The impressive performance of the U.S. economy persisted in the first half of 2000 with economic activity expanding at a rapid pace. Overall rates of inflation were noticeably higher, largely as a result of steep increases in energy prices. The remarkable wave of new technologies and the associated surge in capital investment have continued to boost potential supply and to help contain price pressures at high levels of labor resource use. At the same time, rising productivity growth—working through its effects on wealth and consumption, as well as on investment spending—has been one of the important factors contributing to rapid increases in aggregate demand that have exceeded even the stepped-up increases in potential supply. Under such circumstances, and with the pool of available labor already at an unusually low level, the continued expansion of aggregate demand in excess of the growth in potential supply increasingly threatened to set off greater price pressures. Because price stability is essential to achieving maximum sustainable economic growth, heading off these pressures has been critical to extending the extraordinary performance of the U.S. economy.

To promote balance between aggregate demand and potential supply and to contain inflation pressures, the Federal Open Market Committee (FOMC) took additional firming actions this year, raising the benchmark federal funds rate 1 percentage point between February and May. The tighter stance of monetary policy, along with the ongoing strength of credit demands, has led to less accommodative financial conditions: On balance, since the beginning of the year, real interest rates have increased, equity prices have changed little after a sizable run-up in 1999, and lenders have become more cautious about extending credit, especially to marginal borrowers. Still, households and businesses have continued to borrow at a rapid pace, and the growth of M2 remained relatively robust, despite the rise in market interest rates. The favorable outlook for the U.S. economy has contributed to a further strengthening of the dollar, despite tighter monetary policy and rising interest rates in most other industrial countries.

Perhaps partly reflecting firmer financial conditions, the incoming economic data since May have suggested some moderation in the growth of aggregate demand. Nonetheless, labor markets remained tight at the time of the FOMC meeting in June, and it was unclear whether the slowdown represented a decisive shift to more sustainable growth or just a pause. The Committee left the stance of policy unchanged but saw the balance of risks to the economic outlook as still weighted toward rising inflation.

When the FOMC convened for its first two meetings of the year, in February and March, economic conditions in the United States were pointing toward an increasingly taut labor market as a consequence of a persistent imbalance between the growth rates of aggregate demand and potential aggregate supply. Reflecting the underlying strength in spending and expectations of tighter monetary policy, market interest rates were rising, especially after the century date change passed without incident. But, at the same time, equity prices were still posting appreciable gains on net. Knowing that the two safety valves that had been keeping underlying inflation from picking up until then—the economy’s ability to draw on the pool of available workers and to expand its trade deficit on reasonable terms—could not be counted on indefinitely, the FOMC voted for a further tightening in monetary policy at both its February and its March meetings, raising the target for the overnight federal funds rate 25 basis points on each occasion. In related actions, the Board of Governors also approved quarter-point increases in the discount rate in both February and March.

The FOMC considered larger policy moves at its first two meetings of 2000 but concluded that significant uncertainty about the outlook for the expansion of aggregate demand in relation to that of aggregate supply, including the timing and strength of the economy’s response to earlier monetary policy tight-
enings, warranted a more limited policy action. Still, noting that there had been few signs that the rise in interest rates over recent quarters had begun to bring demand in line with potential supply, the Committee decided in both instances that the balance of risks going forward was weighted mainly in the direction of rising inflation pressures. In particular, it was becoming increasingly clear that the Committee would need to move more aggressively at a later meeting if imbalances continued to build and inflation and inflation expectations, which had remained relatively subdued until then, began to pick up.1

Some readings between the March and May meetings of the FOMC on labor costs and prices suggested a possible increase of inflation pressures. Moreover, aggregate demand had continued to grow at a fast clip, and markets for labor and other resources were showing signs of further tightening. Financial market conditions had firmed in response to these developments; the substantial rise in private borrowing rates between March and May had been influenced by the buildup in expectations of more policy tightening as market participants recognized the need for higher short-term interest rates. Given all these circumstances, the FOMC decided in May to raise the target for the overnight federal funds rate 50 basis points, to 6 1/2 percent. The Committee saw little risk in the more forceful action given the strong momentum of the economic expansion and widespread market expectations of such an action. Even after taking into account its latest action, however, the FOMC saw the strength in spending and pressures in labor markets as indicating that the balance of risks remained tilted toward rising inflation.

By the June FOMC meeting, the incoming data were suggesting that the expansion of aggregate demand might be moderating toward a more sustainable pace: Consumers had increased their outlays for goods modestly during the spring; home purchases and starts appeared to have softened; and readings on the labor market suggested that the pace of hiring might be cooling off. Moreover, much of the effects on demand of previous policy firings, including the 50 basis point tightening in May, had not yet been fully realized. Financial market participants interpreted signs of economic slowing as suggesting that the Federal Reserve probably would be able to hold inflation in check without much additional policy firming. However, whether aggregate demand had moved decisively onto a more moderate expansion track was not yet clear, and labor resource utilization remained unusually elevated. Thus, although the FOMC decided to defer any policy action in June, it indicated that the balance of risks was still on the side of rising inflation in the foreseeable future.2

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1. At its March and May meetings, the FOMC took a number of actions that were aimed at adjusting the implementation of monetary policy to actual and prospective reductions in the stock of Treasury debt securities. These actions are described in the discussion of U.S. financial markets.

