95 4, 65	8. 97 9. 02 9. 08 9. 07 9. 05 9. 10
1977: Jan Feb Mar Apr May June	4.662 4.613 4.540	6.49 6.69 6.73 6.58 6.76 6.58	6.68 7.15 7.20 7.14 7.17 6.99	7.96 8.04 8.10 8.04 8.05 7.95	9.08 9.12 9.12 9.07 9.01 8.91	5.70 5.75 5.76 5.61 5.64 5.53	⁸ 7. 48 7. 37	4, 74 4, 82 4, 87 4, 87 5, 35 5, 49	$\begin{array}{c} 51_{4} - 51_{4} \\ 51_{4} - 51_{4} \\ 51_{4} - 51_{4} \\ 51_{4} - 51_{4} \\ 51_{4} - 51_{4} \\ 51_{4} - 51_{4} \\ 51_{4} - 51_{4} \\ 51_{4} - 51_{4} \end{array}$	4.61 4.68 4.69 4.73 5.35 5.39	9. 05 8. 99 8. 95 8. 94 8. 96 8. 98
July Aug Sept Oct Nov Dec	5.500 5.770 6.188	6.67 6.90 6.92 7.23 7.28 7.40	6.97 7.00 6.94 7.08 7.14 7.23	7.94 7.98 7.92 8.04 8.08 8.19	8.87 8.82 8.80 8.89 8.95 8.95 8.99	5. 50 5. 46 5. 37 5. 53 5. 38 5. 48	7.87	6.17	$5^{1}_{4} - 5^{1}_{4}$ $5^{1}_{4} - 5^{3}_{4}$ $5^{3}_{4} - 5^{3}_{4}$ $5^{3}_{4} - 6$ $6 - 6$ $6 - 6$ $6 - 6$	5. 42 5. 90 6. 14 6. 47 6. 51 6. 56	9.00 9.02 9.04 9.07 9.07 9.08

Rate on new issues within period. First issued in December 1929.
 Selected note and bond issues.
 First issued in 1941. Series includes bonds which are neither due nor callable before a given number of years as follows: April 1953 to date, 10 years; April 1952–March 1953, 12 years; November 1941–March 1952, 15 years.
 Average effective rate for the year; opening and closing rate for the month.
 Based on seven-day averages of daily effective rates for weeks ending Wednesday. 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.
 Effective rate (in the primary market) on conventional morteages reflecting fees and charces er well as contract rate.

^e Effective rate (in the primary market) on conventional mortgages, reflecting fees and charges as well as contract rate and assumed, on the average, repayment at end of 10 years. Rates beginning January 1973 not strictly comparable with

and assumed, on the average, reparation, at the property of the second s

Sources: Department of the Treasury, Board of Governors of the Federal Reserve System, Federal Home Loan Bank Board (FHLBB), Moody's Investors Service, and Standard & Poor's Corporation.

					Revo	lving	
Year or month	Total	Auto- mobile	Mobile home	Home improve- ment	Bank credit card	Bank check credit	Ali other
Extensions: 1971	123, 826 137, 117 157, 863 157, 200 164, 169 193, 328 225, 974	35, 820 42, 700 48, 399 45, 429 51, 413 62, 988 72, 946	2, 630 5, 122 7, 061 5, 782 4, 323 4, 841 5, 272	3, 170 4, 126 4, 771 5, 211 5, 556 6, 738 8, 110	8, 377 10, 390 13, 863 17, 098 20, 428 25, 862 31, 563	2, 026 2, 489 3, 373 4, 227 4, 024 4, 783 5, 877	71, 803 72, 289 80, 396 79, 453 78, 425 88, 117 102, 202
1976: Jan	15, 332	5, 079	441	519	1, 916	361	7, 017
Feb	15, 762	5, 153	421	536	2, 009	364	7, 279
Mar	15, 693	5, 255	435	545	2, 086	361	7, 011
Apr.	15, 425	5, 233	385	557	2, 001	369	6, 881
May	15, 616	5, 223	372	534	2, 106	385	6, 996
June	15, 989	5, 245	410	541	2, 105	398	7, 290
July.	15, 796	5, 097	399	547	2, 185	404	7, 164
Aug.	16, 118	5, 204	380	560	2, 209	419	7, 345
Sept.	16, 420	5, 298	393	584	2, 211	394	7, 539
Oct.	15, 844	4, 834	361	549	2, 266	421	7, 412
Nov.	16, 712	5, 312	403	622	2, 260	430	7, 686
Dec.	17, 677	5, 869	470	624	2, 297	441	7, 977
1977: Jan	17, 241	5, 511	372	571	2, 182	465	8, 139
Feb	17, 595	5, 819	383	577	2, 408	465	7, 942
Mar	18, 496	6, 199	445	648	2, 406	475	8, 323
Apr	18, 784	6, 106	479	668	2, 576	475	8, 480
May	18, 503	6, 048	415	636	2, 621	506	8, 277
June	18, 810	6, 063	420	686	2, 640	521	8, 480
July	18, 631	5, 966	455	671	2, 566	499	8, 476
	19, 204	6, 158	479	733	2, 711	510	8, 612
	19, 164	6, 109	424	679	2, 847	485	8, 620
	19, 787	6, 083	457	718	2, 973	487	9, 067
	19, 680	6, 330	464	761	2, 828	492	8, 804
	20, 079	6, 554	479	762	2, 805	497	8, 982
Liquidations : 1971	113, 784 121, 926 138, 156 147, 920 156, 665 172, 795 195, 115	31, 614 37, 188 42, 642 44, 929 48, 406 52, 750 59, 526	1, 753 2, 966 4, 182 4, 715 4, 517 4, 691 4, 862	2, 939 3, 396 3, 572 4, 117 4, 675 5, 151 6, 105	7, 679 9, 472 12, 433 15, 655 19, 208 24, 012 28, 910	1, 901 2, 175 2, 894 3, 684 4, 010 4, 552 5, 235	67, 898 66, 729 72, 434 74, 821 75, 849 81, 638 90, 479
1976: Jan	14, 001	4, 132	398	390	1, 854	358	6, 869
Feb	14, 000	4, 194	413	405	1, 858	367	6, 763
Mar	13, 989	4, 264	390	407	1, 903	361	6, 664
Apr	13, 514	4, 205	372	429	1, 844	359	6, 306
May	13, 855	4, 191	360	387	1, 921	363	6, 632
June	14, 454	4, 456	395	415	2, 003	399	6, 786
July	14, 349	4, 389	391	432	2, 002	369	6, 766
Aug	14, 589	4, 451	379	443	2, 092	401	6, 823
Sept	14, 589	4, 532	407	450	2, 007	356	6, 836
Oct	14, 753	4, 500	386	469	2, 095	383	6, 920
Nov	15, 077	4, 630	406	459	2, 148	403	7, 031
Dec	15, 236	4, 667	385	463	2, 228	415	7, 078
1977: Jan	15, 084	4, 712	393	463	2, 176	421	6, 921
Feb	15, 610	4, 801	412	478	2, 201	420	7, 297
Mar	15, 525	4, 816	391	480	2, 142	422	7, 274
Apr	15, 886	4, 901	414	480	2, 298	415	7, 379
May	15, 849	4, 801	421	502	2, 430	402	7, 292
June	16, 388	5, 100	386	505	2, 403	431	7, 564
July	16, 167	4, 897	397	506	2, 382	459	7, 525
	16, 553	5, 104	424	551	2, 396	450	7, 628
	16, 814	5, 005	392	536	2, 567	436	7, 877
	17, 160	5, 234	413	517	2, 587	430	7, 880
	16, 826	5, 089	390	550	2, 585	466	7, 747
	17, 253	5, 066	429	537	2, 643	483	8, 095

TABLE B-66.-Instalment credit extensions and liquidations, 1971-771 [Millions of dollars; monthly data seasonally adjusted]

Excludes 30-day charge credit held by retailers, oil and gas companies, and travel and entertainment companies.
 Preliminary; December by Council of Economic Advisers.

Note.—Consumer instalment credit consists of short- and intermediate-term credit extended through regular business channels to finance the purchase of goods and services for personal consumption, or to refinance debts incurred for such purposes, and scheduled to be repaid in two or more instalments. Mortgage credit is excluded.

Source: Board of Governors of the Federal Reserve System (except as noted).

TABLE B-67.—Mortgage debt outstanding by type of property and of financing, 1939-77

[Billions of dollars]

			ľ	lonfarm p	roperties		Na	infarm pi	operties	by type o	e of mortgage		
							Gove	ernment	underwri	tten	Conven	tional ²	
End of year or quarter	All prop- erties	Farm prop- erties	Total	1- to 4- family	Multi- family prop-	Com- mer- cial		1- to 4	-family	touses		1- to 4-	
				houses	erties	prop- erties ¹	Total	Total	FHA in- sured	VA guar- anteed	Total	family houses	
1939	35. 5	6.6	28. 9	16. 3	5.6	7.0	1.8	1.8	1.8		27.1	14.5	
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	
1943	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	18.9	8.6	10.3	44.6	26. 3	
1951	82.3	6.7	75.6	51. 7	11.5	12.5	26. 6	22.9	9.7	13.2	49.0	28. 8	
1952	91.4	7.2	84.2	58. 5	12.3	13.4	29. 3	25.4	10.8	14.6	54.9	33. 1	
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	69.2	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	55.1	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	154.7	23.0	36.4	65.6	59.1	29.5	29.6	148.5	95.6	
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	410.9	27.4	383. 5	264.8	47.3	71.4	93.4	84.4	50.6	33. 8	290. 1	180.4	
1969	441.4	29.2	412. 2	282.8	52.3	77.1	100.2	90.2	54.5	35. 7	312. 0	192.7	
1970	474. 2	30. 3	443. 8	298. 1	60. 1	85.6	109. 2	97.3	59.9	37. 3	334.6	200. 8	
1971	526. 5	32. 2	494. 3	328. 3	70. 1	95.9	120. 7	105.2	65.7	39. 5	373.5	223. 1	
1972	603. 4	35. 8	567. 7	372. 2	82. 8	112.7	131. 1	113.0	68.2	44. 7	436.5	259. 2	
1973	682. 3	41. 3	641. 1	416. 2	93. 1	131.7	135. 0	116.2	66.2	50. 0	506.0	300. 0	
1974	742. 5	46. 3	696. 2	449. 4	100. 0	146.9	140. 2	121.3	65.1	56. 2	556.0	328. 1	
1975	801. 5	50.9	750.7	490. 8	100.6	159.3	147.0	127.7	66. 1	61.6	613.7	363.0	
1976	889. 1	57.1	832.0	556. 3	104.3	171.4	154.1	133.5	66. 5	67.0	677.9	422.8	
1975: I II III IV	768.5		704.6 719.3 735.1 750.7	454. 6 466. 6 479. 2 490. 8	100.6 100.6 100.6 100.6	149. 4 152. 1 155. 3 159. 3	142.0 142.9 145.0 147.0	123.3 123.7 125.7 127.7	65.5 65.8 65.9 66.1	57.7 58.0 59.8 61.6	562, 6 576, 4 590, 1 603, 7	331. 3 342. 9 353. 5 363. 0	
1976: I 1 V	840.6	53.8	766. 2 786. 8 810. 3 832. 0	503. 3 519. 8 538. 8 556. 3	101. 8 102. 9 103. 9 104. 3	161. 2 164. 1 167. 5 171. 4	148.3 150.5 150.8 154.1	129. 1 131. 2 131. 2 133. 5	66. 2 67. 1 66. 4 66. 5	62.9 64.1 64.8 67.0	617.9 636.3 659.5 677.9	374.2 388.7 407.7 422.8	
1977 : 	947.1	61.8	852. 1 885. 3 919. 4	572. 7 599. 2 626. 3	105.0 106.7 108.6	174.4 179.4 184.4	155. 7 158.7 161.5	134. 9 137. 4 139. 8	66. 9 67. 8 67. 9	68. 0 69. 6 71. 9	696. 4 726. 6 757. 9	437.8 461.8 486.5	

¹ Includes negligible amount of farm loans held by savings and loan associations. ³ Derived figures.

Source: Board of Governors of the Federal Reserve System, estimated and compiled from data supplied by various Government and private organizations.

TABLE B-68.-Mortgage debt outstanding by holder, 1939-77

[Billions of dollars]

	1		Major f	inancial insti	tutions		Other I	olders
End of year or quarter	Total	Total	Savings and Ioan associa- tions	Mutual savings banks	Com- mercial banks ¹	Life insurance com- panies	Federal and related agencies ³	Indi- viduals and others
1939	35, 5	18.6	3.8	4.8	4, 3	5,7	5.0	11.9
1940	36.5	19.5	4, 1	4.9	4.6	6.0	4.9	12.0
1941	37.6	20.7	4, 6	4.8	4.9	6.4	4.7	12.2
1942	36.7	20.7	4, 6	4.6	4.7	6.7	4.3	11.7
1943	35.3	20.2	4, 6	4.4	4.5	6.7	3.6	11.5
1944	34.7	20.2	4, 8	4.3	4.4	6.7	3.0	11.5
1945 1946 1947 1948 1948 1949	35, 5 41, 8 48, 9 56, 2 62, 7	21. 0 26. 0 31. 8 37. 8 42. 9	5.4 7.1 8.9 10.3 11.6	4.2 4.4 4.9 5.8 6.7	4.8 7.2 9.4 10.9 11.6	6.6 7.2 8.7 10.8 12.9	2.4 2.0 1.8 1.8 2.3	12 1 13.8 15.3 16.6 17.5
1950	72.8	51, 7	13.7	8.3	13.7	16. 1	2.8	18.4
1951	82.3	59, 5	15.6	9.9	14.7	19. 3	3.5	19.3
1952	91.4	66, 9	18.4	11.4	15.9	21. 3	4.1	20.4
1953	101.3	75, 1	22.0	12.9	16.9	23. 3	4.6	21.7
1954	113.7	85, 7	26.1	15.0	18.6	26. 0	4.8	23.2
1955	129.9	99, 3	31. 4	17.5	21.0	29.4	5.3	25. 3
1956	144.5	111, 2	35. 7	19.7	22.7	33.0	6.2	27. 1
1957	156.5	119, 7	40. 0	21.2	23.3	35.2	7.7	29. 1
1958	171.8	131, 5	45. 6	23.3	25.5	37.1	8.0	32. 3
1959	190.8	145, 5	53. 1	25.0	28.1	39.2	10.2	35. 1
1960	207.5	157.6	60. 1	26. 9	28, 8	41.8	11.5	38, 4
1961	228.0	172.6	68. 8	29. 1	30, 4	44.2	12.2	43, 1
1962	251.4	192.5	78. 8	32. 3	34, 5	46.9	12.6	46, 3
1963	278.5	217.1	90. 9	36. 2	39, 4	50.5	11.8	49, 5
1964	305.9	241.0	101. 3	40. 6	44, 0	55.2	12.2	52, 7
1965	333.3	264. 6	110. 3	44.6	49.7	60. 0	13.5	55. 2
1966	356.5	280. 8	114. 4	47.3	54.4	64. 6	17.5	58. 2
1967	381.2	298. 8	121. 8	50.5	59.0	67. 5	20.9	61. 4
1968	410.9	319. 9	130. 8	53.5	65.7	70. 0	25.1	65. 9
1969	441.4	339. 1	140. 2	56.1	70.7	72. 0	31.1	71. 2
1970	474.2	355, 9	150. 3	57.9	73.3	74. 4	38. 3	79, 9
1971	526.5	394, 2	174. 3	62.0	82.5	75. 5	46. 4	85, 9
1972	603.4	450, 0	206. 2	67.6	99.3	76. 9	54. 6	98, 9
1973	682.3	505, 4	231. 7	73.2	119.1	81. 4	64. 8	112, 2
1974	742.5	542, 6	249. 3	74.9	132.1	86. 2	82. 1	117, 8
1975	801.5	581. 2	278.6	77. 2	136, 2	89. 2	101. 0	119.3
1976	889.1	647. 7	323.1	81. 6	151, 3	91. 6	116. 6	124.9
1975: H	752. 2	546. 7	252. 4	75.2	131, 9	87. 2	86.3	119.2
H	768. 5	558. 1	261. 3	75.8	133, 0	88. 0	91.0	119.4
HI	785. 3	569. 9	270. 5	76.5	134, 5	88. 3	95.9	119.5
IV	801. 5	581. 2	278. 6	77.2	136, 2	89. 2	101.0	119.3
1976: I	818. 4	593. 2	286. 3	77. 9	139.6	89. 4	105.0	120. 2
II	840. 6	611. 5	299. 3	78. 8	143.7	89. 7	107.3	121. 8
III	865. 7	630. 1	311. 8	80. 2	147.8	90. 2	112.3	123. 4
IV	889. 1	647. 7	323. 1	81. 6	151.3	91. 6	116.6	124. 9
1977: I	911. 3	662.4	333.7	82. 3	154.6	91. 8	121.5	127. 4
II	947. 1	688.8	350.8	84. 1	161.1	92. 9	127.0	131. 3
III	983. 2	715.2	367.0	86. 1	168.5	93. 6	133.5	134. 5

¹ Includes Ioans held by nondeposit trust companies, but not by bank trust departments. ² Includes former Federal National Mortgage Association (FMMA) and new Government National Mortgage Association (GMMA), as well as Federal Housing Administration, Veterans Administration, Public Housing Administration, Farmers Home Administration, and in earlier years Reconstruction Finance Corporation, Homeowners Loan Corporation, and Federal Farm Mortgage Corporation. Also includes GMMA Pools and U.S.-sponsored agencies such as new FMMA, Federal Land Banks, and Federal Home Loan Mortgage Corporation. Other U.S. agencies (amounts small or current separate data not readily available) included with "individuals and others."

Source: Board of Governors of the Federal Reserve System, based on data from various Government and private organizations.

'TABLE B-69 .- Net public and private debt, 1929-761

[Billions of dollars]

			Public					Priv	ate			
			Fed-	State			inc	lividual a	nd uninc			rise
End of year	Total	erai spon Gov- sore ern- cred ment ³ agen	erally spon- sored credit agen- cies ³	and local gov- ern- ments	Total	Cor- porate	Total	Farm 4	Total	Mort- gage	d enterpri farm Com- cial and finan- cial = 22.4 11.7 9.8 9.5 10.0 8.9 11.8 14.7 12.9 13.9 15.8 16.2 17.8 16.4 26.5 28.7 17.8 16.5 28.7 17.9 83.4 83.4 83.7 17.0 83.8 83.4 83.7 17.0 83.8 83.4 83.7 17.0 83.8 83.4 83.7 17.0 83.8 86.1 1.1 15.5 1.5 1	Con- sumer
1929	191.9	16.5		13.6	161.8	88.9	72.9	12.2	60.7	31. 2	22.4	7.1
1933	168.5	24.3		16.3	127.9	76.9	51.0	9.1	41.9	26.3	11.7	3.9
1939	183. 3	42.6		16.4	124. 3	73.5	50.8	8. 8	42.0	25.0	9.8	7.2
1940	211.4	44.8 56.3 101.7 154.4 211.9		16.4 16.1 15.4 14.5 13.9	128.6 139.0 141.5 144.3 144.8	75.6 83.4 91.6 95.5 94.1	53.0 55.6 49.9 48.8 50.7	9.1 9.3 9.0 8.2 7.7	43.9 46.3 40.9 40.5 42.9	26. 1 27. 1 26. 8 26. 1 26. 0	10.0 8.1 9.5	8.3 9.2 6.0 4.9 5.1
1945 1946 1947 1948 1948	405.9 396.6 415.7 431.3 445.8	252.5 229.5 221.7 215.3 217.6	0.7 .6 .7	13.4 13.7 15.0 17.0 19.1	140.0 153.4 178.3 198.4 208.4	85.3 93.5 108.9 117.8 118.0	54.7 59.9 69.4 80.6 90.4	7.3 7.6 8.6 10.8 12.0	47.4 52.3 60.7 69.7 78.4	27.0 31.8 37.2 42.4 47.1	12.1 11.9 12.9	5.7 8.4 11.6 14.4 17.4
1950	519.2 550.2	217.4 216.9 221.5 226.8 229.1	.7 1.3 1.3 1.4 1.3	21.7 24.2 27.0 30.7 35.5	246. 4 276. 8 300. 4 322. 7 340. 0	142.1 162.5 171.0 179.5 182.8	104.3 114.3 129.4 143.2 157.2	12.3 13.7 15.2 16.8 17.5	92.0 100.6 114.2 126.4 139.7	54.8 61.7 68.9 76.7 86.4	16.2 17.8 18.4	21. 9 22. 7 27. 9 31. 4 32. 9
1955 1956 1957 1958 1958	698.4 728.3 769.6	229.6 224.3 223.0 231.0 241.4	2.9 2.4 2.4 2.5 3.7	41. 1 44. 5 48. 6 53. 7 59. 6	392. 2 427. 2 454. 3 482. 4 528. 3	212. 1 231. 7 246. 7 259. 5 283. 3	180. 1 195. 5 207. 6 222. 9 245. 0	18.7 19.4 20.2 23.2 23.8	161. 4 176. 1 187. 4 199. 7 221. 2	98.7 109.4 118.1 128.1 141.0	24.4 24.3 26.5	38, 8 42, 3 45, 0 45, 1 51, 9
1960	930.3 996.0 1,070.9	239.8 246.7 253.6 257.5 264.0	3.5 4.0 5.3 7.2 7.5	64.9 70.5 77.0 83.9 90.4	566. 1 609. 1 660. 1 722. 3 789. 7	302. 8 324. 3 348. 2 376. 4 409. 6	263.3 284.8 311.9 345.8 380.1	25.1 27.5 30.2 33.2 36.0	238.2 257.3 281.7 312.6 344.1	151.3 164.5 180.3 198.6 218.9	34.8 37.6 42.3	56, 58, (63, 1 71, 80, 1
1965 1966 1967 1968 1969	1, 252. 5 1, 349. 1 1, 450. 8 1, 596. 8 1, 753. 4	266. 4 271. 8 286. 4 291. 9 289. 3	8.9 11.2 9.0 21.5 30.6	98. 3 104. 7 112. 8 122. 7 133. 3	878. 9 961. 3 1, 042. 7 1, 160. 9 1, 300. 2	454, 3 506, 6 553, 6 631, 5 734, 1	424. 6 454. 7 489. 1 529. 3 566. 2	39.3 42.2 47.9 51.7 55.2	385.3 412.5 441.1 477.6 511.0	244. 3 260. 9 278. 2 298. 4 319. 8	55.4 62.2 68.5	89. 96. 100. 110. 121.
1970 1971 1972 1973 1974	1, 881. 9 2, 067. 3 2, 299. 8 2, 562. 3 2, 793. 5	301. 1 325. 9 341. 2 349. 1 360. 8	38. 8 39. 9 41. 4 59. 8 76. 4	144. 8 162. 7 178. 0 192. 3 211. 2	1, 397. 2 1, 538. 8 1, 739. 2 1, 961. 1 2, 145. 1	797. 3 871. 3 975. 3 1, 106. 7 1, 223. 0	600. 0 667. 5 763. 9 854. 4 922. 1	57.8 62.5 68.2 79.0 89.2	542. 1 604. 9 695. 8 775. 5 832. 9	344.9 389.3 448.7 510.4 561.0	77.0 89.8	127. 138. 157. 179. 188.
1975 1976	3, 028. 8	446.3	78.8	222.7	2, 281. 0 2, 521. 5	1, 286. 6	994. 4 1, 106. 8	98.2 108.5	896. 2 998. 3	612.8 684.1	86.2 96.4	197. 217.

Net public and private debt is a comprehensive aggregate of the indebtedness of borrowers after eliminating certain types of duplicating government and corporate debt.
 Net Federal Government, the outstanding debt held by the public, as defined in "The Budget of the United States Government, Fiscal Year 1979."
 Debt of agencies in which there is no longer any Federal proprietary interest. The obligations of the Federal land banks are included beginning with 1947, the debt of the Federal Intermediate credit banks, and beginning with 1951, and the debts of the Federal National Mortgage Association, Federal intermediate credit banks, and banks for cooperatives are included beginning with 1968.
 Farm mortgages and farm production loans. Farmers' financial and consumer debt is included in the nonfarm categories.
 Debt to banks (other than consumer credit), security credit, policy loans, and some single-payments loans.

Source: Department of Commerce (Bureau of Economic Analysis), based on data from various Federal agencies and ther sources.

GOVERNMENT FINANCE

TABLE B-70.-Federal budget receipts, outlays, and debt, fiscal years 1969-79

[Millions of dollars; fiscal years]

Description			Act	ual		
	1969	1970	1971	1972	1973	1974
BUDGET RECEIPTS AND OUTLAYS:						
Total receipts	187, 784	193, 743	188, 392	208, 649	232, 225	264, 932
Federal funds Trust funds Interfund transactions	143, 321 52, 009 7, 547	143, 158 59, 362 —8, 778	133, 785 66, 193 11, 586	148, 846 72, 959 —13, 156	161, 357 92, 193 21, 325	181, 219 104, 846 21, 133
Total outlays	184, 548	196, 588	211, 425	232, 021	247, 074	269, 620
Federal funds Trust funds Interfund transactions	148, 811 43, 284 —7, 547	156, 301 49, 065 8, 778	163, 651 59, 361 —11, 586	178, 104 67, 073 13, 156	186, 951 81, 447 21, 325	199, 920 90, 833 21, 133
Total surplus or deficit (-)	3, 236	-2, 845	-23, 033	-23, 373	-14, 849	-4, 688
Federal funds Trust funds	-5, 490 8, 725	-13, 143 10, 297	-29, 866 6, 832	29, 259 5, 886	25, 594 10, 746	-18, 701 14, 01 3
OUTSTANDING DEBT, END OF PERIOD:						
Gross Federal debt	367, 144	382, 603	409, 467	437, 329	468, 426	486, 247
Held by Government agencies	87, 661 279, 483	97, 723 284, 880	105, 140 304, 328	113, 559 323, 770	125, 381 343, 045	140, 194 346, 05 3
Federal Reserve System Other	54, 095 225, 388	57, 714 227, 166	65, 518 238, 810	71, 426 252, 344	75, 182 267, 863	80, 649 265, 404
BUDGET RECEIPTS	187, 784	193, 743	188, 392	208, 649	232, 225	264, 932
Individual income taxes Corporation income taxes Social insurance taxes and contributions Excise taxes Estate and gift taxes Customs duties Miscellaneous receipts	87, 249 36, 678 39, 918 15, 222 3, 491 2, 319	90, 412 32, 829 45, 298 15, 705 3, 644 2, 430	86, 230 26, 785 48, 578 16, 614 3, 735 2, 591	94, 737 32, 166 53, 914 15, 477 5, 436 3, 287	103, 246 36, 153 64, 542 16, 260 4, 917 3, 188	118, 952 38, 620 76, 780 16, 844 5, 035 3, 334
Deposits of earnings by Federal Re- serve System	2, 662 247	3, 266 158	3, 533 325	3, 252 381	3, 495 426	4, 845 524
BUDGET OUTLAYS	184, 548	196, 588	211, 425	232, 021	247, 074	269, 620
National defense International affairs General science, space, and technology Energy Natural resources and environment Agriculture Commerce and housing credit Transportation Community and regional development Education, training, employment, and social	79, 418 4, 573 5, 016 1, 001 2, 848 5, 779 533 6, 531 1, 545	78, 553 4, 295 4, 508 990 3, 003 5, 164 2, 077 7, 013 2, 395	75, 808 4, 092 4, 180 1, 031 3, 855 4, 288 2, 339 8, 057 2, 846	76, 550 4, 674 4, 174 1, 270 4, 195 5, 279 2, 206 8, 395 3, 413	74, 541 4, 036 4, 030 1, 180 4, 714 4, 855 860 9, 070 4, 593	77, 750 5, 640 3, 977 843 5, 664 2, 230 3, 920 9, 176 4, 084
services Health	7, 538 11, 758 37, 281 7, 640 761 1, 649 430 15, 793	8, 624 13, 051 43, 066 8, 677 952 1, 940 536 18, 312	9, 839 14, 716 55, 423 9, 776 1, 299 2, 159 535 19, 609	12, 519 17, 471 63, 911 10, 730 1, 650 2, 466 673 20, 582	12, 735 18, 832 72, 958 12, 013 2, 131 2, 682 7, 351 22, 813	12, 344 22, 074 84, 431 13, 386 2, 462 3, 327 6, 890 28, 072
Allowances Undistributed offsetting receipts Composition of undistributed offsetting re-	-5, 545	6, 567	-8, 427	8, 137	-12, 318	- 16, 651
ceipts: Employer share, employee retirement Interest received by trust funds Rents and royalties on the Outer Conti- nental Shelf	-2, 018 -3, 099 -428	2, 444 3, 936 187	-2, 611 -4, 765 -1, 051	2, 768 5, 089 279	-2, 927 -5, 436 -3, 956	3, 319 6, 583 6, 748

See next page for continuation of table and for footnotes.

Description		Actual			Estir	nate
Description	1975	1976	Transition quarter	1977	1978	1979
BUDGET RECEIPTS AND OUTLAYS:						
Total receipts	280, 99 7	299, 197	81, 687	356, 861	400, 387	439, 588
Federal funds Trust funds Interfund transactions	187, 505 118, 590 25, 098	200, 291 133, 695 34, 789	53, 999 32, 071 4, 383	240, 412 152, 763 36, 313	267, 889 168, 490 35, 992	289, 095 187, 991 37, 497
Total outlays	326, 092	365, 643	94, 657	401, 902	462, 234	500, 174
Federal funds Trust funds Interfund transactions	240, 018 111, 171 25, 098	269, 146 131, 286 34, 789	65, 017 34, 023 4, 383	294, 948 143, 267 36, 313	340, 036 158, 190 35, 992	363, 580 174, 092 37, 497
Total surplus or deficit (-)	-45, 095	-66, 446	-12, 970	-45, 040	-61, 847	-60, 586
Federal funds	52, 514 7, 419	68, 855 2, 410	-11, 018 -1, 952	54, 536 9, 496	-72, 147 10, 300	74, 485 13, 899
OUTSTANDING DEBT, END OF PERIOD: Gross Federal debt	544, 131	631,866	646, 379	709, 138	785, 583	873, 668
Held by Government agencies Held by the public	147, 225 396, 906	151, 566 480, 300	148,052 498,327	157, 295 551, 843	167, 740 617, 843	182, 826 690, 843
Federal Reserve System	84, 993 311, 913	94, 714 385, 586	96, 702 401, 625	105, 004 446, 839		
BUDGET RECEIPTS	280, 997	299, 197	81, 687	356, 861	400, 387	439, 588
Individual income taxes. Corporation income taxes. Social insurance taxes and contributions. Excise taxes. Estate and gift taxes. Customs duties. Miscellaneous receipts: Deposits of earnings by Federal Reserve System	16, 551 4, 611 3, 676	130, 794 41, 409 92, 714 16, 963 5, 216 4, 074	38, 715 8, 460 25, 760 4, 473 1, 455 1, 212 1, 500	156, 725 54, 892 108, 688 17, 548 7, 327 5, 150	178, 828 58, 949 124, 122 20, 150 5, 618 5, 792 6, 200	190, 077 62, 487 141, 889 25, 475 6, 067 6, 390 6, 300
System All other	934	5, 451 2, 575	112	5, 908 622	728	6, 300 902
BUDGET OUTLAYS		365, 643	94, 657	401, 902	462, 234	500, 174
National defense International affairs General science, space, and technology Energy Natural resources and environment Agriculture Commerce and housing credit Transportation Community and regional development	6, 861 3, 989 2, 179 7, 329 1, 660 5, 604	89, 430 5, 567 4, 370 3, 127 8, 124 2, 502 3, 795 13, 438 4, 709	22, 307 2, 180 1, 161 794 2, 532 584 1, 391 3, 306 1, 340	97, 501 4, 831 4, 677 4, 172 10, 000 5, 526 31 14, 636 6, 283	107, 626 6, 747 4, 757 7, 837 12, 125 9, 106 3, 523 16, 310 9, 694	117, 779 7, 691 5, 077 9, 634 12, 222 5, 433 2, 969 17, 399 8, 669
Transportation Community and regional development. Education, training, employment, and social services. Health. Income security. Veterans benefits and services. Administration of justice. General government General purpose fiscal assistance. Interest	15, 870 27, 647 108, 605 16, 597 2, 942 3, 089 7, 187 30, 974	18, 737 33, 448 126, 598 18, 432 3, 320 2, 927 7, 235 34, 589	5, 162 8, 720 32, 710 3, 962 859 878 2, 092 7, 246	20, 985 38, 785 137, 004 18, 038 3, 600 3, 357 9, 499 38, 092	27, 471 44, 261 147, 640 18, 916 4, 019 4, 119 9, 860 43, 841	30, 421 49, 677 160, 024 19, 257 4, 211 4, 304 9, 636 48, 991 2, 800
Allowances Undistributed offsetting receipts Composition of undistributed offsetting	-14, 075	-14, 704	-2, 567	- 15, 053	-15, 619	-16, 021
receipts: Employer share, employee retirement. Interest received by trust funds Rents and royalties on the Outer Con- tinental Shelf		-4, 242 7, 800 -2, 662	1	4, 548 8, 131 2, 374	5, 024 8, 595 2, 000	-5, 157 -9, 064 -1, 800

TABLE B-70.—Federal budget receipts, outlays, and debt, fiscal years 1969-79—Continued [Millions of dollars; fiscal years]

Note.—Through fiscal year 1976, the fiscal year runs from July 1 through June 30; starting in October 1976 (fiscal year 1977), the fiscal year runs from October 1 through September 30. The period July 1, 1976 through September 30, 1976 is a separate fiscal period known as the transition quarter. Earned income credit payments in excess of an individual's taxable liability are classified as income tax refunds beginning 1976 and as outlays prior to 1976.

Sources: Department of the Treasury and Office of Management and Budget.

TABLE B-71.—Federal budget receipts and outlays, fiscal years	ABLE B-71Federa	al budget receipts	and outlays, f	iscal years	1929-79
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[Millions of dollars]

Fiscal year	Receipts	Outlays	Surplus or deficit (—)
1929	3, 862	3, 127	734
1933	1, 997	4, 598	2, 602
1939	4, 979	8, 841	3, 862
1940 1941 1942 1943 1944	6, 361 8, 621 14, 350 23, 649 44, 276	9, 456 13, 634 35, 114 78, 533 91, 280	3, 095 5, 013 20, 764 54, 884 47, 004
1945 1946 1947	45, 216 39, 327 38, 394 41, 774 39, 437	92, 690 55, 183 34, 532 29, 773 38, 834	47, 474 15, 856 3, 862 12, 001 603
950 951 952 953 954	39, 485 51, 646 66, 204 69, 574 69, 719	42, 597 45, 546 67, 721 76, 107 70, 890	3, 112 6, 100 1, 517 6, 533 1, 170
1955 1956 1957	65, 469 74, 547 79, 990 79, 636 79, 249	68, 509 70, 460 76, 741 82, 575 92, 104	3, 041 4, 087 3, 249 2, 939 12, 855
1960	92, 492 94, 389 99, 676 106, 560 112, 662	92, 223 97, 795 106, 813 111, 311 118, 584	269 3, 406 7, 137 4, 751 5, 922
1965 1966 1967	116, 833 130, 856 149, 552 153, 671 187, 784	118, 430 134, 652 158, 254 178, 833 184, 548	1, 596 3, 796 8, 702 25, 161 3, 236
1970 1971 1972 1973 1974	193, 743 188, 392 208, 649 232, 225 264, 932	196, 588 211, 425 232, 021 247, 074 269, 620	-2, 845 -23, 033 -23, 373 -14, 849 -4, 688
1975 1976 Transition quarter 1977 1 1978 1 1978 1	280, 997 299, 197 81, 687 356, 861 400, 387 439, 588	326, 092 365, 643 94, 657 401, 902 462, 234 500, 174	45,095 66,446 12,970 45,040 61,847 60,586

¹ Estimate.

Note.—Under provisions of the Congressional Budget Act of 1974, the fiscal year for the Federal Government shifted beginning with fiscal year 1977. Through fiscal year 1976, the fiscal year ran from July 1 through June 30; starting in October 1976 (fiscal year 1977), the fiscal year ran from October 1 through September 30. The 3-month period from July 1, 1976 through September 30, 1976 is a separate fiscal period known as the transition quarter. See Note, Table B-70 regarding treatment of earned income credit payment. Data for 1929-39 are according to the administrative budget and those beginning 1940 according to the unified budget. Certain interfund transactions are excluded from receipts and outlays. Refunds of receipts are excluded from receipts and outlays.

Sources: Department of the Treasury and Office of Management and Budget.

TABLE B-72.-Relation of the Federal budget to the Federal sector of the national income and product accounts, fiscal years 1977-79

Receipts and expenditures	1977	Estima	ite
		1978	1979
RECEIPTS Total budget receipts	356. 9	400. 4	439.6
Government contribution for employee retirement (grossing) Other netting and grossing Adjustment to accruals Other	6.4 3.7 1.9 1.0	7.1 3.9 .5 -1.1	7.5 4.4 1.1 -1.2
Federal sector, national income and product accounts, receipts	364.0	410. 8	451.4
EXPENDITURES Total budget outlays	401. 9	462.2	500, 2
Lending and financial transactions. Government contribution for employee retirement (grossing) Other netting and grossing Defense timing adjustment Bcnuses on Outer Continental Shelf land leases Other	1.3 6.4 3.7 2.7 1.5 -3.2	-7.1 7.1 3.9 .3 1.2 -4.0	4,7 7,5 4,4 2 .9 4,1
Federal sector, national income and product accounts, expenditures	411.8	463.6	504.0

[Billions of dollars; fiscal years]

Note —See Note, Table B-71. See Special Analysis A, "Special Analyses, Budget of the United States Government, Fiscal Year 1979" for description of these categories.

Sources: Department of Commerce (Bureau of Economic Analysis), Department of the Treasury, and Office of Manage-ment and Budget.

TABLE B-73. Receipts and expenditures of the government sector of the national income and product accounts, 1929-77

	Tota	al governi	nent	Fede	ral Gover	nment		ate and lo governmen	
Calendar year or quarter	Re- ceipts	Ex- pendi- tures	Sur- plus or deficit (-), national income and prod- uct ac- counts	Re- ceipts	Ex- pendi- tures	Sur- plus or deficit (-), national income and prod- uct ac- counts	Re- ceipts	Ex- pendi- tures	Sur- plus or deficit (-), national income and prod- uct ac- counts
1929	11.3	10. 3	1.0	3.8	2.6	1.2	7.6	7.8	-0.2
1933	9.3	10.7	-1.4	2.7	4.0	-1.3	7.2	7.2	1
1939	15.4	17.6	-2.2	6.7	8. 9	-2.2	9.6	9.6	.0
1940 1941 1942 1943 1944 1945 1946 1947 1948 1948	17.7 25.0 32.6 49.2 51.2 53.2 51.0 56.9 58.9 55.9	18. 4 28. 8 64. 0 93. 3 103. 0 92. 7 45. 6 42. 5 50. 5 59. 3	$\begin{array}{r}7 \\ -3.8 \\ -31.4 \\ -44.1 \\ -51.8 \\ -39.5 \\ 5.4 \\ 14.4 \\ 8.4 \\ -3.4 \end{array}$	8.6 15.4 22.9 39.3 41.0 42.5 39.1 43.2 43.2 38.7	10.0 20.5 56.1 85.8 95.5 84.6 35.6 29.8 34.9 41.3	$\begin{array}{c} -1.3 \\ -5.1 \\ -33.1 \\ -46.6 \\ -54.5 \\ -42.1 \\ 3.5 \\ 13.4 \\ 8.3 \\ -2.6 \end{array}$	10.0 10.4 10.6 10.9 11.1 11.6 13.0 15.4 17.7 19.5	9.3 9.1 8.8 8.4 8.5 9.0 11.1 14.4 17.6 20.2	.6 1.3 1.8 2.5 2.7 2.6 1.9 1.0 .1 7
1950 1951 1952 1953 1954 1955 1956 1957 1958 1958	0 0 0	61. 0 79. 2 93. 9 101. 6 97. 0 98. 0 104. 5 115. 3 127. 6 131. 0	8.0 6.1 3.8 6.9 7.1 3.1 5.2 .9 12.6 1.6	50. 0 64. 3 67. 3 70. 0 63. 7 72. 6 78. 0 81. 9 78. 7 89. 8	40. 8 57. 8 71. 1 77. 1 69. 8 68. 1 71. 9 79. 6 88. 9 91. 0	9.2 6.5 -3.7 -7.1 -6.0 4.4 6.1 2.3 -10.3 -1.1	21. 3 23. 4 25. 4 27. 4 29. 0 31. 7 35. 0 38. 5 42. 0 46. 4	22.5 23.9 25.5 27.3 30.2 32.9 35.9 39.8 44.3 46.9	$\begin{array}{r} -1.2 \\4 \\0 \\1 \\ -1.1 \\ -1.3 \\9 \\ -1.4 \\ -2.4 \\4 \end{array}$
1960	139.5 144.8 156.7 168.5 174.0 188.3 212.3 228.2 263.4 296.3	136. 4 149. 1 160. 5 167. 8 176. 3 187. 8 213. 6 242. 4 268. 9 285. 6	$\begin{array}{r} 3.1 \\ -4.3 \\ -3.8 \\ -2.3 \\ .7 \\ -2.3 \\ .5 \\ -1.3 \\ -14.2 \\ -5.5 \\ 10.7 \end{array}$	96. 1 98. 1 106. 2 114. 4 114. 9 124. 3 141. 8 150. 5 174. 7 197. 0	93. 1 101. 9 110. 4 114. 2 118. 2 123. 8 143. 6 163. 7 180. 6 188. 4	$\begin{array}{r} 3.0 \\ -3.9 \\ -4.2 \\ .3 \\ -3.3 \\ .5 \\ -1.8 \\ -13.2 \\ -5.8 \\ 8.5 \end{array}$	49.9 54.0 58.5 63.2 69.5 75.1 84.8 93.6 107.2 119.7	49.8 54.4 58.0 62.8 68.5 75.1 84.3 94.7 106.9 117.6	.1 4 .5 1.0 0 5 -1.1 .3 2.1
1970	302.6 322.2 367.4 411.2 455.1 468.0 535.9 600.8	311. 9 340. 5 370. 9 404. 9 458. 2 532. 3 571. 5 621. 2	$\begin{array}{r} -9.4 \\ -18.3 \\ -3.5 \\ 6.3 \\ -3.2 \\ -64.3 \\ -35.6 \\ -20.4 \end{array}$	192. 1 198. 6 227. 5 258. 3 288. 6 286. 9 332. 3 373. 9	204. 2 220. 6 244. 7 265. 0 299. 3 357. 1 386. 3 423. 5	$\begin{array}{r} -12.1 \\ -22.0 \\ -17.3 \\ -6.7 \\ -10.7 \\ -70.2 \\ -54.0 \\ -49.6 \end{array}$	134.9 152.6 177.4 193.5 210.4 235.7 264.7 294.5	132. 2 148. 9 163. 7 180. 5 202. 8 229. 8 246. 2 265. 3	2.8 3.7 13.7 13.0 7.6 5.9 18.4 29.2
1975: I II II IV	461. 1 433. 2 482. 3 495. 4	505. 9 527. 9 541. 2 554. 0	44. 9 94. 7 59. 0 58. 7	287. 4 255. 1 298. 2 307. 0	335.9 354.3 363.7 374.5	48.5 99.2 65.5 67.6	223. 7 231. 8 240. 8 246. 4	220. 0 227. 3 234. 2 237. 5	3.7 4.5 6.6 8.9
1976: I II III IV	513.7 530.7 543.0 556.5	560.7 564.0 575.4 586.0	-47. 1 33. 3 32. 4 29. 4	318.4 329.1 337.1 344.5	378. 7 375. 3 390. 6 400. 4	-60. 3 46. 2 53. 5 55. 9	253. 8 258. 4 269. 0 277. 5	240. 5 245. 5 247. 9 251. 1	13. 3 12. 9 21. 1 26. 5
1977: I II III IV P	583.9 595.7 602.2	595. 4 610. 5 628. 1 650. 7	11.5 14.9 26.0	364. 9 371. 2 373. 2	403. 7 411. 5 432. 1 446. 7	38, 8 40, 3 58, 9	281.0 288.1 301.6	253. 7 262. 6 268. 7 276. 2	27. 3 25. 4 32. 9

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

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-74.—Receipts and expenditures of the Federal Government sector of the national income and product accounts, 1952-79

			Receipts					E	xpendit	ures			Sur- plus
Year or quarter	Total	Per- sonal tax and non- tax re- ceipts	Corpo- rate profits tax ac- cruals	Indi- rect busi- ness tax and non- tax ac- cru- als	Con- tribu- tions for sociat insur- ance	Tota i 1	Pur- chases of goods and serv- ices		To for- eign- ers	Grants- in-aid to State and local govern- ments	Net in- ter- est paid	Subsi- dies less cur- rent sur- plus of gov- ern- ment enter- prises	or defi- cit (), na- tion- al in- come and prod- uct ac- counts
Fiscal year: 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1965 1965 1966 1968 1968 1970 1970 1971 1972 1973 1974 1975 1976 1978 1977 1978 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1978 1978 1979 1970 1979 197	69. 4 65. 8 67. 4 76. 3 81. 0 78. 1 85. 4 94. 8 95. 0 104. 0 110. 0 115. 6	28. 8 31. 4 29. 7 33. 6 36. 7 36. 3 38. 2 43. 6 50. 7 57. 5 43. 6 50. 7 57. 5 47. 1 49. 6 87. 5 51. 4 57. 5 47. 1 49. 6 87. 5 51. 4 51. 27. 3 100. 3 1127. 6 1127. 3 1137. 2 1185. 5 1195. 6	19.4 19.3 17.3 18.9 21.5 20.8 17.9 21.4 22.3 22.7 23.7 23.7 25.7 25.7 25.7 25.7 25.7 25.7 25.7 27.1 30.3 33.2 0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.2 0 34.2 41.5 7 41.5 7 41.5 7 1.5 7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.51.5 1.51.51.51.51.51.51.51.5	9.7710.7110.4 10.4110.0010.8 11.711.60113.2315.061915.5 15.5515.5515.6 15.5200.721.4224.6 220.092721.4224.6 224.6 224.6 224.6 224.6 224.6 224.6 234.8	$\begin{array}{c} \textbf{7.3}\\ \textbf{7.68}\\ \textbf{8.73}\\ \textbf{10.71}\\ \textbf{12.39}\\ \textbf{16.71}\\ \textbf{13.99}\\ \textbf{16.71}\\ \textbf{18.1}\\ \textbf{19.91}\\ \textbf{22.66}\\ \textbf{24.59}\\ \textbf{35.54}\\ \textbf{38.44}\\ \textbf{52.99}\\ \textbf{35.54}\\ \textbf{44.55}\\ \textbf{59.15}\\ \textbf{84.55}\\ \textbf{52.91}\\ \textbf{57.15}\\ \textbf{84.22}\\ \textbf{92.15}\\ \textbf{116.57}\\ \textbf{133.71}\\ \textbf{151.3} \end{array}$	66. 0 774, 3 67, 2 770, 0 82, 8 91, 2 91, 2 92,	47. 2 56. 9 44. 3 45. 5 48. 1 54. 8 52. 9 55. 8 61. 0 63. 7 2. 4 86. 0 95. 0 97. 0 91. 0 9	8.5 9.2 10.5 12.1 17.8 23.6 23.6 23.6 23.6 23.6 23.6 23.6 23.6	2.6 2.1 1.1 1.8 2.1 1.7 1.8 2.1 2.2 2.3 2.2 2.3 2.2 2.3 2.2 2.3 2.2 2.3 2.3	2.5 2.8 3.0 3.7 4.7 6.2 6.9 6.9 6.9 6.9 7.6 8.3 9.8 10.9 14.8 10.9 14.8 19.2 22.6 8 32.6 4 41.6 48.4 5.5 66.0 7.6 83.2 9.8 10.9 11.4 8 11.4 11.4	4.55 4.68 4.68 5.56 6.84 5.56 6.84 5.56 6.84 5.56 8.67 10.16 10.10	$\begin{array}{c} 0.8\\ .88\\ .27\\ .222\\ .233\\ .10\\ .222\\ .233\\ .10\\ .222\\ .233\\ .10\\ .222\\ .233\\ .10\\ .10\\ .10\\ .10\\ .10\\ .10\\ .10\\ .10$	$\begin{array}{c} -0.8\\ -6.5\\ -8.5\\ -8.5\\ -8.5\\ -8.5\\ -8.5\\ -8.5\\ -8.5\\ -8.5\\ -9.5\\ -9.5\\ -9.5\\ -9.5\\ -9.5\\ -9.5\\ -9.5\\ -5.2\\$
1952 1953 1954 1955 1956 1957 1958 1959 1950 1951 1952 1953 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1970 1971 1972 1974 1975 1977 1977	286.9 332.3 373.9	$\begin{array}{c} 31.0\\ 32.2\\ 29.04\\ 35.4\\ 35.4\\ 35.4\\ 35.4\\ 36.8\\ 39.9\\ 43.6\\ 51.6\\ 53.9\\ 61.7\\ 54.6\\ 92.9\\ 89.9\\ 21.1\\ 108.2\\ 108.2\\ 114.6\\ 131.1\\ 1125.6\\ 147.3\\ 170.7\\ \end{array}$	$18.6 \\ 19.5 \\ 16.9 \\ 20.40 \\ 22.5 \\ 22.5 \\ 22.5 \\ 22.5 \\ 22.5 \\ 22.5 \\ 22.5 \\ 22.5 \\ 22.5 \\ 23.4 \\ 30.3 \\ 33.5 \\ 43.9 \\ 33.5 \\ 43.9 \\ 55.5 \\ 59.5 \\$	$\begin{array}{c} 10.3\\ 9.7\\ 10.7\\ 11.8\\ 11.8\\ 12.4\\ 13.6\\ 14.6\\ 15.2\\ 16.5\\ 16.6\\ 19.3\\ 20.4\\ 21.7\\ 22.4\\ 23.4\\ 24.8\\ 24.8\\ \end{array}$	$\begin{array}{c} \textbf{7.4}\\ \textbf{7.4}\\ \textbf{8.2}\\ \textbf{9.4}\\ \textbf{10.6}\\ \textbf{12.3}\\ \textbf{12.4}\\ \textbf{9.12.4}\\ \textbf{14.6}\\ \textbf{12.3}\\ \textbf{12.4.9}\\ \textbf{17.6}\\ \textbf{13.3}\\ \textbf{20.5}\\ \textbf{23.1}\\ \textbf{24.0}\\ \textbf{33.7}\\ \textbf{40.8}\\ \textbf{47.0}\\ \textbf{754.98}\\ \textbf{49.7}\\ \textbf{54.98}\\ \textbf{79.4}\\ \textbf{89.92}\\ \textbf{105.7}\\ \textbf{118.9} \end{array}$	71. 1 77. 1 69. 8 68. 1 71. 9 79. 6 88. 9 91. 0 93. 1 101. 9 110. 9 110. 9 110. 9 114. 2 118. 2 123. 8 143. 6 163. 6 188. 4 204. 2 220. 6 244. 7 265. 0 299. 3 357. 1 386. 3 423. 5	52. 4 57. 5 47. 9 53. 9 53. 9 53. 9 53. 7 57. 4 63. 6 65. 2 78. 8 90. 9 97. 5 98. 0 97. 5 98. 2 102. 1 111. 1 123. 1 130. 1 145. 4	8.8 9.4 11.5 12.4 13.4 15.7 20.1 21.6 25.0 27.0 27.0 27.9 30.3 33.5 27.0 27.9 30.3 33.5 27.0 27.9 30.3 33.5 27.0 27.9 30.3 33.5 27.0 27.9 30.3 33.5 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 27.9 30.3 27.0 29.3 20.1 20.6 20.1 20.6 20.1 20.6 20.1 20.6 20.1 20.5 20.1 20.0 20.3 20.1 20.0 20.0 20.0 20.0 20.0 20.0 20.0	2.2.1.0 1.2.9 1.1.1.1.2.2.2.2.3.2.1.1.2.6.7.6.2.1.2.2 2.2.2.2.2.2.2.2.2.2.2.2.3.3.3.3.3.3.3.3	2,6 2,8 3,3 2 5,6 8 6,5 2 7,0 9,1 11,1 14,9 18,6 6,5 20,3 40,3 24,4 20,3 43,9 54,6 43,9 54,6 67,6	4.56 4.66 4.61 5.52 6.28 6.28 6.28 7.30 4.29 112.93 114.00 146.2 203.32 27.5	870544816029566575232823799 .1.1.2.2.2.2.4.4.3.4.4.5.4.4.5.6.6.7.8.5.6.5.7.99	$\begin{array}{c} -3,7\\ -7.1\\ -6.4\\ 4,4\\ 2,3\\ -10.3\\ -1.4\\ 3,09\\ -3,39\\ -3,39\\ -3,39\\ -3,39\\ -3,39\\ -1.3\\ 8,51\\ -122,0\\ -1.3\\ 8,51\\ -122,0\\ -1.5\\ -10,7\\ -10,7\\ -70,20\\ -49,6\\ \end{array}$
1976: I II III IV	318.4 329.1 337.1 344.5	138.0 143.9 150.3 157.1	54, 4 57, 0 56, 9 55, 1	22. 7 23. 2 23. 7 23. 8	103.2 105.0 106.2 108.4	378.7 375.3 390.6 400.4	127.6 128.5 130.2 134.2	157. 1 155. 0 160. 0 163. 1	3.0 2.7 3.9 3.2	58. 5 56. 8 63. 1 65. 5	26. 2 26. 7 27. 3 28. 5	6.2 5.5 6.1 6.0	60. 3 46. 2 53. 5 55. 9
1977: I II III IVP	364.9 371.2 373.2	170. 0 168. 6 168. 6 175. 5	55.4 59.9 59.5	24. 2 24. 6 25. 4 25. 2	115. 4 118. 1 119. 7 122. 4	403.7 411.5 432.1 446.7	136.3 143.6 148.1 153.8	167.8 166.4 171.2 174.0	2.9 2.9 3.6 3.6	62. 0 63. 6 72. 7 72. 2	28, 6 29, 1 29, 4 30, 9	6.1 5.9 7.2 12.3	38.8 40.3 58.9

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ Excludes wape accruals less disbursements not shown separately. These were (in billions of dollars at seasonally adjusted annual rates) .0 in each of the quarters of 1976 and 1977. ² Estimates.

Sources: Department of Commerce (Bureau of Economic Analysis) and Office of Management and Budget.

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TABLE B-75. Receipts and expenditures of the State and local government sector of the national income and product accounts, 1946-77

		_	Rece	ripts				Exp	enditure	5		Surplus
Calendar year or quarter	Totai	Per- sonal tax and nontax receipts	Cor- porate profits tax accruals	Indirect busi- ness tax and nontax accruals	butions for social insur-	Fed- erat grants- in-aid	Total 1	Pur- chases of goods and serv- ices	Trans- fer pay- ments to per- sons	Net interest paid	Sub- sidies less current surplus of gov- ern- ment enter- prises	or deficit (-), national income and prod- uct ac- counts
1946 1947 1948 1949	13.0 15.4 17.7 19.5	1.5 1.7 2.1 2.4	0.5 .6 .7 .6	9.3 10.7 12.2 13.3	0.6 .7 .8 .9	1.1 1.7 2.0 2.2	11. 1 14. 4 17. 6 20. 2	9.9 12.8 15.3 18.0	1.7 2.3 3.0 3.0	0.2 .1 .1 .1	0.7 8 9	1.9 1.0 .1 7
1950 1951 1952 1953 1954	21.3 23.4 25.4 27.4 29.0	2.5 2.8 3.0 3.2 3.5	.8 .9 .8 .8 .8	14.6 15.9 17.4 18.8 19.9	1.1 1.4 1.6 1.7 2.0	2.3 2.5 2.6 2.8 2.9	22. 5 23. 9 25. 5 27. 3 30. 2	19. 8 21. 8 23. 2 25. 0 27. 8	3.6 3.1 3.3 3.5 3.6	.1 .0 .0 .1	9 -1.0 -1.1 -1.2 -1.3	-1.2 4 0 .1 -1.1
1955 1956 1957 1958 1959	35.0 38.5 42.0	3.9 4.5 5.0 5.4 6.1	1.0 1.0 1.0 1.0 1.2	21.6 23.8 25.7 27.2 29.3	2.1 2.3 2.6 2.8 3.1	3.1 3.3 4.2 5.6 6.8	32. 9 35. 9 39. 8 44. 3 46. 9	30.6 33.5 37.1 41.1 43.7	3.8 3.9 4.3 4.8 5.1	.1 .1 .1 .1 .1	-1.5 -1.6 -1.7 -1.7 -2.0	-1.3 9 -1.4 -2.4 4
1960 1961 1962 1963 1964	54.0 58.5 63.2	6.7 7.4 8.2 8.8 10.0	1.2 1.3 1.5 1.7 1.8	32.0 34.4 37.0 39.4 42.6	3.4 3.7 3.9 4.2 4.7	6.5 7.2 8.0 9.1 10.4	49. 8 54. 4 58. 0 62. 8 68. 5	46, 5 50, 8 54, 3 59, 0 64, 6	5.4 5.8 6.0 6.4 6.9	.1 .1 .1 .1 .1	-2.2 -2.3 -2.5 -2.8 -2.8	.1 4 .5 1.0
1965 1966 1967 1968 1968	75. 1 84. 8 93. 6 107. 2 119. 7	10. 9 12. 8 14. 6 17. 4 20. 6	2.0 2.2 2.5 3.1 3.4	46. 1 49. 7 54. 0 60. 8 67. 4	5.0 5.7 6.7 7.2 7.9	11. 1 14. 4 15. 9 18. 6 20. 3	75.1 84.3 94.7 106.9 117.6	71.1 79.8 89.3 100.7 110.4	7.3 8.1 9.4 10.6 12.1	3 7 9 -1.2 -1.6	$ \begin{array}{c c} -3.0 \\ -3.0 \\ -3.1 \\ -3.2 \\ -3.3 \end{array} $	0 .5 -1.1 .3 2.1
1970 1971 1972 1973 1974	152.6	23. 1 26. 4 33. 0 36. 1 39. 2	3.7 4.2 5.0 5.7 6.5	74.7 83.1 91.0 99.0 106.9	9.0 9.9 10.8 12.1 13.9	24. 4 29. 0 37. 5 40. 6 43. 9	132.2 148.9 163.7 180.5 202.8	123.2 137.5 151.0 167.3 191.5	14.6 17.2 18.9 20.3 20.5	-2.0 -1.8 -2.1 -2.9 -4.9	-3.6 -3.8 -4.2 -4.4 -4.3	2.8 3.7 13.7 13.0 7.6
1975 1976 1977 ₽	235.7 264.7 294.5	43. 4 49. 6 56, 8	7.1 8.9 9.7	114.7 127.1 140.3	15.9 18.1 20.1	54.6 61.0 67.6	229. 8 246. 2 265. 3	215.6 231.2 249.5	23.8 25.9 28.0	5.2 5.7 6.5	-4.5 -5.2 -5.8	5.9 18.4 29.2
1975: V	223.7 231.8 240.8 246.4	42.1 42.8 43.8 44.9	5.7 6.4 8.0 8.2	110.8 113.3 116.2 118.7	15. 2 15. 7 16. 1 16. 6	50. 0 53. 7 56. 7 58. 0	220. 0 227. 3 234. 2 237. 5	206. 4 213. 3 219. 7 222. 9	22.6 23.3 24.2 25.0	-4.7 -5.0 -5.2 -5.6	-4.3 -4.4 -4.5 -4.8	3.7 4.5 6.6 8.9
1976: \ V	253.8 258.4 269.0	50.3	8.6 9.1 9.0 8.8	122.7 126.0 128.1 131.7	17. 2 17. 8 18. 5 19. 1	58.5 56.8 63.1 65.5	240. 5 245. 5 247. 9 251. 1	225. 9 230. 4 232. 7 235. 8	25. 3 25. 8 26. 2 26. 5	-5.6 -5.7 -6.0 -5.7	-5.1 -5.0 -5.1 -5.5	13.3 12.9 21.1 26.5
1977: V	281.0 288.1 301.6	56.2	9.0 9.8 9.8	135.9 138.6 141.5 145.2	19.5 19.9 20.2 20.7	62.0 63.6 72.7 72.2	253.7 262.6 268.7 276.2	238.5 247.0 252.9 259.8	27.0 27.7 28.3 29.0	-6.2 -6.3 -6.7 -6.7	-5.7 -5.7 -5.8 -5.9	27.3 25.4 32.9

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

¹ Excludes wage accruals less disbursements not shown separately. These were (in billions of dollars, at seasonally adjusted annual rates) .0 in each of the quarters of 1975, 1976, and 1977.

Source: Department of Commerce, Bureau of Economic Analysis.

		Ge	neral re	venues by	y source :	8		Gene	ral exper	nditures l	oy functi	0 n 1
Fiscal year 1	Total	Prop- erty taxes	Sales and gross re- ceipts taxes	Indi- vidual income taxes	Corpo- ration net income taxes	Reve- nue from Federal Govern- ment	All other 3	Total	Eđu- cation	High- ways	Public wel- fare	All other 4
1927	7, 271	4, 730	470	70	92	116	1, 793	7, 210	2, 235	1, 809	151	3, 015
1932 1934 1936 1938	7, 267 7, 678 8, 395 9, 228	4, 487 4, 076 4, 093 4, 440	752 1,008 1,484 1,794	153	79 49 113 165	232 1, 016 948 800	1,643 1,449 1,604 1,811		2, 311 1, 831 2, 177 2, 491	1, 741 1, 509 1, 425 1, 650	444 889 827 1,069	3, 269 2, 952 3, 215 3, 547
1940 1942 1944 1946 1948	9, 609 10, 418 10, 908 12, 356 17, 250	4, 430 4, 537 4, 604 4, 986 6, 126	1, 982 2, 351 2, 289 2, 986 4, 442	422	156 272 451 447 592	945 858 954 855 1, 861	1, 872 2, 123 2, 269 2, 661 3, 685	11,028	2, 638 2, 586 2, 793 3, 356 5, 379	1.672	1, 156 1, 225 1, 133 1, 409 2, 099	3, 862 3, 889 3, 737 4, 591 7, 170
1950 1952 1953 1954		7, 349 8, 652 9, 375	5, 154 6, 357 6, 927 7, 276	788 998 1,065	593 846 817	2, 486 2, 566 2, 870	4, 541 5, 763 6, 252	22, 787 26, 098 27, 910	7, 177 8, 318 9, 390 10, 557	3, 803 4, 650 4, 987	2, 940 2, 788 2, 914 3, 060	10,619
1955 1956 1957 1958 1959	31, 073 34, 667 38, 164 41, 219 45, 306	11, 749 12, 864 14, 047	9,829	1,538 1,754 1,759	890 984 1,018	3, 335 3, 843 4, 865	7, 584 8, 465 9, 250 9, 699 10, 516	40, 375	11, 907 13, 220 14, 134 15, 919 17, 283	6, 452 6, 953 7, 816 8, 567 9, 592	3, 168 3, 139 3, 485 3, 818 4, 136	13, 399 14, 940 16, 547
1960 1961 1962 1963		16, 405 18, 002 19, 054 20, 089	12, 463	8 2,613 1 3,037	1,266	6,974 7,131 7,871	11, 634 12, 563 13, 489	56, 201 60, 206	18, 719 20, 574 22, 216 23, 776	9,844	4, 404 4, 720 5, 084 5, 481	21,063
1962-63 ⁵ 1963-64 ⁵ 1964-65 ⁵	62, 269 68, 443 74, 000	19, 833 21, 241 22, 583		3, 791	1,505 1,695 1,929	10,002	15, 951	69, 302	26, 286	11,664	5, 420 5, 766 6, 315	25, 586
1965–66 ⁸ 1966–67 ⁸ 1967–68 ⁸ 1968–69 ⁸ 1969–70 ⁸			20, 53 22, 91 26, 51	0 5,826 1 7,308 9 8,908	2,227 2,518 3,180	JJ 19, 153	8 26,118	82, 843 93, 350 102, 411 116, 728 131, 332	37,919 41,158 47,238	13, 932 14, 481 15, 417	8,218 9,857 12,110	33, 281 36, 915 41, 963
1970-71 ⁸ 1971-72 ⁵ 1972-73 ⁵ 1973-74 ⁶ 1974-75 ⁵	144, 92	7 37,852	5 46.09	8 15 23 7 17,99 8 19,49	7 4,410 4 5,42 1 6,01	5 31,253 5 39,250 5 41,820	35,820 40,210 46,54	150, 674 166, 873 181, 227 198, 959 230, 721	64,886 69,714 75,833	19,010 18,615 19,946	21,070 23,582 25,085	61,907 69,316 78,090
1975–76 s	256, 17	6 57, 00	54, 54	7 24, 57	5 7, 27:	3 55, 58	57, 19	256, 731	97, 216	23, 907	32, 604	103, 004

TABLE B-76.-State and local government revenues and expenditures, selected fiscal years, 1927-76

(Millions of dollars)

¹ Fiscal years not the same for all governments. See footnote 5.
 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 licenses and other taxes and charges and miscellaneous revenues.
 ⁴ Includes expenditures for health, hospitals, police, local fire protection, natural resources, sanitation, housing and urban renewal, local parks and recreation, general control, financial administration, interest on general debt, and unallocable expenditures.
 ⁵ Data for fiscal year ending in the 12-month period through June 30. Data for 1963 and earlier years include local government amounts grouped in terms of fiscal years ended during the particular calendar year.

Note.—Data are not available for intervening years. See Table B-69 for net debt of State and local governments.

Source: Department of Commerce, Bureau of the Census.

TABLE B-77 .- Interest-bearing public debt by kind of obligation, 1967-77

[Millions of dollars]

	Total		Marke	etable			No	nmarketa	bie	
End of year or month	in- terest- bearing public debt	Total	Bills	Treasury notes	Treasury bonds 1	Total	U.S. savings bonds	Foreign govern- ment series ³	Govern- ment account series 3	Other 4
Fiscal year: 1967 1968 1969	322, 286 344, 401 351, 729	5210.672 226,592 226,107	58, 535 64, 440 68, 356	49, 108 71, 073 78, 946	91,079	111, 614 117, 808 125, 623	51, 213 51, 712 51, 711	1, 514 3, 741 4, 070	56, 155 59, 526 66, 790	2, 731 2, 828 3, 051
1970 1971 1972 1973 1974	369, 026 396, 289 425, 360 456, 353 473, 238	232, 599 245, 473 257, 202 262, 971 266, 575	76, 154 86, 677 94, 648 100, 061 105, 019	93, 489 104, 807 113, 419 117, 840 128, 419	53,989 49,135 45,071	136, 426 150, 816 168, 158 193, 382 206, 663	51, 281 53, 003 55, 921 59, 418 61, 921	4, 755 9, 270 18, 985 28, 524 25, 011	76, 323 82, 784 89, 598 101, 738 115, 442	4, 068 5, 759 3, 654 3, 701 4, 289
1975 1976 1977	532, 122 619, 254	315, 606 392, 581 443, 508	128, 569 161, 198 156, 091	150, 257 191, 758 241, 692	39,626	216, 516 226, 673 254, 121	65, 482 69, 733 75, 411	21,500	124, 173 130, 557 140, 113	3, 644 4, 883 16, 797
1976: Jan Feb Mar Apr May June	592, 874 599, 224 600, 927 608, 077	369, 316 378, 773 385, 296 386, 444 388, 021 392, 581	159, 645 162, 088 163, 140 161, 764 161, 840 161, 198	171, 110 177, 576 183, 143 185, 757 186, 473 191, 758	39, 110 39, 014 38, 922 39, 708	212, 544 214, 100 213, 928 214, 484 220, 056 226, 673	67, 826 68, 170 68, 567 68, 968 69, 394 69, 733	21, 689 21, 669 21, 612 21, 515	119, 041 120, 105 119, 438 119, 453 124, 570 130, 557	4, 076 4, 138 4, 254 4, 449 4, 577 4, 883
July Aug Sept Oct Nov Dec	632, 291 633, 560 635, 062 643, 643	397, 719 404, 314 407, 663 408, 590 415, 399 421, 276	161, 399 161, 433 161, 505 161, 545 161, 711 163, 992	197, 204 202, 979 206, 319 207, 275 212, 986 216, 669	39, 115 39, 902 39, 839 39, 769 40, 702 40, 615	225, 861 227, 977 225, 897 226, 472 228, 243 231, 181	70, 428 71, 079 70, 752 71, 113 71, 506 71, 853	21, 357 20, 967 20, 814 22, 290 22, 487 22, 299	128, 912 130, 591 128, 640 127, 162 127, 405 129, 744	5, 164 5, 340 5, 690 5, 906 6, 844 7, 284
1977: Jan Feb Mar Apr May June	662, 320	423, 995 431, 607 435, 379 434, 065 431, 447 431, 149	164, 005 164, 175 164, 264 161, 977 157, 931 155, 064	219, 474 225, 856 229, 625 230, 655 230, 230 232, 885	40, 516 41, 576 41, 490 41, 433 43, 286 43, 200	228, 985 230, 714 232, 837 234, 444 239, 511 242, 240	72, 234 72, 640 73, 037 73, 457 73, 908 74, 282	22,078	126, 810 127, 770 128, 192 128, 992 133, 029 134, 754	7, 731 8, 235 9, 529 10, 092 10, 743 11, 473
July Aug Sept Oct Nov Dec	584, 081 597, 629	430, 248 438, 146 443, 508 447, 435 454, 862 459, 927	154, 227 154, 283 156, 091 156, 174 156, 656 161, 081	231, 371 238, 084 241, 692 245, 587 251, 104 251, 800	44, 650 45, 778 45, 724 45, 674 47, 102 47, 045	241, 138 245, 935 254, 121 248, 866 252, 111 255, 300	74, 803 75, 059 75, 411 75, 816 76, 224 76, 602	21, 545 21, 370 21, 799 21, 123 21, 665 22, 187	132, 447 136, 329 140, 113 136, 890 138, 580 139, 774	12, 342 13, 176 16, 797 15, 039 15, 642 16, 737

Includes Treasury bonds and minor amounts of Panama Canal and postal savings bonds.
 Nonmarketable certificates of indebtedness, notes, bonds, and bills in the Treasury foreign series and foreign-currency-series issues.
 Includes Treasury deposit funds and some special issues formerly included in "Other."
 Includes depository bonds, retirement plan bonds, Rural Electrification Administration bonds, State and local bonds, and special issues and the Federal home loan banks.
 Includes \$5,610 million in certificates not shown separately.

Note,-Through fiscal year 1976, the fiscal year runs from July 1 through June 30; starting in October 1976 (fiscal year 1977), the fiscal year runs from October 1 through September 30.

Source: Department of the Treasury,

TABLE B-78 Estimated ownership of public debt securities, 1967-77
[Par values; 1 billions of dollars]

				Tota	l public d	ebt securi	ties			
		1				Held by	private i	nvestors		
End of year or month	Total 2	Held by Govern- ment accounts	Held by Federal Reserve Banks	Total 3	Com- mercial banks 4	Mutual savings banks and in- surance com- panies	Corpo- rations 5	State and local govern- ments ¢	Indi- viduals ⁷	Miscel- laneous inves- tors 38
Fiscal year: 1967 1968 1969	322. 9 345. 4 352. 9	71. 8 76. 1 84. 8	46. 7 52. 2 54. 1	204. 4 217. 0 214. 0	55. 5 59. 7 55. 3	13. 2 12. 5 11. 6	11.0 12.0 11.1	23. 6 25. 1 26. 4	70. 4 74. 2 77. 3	30. 7 33. 4 32. 3
1970 1971 1972 1973 1974	370. 1 397. 3 426. 4 457. 3 474. 2	95. 2 102. 9 111. 5 123. 4 138. 2	57.7 65.5 71.4 75.0 80.5	217. 2 228. 9 243. 6 258. 9 255. 6	52.6 61.0 60.9 58.8 53.2	10.4 10.3 10.2 9.6 8.5	8.5 7.4 9.3 9.8 10.8	29.0 25.9 26.9 28.8 28.3	81. 8 75. 4 73. 2 75. 9 80. 7	35. 0 49. 1 63. 2 76. 0 74. 2
1975 1976 1977	533, 2 620, 4 698, 8	145.3 149.6 155.5	84.7 94.4 104.7	303.2 376.4 438.6	69.0 92.5 101.0	10.6 16.0 20.6	13. 2 24. 3 23. 9	31.7 39.3 53.5	87.1 96.4 103.9	91.5 107.9 135.8
1976: Jan Feb Mar Apr May June	584, 4 593, 9 600, 5 602, 0 610, 7 620, 4	139.3 139.8 139.1 139.1 143.7 149.6	89.8 89.0 89.8 91.8 90.5 94.4	355.3 365.0 371.7 371.0 376.4 376.4	88. 8 87. 5 90. 3 90. 9 91. 5 92. 5	14.9 15.2 15.7 15.8 16.0 16.0	20.6 22.6 22.3 23.3 25.5 24.3	34.8 35.9 36.8 36.9 37.0 39.3	91.7 93.9 94.5 94.7 95.9 96.4	104. 5 109. 9 112. 0 109. 4 110. 5 107. 9
July Aug Sept Nov Dec	624.5 633.3 634.7 637.6 644.6 653.5	147.6 148.0 146.1 144.6 144.9 147.1	90. 7 94. 0 96. 4 95. 7 91. 7 97. 0	386. 2 391. 3 392. 2 397. 3 408. 1 409. 5	94. 5 93. 5 95. 3 96. 8 100. 7 103. 8	16.8 17.5 17.4 17.9 18.3 18.2	26. 8 27. 6 25. 3 24. 5 24. 0 26. 5	37.4 38.2 38.7 40.5 41.5 41.6	97. 1 99. 7 99. 7 100. 0 100. 7 100. 8	113, 7 114, 7 115, 8 117, 4 123, 0 118, 6
1977: Jan Feb Mar Apr May June	653. 9 663. 3 669. 2 671. 0 672. 1 674. 4	144. 1 144. 4 144. 9 145. 5 149. 4 151. 2	94. 1 95. 8 96. 0 99. 8 97. 4 102. 2	415. 7 423. 1 428. 3 425. 7 425. 3 421. 0	102. 4 104. 7 106. 3 103. 5 102. 2 102. 4	18, 1 18, 6 18, 8 18, 8 19, 0 20, 2	28. 5 29. 8 27. 7 27. 4 25. 8 23. 8	44, 8 43, 3 44, 4 48, 4 49, 1 47, 6	101. 0 101. 5 101. 9 102. 2 102. 7 103. 0	120.9 125.2 129.4 125.4 126.7 123.9
July Aug Sept Oct Nov Dec #	673.9 685.2 698.8 697.4 708.0 718.9	148.7 151.9 155.5 152.2 153.9 154.8	98.6 98.4 104.7 94.6 96.5 101.2	426. 5 434. 9 438. 6 450. 6 457. 6 462. 9	100. 1 100. 0 101. 0 100. 5 101. 4	20. 1 20. 1 20. 6 20. 7 21. 3	23. 5 24. 5 23. 9 23. 8 23. 4	47.8 52.7 53.5 54.5 55.6	103. 4 103. 7 103. 9 104. 4 104. 9	131. 134. (135. 8 146. 151. (

¹ U.S. savings bonds, series A-F and J, and U.S. savings notes are included at current redemption value.
 ² As of July 31, 1974, public debt outstanding has been adjusted to exclude the notes of the International Monetary Fund to conform with the Budget presentation. This adjustment applies to the 1967-77 data in this table.
 ⁴ For comparability with 1975-77 published data, published data for 1967-74 have been adjusted to exclude notes of the International Monetary Fund. These adjustments amounted to \$3.3 billion in 1967, \$2.2 billion in 1968, and \$0.8 billion in each year 1969 through 1974. These adjustments were necessary in order to add to the total public debt figures as published by the Department of the Treasury.
 ⁴ Includes commercial banks, trust companies, and stock savings banks in the United States and Territories and island possessions; figures exclude so thanks in United States Territories and include holdings of banks in United States Territories and possessions, they do not agree with the estimates in Table B-60, which are based on book values and relate only to banks within the United States.
 ⁴ Exclusive of banks and insurance companies.
 ^c Includes trust, sinking, and investment funds of State and local governments and their agencies, and of Territories and possessions.

¹ Includes partnerships and personal trust accounts.
 ³ Includes partnerships and loan associations, nonprofit institutions, corporate pension trust funds, dealers and brokers, certain government deposit accounts and government-sponsored agencies, and investments of foreign balances and international accounts in the United States.

Note.—Through fiscal year 1976, the fiscal year runs from July 1 through June 30; starting in October 1976 (fiscal year 1977), the fiscal year runs from October 1 through September 30.

Source: Department of the Treasury.

	Amount		N	laturity class	5			
End of year or month	out- standing	Within 1 year	1 to 5 years	5 to 10 years	10 to 20 years	20 years and over	Average	e length
			Millions o	of dollars		·	Years	Months
Fiscal year: 1967 1968 1969	150, 321 159, 671 156, 008	56, 561 66, 746 69, 311	53, 584 52, 295 50, 182	21, 057 21, 850 18, 078	6, 153 6, 110 6, 097	12, 968 12, 670 12, 337	5 4 4	
1970 1971 1972 1973 1974	157, 910 161, 863 165, 978 167, 869 164, 862	76, 443 74, 803 79, 509 84, 041 87, 150	57, 035 58, 557 57, 157 54, 139 50, 103	8, 286 14, 503 16, 033 16, 385 14, 197	7, 876 6, 357 6, 358 8, 741 9, 930	8, 272 7, 645 6, 922 4, 564 3, 481	3 3 3 3 2	1
1975 1976 1977	210, 382 279, 782 326, 674	115, 677 151, 723 161, 329	65, 852 89, 151 113, 319	15, 385 24, 169 33, 067	8, 857 8, 087 8, 428	4, 611 6, 652 10, 531	2 2 2	1
976: Jan Feb Mar Apr May June	259, 831 270, 625 276, 434 275, 520 278, 929 279, 782	152, 077 151, 875 154, 258 153, 441 153, 464 151, 723	75, 179 82, 484 86, 214 86, 198 86, 242 89, 151	18, 310 21, 707 21, 538 21, 597 24, 336 24, 169	8, 466 8, 417 8, 350 8, 242 8, 172 8, 087	5,800 6,142 6,074 6,042 6,716 6,652	2 2 2 2 2 2 2 2	
July Aug Sept Oct Nov Dec	289, 044 293, 627 294, 595 296, 211 307, 309 307, 820	156, 595 153, 304 153, 302 155, 179 158, 422 157, 453	91, 042 93, 396 94, 845 91, 795 101, 684 103, 742	26, 694 31, 523 31, 247 33, 922 31, 349 31, 017	8, 059 7, 986 7, 939 7, 897 7, 511 7, 399	6, 654 7, 418 7, 262 7, 419 8, 345 8, 209	2 2 2 2 2 2 2 2 2	1
977: Jan Feb Mar Apr May June	313, 497 319, 982 323, 604 318, 699 318, 619 313, 485	162, 633 165, 942 166, 427 162, 419 162, 211 157, 353	101, 626 106, 685 109, 983 106, 929 106, 823 107, 000	33, 688 31, 204 31, 155 33, 469 32, 658 32, 442	7, 342 7, 291 7, 236 7, 172 7, 180 7, 092	8, 208 8, 860 8, 803 8, 709 9, 746 9, 598	2222222	1
July Aug Sept Oct Nov Dec	316, 177 325, 001 326, 674 338, 290 343, 870 344, 314	160, 332 161, 932 161, 329 167, 699 169, 552 172, 084	105, 255 110, 681 113, 319 115, 744 121, 346 119, 463	32, 521 33, 260 33, 067 35, 912 32, 858 32, 796	8, 440 8, 512 8, 428 8, 406 8, 364 8, 294	9, 628 10, 616 10, 531 10, 529 11, 751 11, 677	2 3 2 2 3 2 3 2	1 1 1

TABLE B-79.—Average length and maturity distribution of marketable interest-bearing public debt held by private investors, 1967-77

Note.—All issues classified to final maturity. Through fiscal year 1976, the fiscal year runs from July 1 through June 30; starting in October 1976 (fiscal year 1977), the fiscal year runs from October 1 through September 30.

Source: Department of the Treasury.

CORPORATE PROFITS AND FINANCE

 TABLE B-80.—Corporate profits with inventory valuation and capital consumption adjustments, 1946-77

	Corporate			tax with invento consumption ad	
Year or quarter	profits with inventory valuation and capital consumption adjustments	Corporat e profits tax liability	Total	Dividends	Undistributed profits with inventory valuation and capital consumption adjustments
1946	16. 6	9.1	7.5	5.6	2.0
	22. 2	11.3	10.9	6.3	4.6
	29. 1	12.4	16.7	7.0	9.7
	26. 9	10.2	16.7	7.2	9.5
1950	33.7	17. 9	15. 7	8, 8	6.9
1951	38.1	22. 6	15. 5	8, 5	7.0
1952	35.4	19. 4	16. 0	8, 5	7.5
1953	35.5	20. 3	15. 2	8, 8	6.4
1954	34.6	17. 6	17. 0	9, 1	7.9
1955	44, 6	22. 0	22.6	10. 3	12. 2
1956	42, 9	22. 0	20.9	11. 1	9. 8
1957	42, 1	21. 4	20.6	11. 5	9. 1
1958	37, 5	19. 0	18.5	11. 3	7. 2
1959	48, 2	23. 6	24.6	12. 2	12. 4
1960	46.6	22. 7	23. 9	12. 9	11. 0
1961	46.9	22. 8	24. 1	13. 3	10. 8
1962	54.9	24. 0	30. 9	14. 4	16. 5
1963	59.6	26. 2	33. 4	15. 5	17. 9
1964	67.0	28. 0	39. 0	17. 3	21. 7
1965	77. 1	30. 9	46. 2	19. 1	27. 1
1966	82. 5	33. 7	48. 9	19. 4	29. 4
1967	79. 3	32. 5	46. 8	20. 1	26. 7
1968	85. 8	39. 4	46. 4	21. 9	24. 4
1969	81. 4	39. 7	41. 8	22. 6	19. 2
1970	67.9	34.5	33, 4	22.9	10.5
1971	77.2	37.7	39, 5	23.0	16.5
1972	92.1	41.5	50, 5	24.6	25.9
1973	99.1	48.7	50, 4	27.8	22.6
1974	83.6	52.4	31, 2	31.0	.2
1975	99. 3	50. 2	49. 1	32.4	16.7
1976	128. 1	64. 7	63. 3	35.8	27.6
1977 <i>»</i>	140. 3	69 . 2	71. 1	41.2	29.9
1975: I	74.0	40. 8	33. 2	32.0	1.2
	92.7	45. 7	47. 0	32.2	14.8
	115.6	56. 3	59. 4	32.9	26.5
	114.7	57. 9	56. 8	32.5	24.3
1976: I	126. 5	63, 1	63. 4	33.6	29.8
II	129. 2	66, 1	63. 1	35.0	28.0
III	133. 5	65, 9	67. 6	36.0	31.6
IV	123. 1	63, 9	59. 2	38.4	20.8
1977:	125. 4	64. 4	61.0	38.5	22.5
	140. 2	69. 7	70.6	40.3	30.3
	149. 0	69. 3	79.7	42.3	37.4

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

Source: Department of Commerce, Bureau of Economic Analysis.

TABLE B-81.—Corporate profits by industry, 1929-77

Billions of dollars; quarter	y data at seasonally ad	justed annual rates)
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			orate profits with inventory valuation adjustment and without capital consumption adjust Domestic industries										
Year or quarter				Financial									
	Total	Total	Total	Federal Reserve banks	Other	Total	Manu- factur- ing ²	Whole- sale and retail trade	Utilities ³	Other	Rest of the world		
1929	10. 5	10.2	1.3	0.0	1, 3	8.9	5.2	1.0	1.8	0.9	0.2		
1933	-1.2	-1.2	.3	.0	.3	-1.5	4	5	.0	7	.0		
1939	6.3	6.1	.8	.0	.8	5.3	3.3	.7	1.0	.3	.2		
1940 1941 1942 1943 1943 1945 1945 1946 1948 1949	9.8 15.2 20.3 24.4 23.8 19.2 19.3 25.6 33.0 30.8	9.6 15.0 20.1 24.1 23.5 18.9 18.9 24.9 32.2 29.9	1.0 1.1 1.2 1.3 1.6 1.7 2.1 1.7 2.6 3.1	.0 .0 .0 .1 .1 .1 .1 .1 .2 .2	.9 1.0 1.2 1.3 1.6 1.6 2.0 1.6 2.3 2.9	8.6 14.0 18.9 22.8 21.9 17.3 16.8 23.2 29.6 26.8	5.5 9.5 11.8 13.8 13.2 9.7 9.0 13.6 17.6 16.2	1.2 1.4 2.2 3.0 3.2 3.3 3.8 4.6 5.5 4.5	1.3 2.0 3.4 4.4 3.9 2.7 1.8 2.2 3.0 3.0	.6 1.1 1.5 1.6 1.6 1.5 2.1 2.9 3.6 3.1	.22 .22 .22 .23 .22 .24 .7 .88 .8		
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	37.6 42.7 39.8 39.5 37.8 46.7 45.9 45.4 40.8 51.2	36. 7 41. 5 38. 7 38. 4 36. 4 45. 1 44. 1 43. 5 39. 1 49. 4	3.1 3.6 4.5 4.5 4.6 4.8 5.0 5.2 5.7 6.8	.2 .3 .4 .3 .3 .5 .6 .6 .7	3.0 3.3 3.7 4.3 4.5 4.5 4.6 5.1 6.0	33.5 37.9 34.7 33.9 31.8 40.3 39.1 38.3 33.5 42.6	20.9 24.6 21.7 22.0 19.9 26.0 24.7 24.0 19.4 26.2	5.0 5.0 4.8 3.8 3.8 5.0 4.5 4.4 4.6 5.9	4.0 4.6 4.9 5.0 4.7 5.6 5.9 5.8 5.9 7.0	3.6 3.7 3.3 3.1 3.4 3.6 4.1 4.0 3.6 3.5	1.0 1.2 1.1 1.4 1.6 1.8 1.9 1.7 1.8		
1960 1961 1962 1963 1964 1965 1966 1968 1969	48.9 48.7 53.7 57.6 64.2 73.3 78.6 75.6 82.1 77.9	47.0 46.3 51.1 54.9 61.0 70.1 75.9 72.6 78.9 74.2	7.2 7.0 7.3 6.8 7.5 8.5 9.0 10.4 11.3	1.0 .8 .9 1.0 1.1 1.4 1.7 2.0 2.5 3.1	6.2 6.34 5.8 5.2 6.8 7.9 7.9 8.2	39.8 39.3 43.8 48.1 54.1 62.5 67.4 63.6 68.5 62.9	23.9 23.0 26.0 28.7 31.9 38.3 41.6 37.9 41.2 36.8	4.9 4.9 5.7 5.9 7.4 7.9 8.0 8.9 10.1 10.1	7.4 7.8 8.4 9.3 9.9 11.0 11.8 10.7 10.7 10.2	3.5 3.8 4.2 5.3 6.1 6.5 5.8	1.9 2.3 2.6 3.1 3.3 3.3 3.0 3.2 3.0 3.2 3.7		
1970 1971 1972 1973 1974 1975 1976 1977 p	66.4 76.9 89.6 97.2 86.5 111.5 142.7 157.5	62.6 72.4 84.7 90.4 76.9 105.4 134.6 147.9	12.6 14.1 15.4 16.2 14.4 15.0 18.2 20.6	3.6 3.3 4.5 5.7 5.7 6.0 6.2	9.0 10.8 12.1 11.7 8.7 9.4 12.2 14.4	50. 1 58. 2 69. 3 74. 1 62. 5 90. 3 116. 4 127. 3	27.1 32.4 40.6 44.1 36.6 47.9 66.3 74.7	9.4 11.7 13.3 14.7 12.9 22.1 27.1	8.2 8.3 9.0 8.3 5.6 9.3 11.5	5.3 5.8 6.4 7.0 7.4 11.0 11.5	3.8 4.6 4.8 9.6 6.1 8.1 9.6		
1975: V	83. 2 104. 6 128. 9 129. 2	77, 2 98, 4 122, 6 123, 2	15. 1 14. 3 14. 7 16. 1	5.8 5.7 5.5 5.8	9.3 8.6 9.2 10.3	62.1 84.1 107.9 107.1	29. 4 43. 4 59. 6 59. 1	17.5 21.3 25.8 24.0	5.3 8.5 11.1 12.1	9.9 10.9 11.4 11.9	6.0 6.2 6.3 6.0		
1976: 1 / // //	141. 1 143. 7 148. 2 137. 9	132, 4 136, 1 139, 8 130, 2	17.8 18.1 18.4 18.4	6.0 5.9 5.9 6.1	11.8 12.2 12.5 12.3	114.6 118.0 121.3 111.8	65. 3 68. 7 68. 4 62. 9	26. 5 25. 5 29. 1 27. 4	11. 1 12. 1 12. 2 10. 4	11.7 11.7 11.6 11.1	8.6 7.6 8.4 7.7		
1977: I 11 11	141. 0 156. 2 166. 9	131. 0 145. 5 157. 4	19.2 19.9 21.2	6.1 6.2 6.2	13. 1 13. 7 15. 1	111. 8 125. 5 136. 1	65.2 76.4 77.6	24.0 25.4 31.2	11.6 11.5 14.1	11.0 12.2 13.2	10. 1 10. 7 9. 6		

See footnotes at end of table.

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TABLE B-81.-Corporate profits by industry, 1929-77-Continued (Billions of dollars; quarterly data at seasonally adjusted annual rates)

	Corporate profits before deduction of capital consumption allowances, with inventory valuation adjustme												
			Domestic industries										
Year or quarter	ł			Financial 1									
	Total	Total	Total	Federal Reserve banks	Other	Total	Manu- factur- ing ²	Whole- sale and retail trade	Utili- ties ³	Other	Rest of the world		
1929	14. 7	14. 4	1.4	0.0	1. 4	13.0	7.1	1.3	2.9	1.7	0. 2		
1933	2.6	2.6	. 4	.0	.4	2.2	1.3	2	1, 1	.0	.0		
1939	10. 1	9. 9	. 9	.0	.9	9.0	4.9	1.0	2.0	1.1	. 2		
1940 1941 1942 1943 1944 1945 1945 1946 1947 1948 1949	13.6 19.5 25.4 29.7 29.9 25.5 24.0 31.4 40.0 38.7	13. 4 19. 3 25. 2 29. 5 29. 6 25. 3 23. 6 30. 7 39. 2 37. 9	1.1 1.2 1.3 1.4 1.7 1.7 2.2 1.8 2.7 3.3	.0 .0 .1 .1 .1 .1 .2 .2	1.1 1.2 1.3 1.4 1.6 2.1 1.7 2.5 3.0	12. 3 18. 1 23. 9 28. 1 27. 9 23. 6 21. 4 28. 9 36. 5 34. 6	7.2 11.4 14.2 16.6 16.5 13.0 11.2 16.3 20.8 19.8	1.5 1.7 2.6 3.3 3.5 3.6 4.2 5.2 6.2 5.4	2.3 3.1 4.8 5.8 5.5 4.6 3.0 3.6 4.7 4.8	1.4 1.9 2.2 2.4 2.3 2.9 3.8 4.8 4.6	.22 .22 .3 .24 .7 .8		
1950	46. 5 53. 0 51. 3 52. 7 52. 8 64. 1 64. 9 66. 3 62. 9 74. 8	45. 5 51. 8 50. 2 51. 6 51. 4 62. 6 63. 1 64. 4 61. 2 73. 0	3.3 3.8 4.2 4.8 5.2 5.4 5.7 6.1 7.3	.2 .3 .4 .3 .5 .6 .6 .7	3.1 3.5 4.4 4.6 4.8 4.9 5.0 5.5 6.5	42. 2 48. 0 46. 0 46. 8 46. 5 57. 4 57. 7 58. 7 55. 0 65. 7	24. 9 29. 1 26. 9 28. 3 27. 1 34. 3 33. 6 33. 9 29. 8 37. 1	6.0 6.2 5.1 5.2 6.3 6.5 6.5 6.6 8.0	6.1 7.1 7.6 8.1 9.8 10.3 10.5 10.9 12.5	5.2 5.6 5.3 5.9 6.6 7.8 7.8 7.6 8.0	1.0 1.2 1.1 1.4 1.6 1.8 1.9 1.7 1.8		
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969	74. 1 75. 3 84. 2 90. 0 98. 7 110. 8 119. 3 119. 7 130. 2 130. 9	72.2 72.9 81.5 87.4 95.6 107.5 116.5 116.7 127.0 127.2	7.8 7.7 8.0 7.9 8.5 9.6 10.2 11.8 13.0	1.0 .8 .9 1.0 1.2 1.4 1.4 1.7 2.0 2.5 3.1	6.8 6.9 7.1 6.67 7.2 8.2 9.3 9.9	64.4 65.3 73.6 79.8 87.7 99.0 106.9 106.5 115.1 114.2	35.5 35.2 40.2 43.9 48.0 55.9 60.5 58.7 63.9 61.5	7.3 7.4 8.4 8.7 10.4 11.1 11.5 12.7 14.3 14.9	13. 3 14. 0 15. 4 16. 8 17. 9 19. 6 21. 3 21. 0 21. 9 22. 4	8.4 8.8 9.6 10.4 11.4 12.3 13.6 14.1 15.0 15.4	1.9 2.3 2.6 3.1 3.3 2.8 3.0 3.2 3.7		
1970 1971 1972 1973 1974 1975 1976 1977 p	123. 0 137. 8 157. 4 170. 9 168. 1 201. 0 239. 9 262. 2	119. 2 133. 3 152. 6 164. 1 158. 5 194. 8 231. 8 252. 7	14.5 16.3 18.0 19.5 18.3 19.3 22.9 25.7	3.6 3.4 3.4 4.5 5.7 5.7 6.0 6.2	11.0 13.0 14.7 14.9 12.6 13.6 16.9 19.5	104. 7 116. 9 134. 6 144. 6 140. 2 175. 6 208. 9 226. 9	53. 1 59. 8 69. 9 75. 0 70. 5 85. 0 106. 3 117. 6	14.7 17.5 20.2 22.1 21.3 31.5 37.4	21. 4 23. 2 26. 3 27. 4 26. 7 32. 6 36. 9	15.5 16.4 18.3 20.2 21.7 26.6 28.3	3.8 4.6 4.8 6.8 9.6 6.1 8.1 9.6		
1975: V	169.8 193.2 219.5 221.4	163. 8 187. 0 213. 2 215. 4	19.2 18.4 18.9 20.5	5.8 5.7 5.5 5.8	13.4 12.7 13.5 14.7	144.6 168.5 194.3 195.0	65.3 80.3 97.2 97.0	26. 5 30. 5 35. 2 33. 7	27.9 31.5 34.7 36.2	24. 9 26. 3 27. 1 28. 0	6.0 6.2 6.3 6.0		
1976: 11 V	235. 2 239. 6 246. 4 238. 3	226. 5 232. 0 238. 0 230. 6	22. 3 22. 7 23. 2 23. 3	6.0 5.9 5.9 6.1	16.3 16.8 17.2 17.2	204.2 209.3 214.8 207.3	104.2 108.0 108.8 104.2	36. 4 35. 6 39. 6 38. 1	35.6 37.4 37.9 36.7	28. 1 28. 3 28. 5 28. 4	8.6 7.6 8.4 7.7		
1977: 1 11 111	243. 0 259. 7 272. 7	232. 9 249. 0 263. 1	24. 2 25. 0 26. 4	6. 1 6. 3 6. 2	18. 1 18. 7 20. 3	208. 7 224. 0 236. 7	107.2 119.0 120.8	34. 8 36. 4 42. 6	38. 3 38. 8 42. 0	28.5 29.9 31.4	10. 1 10. 7 9. 6		

¹ Consists of the following industries: banking; credit agencies other than banks; security and commodity brokers, dealers, and services; insurance carriers; regulated investment companies; small business investment companies; and real estate investment trusts. ² See Table B-82 for industry detail. ³ Consists of transportation, communications, electric, gas, and sanitary services.

1

Note, --The industry classification is on a company basis and is based on the 1972 Standard Industrial Classification (SIC) beginning 1948, and on the 1942 SIC prior to 1948.

Source: Department of Commerce, Bureau of Economic Analysis.

TABLE B-82.—Corporate profits of manufacturing industries, 1929-77

facti			None	lurable g	goods				Du	irable goo	ds		
	Total manu- factur- ing	Total	Food and kindred prod- ucts	Chem- icals and allied prod- ucts	Petro- leum and coal prod- ucts	Other	Total	Primary metal indus- tries	Fabri- cated metal products	Machin- ery, except electri- cal	Electric and elec- tronic equip- ment	Motor vehicles and equip- ment	Other
929	5. 2	2.6					2.6						
933	4	.0					4						
939	3.3	1.7					1.7						
940 941 942 943 944 945 945 945 945 945 945 945 946 946 947 948	5.5 9.5 11.8 13.8 13.2 9.7 9.0 13.6 17.6 16.2	2.4 3.1 4.6 5.7 5.9 5.2 6.6 7.8 10.0 8.1	1.9 1.6	1. 7 1. 8	2.8 1.9	3.7 2.8	3.1 6.4 7.2 8.1 7.4 4.5 2.4 5.8 7.5 8.1	 1.6 1.5	 	 1.2 1.3	 0. 7 .8	 1. 4 2. 1	 1.9 1.9
950 951 952 953 954 955 956 956 956 956 956	20.9 24.6 21.7 22.0 19.9 26.0 24.7 24.0 19.4 26.2	8.9 11.4 9.9 10.1 9.4 11.8 11.9 10.7 10.0 12.7	1.6 1.4 1.7 1.8 1.6 2.2 1.8 1.8 2.1 2.6	2.3 2.8 2.2 2.2 3.0 2.8 2.8 2.8 2.5 3.4	2.3 2.7 2.3 2.8 2.7 3.0 3.3 2.6 2.1 2.5	2.7 4.4 3.6 3.3 2.9 3.6 4.1 3.6 3.3 4.2	12.0 13.2 11.7 11.9 10.5 14.3 12.8 13.3 9.3 13.5	2.3 3.1 1.9 2.5 1.7 2.9 3.0 3.0 1.9 2.3	1.1 1.3 1.0 1.0 1.0 1.0 1.1 1.1 1.1 .9 1.1	1.6 2.3 2.3 1.9 1.7 1.7 2.1 2.0 1.4 2.1	1.2 1.3 1.5 1.4 1.2 1.1 1.2 1.5 1.3 1.7	3.1 2.4 2.4 2.1 4.1 2.2 2.6 .9 2.9	2:22:22:22:22:22:22:22:22:22:22:22:22:2
960 961 962 963 964 965 965 965 965 965 968 968	23.9 23.0 26.0 28.7 31.9 38.3 41.6 37.9 41.2 36.8	11.9 11.7 11.9 12.8 14.4 15.8 18.0 17.3 18.8 17.7	2.1 2.3 2.3 2.7 2.8 3.1 3.1 3.2 2.9	3.1 3.2 3.6 3.9 4.5 4.8 4.2 5.0 4.6	2.5 2.2 2.1 2.4 2.8 3.8 3.6 3.3	4.2 4.3 4.5 5.8 6.2 7.0 6.9	12.0 11.3 14.1 15.9 17.5 22.6 23.5 20.6 22.4 19.2	2.1 1.5 1.6 2.4 3.1 3.6 2.7 2.0 1.4	.9 1.0 1.2 1.2 1.4 2.0 2.4 2.4 2.4 2.0	1.8 1.8 2.3 2.4 3.1 3.8 4.4 4.0 4.1 3.6	1.3 1.3 1.5 1.6 2.5 3.0 2.9 2.8 2.2	3.0 2.5 4.0 4.9 6.1 5.1 3.9 5.5 4.8	2: 3: 3: 4: 5: 5: 5: 5: 5:
970 971 972 973 974 974 975 976 976	27.1 32.4 40.6 44.1 36.6 47.9 66.3 74.7	16.8 17.3 18.1 20.1 25.1 29.4 36.4 37.7	3.5 3.3 2.8 2.2 3.0 7.4 8.3	3.9 4.2 5.0 5.8 5.1 5.9 7.4	3.6 3.6 3.5 4.9 10.2 7.8 9.9	5.8 6.2 6.8 7.2 6.8 8.4 10.8	10.3 15.1 22.5 24.0 11.5 18.5 29.9 37.0	.9 .5 1.6 2.0 4.9 3.3 2.4	1.2 1.3 2.1 2.6 1.2 2.9 3.5	2.7 2.7 3.9 4.5 1.5 4.3 5.9	1.1 1.8 2.9 2.6 .3 2.0 3.7	1.4 4.9 5.9 5.8 .2 2.0 7.2	3. 6. 6. 3. 4. 7.
1975: I II III. IV.	29, 4 43, 4 59, 6 59, 1	20. 4 28. 1 33. 7 35. 3	5.8 7.6 8.2 7.9	3.9 5.4 6.7 7.4	5.6 7.6 8.7 9.2	5.0 7.5 10.1 10.8	9.0 15.4 25.9 23.8	5.9 2.7 2.5 2.1	1.7 2.9 3.9 3.2	2.4 4.1 5.3 5.2	.7 1.9 2.7 2.7	3.0 .7 5.6 4.8	1. 3. 6. 5.
1976: 1 11 111. 1V.	65. 3 68. 7 68. 4 62. 9	38. 1 36. 2 37. 4 33. 9	8.7 7.7 9.7 7.1	8.0 7.8 7.3 6.6	10. 4 9. 9 9. 3 9. 9	11.0 10.9 11.2 10.3	27.2 32.5 31.0 29.0	2.9 3.5 2.2 1.1	3.4 3.8 3.7 3.0	5.2 5.7 6.3 6.6	3.1 3.9 3.9 4.0	6.8 7.8 7.3 6.9	5. 7. 7. 7.
1977: I	65.2 76.4	33.7 37.0	5.1 5.6	7.7 8.3 8.1	9.2 10.5	11.7 12.6 14.2	31.5 39.4	1.0	3.2 4.1 4.3	6.8 7.7	4.6 5.3 5.0	8.0 9.8 8.5	7.

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

See footnotes at end of table.

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TABLE B-82.--Corporate profits of manufacturing industries, 1929-77--Continued [Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Corp	orate pr	ofits befo	ore dedu	ction of c	apital c	consumption allowances, with inventory valuation adjustment								
		Nondurable goods						Durable goods							
Year or quarter	Total manu- factur- ing	Total	Food and kindred prod- ucts	Chem- icals and allied prod- ucts	Petro- leum and coal prod- ucts	Other	Total	Primary metal indus- tries	Fabri- cated metal products	Machin- ery, except electri- cal	Electric and elec- tronic equip- ment	Motor vehicles and equip- ment	Other		
1929	7.1	3, 6					3.4								
1933	1.3	1.1					.2								
939	4.9	2.6		- 			2.3								
1940 1941 1942 1943 1945 1945 1946 1947 1948 1949	7.2 11.4 14,2 16.6 16.5 13.0 11.2 16.3 20.8 19.8	3.4 4.1 5.9 7.1 7.5 7.0 7.9 9.3 11.8 10.1	2.2 2.0	2.0	3. 4 2. 6	4.2	3.8 7.2 8.4 9.5 9.0 6.0 3.3 6.9 9.0 9.7	 1.9 1.9	1.0 .9	 1.5 1.6	 0.8 .9	 1.6 2.3	2.2		
1950 1951 1952 1953 1954 1955 1956 1955 1957 1958 1958	24.9 29.1 26.9 28.3 27.1 34.3 33.6 33.9 29.8 37.1	11. 1 13. 9 12. 7 13. 2 13. 1 16. 0 16. 5 15. 7 15. 4 18. 4	2.1 2.0 2.3 2.3 2.3 2.9 2.5 2.6 3.0 3.6	2.7 3.2 2.8 3.0 3.9 3.8 3.8 3.8 3.8 4.6	3.1 3.6 3.2 3.9 4.1 4.6 4.9 4.4 4.0 4.5	3.3 5.1 4.4 4.1 3.8 4.6 5.2 4.9 4.7 5.7	13.7 15.3 14.2 15.0 14.1 18.3 17.2 18.2 14.4 18.7	2.8 3.6 2.6 3.5 2.9 4.3 4.5 3.2 3.6	1.3 1.5 1.3 1.2 1.2 1.4 1.4 1.5 1.3 1.5	1.9 2.6 2.7 2.3 2.2 2.8 2.8 2.7 2.2 2.9	1.4 1.5 1.7 1.6 1.5 1.6 2.0 1.8 2.2	3.3 2.7 2.7 3.0 2.5 4.6 2.9 3.3 1.6 3.7	3.0 3.3 3.3 3.7 4.4 4.2 4.2 4.2 4.2 4.8		
1960 1961 1962 1963 1964 1965 1965 1966 1967 1968 1968 1969	35.5 35.2 40.2 43.9 48.0 55.9 60.5 58.7 63.9 61.5	17.8 18.0 19.1 20.5 22.6 24.4 27.2 27.1 29.3 29.2	3.2 3.4 3.6 4.0 4.2 4.0 4.9 4.7 4.9 4.8	4.4 4.5 4.8 5.3 5.7 6.5 6.8 6.3 7.3 7.1	4.5 4.3 4.4 4.7 5.1 5.8 6.3 7.2 7.3 7.1	5.8 5.7 6.2 6.5 7.5 8.1 9.2 8.9 9.9	17.7 17.2 21.1 23.3 25.5 31.4 33.3 31.6 34.6 32.3	3.4 2.9 3.3 4.3 5.1 5.7 5.0 4.5 4.0	1.4 1.5 1.8 1.9 2.1 2.7 3.1 3.3 3.4 3.0	2.7 2.8 3.4 5.2 5.8 5.7 6.0 5.7	1.8 1.9 2.1 2.2 3.3 3.9 3.9 4.1 3.7	4.0 3.5 5.2 6.3 6.3 8.0 7.5 6.4 8.1 7.5	4.4 4.6 5.3 5.7 6.2 7.1 7.3 8.6 8.4		
1970 1971 1972 1973 1974 1975 1976 1977 p	53. 1 59. 8 69. 9 75. 0 70. 5 85. 0 106. 3	29.0 30.4 32.2 35.1 40.8 46.6 55.2	5.6 5.5 5.1 4.8 5.7 10.4 11.7	6.6 7.1 8.2 9.0 8.6 9.8 11.9	7.6 7.9 8.0 9.7 15.1 13.0 15.3	9.2 9.9 10.8 11.6 11.5 13.4 16.3	24. 1 29. 4 37. 6 39. 9 29. 7 38. 3 51. 1	3.5 3.1 4.1 4.7 8.1 6.7 6.1	2.3 2.4 3.3 3.8 2.6 4.5 5.2	5.2 5.4 6.8 7.6 4.9 7.8 9.6	2.8 3.7 5.1 4.9 3.0 4.8 6.6	3.8 7.3 8.4 8.3 3.1 5.1 10.7	6. 5 7. 5 9. 9 10. 6 8. 1 9. 4 12. 8		
1975: V	65.3 80.3 97.2 97.0	36.9 45.2 51.3 53.0	8.7 10.7 11.2 11.0	7.7 9.3 10.7 11.5	10.5 12.8 14.1 14.6	9.9 12.4 15.3 16.0	28.5 35.1 45.9 44.0	9, 3 6, 0 5, 9 5, 5	3.2 4.4 5.4 4.8	5.9 7.8 8.9 8.7	3.5 4.8 5.5 5.5	.2 3.7 8.6 8.1	6.3 8.4 11.5 11.3		
1976: I II III IV	1	56, 3 54, 8 56, 5 53, 3	11.9 11.0 13.2 10.6	12.4 12.2 11.9 11.2	15.7 15.2 14.7 15.5	16.3 16.3 16.8 16.0	47.9 53.2 52.3 50.9	6.5 7.2 6.0 4.9	5.1 5.5 5.4 4.7	8.9 9.3 10.0 10.3	6.0 6.8 6.8 7.0	10.0 11.1 10.8 10.8	11.4 13.3 13.3 13.3		
1977 : 1	107. 2 119. 0 120. 8	53.5 57.2 60.7	8.7 9.3 11.8	12.5 13.2 13.2	14, 8 16, 1 15, 5	17.6 18.6 20.2	53.6 61.8 60.1	4.9 6.7 4.4	4.9 5.8 6.1	10, 5 11, 5 12, 7	7.6 8.3 8.0	11.9 13.6 12.3	13.9 15.9 16.5		

Note.—The industry classification is on a company basis and is based on the 1972 Standard Industrial Classification (SIC) beginning 1948, and on the 1942 SIC prior to 1948.

Source: Department of Commerce, Bureau of Economic Analysis.

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		All manu corpor		!	Dı	ırable god	ods indus	stries	Nondurable goods industries					
Year or guarter		Pro	fits			Profits			_	Profits				
quartor	Sales (net)	Before income taxes 1	After income taxes	Stock- holders' equity ²	Sales (net)	Before income taxes 1	After income taxes	Stock- holders' equity ²	Sales (net)	Before income taxes t	After income taxes	Stock- holders' equity ²		
1947 1948 1949	150. 7 165. 6 154. 9	16.6 18.4 14.4	10. 1 11. 5 9. 0	65. 1 72. 2 77. 6	66.6 75.3 70.3	7.6 8.9 7.5	4.5 5.4 4.5	31, 1 34, 1 37, 0	84. 1 90. 4 84. 6	9.0 9.5 7.0	5.6 6.2 4.6	34. 0 38. 1 40. 6		
1950 1951 1952 1953 1954		23. 2 27. 4 22. 9 24. 4 20. 9	12.9 11.9 10.7 11.3 11.2	83.3 98.3 103.7 108.2 113.1	86.8 116.8 122.0 137.9 122.8	12.9 15.4 12.9 14.0 11.4	6.7 6.1 5.5 5.8 5.6	49.8	95. 1 128. 1 128. 0 128. 0 128. 0 125. 7	10.3 12.1 10.0 10.4 9.6	6. 1 5. 7 5. 2 5. 5 5. 6	43. 5 51. 1 53. 9 55. 7 58. 2		
1955 1956 1957 1958 1959	278. 4 307. 3 320. 0 305. 3 338. 0	28.6 29.8 28.2 22.7 29.7	15. 1 16. 2 15. 4 12. 7 16. 3	120, 1 131, 6 141, 1 147, 4 157, 1	142. 1 159. 5 166. 0 148. 6 169. 4	16, 5 16, 5 15, 8 11, 4 15, 8	8, 1 8, 3 7, 9 5, 8 8, 1	70.5	136.3 147.8 154.1 156.7 168.5	12, 1 13, 2 12, 4 11, 3 13, 9	7.0 7.8 7.5 6.9 8.3	61.3 66.4 70.6 74.6 79.2		
1960. 1961. 1962. 1963. 1964.	345. 7 356. 4 389. 9 412. 7 443. 1	27.5 27.5 31.9 34.9 39.6	15. 2 15. 3 17. 7 19. 5 23. 2	165. 4 172. 6 181. 4 189. 7 199. 8	173. 9 175. 2 195. 5 209. 0 226. 3	14. 0 13. 6 16. 7 18. 5 21. 2	7.0 6.9 8.6 9.5 11.6	84.9 89.1 93.3	171.8 181.2 194.4 203.6 216.8	13.5 13.9 15.1 16.4 18.3	8, 2 8, 5 9, 2 10, 0 11, 6	83. 1 87. 7 92. 3 96. 3 101. 3		
1965 1966 1967 1968 1969	492, 2 554, 2 575, 4 631, 9 694, 6	46.5 51.8 47.8 55.4 58.1	27.5 30.9 29.0 32.1 33.2	211.7 230.3 247.6 265.9 289.9	257. 0 291. 7 300. 6 335. 5 366. 5	26. 2 29. 2 25. 7 30. 6 31. 5	14.5 16.4 14.6 16.5 16.9	105. 4 115. 2 125. 0 135. 6 147. 6	235. 2 262. 4 274. 8 296. 4 328. 1	20. 3 22. 6 22. 0 24. 8 26. 6	13.0 14.6 14.4 15.5 16.4	106. 3 115. 1 122. 6 130. 3 142. 3		
1970 1971 1972 1973		48. 1 53. 2 63. 2 81. 4	28.6 31.3 36.5 48.1	306. 8 320, 9 343. 4 374. 1	363. 1 382. 5 435. 8 527. 3	23. 0 26. 5 33. 6 43. 6	12.9 14.5 18.4 24.8	155. 1 160. 6 171. 4 188. 7	345. 7 368. 9 413. 7 489. 9	25.2 26.7 29.6 37.8	15.7 16.7 18.0 23.3	151.7 160.3 172.0 185.4		
1973: IV	275.1	21.4	13.0	386. 4	140.1	10.8	6.3	194.7	135.0	10.6	6.7	191.7		
<u>New series</u> : ³ 1974 1975 1976	1, 060. 6 1, 065. 2 1, 203. 2	92. 1 79. 9 104. 9	58.7 49.1 64.5	395. 0 423. 4 462. 7	529. 0 521. 1 589. 6	41. 1 35. 3 50. 7	24.7 21.4 30.8	196. 0 208. 1 224. 3	531.6 544.1 613.7	51.0 44.6 54.3	34. 1 27. 7 33. 7	199.0 215.3 238.4		
1973; IV	1	20.6	13.2	368.0	122.7	10.1	6.2	185.8	113.9	10. 5	7.0	182.1		
19 74 : V	. [[] [] []	21.2 25.9 25.0 20.1	13.5 16.3 15.5 13.4	379.0 389.9 402.7 408.4	120. 3 136. 8 134. 8 137. 1	9.5 12.6 10.5 8.6	5.7 7.6 6.2 5.2	189.4 194.1 199.9 200.8	121. 7 132. 6 137. 3 140. 0	11.7 13.3 14.5 11.5	7.8 8.7 9.4 8.2	189.6 195.8 202.8 207.6		
1975 : 1 II IIJ IV	247. 1 265. 8 271. 0 281. 3	15.4 20.2 21.7 22.6	9.3 12.4 13.2 14.2	410. 7 420. 2 427. 4 435. 5	121. 3 132. 4 131. 0 136. 3	7.0 9.3 9.1 10.0	4. 1 5. 7 5. 5 6. 2	201. 7 207. 3 209. 7 213. 7	125. 8 133. 3 140. 0 145. 0	8.4 10.9 12.7 12.6	5.2 6.8 7.7 8.1	209.0 212.9 217.6 221.8		
1976: V	284.2	24. 5 29. 3 26. 2 24. 9	14.8 18.1 16.0 15.6	446. 5 460. 1 468. 9 475. 3	137.8 153.7 146.2 151.8	11.3 14.8 12.2 12.4	6.7 9.0 7.4 7.7	216.7 223.4 227.1 229.9	146. 3 153. 9 155. 4 158. 1	13.2 14.5 14.0 12.6	8.1 9.1 8.6 7.9	229.8 236.7 241.7 245.5		
1977: I 	. 339.6	25.6 32.4 27.3	15.6 19.7 16.8	480. 3 493. 5 502. 8	171.3	12.6 17.0 13.1	7.5 10.3 7.9	232.5 240.3 244.9	159.7 168.4 167.1	13.0 15.4 14.3	8.1 9.5 8.8	247.8 253.2 257.9		

TABLE B-83.-Sales, profits, and stockholders' equity, all manufacturing corporations, 1947-77 (Billions of dollars)

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.
 Annual data are average equity for the year (using four end-of-quarter figures).
 See "Quarterly Financial Report," first quarter 1974, Federal Trade Commission.

Note.—Data are not necessarily comparable from one period to another due to changes in accounting procedures, industry classifications, sampling procedures, etc. For explanatory notes concerning compilation of the series, see "Quarterly Financial Report," Federal Trade Commission.

Source: Federal Trade Commission.

	incom	tio of profits afte e taxes (annual Iders' equity—p	rate)	Profits per do	after income tax llar of sales—cer	ies 1ts
Year or quarter	All	Durable	Nondurable	All	Durable	Nondurable
	manufacturing	goods	goods	manufacturing	goods	goods
	corporations	industries	industries	corporations	industries	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	4.8	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 1956 1957 1957 1958 1958	12.6 12.3 10.9 8.6 10.4	13.8 12.8 11.3 8.0 10.4	11.4 11.8 10.6 9.2 10.4	5, 4 5, 3 4, 8 4, 2 4, 8	5.7 5.2 4.8 3.9 4.8	5, 1 5, 3 4, 9 4, 4 4, 9
1960 1961 1962 1963 1964	8.9 9.8 10.3	8.5 8.1 9.6 10.1 11.7	9.8 9.6 9.9 10.4 11.5	4.4 4.3 4.5 4.7 5.2	4.0 3.9 4.4 4.5 5.1	4.8 4.7 4.7 4.9 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		12.9	14.0	4.7	4.5	5, 0
<u>New series:</u> ² 1974 1975	14. 9	12, 6	17. 1 12. 9	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
1973: IV		13. 3	15, 3	5.6	5.0	6.1
1974: 1	14.3	12. 1	16.4	5.6	4.8	6.4
II	16.7	15. 6	17.8	6.0	5.5	6.6
III	15.4	12. 3	18.5	5.7	4.6	6.8
IV	13.2	10. 4	15.8	4.8	3.8	5.9
1975: I	9.0	8.1	10.0	3.7	3.4	4. 1
II	11.8	10.9	12.8	4.7	4.3	5. 1
III	12.4	10.5	14.1	4.9	4.2	5. 5
IV	13.1	11.6	14.5	5.1	4.5	5. 6
1976:	13. 3	12. 4	14.2	5. 2	4.9	5.6
	15. 7	16. 1	15.4	5. 9	5.8	5.9
	13. 7	13. 0	14.3	5. 3	5.1	5.6
V	13. 1	13. 4	12.9	5. 0	5.1	5.0
1977: 1	13.0	13.0	13.0	5. 0	4.9	5.0
	16.0	17.1	15.0	5. 8	6.0	5.6
	13.3	12.9	13.7	5. 0	4.8	5.3

 TABLE B-84.—Relation of profits after taxes to stockholders' equity and to sales, all manufac-turing corporations, 1947-77

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 ''Quarterly Financial Report,'' first quarter 1974, Federal Trade Commission.

Note.—Based on data in millions of dollars. See also Note, Table B-83.

Source: Federal Trade Commission.

	tax	ntio of p kes (ann olders' (ual rate) to sto	ck-	Profits after income taxes per dollar of sales—cents				
industry	19	076	1977			1976		1977		
	អា	17		11	111		ıv		11	111
All manufacturing corporations	13.7	13.1	13.0	16.0	13.3	5.3	5.0	5.0	5.8	5.0
Durable goods industries	13.0	13.4	13.0	17.1	12.9	5.1	5.1	4.9	6.0	4.8
Stone, clay, and glass products Primary metal industries	16. 1 8. 3	11.1 7.3	5.1 5.1	17.0 9.6	17.5 8	6.2 3.9	4.6 3.6	2.4 2.4	6.3 3.9	6.4 3
Iron and steel Nonferrous metals	8.7 7.4	7.9 6.1	3.5 8.1	8.8 11.1	-4.4 5.5	3.9 3.8	3.8 3.1	1.6 4.0	3.5 4.8	-1.8 2.8
Fabricated metal products Machinery, except electrical Electrical and electronic equipment. Transportation equipment 2	15.8 15.4 12.3 10.5	12.9 15.5 14.5 15.4	13.7 14.8 12.5 18.6	18.8 17.8 16.4 22.1	15.4 16.2 14.9 12.2	4.9 7.5 4.4 3.5	4.1 7.5 4.9 4.6	4.4 7.1 4.5 5.4	5.6 7.9 5.7 6.0	4.7 7.5 5.2 3.9
Motor vehicles and equipment. Aircraft, guided missiles, and	9.1	16. 9	21.0	24.4	11.3	3.3	5.3	6.2	6.8	3.8
parts	13.0	12.0	14.0	16.1	14.7	3.7	3. 2	4.0	4.3	4.3
Instruments and related products Other durable manufacturing prod-	16. 3	13.9	15.0	15.4	17.2	8.6	7.5	8,4	8.0	9.1
ucts	15.2	13.8	12.6	17.9	18.2	4.4	4.0	3.8	4.9	4.9
Nondurable goods industries	14.3	12.9	13.0	15.0	13.7	5.6	5.0	5.0	5.6	5.3
Food and kindred products Tobacco manufactures Textile mill products Paper and allied products Printing and publishing Chemicals and allied products ?	16.8 16.9 6.6 13.6 16.3 15.3	13.1 15.4 5.3 10.9 15.4 12.8	11.4 16.5 6.8 11.2 12.7 14.9	15.0 19.0 7.0 14.1 18.4 16.8	13.1 15.8 9.7 12.7 17.8 14.8	3.9 9.2 2.0 5.7 5.4 7.5	3.1 7.5 1.6 4.7 5.0 6.4	2.7 8.7 2.0 4.8 4.2 7.0	3.5 10.2 1.8 5.9 5.9 7.7	3.1 8.1 2.8 5.4 6.0 7.1
Industrial chemicals and syn- thetics Drugs	13. 5 18. 7	11.0 16.5	13.7 18.4	16.0 18.8	12. 1 18. 1	6.7 12.6	5.5 11.0	6.5 12.1	7.3 12.3	5.9 12.1
Petroleum and coal products	13.7	13.8	13.9	13. 9	13.7	8.1	7.8	7.7	7.7	7.7
Rubber and miscellaneous plastics products	7.6	11.4	12.4	15.0	10.9	2.8	4.0	4.3	4.8	3.6
Other nondurable manufacturing products	14.5	11.4	10.6	15.6	11.1	3. 1	2.4	2.4	3. 4	2. 3

 TABLE B-85.—Relation of profits after taxes to stockholders' equity and to sales, all manufactur-ing corporations, by industry group, 1976-77

¹ Ratios based on equity at end of quarter. ² Includes other industries not shown separately.

Source: Federal Trade Commission.

				Sources					Uses		
					External				Pur-	in-	Discrep- ancy
Year or quarter	Total	Internal ¹		Credit	Credit market funds			Total	chase of physi-	crease in finan-	(sources less uses)
			Total	Total	Long- term 2	Short- term ³	Other		cal assets 4	cial assets	
1946 1947 1948 1949	18.4 26.7 28.5 19.7	7.8 12.6 18.8 19.3	10.6 14.1 9.8 .4	6.9 8.4 6.5 3.1	3.6 5.4 6.7 4.9	3.3 3.0 2 -1.8	3.7 5.8 3.3 2.7	17.1 25.3 24.9 17.9	18.5 17.0 19.9 14.4	-1.4 8.4 5.0 3.5	1.3 1.4 3.6 1.9
1950 1951 1952 1953 1953 1954	41. 8 35. 9 29. 2 27. 3 29. 1	17.8 19.7 21.2 21.1 23.5	24.0 16.2 8.0 6.1 5.7	8.1 10.6 9.5 5.7 6.4	4.2 6.4 8.0 6.0 6.7	3.9 4.1 1.4 3 3	15.9 5.6 1.4 .5 8	39.9 37.2 29.1 27.7 27.7	23.6 29.8 24.5 25.4 22.8	16. 4 7. 4 4. 6 2. 3 4. 9	1,9 -1.3 .1 5 1,4
1955 1956 1957 1957 1958 1958	41.3	28.8 28.7 30.4 29.6 35.0	23. 2 15. 4 11. 9 11. 7 20. 2	10.2 12.9 12.3 10.5 12.5	6.4 7.5 10.4 10.5 8.1	3.8 5.4 1.9 0 4.4	13.0 2.5 4 1.2 7.7	49. 2 - 41. 1 39. 4 38. 7 51. 7	32.7 37.1 35.2 27.9 37.5	16.5 4.0 4.2 10.8 14.2	2.8 3.0 2.9 2.5 3.5
1960 1961 1962 1963 1963 1964	54.3	34.7 35.3 41.6 44.5 50.1	12.9 19.1 17.2 21.4 22.2	11.9 12.4 12.3 12.5 14.7	7.5 10.8 9.4 8.4 8.8	4.5 1.6 3.0 4.0 5.9	1.0 6.7 4.9 9.0 7.4	40. 6 50. 4 54. 9 59. 1 64. 1	38.0 37.2 43.8 44.9 50.7	2.7 13.2 11.1 14.2 13.4	7.0 3.9 3.9 6.9 8.2
1965 1966 1967 1968 1968	96.9 93.7 114.5	56. 1 60. 5 61. 3 62. 3 61. 7	34.9 36.4 32.4 52.1 56.7	20.5 25.5 29.3 31.8 38.2	9.3 15.9 21.6 18.8 20.7	11.2 9.6 7.8 13.0 17.6	14.4 10.9 3.1 20.3 18.5	82. 2 88. 3 89. 7 105. 8 112. 6	62.0 75.7 73.0 77.2 84.3	20. 2 12. 6 16. 7 28. 7 28. 3	8.8 8.6 4.0 8.6 5.8
1970 1971 1972 1973 1974	127.1 152.9 180.7	58.9 68.6 80.8 83.8 75.7	45. 5 58. 5 72. 2 96. 9 105. 0	40.7 44.5 57.7 72.7 81.8	32.1 40.6 40.7 37.0 39.1	8.6 3.9 17.0 35.7 42.7	4.8 14.1 14.5 24.2 23.2	95. 9 114. 6 136. 5 162. 6 163. 5	80. 3 86. 0 100. 3 123. 3 134. 7	15. 6 28. 6 36. 2 39. 3 28. 9	8.4 12.5 16.5 18.1 17.1
1975 1976	148.4 213.5	107. 8 125. 8	40.6 87.7	36.6 58.3	49.3 48.6	-12.7 9.7	4.1 29.4	132.3 197.2	98.6 140.3	33.7 56.9	16.2 16.3
1976: 1 II III IV	220.4	125. 4 125. 0 130. 5 122. 3	94. 4 95. 5 73. 8 87. 2	52. 1 60. 2 51. 7 69. 4	50. 1 46, 3 51. 0 46, 6	2.1 13.4 .7 22.8	42.3 35.3 22.1 17.8	203. 2 202. 5 192. 6 190. 5	134. 3 143. 1 150. 4 133. 4	68.9 59.4 42.1 57.1	16.6 17.9 11.7 19.0
1977: I II III	240.4	125. 7 134. 8 145. 3	143. 0 105. 6 95. 4	86.6 87.7 65.5	42. 4 55. 8 49. 3	44. 3 31. 8 16. 2	56. 3 17. 9 29. 9	257. 4 233. 6 232. 0	153.7 169.5 173.7	103. 7 64. 1 58. 3	11.3 6.8 8.7

TABLE B-86.-Sources and uses of funds, nonfarm nonfinancial corporate business, 1946-77 [Billions of dollars; quarterly data at seasonally adjusted annual rates]

Undistributed profits (after inventory valuation and capital consumption adjustments), capital consumption allowances, a nd foreign branch profits.
 Stocks, bonds, and mortgages.
 Bank loans, commercial paper, finance company loans, bankers' acceptances, and Government loans.
 Plant and equipment, residential structures, inventory investment, and mineral rights.

Source: Board of Governors of the Federal Reserve System.

. <u></u>							naisj						
			Cu	rrent ass	ets				Curr	ent liabil	ities		
End of year or quarter	Total	Cash on hand and in banks ¹	U.S. Gov- ern- ment securi- ties ²	Re- ceiv- ables from U.S. Gov- ern- ment 3	Notes and ac- counts receiv- able	In- ven- tories	Other cur- rent as- sets 4	Total	Ad- vances and pre- pay- ments, U.S. Gov- ern- ment ³	Notes and ac- counts pay- able	Fed- eral in- come tax liabili- ties	Other cur- rent lia- bili- ties⁵	Net work- ing capi- tal
						All c	orporati	ons¢				, <u> </u>	
1939		10.8	2.2		22.1	18.0	1.4	30.0		21.9	1.2	6.9	24.5
1940	60. 3 72. 9 83. 6 93. 8 97. 2 97. 4 108. 1 123. 6 133. 0 133. 1	13.1 13.9 17.6 21.6 21.6 21.7 22.8 25.0 25.3 26.5	2.0 4.0 10.1 16.4 20.9 21.1 15.3 14.1 14.8 16.8	0.1 .6 4.0 5.0 4.7 2.7 .7 .38 42 43	23.9 27.4 23.3 21.9 21.8 23.2 30.0 3.3 2.4 3.0	19.8 25.6 27.3 27.6 26.8 26.3 37.6 44.6 48.9 45.3	1.5 1.4 1.3 1.3 1.4 2.4 1.7 1.6 1.6 1.4	32.8 40.7 47.3 51.6 51.7 45.8 51.9 61.5 64.4 60.7	39	22.6 25.6 24.0 24.1 25.0 24.8 31.5 .6 .3 .5	2.5 7.1 12.6 16.6 15.5 10.4 8.5 10.7 11.5 9.3	7.1 7.2 8.7 9.4 9.7 11.8 13.2 13.5 14.0	27.5 32.3 36.3 42.1 45.6 51.6 56.2 62.1 68.6 72.4
1950 1951 1952 1953 1954 1955 1956 1956 1957 1958 1959	161.5	28. 1 30. 0 30. 8 31. 1 33. 4 34. 6 34. 8 34. 9 37. 4 36. 3	19.7 20.7 19.9 21.5 19.2 23.5 19.1 18.6 18.8 22.8	1.1 2.7 2.8 2.6 2.4 2.3 2.6 2.8 2.8 2.8 2.8 2.9	55.7 58.8 64.6 65.9 71.2 86.6 95.1 99.4 106.9 117.7	55.1 64.9 65.8 67.2 65.3 72.8 80.4 82.2 81.9 88.4	1.7 2.1 2.4 3.1 4.2 5.9 6.7 7.5 9.1	79.8 92.6 96.1 98.9 99.7 121.0 130.5 133.1 136.6 153.1	.4 1.3 2.3 2.2 2.4 2.3 2.4 2.3 1.7 1.7	47.9 53.6 57.0 57.3 73.8 81.5 84.3 88.7 99.3	16.7 21.3 18.1 18.7 15.5 19.3 17.6 15.4 12.9 15.0	14.9 16.5 18.7 20.7 22.5 25.7 29.0 31.1 33.3 37.0	81.6 86.5 90.1 91.8 94.9 103.0 107.4 111.6 118.7 124.2
1960 1961	289.0 306.8	37.2 41.1	20. 1 20. 0	3.1 3.4	126. 1 135. 8	91.8 95.2	10.6 11.4	160. 4 171. 2	1.8 1.8	105.0 112.8	13.5 14.1	40. 1 42. 5	128.6 135.6
					N	onfinanc	cial corp	oration	s 7				
1961 1962 1963 1964 1965 1965 1966 1967 1968 1969	269. / 288. 2 305. 6 336. 0 364. 0 386. 2 426. 5 473. 6	34. 8 37. 1 39. 8 40. 5 42. 8 41. 9 45. 5 48. 2 47. 9	16. 5 16. 8 16. 7 15. 8 14. 4 13. 0 10. 3 11. 5 10. 6	3.4 3.7 3.6 3.4 3.9 4.5 5.1 5.1 4.8	94. 5 99. 5 106. 9 116. 5 130. 2 142. 1 150. 2 168. 8 192. 2	95. 0 100. 5 106. 8 113. 1 126. 6 142. 8 153. 1 166. 0 186. 4	10. 5 12. 1 14. 4 16. 3 18. 1 19. 7 22. 0 26. 9 31. 6	123. 7 132. 4 145. 5 156. 6 178. 8 199. 4 211. 3 244. 1 287. 8	1.8 2.0 2.5 2.7 3.1 4.4 5.8 6.4 7.3	82, 6 86, 7 94, 5 102, 2 118, 4 133, 1 141, 3 162, 4 191, 9	13. 3 14. 3 15. 7 16. 2 18. 3 17. 4 13. 2 14. 3 12. 6	26.0 29.4 32.8 35.5 39.0 44.5 51.0 61.0 76.0	131.0 137.3 142.7 149.0 157.2 164.6 174.9 182.4 185.7
1970 1971 1972 1973 1974 1975 1976	492, 3 529, 6 573, 5 643, 3 712, 2 731, 6 816, 8	50. 2 53. 3 57. 5 61. 6 62. 7 68. 1 77. 0	7.7 11.0 9.3 11.0 11.7 19.4 26.4	4.2 3.5 3.4 3.5 3.5 3.6 4.3	294.6 323.9	193. 3 200. 4 215. 2 246. 7 288. 0 285. 8 315. 4	35.0 43.8 48.1 54.4 56.6 60.0 69.8	304.9 326.0 352.2 401.0 450.6 457.5 499.9	6.6 4.9 4.0 4.3 5.2 6.4 7.0	204.7 215.6 230.4 261.6 287.5 281.6 295.9	10, 0 13, 1 15, 1 18, 1 23, 2 20, 7 26, 8	83. 6 92. 4 102. 6 117. 0 134. 8 148. 8 170. 2	187. 4 203. 6 221. 3 242. 3 261. 5 274. 1 316. 9
1976: I II IV	753.5 775.4 791.8 816.8	68.4 70.8 71.1 77.0	21.7 23.3 23.9 26.4	3.6 3.7 4.3 4.3	307.3 318.1 324.2 323.9	288. 8 295. 6 302. 1 315. 4	63.6 63.9 66.3 69.8	465. 9 475. 9 484. 1 499. 9	6.4 6.8 7.0 7.0	280.5 287.0 284.7 295.9	23.9 22.0 24.9 26.8	155.0 160.1 167.5 170.2	287.6 299.4 307.7 316.9
1977: 1 II III	845, 3 874, 7 909, 8	75.0 77.9 79.1	27.3 24.1 24.1	4.6 4.8 5.3	342.0 356.6 373.8	322.1 332.5 343.1	74.3 78.8 84.5	516, 6 532, 0 556, 3	6.8 5.7 6.2	302.2 313.2 323.6	28.6 24.5 26.9	179. 0 188. 6 199. 7	328.7 342.7 353.5

TABLE B-87. - Current assets and liabilities of U.S. corporations, 1939-77 [Billions of dollars]

1 Includes time certificates of deposit.

Includes time certificates of deposit.
 Includes Federal agency issues.
 Receivables from and payables to the U.S. Government do not include amounts offset against each other on corpora-tions' books or amounts arising from subcontracting which are not directly due from or to the U.S. Government, Wherever possible, adjustments have been made to include U.S. Government advances offset against inventories on corporations' books.
 Includes marketable investments (other than Government securities and time certificates of deposit) as well as sundry current certificates of deposit) as well as sundry

current assets.

Includes:
 Includes:

Note.—Year-end data through 1971 are based on "Statistics of Income" (Department of the Treasury), covering virtually all corporations in the United States. "Statistics of Income" data may not be strictly comparable from year to year because of changes in the tax laws, basis for filing returns, and processing of data for compilation purposes. All other figures shown are estimates based on data compiled from many different sources, including data on corporations registered with the Securities and Exchange Commission.

Source: Federal Trade Commision.

TABLE B-88. -State and municipal and corporate securities offered, 1934-77

				Cor	porate sec	urities off	ered for ca	sh		
	State and municipal securities	T	Type of	corporate	security		Industry	of corpor	ate issuer	
Year or quarter	offered for cash (principal amounts)	Total corpo- rate offer- ings	Com- mon stock	Pre- ferred stock	Bonds and notes	Manu- fac- turing1	Elec- tric, gas, and water 3	Trans- porta- tion \$	Com- munica- tion	Other
1934	939	397	19	6	372	67	133	176		21
1939	(2, 164	87	98	1, 979	604	1, 271	186		103
1940 1941 1942 1943 1944	1, 238 956 524 435 661	2, 677 2, 667 1, 062 1, 170 3, 202	108 110 34 56 163	183 167 112 124 369	2, 386 2, 389 917 990 2, 670	992 848 539 510 1, 061	1, 203 1, 357 472 477 1, 422	324 366 48 161 609		159 96 4 21 109
1945 1946 1947 1948 1948 1949	795 1, 157 2, 324 2, 690 2, 907	6, 011 6, 900 6, 577 7, 078 6, 052	397 891 779 614 736	758 1, 127 762 492 425	4, 855 4, 882 5, 036 5, 973 4, 890	2, 026 3, 701 2, 742 2, 226 1, 414	2, 319 2, 158 3, 257 2, 187 2, 320	1, 454 711 286 755 800	902 571	211 329 293 1,008 946
1950 1951 1952 1953 1953 1954	3, 532	6, 362 7, 741 9, 534 8, 898 9, 516	811 1, 212 1, 369 1, 326 1, 213	631 838 564 489 816	4, 920 5, 691 7, 601 7, 083 7, 488	1, 200 3, 122 4, 039 2, 254 2, 268	2, 649 2, 455 2, 675 3, 029 3, 713	813 494 992 595 778	399 612 760 882 720	1, 300 1, 058 1, 068 2, 138 2, 037
1955 1956 1957 1958 1958	5, 977 5, 446 6, 958 7, 449 7, 681	10, 240 10, 939 12, 884 11, 558 9, 748	2, 185 2, 301 2, 516 1, 334 2, 027	635 636 411 571 531	7, 420 8, 002 9, 957 9, 653 7, 190	2, 994 3, 647 4, 234 3, 515 2, 073	2, 464 2, 529 3, 938 3, 804 3, 258	893 724 824 824 967	1, 132 1, 419 1, 462 1, 424 717	2, 757 2, 619 2, 426 1, 991 2, 733
960 1961 1962 1963 1963 1964	7, 230 8, 360 8, 558 10, 107 10, 544	10, 154 13, 165 10, 705 12, 211 13, 957	1, 664 3, 294 1, 314 1, 011 2, 679	409 450 422 343 412	8, 081 9, 420 8, 969 10, 856 10, 86 5	2, 152 4, 077 3, 249 3, 514 3, 046	2, 851 3, 032 2, 825 2, 677 2, 760	718 694 567 957 982	1,050 1,834 1,303 1,105 2,189	3, 383 3, 527 2, 761 3, 957 4, 980
1965 1966 1967 1968 1968 1969	11,148	14, 782 17, 385 24, 014 21, 261 25, 997	1, 473 1, 901 1, 927 3, 885 7, 640	724 580 881 636 691	12, 585 14, 904 21, 206 16, 740 17, 666	5, 414 7, 056 11, 069 6, 958 6, 346	2, 934 3, 666 4, 935 5, 293 6, 715	702 1, 494 1, 639 1, 564 1, 779	945 2, 003 1, 975 1, 775 2, 172	4, 787 3, 167 4, 396 5, 671 8, 985
970 971 972 973 974	17, 762 24, 370 22, 941 22, 953 22, 824	37, 451 43, 229 39, 705 31, 680 37, 729	7, 037 9, 485 10, 707 7, 642 3, 979	1, 390 3, 683 3, 371 3, 341 2, 253	29, 023 30, 061 25, 628 20, 700 31, 494	10, 647 11, 651 6, 398 4, 832 10, 408	11, 009 11, 721 11, 314 10, 269 12, 837	1, 253 1, 148 860 811 1, 005	5, 291 5, 840 4, 836 4, 872 3, 930	9, 252 12, 867 16, 298 10, 897 9, 551
1975 1976		52, 539 52, 161	7, 414 8, 305	3, 459 2, 789	41, 666 41, 069	18, 651 15, 479	15, 894 14, 395	2, 635 3, 5 9 6	4, 464 3, 561	10, 8 9 5 15, 129
1976: V		13, 743 13, 910 10, 811 13, 698	2, 789 2, 401 1, 422 1, 693	764 720 439 866	10, 191 10, 787 8, 951 11, 140	4, 497 3, 757 2, 982 4, 244	4, 044 3, 140 3, 317 3, 897	1, 087 605 1, 200 704	765 1, 878 378 541	3, 349 4, 531 2, 936 4, 313
1977: I II III	10, 533	12, 095 12, 263 10, 624	1, 866 2, 167 1, 026	751 707 852	9, 479 9, 389 8, 745	2, 774 3, 182 2, 826	3, 019 3, 852 2, 482	354 357 486	1, 415 1, 044 644	4, 536 3, 828 4, 184

¹ Prior to 1948, also includes extractive, radio broadcasting, airline companies, commercial, and miscellaneous company Prior to 1948, also includes telephone, street railway, and bus company issues.
 Prior to 1948, includes railroad issues only.

Note.—Covers substantially all new issues of State, municipal, and corporate securities offered for cash sale in the United States in amounts over \$100,000 and with terms to maturity of more than 1 year; excludes notes issued exclusively to commercial banks, intercorporate transactions, and issues to be sold over an extended period, such as employee-purchase plans. Closed-end investment company issues are included beginning 1973.

Sources: Securities and Exchange Commission, "The Commercial and Financial Chronicle," and "The Bond Buyer."

				stock yields cent) s					
Year or quarter		New York S (Decer	itock Excha nber 31, 19	nge indexe 65=50)²	es	Dow- Jones	Standard & Poor's composite	Dividend-	Earnings-
	Com- posite	indus- trial	Trans- portation	Utility	Finance	industrial average ³	index (1941-43= 10)4	price ratio ^e	price ratio †
1949	9.02					179. 48	15.23	6.59	15.48
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	10.87 13.08 13.81 13.67 16.19 21.54 24.40 23.67 24.56					216. 31 257. 64 270. 76 275. 97 333. 94 442. 72 493. 01 475. 71 491. 66	18. 40 22. 34 24. 50 24. 73 29. 69 40. 49 46. 62 44. 38 46. 24	6.57 6.13 5.80 4.95 4.08 4.09 4.29 3.97	13.99 11.82 9.47 10.26 8.57 7.95 7.55 7.85 6.23 5.78
1959	24.56 30.73 30.01 35.37 33.49 37.51 43.76 47.39 46.15 50.77 55.37 54.67	 46. 18 51. 97 58. 00 57. 44		45. 41 45. 43 44. 19 42. 80	44, 45 44, 45 49, 82 65, 85 70, 49	632. 12 618. 04 691. 55 639. 76 714. 81 834. 05 910. 88 873. 60 879. 12 906. 00 876. 72	57. 38 55. 85 66. 27 62. 38 69. 87 81. 37 85. 26 91. 93 98. 70 97. 84	3, 23 3, 47 2, 98 3, 37 3, 17 3, 01 3, 00 3, 40 3, 20 3, 07 3, 07 3, 24	5, 78 5, 90 4, 62 5, 82 5, 50 5, 32 5, 59 6, 63 5, 73 5, 67 6, 08
1970 1971 1972 1973 1974 1975 1976 1977	45, 72 54, 22 60, 29 57, 42 43, 84 45, 73 54, 46 53, 69	48. 03 57. 92 65. 73 63. 08 48. 08 50. 52 60. 44 57. 86	32, 14 44, 35 50, 17 37, 74 31, 89 31, 10 39, 57 41, 09	37.24 39.53 38.48 37.69 29.79 31.50 36.97 40.92	60. 00 70. 38 78. 35 70. 12 49. 67 47. 14 52. 94 55. 25	753. 19 884. 76 950. 71 923. 88 759. 37 802. 49 974. 92 894. 63	83. 22 98. 29 109. 20 107. 43 82. 85 86. 16 102. 01 98. 20	3. 83 3. 14 2. 84 3. 06 4. 47 4. 31 3. 77 4. 62	6, 45 5, 41 5, 50 7, 12 11, 59 9, 04 8, 90
1976: Jan Feb Mar Apr May June	51, 31 53, 73 54, 01 54, 28 53, 87 54, 23	57.00 59.79 60.30 60.62 60.22 60.70	35. 78 38. 53 39. 17 38. 66 39. 71 40. 41	35. 23 36. 12 35. 43 35. 69 35. 40 35. 16	48. 83 52. 06 52. 61 52. 71 50. 99 51. 82	929. 34 971. 70 988. 55 992. 51 988. 82 985. 59	96.86 100.64 101.08 101.93 101.16 101.77	3.80 3.67 3.65 3.66 3.76 3.75	8.43
July Aug Sept Oct Nov Dec	55.68 55.18 56.29 54.43 54.17 56.34	62. 11 61. 14 62. 35 60. 07 59. 45 61. 54	42. 12 40. 63 40. 36 38. 37 39. 28 41. 77	36. 49 37. 56 38. 77 38. 33 38. 85 40, 61	54.06 54.22 54.52 52.74 53.25 57.45	993. 20 981. 63 994. 37 951. 95 944. 58 976. 86	104. 20 103. 29 105. 45 101. 89 101. 19 104. 66	3. 64 3. 74 3. 71 3. 85 4. 04 3. 93	9, 07 9, 22
1977: Jan Feb Mar Apr May June	56. 28 54. 93 54. 67 53. 92 53. 96 54. 30	61. 26 59. 65 59. 56 58. 47 58. 13 58. 44	41. 93 40. 59 40. 52 41. 51 43. 25 43. 29	41. 13 40. 86 40. 18 40. 24 41. 14 41. 59	57. 86 55. 65 54. 84 54. 30 54. 80 55. 29	970. 62 941. 77 946. 11 929. 10 926. 31 916. 56	103. 81 100. 96 100. 57 99. 05 98. 76 99. 29	3. 99 4. 21 4. 37 4. 47 4. 57 4. 60	10. 23
July Aug Sept Oct Nov Dec	54. 94 53. 51 52. 66 51. 37 51. 87 51. 83	58. 90 57. 30 56. 41 54. 99 55. 62 55. 55	43. 52 41. 04 39. 99 38. 33 39. 30 39. 75	42. 44 41. 50 40. 93 40. 38 40. 33 40. 36	57, 29 56, 52 55, 33 53, 24 54, 04 53, 85	908. 20 872. 26 853. 30 823. 96 828. 51 818. 80	100. 18 97. 75 96. 23 93. 74 94. 28 93. 82	4, 59 4, 72 4, 82 4, 97 5, 02 5, 11	

TABLE B-89.-Common stock prices and yields, 1949-77

Averages of daily closing prices, except New York Stock Exchange data through May 1964 are averages of weekly closing

I Averages of daily closing prices, except New York Stock Exchange data through May 1964 are averages of weekly closing prices,
 Includes all the stocks (more than 1,500) listed on the New York Stock Exchange.
 Includes 30 stocks.
 Includes 500 stocks.
 Standard & Poor's series, based on 500 stocks in the composite index.
 Aggregate cash dividends (based on latest known annual rate) divided by aggregate market value based on Wednes-day closing prices. Monthly data are averages of weekly figures; annual data are averages of monthly figures.
 Ratio of quarterly earnings (seasonally adjusted annual rate) to price index for last day of quarter. Annual ratios are averages of quarterly ratios.

Note.-All data relate to stocks listed on the New York Stock Exchange.

Sources: New York Stock Exchange, Dow-Jones & Co., Inc., and Standard & Poor's Corporation.

					Busi	ness failu	res 1		
	Index of net	New business	Duri	Num	iber of fail	ures	liabili	int of curr ties (millio f dollars)	ent Dns
Year or month	business formation (1967=100)	incorpo- rations (num-	Busi- ness failure		Liability size class			Liabili cla	
			ber) rate ?		Under \$100,000	\$100,000 and over	Total	Under \$100,000	\$100, 000 and over
1929 1933 * 1939 * 1940 1941 1942 1943 1944 1943 1944 1943 1944 1943 1944 1945 1945 1946 1947 1948 1948 1949			103.9 100.3 69.6 63.0 54.4 44.6 16.4	22, 909 19, 859 14, 768 13, 619 11, 848 9, 405 3, 221 1, 222	22, 165 18, 880 14, 541 13, 400 11, 685 9, 282 3, 155 1, 176	744 979 227 219 163 123 66	483. 3 457. 5 182. 5 166. 7 136. 1 100. 8 45. 3 31. 7	261.5 215.5 132.9 119.9 100.7 80.3 30.2	221.8 242.0 49.7 46.8 35.4 20.5 15.1
1944	112.6 87.8	132, 916 112, 897 96, 346 85, 640	6.5 4.2 5.2 14.3 20.4 34.4	809 1, 129 3, 474 5, 250 9, 246	759 1,003 3,103 4,853 8,708	46 50 126 371 397 538	30. 2 67. 3 204. 6 234. 6 308. 1	14.5 11.4 15.7 63.7 93.9 161.4	17.1 18.8 51.6 140.9 140.7 146.7
1951 1952 1953 1954 1955 1956 1957 1957 1958 1958	93. 1 93. 3 98. 2 94. 4 91. 3 99. 1 95. 2 90. 4 89. 5 96. 8	83, 778 92, 946 102, 706 117, 411 139, 915 141, 163 137, 112 150, 781 193, 067	34.3 30.7 28.7 33.2 42.0 41.6 48.0 51.7 55.9 51.8	9, 162 8, 058 7, 611 8, 862 11, 086 10, 969 12, 686 13, 739 14, 964 14, 053	8,746 7,626 7,081 8,075 10,226 10,113 11,615 12,547 13,499 12,707	416 432 530 787 860 856 1,071 1,192 1,465 1,346	248.3 259.5 283.3 394.2 462.6 449.4 562.7 615.3 728.3 692.8	151.2 131.6 131.9 167.5 211.4 206.4 239.8 267.1 297.6 278.9	97.1 128.0 151.4 226.6 251.2 243.0 322.9 348.2 430.7 413.9
1960 1961 1962 1963 1964 1965 1965 1966 1967 1968 1969	90.7 93.3 97.2 98.6 98.2	182, 713 181, 535 182, 057 186, 404 197, 724 203, 897 200, 010 206, 569 233, 635 274, 267	57.0 64.4 60.8 56.3 53.2 53.3 51.6 49.0 38.6 37.3	15, 445 17, 075 15, 782 14, 374 13, 501 13, 514 13, 061 12, 364 9, 636 9, 154	13, 650 15, 006 13, 772 12, 192 11, 346 11, 340 10, 833 10, 144 7, 829 7, 192	1, 795 2, 069 2, 010 2, 182 2, 155 2, 174 2, 228 2, 220 1, 807 1, 962	938.6 1,090.1 1,213.6 1,352.6 1,329.2 1,321.7 1,385.7 1,265.2 941.0 1,142.1	327.2 370.1 346.5 321.0 313.6 321.7 321.5 297.9 241.1 231.3	611.4 720.0 867.1 1,031.6 1,015.6 1,000.0 1,064.1 967.3 699.9 910.8
1970	108.0	264, 209 287, 577 316, 601 329, 358 319, 149 326, 345 375, 766	43. 8 41. 7 38. 3 36. 4 38. 4 42. 6 34. 8	10, 748 10, 326 9, 566 9, 345 9, 915 11, 432 9, 628	8,019 7,611 7,040 6,627 6,733 7,504 6,176	2, 729 2, 715 2, 526 2, 718 3, 182 3, 928 3, 452	1, 887. 8 1, 916. 9 2, 000. 2 2, 298. 6 3, 053. 1 4, 380. 2 3, 011. 3	269. 3 271. 3 258. 8 235. 6 256. 9 298. 6 257. 8	1, 618. 4 1, 645. 6 1, 741. 5 2, 063. 0 2, 796. 3 4, 081. 6 2, 753. 4
	Seaso	nally adjust	ed]				
1976: Jan Feb Mar Apr May June	114.5 116.3 115.7 114.9 118.6	29, 639 29, 043 31, 027 29, 876 28, 637 31, 600	36.9 38.2 36.3 35.4 35.0 32.7	886 867 965 888 835 775	530 572 618 587 546 498	356 295 347 301 289 277	257.1 211.8 247.7 206.4 233.3 373.6	22.0 23.9 26.0 23.1 23.3 20.3	235.1 187.8 221.6 183.3 210.0 353.3
July Aug Sept Oct Nov Dec	117. 8 117. 8 118. 3 120. 1 121. 3 121. 0	30, 114 32, 746 32, 368 32, 887 33, 496 33, 495	31.2 35.7 34.9 34.7 33.8 32.0	689 798 714 745 770 696	458 498 454 496 509 410	231 300 260 249 261 286	305. 6 264. 0 250. 3 183. 6 277. 6 200. 4	19. 1 21. 5 18. 4 20. 4 21. 1 18. 6	286, 5 242, 4 231, 9 163, 2 256, 5 181, 9
1977: Jan Feb Mar Apr May June	123. 3 123. 0 124. 3 122. 4 123. 2 125. 8	34, 519 33, 173 35, 000 33, 394 34, 442 37, 229	28.4 29.6 32.3 31.8 30.2 30.8	664 693 858 804 724 732	418 425 515 520 440 455	246 268 343 284 284 277	168. 5 194. 2 248. 2 207. 3 473. 9 305. 9	17. 7 18. 3 21. 7 22. 1 18. 4 19. 2	150. 9 175. 9 226. 5 185. 2 455. 4 286. 7
July Aug Sept Oct Novp	126.6 130.6 129.6	35, 749 39, 525 37, 812 38, 943 38, 472	24.1 29.7 27.0	513 687 560	325 401 342	188 286 218	577.8 338.3 97.0	14.2 18.5 14.0	563.6 319.7 83.0

TABLE B-90.—Business formation and business failures, 1929-77

Commercial and industrial failures only. Excludes failures of banks and railroads and, beginning 1933, of real estate, insurance, holding, and financial companies, steamship lines, travel agencies, etc.
 Failure rate per 10,000 listed enterprises.
 Series revised; not strictly comparable with earlier data.

Sources: Department of Commerce (Bureau of Economic Analysis) and Dun & Bradstreet, Inc.

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AGRICULTURE

TABLE	B-91.—Income of farm people and farmers,	1929–77
	[Quarterly data at seasonally adjusted annual rates]	

	1		arterly da					trom farmi	ng	
Year or	rec	rsonal inco eived by t m populal	otal	Realize	d gross	Produc-) farm ators	Net inco farm in net inv cha	cluding entory
quarter	From all sources	From farm sources 1	From non- farm sources ²	Total 3	Cash receipts from market- ings	tion ex- penses	Exclud- ing net inven- tory change	Includ- ing net inven- tory change 4	Current dollars	1967 dollars ³
				Billions o	of dollars				Dol	lars
1929 1933 1939	7.4	4.8	2.6	13.9 7.1 10.6	11.3 5.3 7.9	7.7 4.4 6.3	6. 3 2. 7 4. 3	6. 2 2. 6 4. 4	945 379 685	1, 969 1, 115 1, 851
1940 1941 1942 1943 1943 1945 1945 1946 1946 1947 1948 1949	7.6 10.1 14.1 16.5 16.6 17.2 20.0 21.1 23.8 19.5	4.8 6.8 10.1 12.1 12.2 12.8 15.5 15.8 18.0 13.3	2.8 3.3 4.4 4.4 4.4 5.3 5.8 6.2	11. 1 13. 9 18. 8 23. 4 24. 4 25. 8 29. 5 34. 1 34. 7 31. 6	8.4 11.1 15.6 20.5 21.7 24.8 30.2 27.8	6.9 7.8 10.0 11.6 12.3 13.1 14.5 17.0 18.8 18.0	4. 2 6. 1 8. 8 11. 8 12. 1 12. 8 15. 0 17. 1 15. 9 13. 6	4.5 6.5 9.9 11.7 12.3 15.1 15.4 17.7 12.8	706 1, 031 1, 588 1, 927 1, 950 2, 063 2, 543 2, 615 3, 044 2, 233	1, 858 2, 578 3, 452 3, 611 3, 619 4, 037 3, 534 3, 903 2, 977
1950 1951 1952 1953 1954 1955 1956 1957 1958 1958	20.3 22.7 22.0 19.7 18.3 17.5 17.6 17.5 19.2 17.5	14. 1 16. 1 15. 3 13. 3 12. 4 11. 3 11. 1 10. 8 12. 5 10. 4	6.3 6.5 6.7 6.4 5.9 6.6 6.6 6.7 7.1	32. 3 37. 1 36. 8 35. 1 33. 7 33. 3 34. 4 34. 2 38. 1 37. 9	28.5 32.9 32.5 31.0 29.8 29.5 30.4 29.7 33.5 33.6	19.5 22.3 21.5 21.5 21.8 22.2 22.7 23.7 25.8 27.2	12.8 14.8 14.0 13.6 11.9 11.1 11.7 10.5 12.3 10.7	13.6 15.9 15.0 13.0 12.4 11.3 11.3 11.1 13.2 10.7	2, 417 2, 936 2, 878 2, 604 2, 579 2, 429 2, 429 2, 493 2, 536 3, 111 2, 615	3, 180 3, 537 3, 426 3, 100 2, 892 2, 933 2, 882 3, 496 2, 938
1960 1961 1962 1963 1964 1965 1966 1967 1968 1968	18.4 19.0 19.7 20.0 19.8 22.6 23.8 22.9 24.1 26.9	11. 1 11. 4 11. 4 11. 0 10. 0 12. 0 12. 6 11. 1 11. 3 12. 9	7.2 7.6 8.3 9.0 9.7 10.6 11.2 11.7 12.8 13.9	38.5 40.2 41.7 42.7 45.5 50.6 49.9 51.7 56.3	34. 2 35. 2 36. 5 37. 5 37. 3 49. 4 43. 4 42. 8 44. 2 48. 2	27.4 28.6 30.3 31.6 31.8 33.7 36.5 38.2 39.5 42.1	11.1 11.6 11.4 11.1 11.3 11.9 14.0 11.7 12.2 14.2	11.5 12.0 12.1 11.8 10.5 12.9 14.0 12.3 12.3 14.3	2, 907 3, 126 3, 267 3, 295 3, 035 3, 843 4, 286 3, 903 4, 013 4, 766	3, 230 3, 473 3, 590 3, 582 3, 263 4, 045 4, 373 3, 903 3, 859 4, 372
1970 1971 1972 1973 1974 1975 1976 1976	27.4 28.7 34.4 48.6 44.7 44.3 42.0 44.5	13.0 13.4 16.8 29.0 23.1 21.5 17.8 18.6	14. 4 15. 3 17. 6 19. 5 21. 6 22. 8 24. 2 25. 9	58, 6 60, 6 70, 1 95, 5 100, 0 96, 7 103, 6	50. 5 52. 9 61. 2 87. 1 92. 4 88. 1 94. 3	44. 4 47. 4 52. 3 65. 6 72. 2 75. 9 81. 7	14. 1 13. 2 17. 8 29. 9 27. 7 20. 8 21. 9	14. 2 14. 6 18. 7 33. 3 26. 1 24. 3 20. 0	4, 790 5, 030 6, 504 11, 727 9, 232 8, 637 7, 203	4, 202 4, 263 5, 288 8, 817 6, 114 5, 203 4, 093
1975: (11 111 111 1V				87.4 97.9 103.4 98.1	79.7 89.5 94.1 89.0	72. 4 75. 7 78. 8 76. 7	15. 0 22. 2 24. 6 21. 4	19.0 23.7 27.5 26.9	6, 770 8, 440 9, 790 9, 580	4, 180 5, 120 5, 790 5, 600
1976: V				102.1 109.6 100.9 101.9	93.0 100.4 91.5 92.4	79. 1 84. 2 82. 3 81. 2	23. 0 25. 4 18. 6 20. 7	21.5 23.2 17.6 18.0	7, 740 8, 350 6, 330 6, 480	4, 500 4, 800 3, 580 3, 600
1977 : I II III			 	105. 8 107. 5 99. 5	96. 1 97. 7 89. 3	83.5 87.5 83.3	22. 3 20. 0 16. 2	21. 8 20. 5 17. 2	7, 920 7, 450 6, 250	4, 320 4, 000 3, 290

¹ Net income to farm operators including net inventory change, less net income of nonresident operators, plus wages and salaries and other labor income of farm resident workers to

salaries and other labor income of farm resident workers, less contributions or farm resident operators and workers to social insurance. ² Consists of income received by farm residents from nonfarm sources, such as wages and salaries from nonfarm em-ployment, nonfarm business and professional income, rents from nonfarm real estate, dividends, interest, royalties, unemployment compensation, and social security payments. ³ Cash receipts from marketings, Government payments, and nonmoney and other farm income furnished by farms (excluding net inventory change). ⁴ Includes net value of physical change in inventory of crops and livestcck valued at average prices for the year. ³ Income in current dollars divided by the index of prices paid by farmers for family living items on a 1567 base. As of January 1977 movement of the index is based on the overall change in the consumer price index (Department of Labor)

Source: Department of Agriculture, except as noted.

TABLE	B-92F	arm production	indexes,	1929–77
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[1967 -	≈100]
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						Crop	S 2				Live	stock and	d produc	cts 2
Year	Farm out- put ¹	Total 3	Feed grains	Hay and for- age	Food grains	Vege- tables	Fruits and nuts	Cot- ton	To- bacco	Oil crops	Total 3	Meat ani- mats	Dairy prod- ucts	Poul- try and eggs
19 29	53	62	48	71	52	64	74	205	76	11	53	52	75	33
1933	51	55	44	62	36	62	75	180	69	8	57	58	79	32
1939	58	64	51	68	48	69	95	163	96	25	59	59	81	35
1940	60	67	52	76	52	72	91	173	74	29	60	60	83	36
1941	62	68	56	75	60	73	97	148	64	29	64	63	87	39
1942	70	76	64	82	63	78	96	177	72	40	71	72	91	45
1943	69	71	59	80	54	84	83	158	71	41	77	81	90	52
1944	71	75	62	79	67	80	96	169	99	36	73	73	91	52
1945	70	73	60	81	70	82	87	125	101	36	73	69	94	54
1946	71	77	65	77	72	91	104	120	118	34	71	68	93	51
1947	69	73	50	74	85	80	99	164	107	39	70	67	92	50
1948	76	83	72	74	81	84	91	206	101	47	68	66	89	49
1949	74	79	63	73	70	82	95	221	100	45	72	69	91	54
1950	74	76	64	78	65	83	96	138	103	46	75	73	92	57
1951	76	78	59	81	64	78	98	209	119	47	78	79	90	59
1952	79	81	63	79	83	79	95	209	115	46	78	79	91	60
1953	79	81	61	81	76	82	96	227	105	47	79	78	95	61
1954	80	79	64	81	67	81	97	188	114	49	82	81	97	64
1955	82	82	68	86	63	84	93	203	112	53	84	85	98	63
1956	82	82	68	82	66	89	97	184	111	60	84	83	100	69
1957	81	80	74	89	62	86	88	151	85	58	83	80	100	70
1958	87	89	80	89	91	89	96	157	88	69	84	81	99	74
1959	88	89	84	85	73	87	98	200	91	64	88	87	98	76
1960	91	93	87	90	87	89	94	196	99	68	87	85	100	76
1961	91	91	78	90	80	94	98	196	105	77	91	88	102	82
1962	92	92	79	93	74	92	98	205	118	78	92	90	103	82
1963	96	96	86	93	77	92	96	211	119	81	95	95	102	84
1964	95	93	75	94	86	89	97	209	113	81	97	97	104	87
1965	98	99	88	98	88	96	100	205	94	95	95	92	104	90
1966	95	95	89	97	88	97	98	130	96	97	97	96	101	96
1967	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1968	102	103	95	99	106	104	98	148	87	114	100	101	99	98
1969	102	104	99	100	98	101	116	137	91	116	101	102	98	100
1970	101	101	89	99	91	100	109	139	97	117	105	108	100	106
1971	111	112	116	105	107	100	116	145	86	121	108	112	101	107
1972	110	113	112	104	102	101	104	187	88	131	108	110	102	109
1973	112	119	115	109	113	103	124	175	83	155	105	108	98	106
1974	106	109	93	104	122	102	125	158	101	127	106	110	99	106
1975	114	121	114	108	142	101	135	112	110	153	101	102	98	103
1976	117	121	120	102	140	106	130	142	109	132	105	106	103	110
1977 ₽	121	129	124	108	131	107	136	195	98	171	108	108	105	111

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.
³ Gross production.
³ Includes certain items not shown separately.

Source: Department of Agriculture.

	Farm po (Apr	pulation il 1)1		n employn housands			Farm	output		
Year	Num-	As per-				Per	Per ho	our of farm	n work	Crop produc- tion
	ber (thou- sands)	cent of total popu- lation ²	Total	Family workers	Hired workers	unit of total input	Total	Crops	Live- stock and products	per acre 4
							Ind	ex, 1967 =	100	
1929	30, 580	25. 1	12, 763	9, 360	3, 403	52	16	16	26	56
1933	32, 393	25.8	12, 739	9, 874	2, 865	53	16	15	25	50
1939	30, 840	23.5	11, 338	8, 611	2,727	59	19	20	27	60
1940 1941 1942 1943 1944	30, 547 30, 118 28, 914 26, 186 24, 815	23. 1 22. 6 21. 4 19. 2 17. 9	10, 979 10, 669 10, 504 10, 446 10, 219	8, 300 8, 017 7, 949 8, 010 7, 988	2, 679 2, 652 2, 555 2, 436 2, 231	60 62 68 66 67	20 21 24 24 24	21 23 25 24 25	27 28 30 31 30	62 63 70 64 68
1945 1946 1947 1948 1949	24, 420 25, 403 25, 829 24, 383 24, 194	17.5 18.0 17.9 16.6 16.2	10, 000 10, 295 10, 382 10, 363 9, 964	7, 881 8, 106 8, 115 8, 026 7, 712	2, 119 2, 189 2, 267 2, 337 2, 252	68 71 68 74 71	26 27 28 31 32	27 29 29 33 33	31 32 33 34 35	67 71 67 75 70
1950 1951 1952 1953 1954	23, 048 21, 890 21, 748 19, 874 19, 019	15. 2 14. 2 13. 9 12. 5 11. 7	9, 926 9, 546 9, 149 8, 864 8, 651	7, 597 7, 310 7, 005 6, 775 6, 570	2, 329 2, 236 2, 144 2, 089 2, 081	71 71 74 75 76	34 35 38 39 42	36 35 39 40 42	37 39 40 41 43	69 70 73 72 71
1955 1956 1957 1958 1959	19, 078 18, 712 17, 656 17, 128 16, 592	11.5 11.1 10.3 9.8 9.4	8, 381 7, 852 7, 600 7, 503 7, 342	6, 345 5, 900 5, 660 5, 521 5, 390	2,036 1,952 1,940 1,982 1,952	78 80 80 87 87	44 47 51 57 59	45 48 53 61 61	46 48 50 54 58	74 76 77 86 85
1960 1961 1962 1963 1964	15, 635 14, 803 14, 313 13, 367 12, 954	8.7 8.1 7.7 7.1 6.8	7,057 6,919 6,700 6,518 6,110	5, 172 5, 029 4, 873 4, 738 4, 506	1, 885 1, 890 1, 827 1, 780 1, 604	90 91 92 96 95	65 67 71 77 81	66 68 72 77 79	62 66 71 77 82	89 92 95 97 97
1965 1966 1967 1968 1969	12, 363 11, 595 10, 875 10, 454 10, 307	6.4 5.9 5.5 5.2 5.1	5, 610 5, 214 4, 903 4, 749 4, 596	4, 128 3, 854 3, 650 3, 535 3, 419	1, 482 1, 360 1, 253 1, 213 1, 176	100 97 100 102 103	89 92 100 106 110	90 94 100 106 108	86 93 100 105 112	100 97 100 105 106
1970 1971 1972 1973 1974	9, 712 9, 425 9, 610 9, 472 9, 264	4.7 4.6 4.6 4.5 4.4	4, 523 4, 436 4, 373 4, 337 4, 389	3, 348 3, 275 3, 228 3, 169 3, 075	1, 175 1, 161 1, 146 1, 168 1, 314	102 111 110 111 105	112 126 129 133 129	110 120 124 127 117	121 130 138 144 156	104 112 115 115 103
1975 1976 1977 p	8, 864 8, 253	4.2 3.8 3.6	4, 342 4, 376 4, 140	3, 026 2, 999 2, 849	1, 317 1, 377 1, 291	115 116 119	144 152 155	130 133 134	160 175 180	112 111 117

TABLE B-93.-Farm population, employment, and productivity, 1929-77

¹ Farm population as defined by Department of Agriculture and Department of Commerce, i.e., civilian population living on farms, regardless of occupation
 ³ Total population of United States as of July 1 including Armed Forces overseas.
 ³ Includes persons doing farmwork on all farms. These data, published by the Department of Agriculture, Statistical Reporting Service, differ from those on agricultural employment by the Department of Labor (see Table B-29) because of differences in the method of approach, in concepts of employment, and in time of month for which the data are collected. See monthly report on "Farm Labor."
 ⁴ Computed from variable weights for individual crops produced each year.

Sources: Department of Agriculture and Department of Commerce (Bureau of the Census).

TABLE B-94.—Indexes of prices received and prices paid by farmers and selected farm resource prices, 1929-77

[1967 = 100,	except	as	noted]
--------------	--------	----	--------

	Prices re	ceived by	farmers	Prices	paid by f	armers	Se	lected res	ource pric	85
Year or month	All farm products	Crops	Live- stock and products	All items, interest, taxes, and wage rates	Family living items	Produc- tion items	Tractors and self- pro- pelled ma- chinery	Fertil- izer	Average hourly wage rate, all hired farm workers ¹	Average farm real estate value per acre ²
1929 1933	59 28 38	60 31	58 25 39	47 32	48 34 37	51 34				27
1939	-	36		36		42				19
1940	40 49	40 48	40 50	36 39	38 40	43				19 19 21 23 26 29 32 36 39 41
1941 1942 1943	64	64	62 72	44	46	45 52 57				21
1943	77 79	83 88	72	50 53	52 54	57				23
1945	83	90	} 77	56	57	61				29
1944 1944 1945 1946 1947 1948	94 110	102 117	88 105	61 70	57 63 74 78 75	60 61 67 78 87				32
1947	115	113	115	76	78	87			\$0.73	30
1949	100	100	99	73		83			. 68	
1950 1951	103	103	102	75 82 84	76 83 84	86			. 69	40
1951	121 115	118 119	122	82 84	84	95 95			.77	46
1952 1953	102	107	97	81	84 84	89			. 82 . 81	52
1954	98 93	108 103	90	81 81	84 84	89 87 87 90 92			. 81	51 52 51 53 55 58 61 66
1956 1957 1958	92	104	85 82 89	81 84	84 85 88	87			.86	55
1957 1958	94 100	100	89 99	84	88 89	90			. 88 . 92	58
1959	96	99 98	93	86 87	89	93			.95	66
1960	95	99	92	88	90	92			. 97	68
1961 1962	96 98	101 103	91 93	88 90	90 91	93 94			.99 1.01	68 69 73 77 82
	97	107	89	91	92	95			1.05	11
1964	95	106	86 94	92 94	93 95	94			1.08	82
1965	98 106	103 106	106	94	95	96 100	92 96	103 102	1.14	86 93
1967	100	100	100	100	100	100	100	100	1.33	100 107
1963 1966 1966 1966 1967 1968 1968	102 107	100	104 117	103 108	104 109	100 104	104	94 87	1.44 1.55	107
1970	110	100	118	112	114	108	116	88	1.64	117
1971	113	108	118	118	118	113	122	91	1 73	122 132
1970 1971 1972 1973	113 125 179	114 175	136 183	118 125 144	118 123 133 151	146	128	102	1.84 2.00 2.29	150
19/4	192	224 201	165	164	151	113 121 146 166	122 128 137 161 195	94 102 167	2.29	187
1975 1976	185 186	201	172 177	180 192	166 176	182 193 200	195	217 185	2.43 2.66	213 242
1977	183	197 193	175	192 202	(3)	200	217 238	181		283
1976: Jan 15	186	191	181	189	172	190			2.75	
Feb 15 Mar 15	187 185	193 194	182 178	191 191	172 173	192 193	211			242
Apr 15 May 15	190	193	186	191 191	174 174	193 193		182	2.66	
May 15 June 15	191 195	198 209	185 184	191	1/4	193	220			
Juby 15	194	214	179	194	177	196			2.53	
Aug 15 Sept 15 Oct 15	186	201	175	193	177	194				
Sept 15	186 178	204 195	172 165	193 192	178 179	194 192	224	177	2.80	
Nov 15	173	186	162	192	180	191			2.00	267
Dec 15	178	190	169	193	181	193				
1977: Jan 15	183	198	170	198	182	196			2.96	283
Feb 15 Mar 15	187 190	203 211	174	200 201	(3) (3)	199 201	233	181		203
Apr 15 May 15	191	213	172	204	(3)	204			2.82	•••••
May 15 June 15	194 184	214 198	176 173	204 204	(3) (3) (3) (3)	204 205 203	241	183		
July 15	180	138	173	204		203	L-11		2.77	
Aug 15	175	173	177	203 202 201	(ð) (ð) (ð) (ð)	199 197				
Aug 15 Sept 15	174 178	171 178	177	201 201	(3)	197 198	245	182	2,99	
			1 177	i 201	. (3)	i 198	1	1 182	i Z. 35	1
Oct 15 Nov 15	179	185	174	202	ெல்	199				296

¹ Without room or board. ² Average for 48 States, Annual data are for March 1 of each year through 1975 and for February 1 beginning 1976. Monthly data are for first of month. ³ Series discontinued, Consumer price index (Department of Labor) substituted in calculating total prices paid.

Source: Department of Agriculture.

					Index nu	mbers of i	nputs (19	67=100)		
Year	har- vested (mil- lions of acres) ¹	ested of (mil- farm lions work of (bil-	Total	F arm iabor	Farm reat estate	Me- chani- cal power and ma- chinery	Agri- cultural chemi- cals ²	Feed, seed, and live- stock pur- chases ³	Taxes and interest	Miscel- laneous
1929	365	23. 2	102	329	103	38	10	31	73	86
1933	340	22.6	96	321	97	32	6	28	75	82
1939	331	20, 7	98	294	102	40	11	41	72	78
1940 1941 1942 1943 1944	341 344 348 357 362	20.5 20.0 20.6 20.3 20.2	100 100 103 104 105	293 288 296 292 289	103 102 100 98 98	42 44 51 55 57	13 14 15 17 20	42 45 48 52 52	72 73 73 77 79	78 79 76 79 82
1945 1946 1947 1948 1948	354 352 355 356 360	18.8 18.1 17.2 16.8 16.2	103 101 101 103 105	271 260 246 240 231	98 102 103 103 104	58 57 64 72 80	20 21 23 25 27	54 53 55 56 61	80 81 81 79 82	80 81 83 87 91
1950 1951 1952 1953 1954	345 344 349 348 348 346	15.1 15.2 14.5 14.0 13.3	104 107 107 106 105	217 218 208 200 192	105 105 105 105 105	84 90 94 96 96	29 32 35 36 37	63 67 69 69 71	82 82 85 86 85	87 93 93 92 90
1955 1956 1957 1958 1959	340 324 324 324 324 324	12.8 12.0 11.1 10.5 10.3	105 103 101 100 102	185 174 162 156 151	105 102 102 100 101	97 98 97 97 98	39 41 41 43 49	72 75 74 79 84	88 87 86 87 93	94 90 94 98 103
1960 1961 1962 1963 1964	324 302 295 298 298	9.8 9.4 9.0 8.7 8.2	101 100 100 100 100	145 139 133 129 122	100 100 100 100 100	97 94 94 93 93	49 53 58 65 71	84 88 90 90 92	94 95 96 98 99	105 105 108 109 113
1965 1966 1967 1968 1969	298 294 306 300 290	7.3 6.9 6.7 6.4 6.2	98 98 100 100 99	110 103 100 97 93	99 99 100 99 98	94 96 100 101 101	75 85 100 105 111	93 97 100 97 101	100 100 100 101 100	109 104 100 106 105
1970 1971 1972 1973 1974	293 305 293 321 330	6.0 5.9 5.7 5.6 5.5	99 100 100 101 101	90 89 85 85 83	98 96 95 94 93	100 102 101 105 109	115 124 131 136 140	104 111 113 116 107	100 99 100 100 101	109 108 115 111 110
1975 1976 1977 <i>p</i>	337 338 347	5.3 5.1 5.2	100 101 102	80 78 78	93 94 94	112 113 114	127 141 146	100 107 109	101 100 101	104 116 113

TABLE B-95.—Selected measures of farm resources and inputs, 1929-77

Acreage harvested (excluding duplication) plus acreages in fruits, tree nuts, and farm gardens.
 Fertilizer, lime, and pesticides.
 Nonfarm constant dollar value of feed, seed, and livestock purchases.

Source: Department of Agriculture,

TABLE B-96.—Comparative balance sheet of the farming sector, 1929-78

[Billions of dollars]

					(Dim	10115 01 0				<u> </u>			
					Asset	5				ļ	Cla	ims	
				Other	physical	assets	Fir	nancial as	sets				
Beginning of year	Total	Real estate	Live- stock ¹	Ma- chin- ery and motor vehi- cles	Crops ²	House- hold equip- ment and furnish- ings	De- posits and cur- rency	U.S. savings bonds	Invest- ment in co- opera- tives	Total	Real estate debt	Other debt	Pro- pri e- tors' equi- ties
1929		48.0	6.6	3. 2							9.8		
1933		30.8	3.0	2.5							8.5		
1939		34.1	5.1	3. 2					····		6.8		
1940 1941 1942 1943 1944	52.9 55.0 62.9 73.7 84.6	33.6 34.4 37.5 41.6 48.2	5.1 5.3 7.1 9.6 9.7	3.1 3.3 4.0 4.9 5.4	2.7 3.0 3.8 5.1 6.1	4.2 4.2 5.0 5.3	3.2 3.5 4.2 5.4 6.6	0.2 .4 .5 1.1 2.2	0.8 .9 .9 1.0 1.1	52.9 55.0 62.9 73.7 84.6	6.6 6.5 6.4 6.0 5.4	3.4 3.9 4.1 4.0 3.5	42.9 44.6 52.4 63.7 75.7
1945 1946 1947 1948 1949	94.2 103.5 116.4 127.9	53.9 61.0 68.5 73.7 76.6	9.0 9.7 11.9 13.3 14.4	6.5 5.4 5.3 7.4 10.1	6.7 6.3 7.1 9.0 8.6	5.6 6.1 7.7 8.5 9.1	7.9 9.4 10.2 9.9 9.6	3.4 4.2 4.2 4.4 4.6	1.7	94.2 103.5 116.4 127.9 134.9	4.9 4.8 4.9 5.1 5.3	3.4 3.2 3.6 4.2 6.1	85.9 95.5 107.9 118.6 123.5
1950 1951 1952 1953 1954	134.7 154.4 170.4 168.0 164.9	77.6 89.5 98.5 100.1 98.7	12.9 17.1 19.5 14.8 11.7	12. 2 14. 1 16. 7 17. 4 18. 4	7.6 7.9 8.8 9.0 9.2	8.6 9.7 10.3 9.9 9.9	9. 1 9. 1 9. 4 9. 4 9. 4	4.7 4.7 4.7 4.6 4.7	2.5 2.7	134.7 154.4 170.4 168.0 164.9	5.6 6.1 6.7 7.2 7.7	6.8 6.9 8.0 8.9 9.2	122.3 141.4 155.7 151.9 148.0
1955 1956 1957 1958 1959	169.1 174.1 183.2 191.6 208.8	102.2 107.5 115.7 121.8 131.1	11.2 10.6 11.0 13.9 17.7	18.6 19.3 20.2 20.2 21.8	9.6 8.4 8.3 7.6 9.3	10.0 10.5 10.0 9.9 9.8	9.4 9.5 9.4 9.5 10.0	5.0 5.2 5.1 5.1 5.2	3.5 3.7	169. 1 174. 1 183. 2 191. 6 208. 8	8.2 9.0 9.8 10.4 11.1	9.4 9.8 9.5 10.0 12.5	151.4 155.3 163.8 171.2 185.2
1960 1961 1962 1963 1964	210.6 211.1 219.5 227.9 235.8	137.2 138.5 144.5 150.2 158.6	15.3 15.6 16.4 17.3 15.9	22. 7 22. 2 22. 5 23. 5 23. 9	7.7 8.0 8.8 9.3 9.8	9.6 8.9 9.1 9.0 8.8	9. 2 8. 7 8. 8 9. 2 9. 2	4.7 4.6 4.5 4.4 4.2	4, 2 4, 5 4, 9 5, 0 5, 4	210.6 211.1 219.5 227.9 235.8	12.0 12.8 13.8 15.1 16.8	12.8 13.4 14.7 16.3 17.6	185.8 184.9 191.1 196.5 201.4
1965 1966 1967 1968 1969	244.0 261.1 274.4 288.3 303.1	167.5 179.2 189.1 199.7 209.2	14.5 17.6 19.0 18.8 20.2	24. 8 26. 0 27. 4 29. 8 31. 3	9.2 9.7 10.0 9.6 10.6	8.6 8.6 9.2 9.7	9.6 10.0 10.3 10.9 11.5	4. 2 4. 1 3. 9 3. 8 3. 8	5.6 5.9 6.2 6.8	244.0 261.1 274.4 288.3 303.1	18.9 21.2 23.1 25.1 27.4	17.9 19.5 21.0 22.3 23.1	207.2 220.4 230.4 240.9 252.6
1970 1971 1972 1973 1974	315.3 326.6 353.2 398.2 486.2	215.9 223.9 241.4 271.0 335.4	23.5 23.7 27.3 34.1 42.4	32. 3 34. 4 36. 6 39. 3 44. 2	10.9 10.7 11.8 14.5 22.1	9.8 10.3 11.2 12.7 13.6	11. 9 12. 4 13. 2 14. 0 14. 9	3.7 3.6 3.7 4.0 4.1	7.2 7.6 8.0 8.6 9.5	315. 3 326. 6 353. 2 398. 2 486. 2	29.2 30.3 32.2 35.7 41.3	23.8 24.1 26.9 29.6 32.8	262.3 272.1 294.1 332.9 412.1
1975 1976 1977		378. 7 429. 1 497. 2	24.6 29.5 29.1	55.7 65.0 72.3	23.3 21.3 21.8	15.3 16.2 17.4	15. 1 15. 6 15. 9	4.3 4.4 4.4	10.5 11.7 12.8	527. 5 592. 8 670. 9	46. 3 51. 1 56. 6	35.5 39.7 46.1	445.7 502.0 568.2
1978 ₽	72 9. 6	546. 9		14	8.0			34.7		72 9 .6	64.5	54.2	610, 9

¹ Beginning with 1961, horses and mules are excluded. ² Includes all crops held on farms and crops held off farms by farmers as security for Commodity Credit Corporation loans. The latter on January 1, 1978 totaled approximately \$1.7 billion.

Note .- Beginning 1960, data include Alaska and Hawaii.

Source: Department of Agriculture.

INTERNATIONAL STATISTICS

TABLE B-97. -- U.S. international transactions, 1946-77

[Millions of dollars; quarterly data seasonally adjusted, except as noted]

	м	erchandise	12	Inve	stment inc	ome 3					Remit-	
Year or quar- ter	Ex- ports	Imports	Net bal- ance	Re- ceipts	Pay- ments	Net	Net mili- tary trans- actions	Net travel and trans- porta- tion re- ceipts	Other serv- ices, net ³	Bal- ance on goods and serv- ices 14	tances, pen- sions, and other uni- lateral trans- fers 1	Bal- ance on cur- rent ac- count
1946 1947 1948 1949	11, 764 16, 097 13, 265 12, 213	5,067 5,973 7,557 6,874	6, 697 10, 124 5, 708 5, 339	1.340	-212 -245 -280 -333	560 857 1, 060 1, 062	493 455 799 621	733 946 374 230	310 145 175 208	7, 807 11, 617 6, 518 6, 218	-2, 922 -2, 625 -4, 525 -5, 638	4, 885 8, 992 1, 993 580
1950 1951 1952 1953 1954	10, 203 14, 243 13, 449 12, 412 12, 929	9, 081 11, 176 10, 838 10, 975 10, 353	1, 122 3, 067 2, 611 1, 437 2, 576	1.910	369 414 421 461 420	1, 468 1, 407 1, 449	576 1, 270 2, 054 2, 423 2, 460	120 298 83 238 269	242 254 309 307 305	1, 892 3, 817 2, 356 532 1, 959	- 4, 017 -3, 515 -2, 531 -2, 481 -2, 280	-2, 125 302 -175 -1, 949 -321
1955 1956 1957 1958 1959	14, 424 17, 556 19, 562 16, 414 16, 458	-11, 527 -12, 803 -13, 291 -12, 952 -15, 310	2, 897 4, 753 6, 271 3, 462 1, 148	2.817	489 568 639 669 828	1, 955 2, 094 2, 178 2, 176 2, 215	-2, 701 -2, 788 -2, 841 -3, 135 -2, 805	-297 -361 -189 -633 -821	299 447 482 486 573	2, 153 4, 145 5, 901 2, 356 310	-2, 423 -2, 345	3, 556
1960 1961 1962 1963 1964	19, 650 20, 108 20, 781 22, 272 25, 501	14, 758 14, 537 16, 260 17, 048 18, 700	4, 892 5, 571 4, 521 5, 224 6, 801	3 350		2 297	-2, 752 -2, 596 -2, 449 -2, 304 -2, 133	-964 -978 -1, 152 -1, 309 -1, 146	579 594 809 960 1, 041	4, 040 5, 529 5, 042 5, 897 8, 499	-2, 308 -2, 524 -2, 638 -2, 754 -2, 781	1, 732 3, 005 2, 404 3, 143 5, 718
1965 1966 1967 1968 1969	26, 461 29, 310 30, 666 33, 626 36, 414	-21, 510 -25, 493 -26, 866 -32, 991 -35, 807	4, 951 3, 817 3, 800 635 607	6, 937	1, 730 2, 142 2, 307 2, 890 4, 438	4, 169 3, 598 3, 960 4, 047 3, 652	2, 122 2, 935 3, 226 3, 143 3, 328	-1, 280 -1, 331 -1, 750 -1, 548 -1, 763	1, 365 1, 612 1, 630	7, 105 4, 514 4, 395 1, 621 1, 002	-2, 854 -2, 932 -3, 125 -2, 952 -2, 994	4, 251 1, 582 1, 270 1, 331 1, 993
1970 1971 1972 1973 1974	42, 469 43, 319 49, 381 71, 410 98, 306	39, 866 45, 579 55, 797 70, 499 103, 673	2, 603 2, 260 6, 416 911 5, 367	10, 161 13, 540		4, 796	3, 354 2, 893 3, 621 2, 287 2, 083	2, 023 2, 315 3, 028 3, 086 3, 105	3.185	2, 912 340 6, 088 3, 520 2, 160	-3, 294 -3, 701 -3, 854 -3, 887 5-7, 188	367
1975 1976	107, 088 114, 694	98, 043 124, 014	9, 045 9, 320	17, 330 21, 369	—11, 376 —11, 561	5, 954 9, 808	876 366	2, 552 2, 145	4, 594 4, 888	16, 164 3, 596	-4, 612 -5, 023	11, 552 —1, 427
1975: V	27, 018 25, 851 26, 562 27, 657	25, 563 22, 566 24, 483 25, 431	1, 455 3, 285 2, 079 2, 226	4, 306	2, 799 – 2, 799 – 2, 784	1, 231 1, 507 1, 619 1, 597	393 311 139 34	685 579 604 684	1, 129 1, 180	2, 708 5, 031 4, 135 4, 289	1, 195 1, 110 1, 070 1, 238	1, 513 3, 921 3, 065 3, 051
1976: ![!!! !V	27, 000 28, 380 29, 603 29, 711	28, 343 29, 955 32, 411 33, 305	-1, 343 -1, 575 -2, 808 -3, 594	5.483	2, 861 2, 887 2, 816	2, 437 2, 280	65 39 235 235	669 337 458 681	1,176	1, 552 1, 505 875 —337	-1, 029 -1, 015 -1, 936 -1, 045	490 -1,061
1977: p	29, 458 30, 590 30, 869		-7, 757	6, 660	-3, 156	3, 504	516 311 577	—953 —785 —727		-2, 995 -3, 389 -2, 950	-1, 215	-4, 158 -4, 604 -4, 302

¹ Excludes military grants.
 ² Adjusted from Census data for differences in valuation, coverage, and timing.
 ³ Fees and royalties from U.S. direct investments abroad or from foreign direct investments in the United States are excluded from investment income and included in other services, net.
 ⁴ In concept, the sum of balance on current account and allocations of special drawing rights is equal to net foreign investment in the national income and product accounts, although the two may differ because of revisions, special handling of certain items, etc.

(Footnotes continued on following page.)

TABLE B-97.-U.S. international transactions, 1946-77-Continued

	U (inc	.S, assets rease/capi	abroad, n tai outflov	et v ()]	Foreig [incr	gn assets i ease/capit	in the U.S. al inflow (, net (+)]		Stati: discre	
Year or						Foreign ass	official ets		Alloca- tions of	Total (sum of	Of which
quarter	Total	U.S. official reserve assets ⁶	Other U.S. Govern- ment assets	U.S. private assets	Total	Total	Assets of foreign official reserve agen- cies	Other foreign assets	special drawing rights (SDR)	the items with sign re- versed)	Sea- sonal adjust- ment discrep- ancy
1946		-623									
1947		3, 315 1, 736									
1948 1949		-1,736 -266									
		-200									
950		1, 758									
1951		33									
1952 1953		-415 1,256									
1954		480									
1955		182									
957		-1 165									
958 959		-1, 165 2, 292									
959		1, 035									
1960	-2, 833 -4, 484	2, 145 606	-1, 100 -910	-3, 878 -4, 180	2, 120 2, 467	1, 473 765	1, 258 741	647		-1, 019	
1962	-2, 979	1.533	-1,085	-3, 426	1, 697	1, 270		427		-1.122	_
1963	- 5, 764	1, 533 377	- 1, 662	- 4, 479	1, 697 2, 981	1, 986	1,558	995		- 360	
1964	-8, 128	171	-1, 680	6, 618	3, 317	1,661	1, 363	1,656		907	
1965	-4.176	1, 222	1.605	-3, 793	382	132	67	249		-457	
1966	-5,530	568	1, 605 1, 543 2, 423 2, 274	-3, 793 -4, 554	3, 320	- 674	-787	3, 994		628	
1967	-8,002	52	-2, 423	-5,630	6, 938	3, 450		3, 488		-206	
1968 1969	-8, 547 -8, 763	-880 -1,187	- 2, 2/4	-5, 393 -5, 376	9, 439 12, 270	-776		13 571		439	
		}]		1					
1970	-6, 164	2, 477	-1, 589		5, 923	6, 907	7, 362	984	867	-244	
1971 1972	-9, 299 -9, 929	2, 348	-1,884	-9,763	22, 445	26, 895 10, 705	27,405	- 4, 450 10, 422	717	-9,822	
1973		209	-2, 645	-8, 392 -12, 230	21, 127	6, 299	5, 145	11 454		-2,720	
1974	-27, 029	-1, 434	\$ 365	-25, 960	33, 612	10, 981	10, 322 5, 145 10, 257	22, 631		-1, 555	
1975 1976	-31, 548	-607		- 27, 478 36, 216	14, 336 34, 520	6, 960	5, 259 13, 007			5, 660	
19/0	-42, 959	- 2, 530	-4, 213	-36, 216	34, 520	17, 945	13,007	16, 575		9, 866	
1975:		-325	874	-7, 550	2, 443	3, 452 2, 279	3, 024	-1,009		4, 793 297	1, 121
11	-7, 881	-29		-7, 550 -6, 985 -1, 994	3, 663 2, 416	2,279	1, 884	1, 384		297	3
111 IV	-3,081 -11,836	342	-745 -977	-1, 994	2, 416	-1,603 2,832	1, 977 2, 328	4, 019 2, 982		-2,400 2,971	-2, 479 1, 316
		1		1		1	1				
1976:	-10, 751	-773	-723		6, 856	3, 847 4, 051	2, 323 3, 308	3,009		3, 372	717
	-9,779	-1,578	-1.405	-6, 597	7, 385	3,070	1, 251	5 131		1,905 1,268	-2,622
iv	9, 779 8, 409 14, 022	228		-13, 108	12, 079	6, 977	6, 125	5, 102		3, 325	1, 78
	1		· ·	·	,		1				
1977: [-388		1, 627 -9, 464		5,719	5,007	-3, 209 5, 873		1, 317	524 - 21
} ₽	-10, 283	151		-9,464	12, 923	7, 908 8, 243	7, 452 7, 924	4 680		1, 106 5, 225	-2,506
	1 0,000	1 101	1,1,3	-, 5/2	12,020	0, 140	1 ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	1 ,000	1	0,123	

[Millions of dollars; quarterly data seasonally adjusted, except as noted]

⁵ Includes extraordinary U.S. Government transactions with India.
 ⁶ Consists of gold, special drawing rights, convertible currencies, and the U.S. reserve position in the International Monetary Fund (IMF).

Note.-Quarterly data for changes in U.S. official reserve assets, U.S. private assets abroad, and foreign assets in the U.S. are not seasonally adjusted.

TABLE B-98 <i>U.S.</i>	merchandise	exports a	and im f	borts by	principal	end-use	categories,	1965–77

Millions of dollars; quarterly	data seasonall	/ adjustedj
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			Exports					Imports		
Year or quarter			No	onagricultu	ıral		Petroleum	N	Von-petroleu Industrial supplies 9, 123 10, 235 9, 956 12, 027 11, 798 12, 515 13, 878 16, 413 19, 797 28, 095 24, 355 30, 154 6, 480 7, 462 8, 003 8, 209 8, 070	m
	Total	Agricul- tural	Total	Capital goods	Other goods	Total	and products	Total	Industrial supplies	Other goods
1965 1966 1967 1968 1969	26, 461 29, 310 30, 666 33, 626 36, 414	6, 305 6, 949 6, 453 6, 297 6, 096	20, 156 22, 361 24, 213 27, 329 30, 318	8, 052 8, 907 9, 934 11, 111 12, 369	12, 104 13, 454 14, 279 16, 218 17, 949	21, 510 25, 493 26, 866 32, 991 35, 807	2, 034 2, 078 2, 091 2, 384 2, 649	19, 476 23, 415 24, 775 30, 607 33, 158	10, 235 9, 956 12, 027	10, 353 13, 180 14, 819 18, 580 21, 360
1970 1971 1972 1973 1974	12 160	7, 374 7, 830 9, 514 17, 978 22, 411	35, 095 35, 489 39, 867 53, 432 75, 895	14, 588 15, 302 16, 816 21, 848 30, 410	20, 507 20, 187 23, 051 31, 584 45, 485	39, 866 45, 579 55, 797 70, 499 103, 673	2, 929 3, 649 4, 651 8, 414 26, 591	36, 937 41, 930 51, 146 62, 085 77, 082	13, 878 16, 413 19, 797	24, 422 28, 052 34, 733 42, 288 48, 987
1975 1976	107, 088 114, 694	22, 242 23, 381	84, 846 91, 313	35, 841 38, 716	49, 005 52, 597	98, 043 124, 014	27, 018 34, 573	71, 025 89, 441		46, 670 59, 287
1976: I II III IV	27, 000 28, 380 29, 603 29, 711	5, 410 5, 846 6, 239 5, 886	21, 590 22, 534 23, 364 23, 825	9, 105 9, 531 9, 864 10, 216	12, 485 13, 003 13, 500 13, 609	28, 343 29, 955 32, 411 33, 305	7, 571 8, 252 9, 408 9, 342	20, 772 21, 703 23, 003 23, 963	7,462	14, 292 14, 241 15, 000 15, 754
1977: 1 11 111	29, 458 30, 590 30, 869	6, 118 6, 699 6, 019	23, 340 23, 891 24, 850	9, 427 9, 728 10, 233	13, 913 14, 163 14, 617	36, 561 38, 347 38, 378	11, 032 11, 934 11, 456	25, 529 26, 413 26, 922	8, 070 9, 294 9, 597	17, 459 17, 119 17, 325

Note .--- Data are on an international transactions basis and exclude military grant shipments.

	1971	1972	1973	1974	1975	1976	1977 3
Exports	43, 319	49, 381	71, 410	98, 306	107, 088	114, 694	121, 223
Developed countries	30, 262	34, 564	48, 529	64, 487	66, 496	72, 386	77, 588
Canada Japan Western Europe Australia, New Zealand, and South	10, 927 4, 053 13, 589	13, 109 4, 963 14, 950	16, 710 8, 356 21, 216	21, 842 10, 724 28, 164	23, 537 9, 567 29, 884	26, 336 10, 196 31, 934	28, 232 10, 481 35, 080
Africa	1, 693	1, 542	2, 247	3, 757	3, 508	3, 920	3, 795
Developing countries	12, 637	13, 917	20, 834	32, 082	37, 343	38, 251	40, 922
OPEC 1 Other 2	2, 127 10, 510	2, 551 11, 366	3, 414 17, 420	6, 219 25, 863	9, 956 27, 387	11, 558 26, 693	12, 965 27, 957
Eastern Europe	420	900	2, 047	1, 737	3, 249	4, 057	2, 728
Imports	45, 579	55, 797	70, 499	103, 673	98, 043	4 124, 014	• 151, 048
Developed countries	33, 463	40, 643	48, 985	61, 092	55, 974	67, 455	78, 517
Canada Japan Western Europe Australia, New Zealand, and South	12, 214 7, 278 12, 813	14, 493 9, 076 15, 661	17, 694 9, 665 19, 774	22, 392 12, 414 24, 267	21, 711 11, 257 20, 764	26, 442 15, 531 23, 003	29, 628 18, 367 27, 779
Africa	1, 158	1, 413	1, 852	2, 019	2, 242	2, 479	2, 744
Developing countries	11, 891	14, 791	20, 913	41, 604	41, 335	55, 375	71, 439
OPEC 1 Other 2	2, 265 9, 626	2, 974 11, 817	5, 097 15, 816	17, 250 24, 354	18, 897 22, 438	27, 409 27, 966	36, 607 34, 832
Eastern Europe	225	363	601	977	734	875	1, 111

TABLE B-99.-U.S. merchandise exports and imports by area, 1971-77 [Millions of dollars]

¹ Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.
 ² Latin American Republic, other Western Hemisphere, and other countries in Asia and Africa, less petroleum exporting countries and the International Monetary Fund.
 ³ Average of first 3 quarters at seasonally adjusted annual rate. Detail may not add to totals because of seasonal adjustment discrepancy.
 ⁴ Includes imports of nonmonetary gold from International Monetary Fund not in area detail.

Note .-- Data are on an international transactions basis and exclude military grant shipments.

[Dimono C	n uonarsj				
Type of investment	1970	1972	1974	1975	1976
U.S. assets abroad	165. 5	199. 0	256. 2	295.6	347.
U.S. Government assets	46.6	49. 3	54.2	58.0	64.
Special drawing rights (SDR)	.9	2.0	2.4	2.3	2.
Reserve position in the International Monetary Fund (IMF)	1.9	. 5	1.9	2.2	4.
Foreign currency reserves	.6	.2	.0	.1	
Gold U.S. Joans and other long-term assets	29.7	34.1	36.3	11.6 39.8	11. 44.
U.S. short-term assets other than reserves	2.5	2.0	2.1	2.0	1.
U.S. private assets	118, 8	149. 7	202. 0	237.6	282.
Direct investments abroad (book value)	75.5	89.9	110.2	124.2	137.
Foreign securities	21.0	27.6	28.6	35.2	44.
Claims on foreigners reported by U.S. banks	13.8	20.7	46.2	59.8	80.
Claims on unaffiliated foreigners reported by U.S. nonbanks	8, 5	11.4	17.0	18.4	20.
Foreign assets in the United States	106. 8	161.8	197. 4	221.0	264.
Foreign official assets	26.1	63. 2	80. 3	87.5	106.
U.S. Government securities 1	17.7	52.9	57.7	63.3	73.
Other U.S. Government liabilities	1.7	1.6	3.5	5.2	10.
Liabilities reported by U.S. banks	6.7	8.5	18.4	16.3	17.
Other official assets	.0	.2	.6	2.7	5.
Other foreign assets	80.7	98. 7	117.1	133.6	158.
Direct investments in the United States (book					
value)	13.3 22.7	14.9 21.2	25.1 41.8	27.7	30. 53.
Liabilities reported by U.S. banksU.S. Treasury securities	1.2	1.2	1.7	42.5	53. 7.
Other II S cocurities 2	34.7	50.7	34.9	45.3	54.
Other U.S. securities ² Liabilities to unaffiliated foreigners reported by	54.7	50.7	54.5	40. 5	54.
U.S. nonbanks	8, 8	10. 7	13.6	13.8	13.
Net foreign wealth (including official gold holdings) of the United States	58.6	37.1	58. 8	74.6	82.

[Billions of dollars]

¹ Includes Treasury and agency issues of securities. ² Corporate and other bonds and corporate stocks.

Note,—Gold is valued at SDR35 per ounce, throughout. The SDR value is converted to dollars at \$1/SDR before December 1971, at \$1.08571/SDR from December 1971 through January 1973, at \$1.20635/SDR from February 1973 through June 1974, and as measured by the basket valuation of the SDR beginning July 1974.

TABLE B-101.-Summary of major U.S. Government net foreign assistance, July 1, 1945 to December 31, 1976

The second se	Yearly average or calendar year						
Type and geographic distribution	1945–49 ²	1950-54	1955-59	1960-64			
Total, net	5, 540	5, 059	4, 772	4, 664			
Investment in 6 international financial institutions 3	141		7	124			
Under assistance programs, net	5, 3 99	5, 059	4, 764	4, 540			
Net new military grants Gross new grants Less: Reverse grants and returns		2, 462 2, 494 32	2, 438 2, 451 14	1, 594 1, 629 35			
Other grants, credits, and other assistance (through net accumulation of foreign currency claims), net	5, 074	2, 597	2, 327	2, 940			
Net new economic and technical aid grants 4 Gross new grants Less: Reverse grants and returns	3, 312 3, 486 174	2, 406 2, 512 106	1, 710 1, 759 48	1, 850 1, 872 22			
Net new credits 4 5 New credits Less: Principal collections		148 544 396	210 827 617	871 1, 843 972			
Other assistance (through net accumulation of foreign currency claims) ⁶		42	407	22			
Currency claims acquired Sales of farm products Second-stage operations 7		51 51	965 963 2	1, 230 1, 180 44			
Less: Currencies disbursed		9	558	1, 00			
Economic grants and credits to purchasing country Other uses		7 2	413 145	807 198			
Geographic distribution of net nonmilitary assistance							
Developing countries, [®] net total	904	1, 032	2, 211	3, 316			
Net new economic and technical aid grants Net new credits Other assistance (through net accumulation of foreign	752 152	772 240	1, 470 386	1, 817 1, 310			
currency claims)		20	355	189			
Developed countries, ⁸ net total	4, 170	1, 564	116	371			
Net new economic and technical aid grants Net new credits Other assistance (through net accumulation of foreign	2, 560 1, 610	1, 634 -92	240 -176	-439 -439			
currency claims)		22	52	36			

[Millions of dollars] 1

¹ Negative figures (-) occur when the total of grant returns, principal repayments, and/or foreign currencies disbursed by the Government exceeds new grants and new credits utilized and/or acquisitions of foreign currencies through new sales of farm products.
 ² July 1, 1945, through December 31, 1949, Yearly average is for 436 years.
 ³ Includes paid-in capital subscriptions and contributions to the special funds of the African Development Fund, Asian Development Bank, Inter-American Development Bank, International Development Association, and International Finance Corporation.
 ⁴ Net new grants are not adjusted for settlements of postwar relief and other grants under agreements, and net new credits.
 ⁵ Outstanding credits on December 31, 1976, totaled \$38,821 million, representing net credits extended since organization, and exclude groot Bank, 1976, totaled \$38,821 million, so the so adjustment of exclude prior Bank, February 12, 1534, less chargeoffs and net adjustments due to exchange rates \$14, 455 million), and excluding World War I debts. The amount repayable in dollars at U.S. Government option was \$36,002 million; the remainder was repayable in foreign currencies, commodities, or services, at the option of the borrowers.

	Ye	early average o	r calendar year	
Type and geographic distribution	1965-69	1970-74	1975	1976
Total, net	5, 899	7, 146	8, 681	7, 940
Investment in 6 international financial institutions 3	81	332	654	1, 102
Under assistance programs, net	5, 818	6, 814	8, 027	6, 83
Net new military grants Gross new grants Less: Reverse grants and returns	2, 190 2, 196 5	3, 310 3, 314 5	2, 901 2, 905 4	1, 354 1, 350
Other grants, credits, and other assistance (through net accumulation of foreign currency claims), net	3, 628	3, 504	5, 126	5, 48
Net new economic and technical aid grants 4 Gross new grants Less : Reverse grants and returns	1, 776 1, 780 4	2, 486 2, 534 48	2, 247 2, 249 2	2,260 2,260
Net new credits 4 5 New credits Less: Principal collections	1, 950 3, 082 1, 132	1, 190 3, 836 2, 646	2, 849 5, 293 2, 444	3, 27; 5, 82 2, 55
Other assistance (through net accumulation of foreign currency claims) ⁶	98	-171	30	5
Currency claims acquired Sales of farm products Second-stage operations ⁷	814 691 122	742 106 635	189 5 184	• ¹² 12
Less: Currencies disbursed	912	913	159	18
Economic grants and credits to purchasing country Other uses	716 196	709 204	21 138	4 14
Geographic distribution of net nonmilitary assistance				
Developing countries, ⁸ net total	3, 611	3, 614	5, 017	5, 32
Net new economic and technical aid grants Net new credits	1, 765 1, 926	2, 529 1, 233	2, 248 2, 710	2, 26 3, 08
Other assistance (through net accumulation of foreign currency claims)	-80	-149	58	-3
Developed countries, ⁸ net total	17	-109	109	16
Net new economic and technical aid grants	11 24	-44 -43	-1 139	18
Other assistance (through net accumulation of foreign currency claims)	18	-22	28	-2

 TABLE B-101.—Summary of major U.S. Government net foreign assistance, July 1, 1945 to December 31, 1976—Continued

[Millions of dollars] (

⁶ Equivalent value of currencies still available to be used, including some funds advanced from foreign governments and after loss by exchange rate fluctuations (\$1,355 million), was \$645 million on December 31, 1976. ⁷ Includes foreign currencies acquired from triangular trade operations and principal and interest collections on credits, originally extended under Public Law 83-480, which—since enactment of Public Law 87-128—are available for the same purposes as Public Law 83-480 currencies. ⁹ Developed countries include Australia, Canada, Japan, New Zealand, Republic of South Africa, and all countries in Europe except Malta, Portugal, Spain, and Yugoslavia. Developing countries include all other countries. This classification is on the basis of the standard list of less developed countries used by the Development Assistance Committee of the Organization for Economic Cooperation and Development.

Source: Department of Commerce, Bureau of Economic Analysis, based on information made available by operating agencies.

Area and country	1952	1 9 62	1973	1974	1975	1976	1977 November
All countries	1 49, 263	62, 585	183, 680	220, 600	227, 657	258, 300	306, 602
Industrialized countries 2	36, 760	49, 248	115, 505	119, 908	121, 880	131, 849	162, 161
United States Canada Japan	24, 714 1, 944 1, 101	17, 220 2, 561 2, 021	14, 378 5, 768 12, 246	16, 058 5, 825 13, 519	15, 883 5, 326 12, 815	18, 320 5, 843 16, 605	18, 933 4, 191 22, 551
Austria Belgium France Germany	106 1, 133 686 960 722 950	1, 077 1, 753 4, 049 6, 957 4, 068 1, 943	2, 874 5, 100 8, 529 33, 171 6, 436 6, 547	3, 430 5, 345 8, 852 32, 398 6, 941 6, 957	4, 439 5, 797 12, 593 31, 034 4, 774 7, 109	4, 410 5, 206 9, 728 34, 801 6, 654 7, 387	4, 014 5, 756 10, 002 36, 837 11, 684 8, 418
Scandinavian countries (Den- mark, Norway, and Sweden). Switzerland United Kingdom	817 1, 667 1, 958	1, 362 2, 919 3, 308	5, 428 8, 520 6, 476	4, 600 9, 011 6, 939	6, 191 10, 428 5, 459	5, 636 12, 993 4, 230	8, 421 10, 623 20, 695
Other Europe	1, 559	2, 966	16, 191	15, 141	13, 049	13, 737	14, 897
Australia, New Zealand, and South Africa	1, 509	2, 066	7, 824	6, 068	4, 900	4, 602	3, 770
Oil exporting countries	1, 699	2, 030	14, 514	46, 997	56, 529	65, 236	75, 025
Iran Nigeria Saudi Arabia Venezuela Other 3	177 500 443 579	211 289 268 583 679	1, 236 583 3, 877 2, 412 6, 406	8, 383 5, 626 14, 285 6, 513 12, 190	8, 897 5, 603 23, 319 8, 861 9, 849	8, 833 5, 203 27, 025 8, 578 15, 597	11, 511 4, 373 30, 904 8, 425 19, 812
Other less developed areas	7, 276	6, 275	29, 644	32, 487	31, 302	42, 875	50, 749
Other Western Hemisphere	2, 175	1, 631	12, 00 9	11, 898	10, 026	15, 175	18, 010
Other Middle East	826	992	4, 340	4, 754	5, 186	5, 778	6, 772
Other Asia	3, 479	2, 664	10, 643	12, 835	13, 287	18, 849	22, 405
Other Africa	796	988	2, 651	3, 000	2, 804	3, 073	3, 562

TABLE B-102.-International reserves, 1952, 1962, and 1973-77

[Millions of dollars; end of period]

¹ Includes Cuba. ² Includes Luxembourg. ³ Algeria, Indonesia, Iraq, Kuwait, Libya, Oman, Qatar, and United Arab Emirates.

Note.—International reserves is comprised of monetary authorities' holdings of gold, special drawing rights (SDR), reserve positions in the International Monetary Fund, and foreign exchange. Data exclude U.S.S.R., other Eastern European countries, Mainland China, and Cuba (after 1960).

Source: International Monetary Fund, "International Financial Statistics."

Area and country	1965	1970	1973	1974	1975	1976	1977 ı
	`	!	Expo	orts, f.a.s. ²	'		
Developed countries 3	129. 8	225. 7	411.0	547. 5	582.8	646. 3	713.7
United States Canada Japan	27.5 8.5 8.5	43. 2 16. 7 19. 3	71. 3 26. 4 37. 1	98. 5 34. 5 55. 6	107.6 34.0 55.8	115.0 40.3 67.3	122. 4 43. 7 80. 6
European Community	64. 8	112. 8	212. 0	276.4	298. O	327.9	375. 1
France West Germany Italy United Kingdom	10. 2 17. 9 7. 2 13. 8	18. 1 34. 2 13. 2 19. 4	36. 7 67. 6 22. 2 30. 7	46. 3 89. 3 30. 5 38. 9	53. 1 90. 2 34. 8 44. 1	57.2 102.2 37.0 46.2	65. 2 116. 4 43. 3 56. 9
Other developed countries	20. 5	33.6	64.1	82.5	87.4	95. 8	91.9
eveloping countries	35.6	54. 3	106.4	215.6	203. 0	246. 3	282.7
OPEC 4 Other	11.0 24.6	17.6 36.8	39.6 66.8	118. 8 96. 8	109. 7 93. 3	133. 1 113. 3	147.0 135.7
ommunist countries •	23. 2	34. 7	61.0	76.0	90. 0	96. 7	113.6
U.S.S.R. Eastern Europe China	8.2 11.8 2.0	12. 8 18. 2 2. 1	21. 3 31. 7 5. 0	27.4 38.2 6.6	33.3 45.2 7.0	37.2 47.5 7.2	44.0 56.4 7.5
OTAL	188. 5	314. 8	578.4	839. 0	875. 8	989. 4	1, 110. 0
				mports, c.i.f.	6		
Developed countries 3	136.7	235. 3	427. 2	608. 2	610. 4	700. 9	776. 5
United States Canada Japan	23. 2 8. 7 8. 2	42. 4 14. 4 18. 9	73.6 24.8 38.4	108.0 34.4 62.1	103. 4 36. 2 57. 9	129.6 40.3 64.9	158.8 42.4 71.8
European Community	69. 3	116.6	216. 4	295. 3	301. 3	345.0	385.6
France West Germany Italy United Kingdom	10. 4 17. 6 7. 4 16. 1	19. 1 29. 9 15. 0 21. 7	37.7 54.9 27.8 38.8	52. 9 69. 6 41. 1 54. 4	54. 0 74. 9 38. 4 53. 5	64.4 88.4 43.4 55.9	70.2 102.0 46.4 63.4
Other developed countries	27.3	43.0	74.0	108. 3	111.7	121. 2	117. 9
eveloping countries	37.0	56.8	99. 4	162.6	191. 6	211. 1	243.8
OPEC 4 Other	6.5 30.5	10.0 46.8	20. 3 79. 1	32. 8 129. 8	54.5 137.0	69. 2 141. 9	83. 1 160. 8
Communist countries 5	22.6	34. 2	62.0	79. 2	100.6	102. 4	110.4
U.S.S.R. Eastern Europe China	8.1 11.6 1.8	11.7 18.5 2.2	21.0 32.8 5.1	24. 9 43. 0 7. 4	36. 9 51. 2 7. 4	38.5 52.8 6.0	42. 56. 6.
TOTAL	196. 3	326. 3	588.6	849. 9	902.5	1, 014. 4	1, 131.

TABLE B-103.-World trade: Exports and imports, 1965, 1970, and 1973-77 [Billions of U.S. dollars]

¹ Preliminary estimates. ² Free-alongside-ship value. ³ Includes the OECD countries, South Africa, ane non-OECD Europe. ⁴ Includes Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. ⁵ Includes U.S.S.R., Eastern Europe, China, North Korea, Vietnam, Albania, Cuba, Mongolia, and Yugoslavia. ⁶ Cost, insurance, and freight value.

Sources: International Monetary Fund, Organization for Economic Cooperation and Development, and Council of Economic Advisers.

TABLE E-104.—World trade balance and current account balances, 1965, 1970, o	and 1973-77	7
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Area and country	1965	1970	1973	1974	1975	1976	1977 ı
			Worl	d trade bala	nce ²		
Developed countries 3	-6.9	-9.6	-16.2	-60.7	27.6	54.6	62.
United States Canada Japan European Community	4.3 2 .3 4.5	.8 2.4 .4 -3.8	-2.2 1.7 -1.4 -4.4	-9.5 .1 -6.6 -18.9	4.2 2.2 2.0 3.3	-14.6 1 2.4 -17.0	-36 1 8 -10
France West Germany Italy United Kingdom Other developed countries	2 .3 2 -2.3 -6.8	$-1.0 \\ 4.3 \\ -1.8 \\ -2.3 \\ -9.4$	1.1 12.7 5.6 8.2 9.9	6.7 19.7 10.6 15.5 25.8	8 15. 2 3. 6 9. 4 24. 3	7.2 13.7 6.5 9.6 25.3	-5. 14 -3. -6. -26.
Developing countries	-1.4	-2.4	7.0	53.0	11.4	35. 3	38
OPEC 4 Other	4.5 5.9	7.5 -10.0	19.3 12.3	85. 9 32. 9	55. 2 43. 8	63. 9 28. 6	63 25
Communist countries 5	.5	.5	9	-3.2	-10.5	-5.7	2
U.S.S.R Eastern Europe China	.1 .2 .2	1.1 4 2	-1.1 2	2.5 -4.7 8	3.7 6.0 3	-1.3 -5.3 1.2	2 - 1
OTAL 6	7.9	-11.5	-10. 2	—10. 9	—26. 7	-25.0	21
	Current account balances 7						
DECD	2.4	4.0	2.8	-32.8	-6.3	-26.5	32
United States Canada Japan European Community	4.3 -1.0 .9 .9	4 1.1 2.0 3.2	4 .0 1 1.7	⁸ 2.3 -1.5 -4.7 -11.3	11.6 4.7 7 .7	1.4 4.2 3.7 7.8	-18 -4 10
France	-1.6 2.2 2	.1 .9 1.1 1.6	7 4.3 2.7 2.2	6.0 9.7 8.0 8.1	1 3.8 8 -3.7	6.1 3.4 2.8 2.5	-3 2 1
Developing countries		-4.8	1.0	37.3	9.3	16.0	17
OPEC 9 Other		2.0 6.8	9.0 -8.0	61.8 24.5	30.8 40.0	42. 3 26. 3	40 22
Other 10		1.5	5.5	9.8	18. 0	-13.3	-11
TOTAL ،		-2.3	-1.7	5. 3	-33.5	-23.8	-25

[Billions of U.S. dollars]

¹ Preliminary estimates.
 ² Exports f.a.s. (free alongside ship) less imports c.i.f. (cost, insurance, and freight).
 ³ Includes the DECD countries, the South Africa, and non-DECD Europe.
 ⁴ Includes the DECD countries, the South Africa, and non-DECD Europe.
 ⁴ Includes the DECD countries, the South Africa, and non-DECD Europe.
 ⁵ Includes U.S.S.R., Eastern Europe, China, North Korea, Vietnam, Albania, Cuba, Mongolia, and Yugoslavia.
 ⁶ Asymmetries arise in global payments aggregations because of discrepancies in coverage, classification, timing, and valuation in the recording of transactions by the countries involved.
 ⁷ OECD basis.
 ⁸ Excludes cancellation of Indian debt (-\$2.0 billion) and extradordinary grants (-\$0.7 billion).
 ⁹ Consists of countries in footnote 4 plus Bahrain.
 ¹⁰ Includes Communist countries and non-OECD developed countries.

Sources: International Monetary Fund, Organization for Economic Cooperation and Development, and Council of Economic Advisers.

TABLE	105.—Consumer	prices and hourl	y compensation.	major industrial	countries, 1960-77

Year or guarter	United States	Canada	Japan	France	West Germany	Italy	United Kingdom
		·	Co	nsumer pric	es		
1960 1961 1962 1963 1963 1964	88.7 89.6 90.6 91.7 92.9	85. 9 86. 7 87. 7 89. 3 90. 9	67.7 71.3 76.1 81.9 85.0	78, 8 81, 4 85, 3 89, 4 92, 5	82, 8 84, 7 87, 3 89, 8 92, 0	74. 1 75. 7 79. 2 85. 1 90. 1	78. 9 81. 6 85. 1 86. 8 89. 6
1965 1966 1967 1968 1969	94. 5 97. 2 100. 0 104. 2 109. 8	93. 1 96. 6 100. 0 104. 1 108. 8	91, 5 96, 2 100, 0 105, 3 110, 8	94.8 97.4 100.0 104.5 111.3	94. 9 98. 3 100. 0 101. 5 103. 4	94.2 96.4 100.0 101.4 104.1	93.9 97.6 100.0 104.7 110.4
1970 1971 1972 1973 1974	116. 3 121. 3 125. 3 133. 1 147. 7	112. 4 115. 6 121. 1 130. 3 144. 5	119. 3 126. 8 133. 0 148. 5 183. 0	117, 1 123, 5 131, 1 140, 7 160, 0	107. 0 112. 6 118. 9 127. 1 136. 0	109. 2 114. 5 121. 0 134. 2 159. 8	117, 4 128, 5 137, 6 150, 3 174, 3
1975 1976 1977 p	161.2 170.5 181.5	160. 1 172. 1	204. 5 223. 7	178.9 196.1	144. 1 150. 6	186. 9 218. 3	216. 5 252. 4
1976: I II III IV	167. 1 169. 2 171. 9 173. 8	168. 3 170. 9 173. 4 175. 9	215. 7 222. 6 225. 4 230. 9	188. 7 192. 9 197. 4 202. 4	148, 7 150, 9 151, 1 151, 8	202, 1 214, 9 220, 9 235, 0	240, 0 248, 8 254, 6 266, 3
1977: 1 11 111 111 111 p	176. 9 180. 7 183. 3 185. 3	179. 7 184. 0 187. 9	236. 0 242. 5 243. 5	205. 7 211. 9 216. 9	154. 7 156. 8 157. 1	246. 0 255. 4	279. 7 292. 1 296. 7
		· · · · · ·	Hourl	y compensa	tion 1		I
1960 1961 1962 1963 1964	77.0 79.3 82.5, 85.1 88.9	80. 3 78. 9 77. 0 79. 0 82. 0	43. 4 50. 3, 57. 5 64. 1 72. 0	56. 1 61. 8 68. 1 75. 2 80. 9	51, 9 60, 2 68, 3 73, 2 79, 1	49. 8 52. 8 61. 8 73. 5 82. 3	65. 9 70. 8 74. 6 77. 9 83. 2
1965 1966 1967 1968 1969	90. 9 95. 2 100. 0 107. 0 114. 0	86. 2 93. 0 100. 0 107. 4 115. 5	81. 1 89. 2 100. 0 116. 9 139. 3	87.0 92.5 100.0 112.5 114.0	86.5 94.2 100.0 105.8 117.4	88.9 91.3 100.0 107.3 117.0	91. 2 98. 7 100. 0 93. 3 100. 6
1970 1971 1972 1973 1974	121, 7 129, 8 137, 0 147, 0 161, 4	128. 2 142. 6 156. 8 170. 7 201. 8	166. 0 198. 2 262. 3 358. 2 437. 6	119.9 134.5 164.3 211.9 232.1	145. 4 173. 8 211. 7 288. 7 342. 6	140. 4 167. 5 202. 3 255. 0 285. 4	115. 6 134. 8 152. 8 171. 9 201. 1
1975 1976 1977 p	179. 4 194. 8 211. 9	222. 2 257. 1	494. 2 538. 3	308. 8 313. 0	402. 3 413. 4	370. 0 344. 2	247. 4 233. 6

[1967 == 100]

¹ Hourly compensation in manufacturing, U.S. dollar basis. Data relate to all employed persons (wage and salary earners, the self-employed, and unpaid family workers) in the United States and Canada 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.

Source: Department of Labor, Bureau of Labor Statistics.

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TABLE B-106.—Industrial production and unemployment rate, major industrial countries, 1960-77	
[Quarterly data seasonally adjusted]	

Year or quarter	United States	Canada	Japan	European Com- munity 1	France	West Germany	Italy	United Kingdom
		Industrial production (1967=100) ²						
1960 1961 1962 1963 1964	66. 2 66. 7 72. 2 76. 5 81. 7	63. 0 65. 6 71. 1 75. 7 82. 6	43. 0 51. 3 55. 4 61. 7 71. 4	74. 7 78. 1 81. 3 84. 8 91. 0	71 75 79 83 90	77.6 82.0 86.4 89.4 96.6	60. 0 65. 7 71. 9 77. 9 79. 1	84. 0 84. 0 84. 8 88. 4 95. 0
1965 1966 1967 1968 1969	89.8 97.8 100.0 106.3 111.1	89.6 96.3 100.0 106.4 113.7	74. 2 83. 9 100. 0 115. 2 133. 4	94.7 98.4 100.0 107.4 117.6	93 98 100 104 114	102. 1 103. 0 100. 0 109. 2 123. 1	83. 0 92. 3 100. 0 106. 4 110. 5	97.7 99.2 100.0 106.8 110.3
1970 1971 1972 1973 1974	107. 8 109. 6 119. 7 129. 8 129. 3	115.3 121.5 130.0 141.7 145.8	151. 7 155. 8 167. 2 193. 3 187. 4	123. 3 126. 1 131. 7 141. 4 142. 3	120 128 135 145 148	131. 1 133. 6 138. 7 147. 7 145. 1	117.6 117.5 122.7 134.6 140.6	110.9 110.8 113.2 122.5 120.3
1975 1976 1977 ₽	117.8 129.8 137.1	139.0 145.4	167.5 190.3	132. 9 142. 4	137 149	137. 1 149. 1	127.6 143.5	114.5 116.0
1976: 1 11 11 11 1V	127. 3 129. 4 130. 9 131. 6	144.5 147.1 146.5 147.6	181. 8 189. 7 192. 7 196. 2	139 142 142 146	147 148 151 149	145 148 149 151	136. 4 141. 5 141. 0 149. 5	114. 1 116. 5 115. 9 117. 6
1977: I II III IV P	133. 6 137. 0 138. 5 139. 2	150. 8 151. 3 151. 1	197. 4 199. 0 197. 2	149 146 143	155 153 151	153 152 153	152. 9 141. 8 136. 5	119. 1 117. 1 117. 6
		Unemployment rate (percent) ³						
1960 1961 1962 1963 1964	5.5 6.7 5.5 5.7 5.2	7.0 7.1 5.9 5.5 4.7	1.7 1.5 1.3 1.3 1.2		1.8 1.6 1.5 1.3 1.5	1.1 .6 .6 .5 .4	3. 8 3. 2 2. 8 2. 4 2. 6	2. 2 2. 0 2. 8 3. 4 2. 5
1965 1966 1967 1968 1969	4, 5 3, 8 3, 6 3, 5	3.9 3.4 3.8 4.5 4.4	1.2 1.4 1.3 1.2 1.1		1.6 1.9 2.0 2.6 2.4	.3 .3 1.3 1.4 .9	3.5 3.8 3.4 3.4 3.3	2. 2 2. 3 3. 4 3. 3 3. 0
1970 1971 1972 1973 1973	4.9 5.9 5.6 4.9 5.6	5.7 6.2 6.2 5.6 5.4	1.2 1.3 1.4 1.3 1.4		2.6 2.8 2.8 2.7 3.0	.8 .8 .8 .8 1.7	3. 1 3. 1 3. 6 3. 4 2. 8	3. 1 3. 9 4. 2 3. 2 2. 8
1975 1976 1977 ₽	8.5 7.7 7.0	6.9 7.1 8.1	1.9 2.0 42.0		4.2 4.6 45.2	3.7 3.6 3.5	3. 2 3. 6 3. 3	4.7 6.4 7.0
1976: I II III IV	7.7 7.5 7.7 7.8	6.9 7.1 7.3 7.4	2.0 2.1 2.1 1.9		4.5 4.6 4.7 4.6	3.8 3.6 3.6 3.5	3.4 3.6 3.7 3.6	6.2 6.5 6.5 6.6
1 977: 1 H HI IV	7.4 7.1 6.9 6.6	7.8 8.1 8.2 8.4	1.9 2.1 2.1		4.8 5.3 5.8	3.4 3.5 3.6 3.5	3. 2 3. 2 3. 5 3. 3	6.8 7.0 7.2 7.2

¹ Consists of Belgium-Luxembourg, Denmark, France, Ireland, Italy, Netherlands, United Kingdom, and West Germany.
 ² All data exclude construction.
 ³ Unemployment rates adjusted to U.S. concepts. Data for United Kingdom exclude Northern Ireland.
 ⁴ 11-month average, seasonally adjusted.

Sources: Department of Commerce (Bureau of International Economic Policy and Research) and Department of Labor (Bureau of Labor Statistics).

TABLE B-107.—Growth rates in real gross national product, 1961-77	TABLE	B-107.—	-Growth	rates in real	gross national	product,	1961–77
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Area and country	1961 to 1972 annual average	1973	1974	1975	1976	1977 1	U.S. dollar value in 1976 (billions) ²
OECD countries	5. 2	5.9	0. 2	-0.9	5. 2	3. 5	4, 346. 4
United States Canada Japan European Community	4.3 5.9 11.3 4.9	5.4 7.2 9.8 5.2	-1.6 3.2 -1.1 1.8	-1.3 1.1 2.4 -1.8	6.0 4.9 6.3 4.7	4.8 2.3 6.0 2.3	1, 706. 5 189. 2 555. 4 1, 389. 9
France West Germany Italy United Kingdom	6.2 5.1 5.5 3.0	5.3 5.1 6.8 6.0	2.9 .7 3.4 .3	1.0 2.5 3.7 1.6	5. 2 5. 7 5. 6 2. 1	2.7 2.8 2.1 .4	346. 8 451. 3 170. 8 216. 9
Other OECD	5.6	4.5	2, 6	6	2.9	1.5	505.4
Communist countries	4.8	7.6	4.7	3. 4	3. 5		1, 651. 9
U.S.S.R. Eastern Europe China	4.7 4.1 5.8	7.4 4.5 12.8	3.8 4.6 3.7	2.0 4.5 6.8	3.9 4.0 ,2	3.1	921.7 316.0 323.7
Less developed countries	5.6	8, 2	10. 1	3. 7	5.6		1, 143
OPEC Other	3 9.0 3 6.1	10. 7 6. 7	8.7 5.2	3. 0 3. 4	11. 7 5. 1		
TOTAL							4 7, 255

[Percent change]

Preliminary estimates,
 Estimates based on conversion at average rates of exchange for 1976, except for those of the Communist countries, which were converted at U.S. purchasing power equivalents.
 Percent change from 1967 to 1972.
 Sum of OECD, Communist countries, and less developed countries, plus an estimate of \$114 billion for non-OECD developed countries.

Note.—For Italy and United Kingdom, data relate to real gross domestic product. For France, data relate to gross domes-tic product excluding nonmarket activity such as compensation of employees in the government sector.

Sources: Department of Commerce and Organization for Economic Cooperation and Development (OECD).

TABLE B-108	Exchange rates	1970-77
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	[A	Aay 1970 pariti	es == 100]			
Year and month	Belgian	Canadian	French	German	Italian	Japanese
	franc	dollar	franc	mark	Jira	yen
May 1970 rate 1	2.0000	92. 50	18.004	27, 332	0.16000	0. 27778
1970: Mar	2, 0133	93, 212	18.038	27. 225	. 15897	. 28963
June	2, 0142	96, 273	18.111	27. 528	. 15897	. 27864
Sept	2, 0145	98, 422	18.112	27. 537	. 16005	. 27935
Dec	2. 0137	98. 276	18. 107	27. 437	. 16039	. 27959
1971: Mar	2. 0145	99. 367	18. 129	27. 538	. 16063	. 27971
June	2. 0109	97. 913	18. 092	28. 474	. 16009	. 27979
Sept	2. 0921	98, 717	18. 112	29. 794	. 16292	. 29583
Dec	2. 1986	100. 067	18. 549	30. 593	. 16652	. 31249
1972: Mar	2. 2757	100, 152	19. 835	31, 545	. 17161	. 33054
June	2. 2758	102, 092	19. 937	31, 560	. 17142	. 33070
Sept	2. 2742	101, 730	19. 977	31, 318	. 17199	. 33209
Dec	2, 2670	100, 326	19.657	31, 262	. 17146	. 33196
1973: Mar	2, 5378	100, 333	22.191	35, 548	. 17604	. 38190
June	2, 6643	100, 160	23.472	38, 786	. 16792	. 37808
Sept	2, 7089	99, 181	23.466	41, 246	. 17691	. 37668
Dec	2, 4726	100, 058	21.757	37, 629	. 15458	. 35692
1974: Mar	2, 5040	102.877	20. 742	38. 211	. 15687	35454
June	2, 6366	103.481	20. 408	39. 603	. 15379	35340
Sept	2, 5364	101.384	20. 831	37. 580	. 15103	33439
Dec	2, 7158	101.192	22. 109	40. 816	. 15179	33288
1975: Mar	2, 9083	99. 954	23. 804	43, 120	. 15842	. 34731
June	2, 8603	97. 426	24. 971	42, 726	. 15982	. 34077
Sept	2, 5485	97. 437	22. 367	38, 191	. 14740	. 33345
Dec	2, 5311	98. 627	22. 428	38, 144	. 14645	. 32715
1976: Mar	2, 5480	101. 431	21. 657	39.064	. 12113	. 33276
June	2, 5220	102. 71	21. 109	38.797	. 11780	. 33424
Sept	2, 6046	102. 56	20. 334	40.169	. 11837	. 34800
Dec	2, 7483	98, 204	20. 055	41.965	. 11521	. 33933
1977: Mar	2. 7258	95, 125	20. 075	41, 812	. 11276	. 35687
June	2. 7713	94, 549	20. 240	42, 453	. 11295	. 36652
Sept	2. 7910	93, 168	20. 314	43, 034	. 11318	. 37486
Dec	2. 9608	91, 132	20. 844	46, 499	. 11416	. 41491
					United Sta	ites dollar
	Netherlands guilder	Swedish krona	Swiss franc	United Kingdom pound	Multilateral trade- weighted average	Bilateral trade- weighted average
May 1970 rate ¹	27.624	19. 331	22. 868	240.00	100.0	100.0
1970: Mar Sept Dec 1971: Mar June	27. 525 27. 588 27. 785 27. 763 27. 816 28. 065	19. 232 19. 266 19. 225 19. 340 19. 369 19. 370	23. 202 23. 171 23. 219 23. 187 23. 254 24. 409	240. 58 239. 77 238. 53 239. 06 241. 87 241. 87	99. 4 99. 3 99. 0 99. 1 98. 7 98. 0	98. 8 98. 2 97. 3 97. 3 97. 3 96. 7 96. 4
Sept	29.308	19.732	25. 118	246.94	95. 1	94. 9
Dec	30.503	20.434	25. 615	252.66	92. 3	91. 8
1972: Mar	31. 384	20. 956	25. 974	261. 81	89. 1	89. 5
June	31. 296	21. 101	26. 320	256. 91	89. 0	88. 9
Sept.	30. 969	21. 146	26. 403	244. 10	89. 8	89. 4
Dec.	30. 962	21. 080	26. 526	234. 48	90. 7	90. 3
1973: Mar	34. 334	22. 582	31. 084	247. 24	82. 7	84. 9
June	36. 582	23. 746	32. 757	257. 62	79. 9	83. 8
Sept.	38. 542	23. 769	33. 146	241. 83	79. 1	83. 8
Dec 1974: Mar	35. 615	22.026 21.915	31. 252 32. 490 33. 449	231.74 234.06 239.02	84. 2 84. 3 83. 1	86.8 85.7 85.0
June Sept Dec 1975: Mar June Sept Dec	36. 870 39. 331 42. 124 41. 502 37. 229	22. 333 23. 897 25. 481 25. 532 22. 501 22. 685	33. 371 38. 442 40. 273 40. 086 36. 905 37. 970	233. 62 231. 65 232. 94 241. 80 228. 03 208. 35 202. 21	85. 4 85. 4 82. 2 78. 5 79. 4 86. 1 86. 6	87. 5 86. 1 84. 3 86. 0 89. 5 89. 6
1976: Mar June Sept Dec 1977: Mar	36. 524 38. 390 40. 240	22. 702 22. 475 22. 998 24. 051 23. 726	38. 980 40. 484 40. 431 40. 823 39. 209	194. 28 176. 40 172. 72 167. 84 171. 74	88.8 91.0 90.2 90.5 90.4	89.6 90.3 89.5 91.5 91.9
June Sept Dec	40. 326	23.726 22.625 20.602 21.044	40. 170 42. 115 48. 168	171.74 171.91 174.31 185.46	90. 4 89. 9 89. 5 85. 5	91. 9 91. 5 91. 6 89. 3

[May 1970 parities=100]

¹ Cents per unit of foreign currency.

Source: Board of Governors of the Federal Reserve System.

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