2. At its June meeting, the FOMC did not establish ranges for growth of money and debt in 2000 and 2001. The legal requirement to establish and to announce such ranges had expired, and owing to uncertainties about the behavior of the velocities of debt and money, these ranges for many years have not provided useful benchmarks for the conduct of monetary policy. Nevertheless, the FOMC believes that the behavior of money and credit will continue to have value for gauging economic and financial conditions, and this report discusses recent developments in money and credit in some detail.
Economic Projections for 2000 and 2001

The members of the Board of Governors and the Federal Reserve Bank presidents expect the current economic expansion to continue through next year, but at a more moderate pace than the average over recent quarters. For 2000 as a whole, the central tendency of their forecasts for the rate of increase in real gross domestic product (GDP) is 4 percent to 4½ percent, measured as the change between the fourth quarter of 1999 and the fourth quarter of 2000. Over the four quarters of 2001, the central tendency forecasts of real GDP are in the 3½ percent to 3¾ percent range. With this pace of expansion, the civilian unemployment rate should remain near its recent level of 4 percent. Even with the moderation in the pace of economic activity, the Committee members and nonvoting Bank presidents expect that inflation may be higher in 2001 than in 1999, and the Committee will need to be alert to the possibility that financial conditions may need to be adjusted further to balance aggregate demand and potential supply and to keep inflation low.

Considerable uncertainties attend estimates of potential supply—both the rate of growth and the level of the economy’s ability to produce on a sustained non-inflationary basis. Business investment in new equipment and software has been exceptionally high, and given the rapid pace of technological change, firms will continue to exploit opportunities to implement more-efficient processes and to speed the flow of information across markets. In such an environment, a further pickup in productivity growth is a distinct possibility. However, a portion of the very rapid rise in measured productivity in recent quarters may be a result of the cyclical characteristics of this expansion rather than an indication of structural rates of increase consistent with holding the level of resource utilization unchanged. Current levels of labor resource utilization are already unusually high. To date, this has not led to escalating unit labor costs, but whether such a favorable performance in the labor market can be sustained is one of the important uncertainties in the outlook.

On the demand side, the adjustments in financial markets that have accompanied expected and actual tighter monetary conditions may be beginning to moderate the rise in domestic demand. As that process evolves, the substantial impetus that household spending has received in recent years from rapid gains in equity wealth should subside. The higher cost of business borrowing and more-restrictive credit supply conditions probably will not exert substantial restraint on investment decisions, particularly as long as the costs and potential productivity payoffs of new equipment and software remain attractive. The slowing in domestic spending will not be fully reflected in a more moderate expansion of domestic production. Some of the slowing will be absorbed in smaller increases in imports of goods and services, and given continued recovery in economic activity abroad, domestic firms are expected to continue seeing a boost to demand and to production from rising exports.

Regarding inflation, FOMC participants believe that the rise in consumer prices will be noticeably larger this year than in 1999 and that inflation will then drop back somewhat in 2001. The central tendency of their forecasts for the increase in the chain-type index for personal consumption expenditures is 2½ percent to 2¾ percent over the four quarters of 2000 and 2 percent to 2½ percent during 2001. Shaping the contour of this inflation forecast is the expectation that the direct and indirect effects of the boost to domestic inflation this year from the rise in the price of world crude oil will be partly reversed next year if, as futures markets suggest, crude oil prices retrace this year’s run-up by next year. Nonetheless, these forecasts show consumer price inflation in 2001 to have moved above the rates that prevailed over the 1997–98 period. Such a trend, were it not to show signs of quickly stabilizing or reversing, would
pose a considerable risk to the continuation of the extraordinary economic performance of recent years.

The economic forecasts of the FOMC are similar to those recently released by the Administration in its Mid-Session Review of the Budget. Compared with the forecasts available in February, the Administration raised its projections for the increase in real GDP in 2000 and 2001 to rates that lie at the low end of the current range of central tendencies of Federal Reserve policymakers. The Administration also expects that the unemployment rate will remain close to 4 percent. Like the FOMC, the Administration sees consumer price inflation rising this year and falling back in 2001. After accounting for the differences in the construction of the alternative measures of consumer prices, the Administration’s projections of increases in the consumer price index (CPI) of 3.2 percent in 2000 and 2.5 percent in 2001 are broadly consistent with the Committee’s expectations for the chain-type price index for personal consumption expenditures.

**ECONOMIC AND FINANCIAL DEVELOPMENTS IN 2000**

The expansion of U.S. economic activity maintained considerable momentum through the early months of 2000 despite the firming in credit markets that has occurred over the past year. Only recently has the pace of real activity shown signs of having moderated from the extremely rapid rate of increase that prevailed during the second half of 1999 and the first quarter of 2000. Real GDP increased at an annual rate of 5 1/2 percent in the first quarter of 2000. Private domestic final sales, which had accelerated in the second half of 1999, were particularly robust, rising at an annual rate of almost 10 percent in the first quarter. Underlying that surge in domestic spending were many of the same factors that had contributed to the considerable strength of outlays in the second half of 1999. The ongoing influence of substantial increases in real income and wealth continued to fuel consumer spending, and business investment, which continues to be undergirded by the desire to take advantage of new, cost-saving technologies, was further buoyed by an acceleration in sales and profits late last year. Export demand posted a solid gain during the first quarter while imports rose even more rapidly to meet booming domestic demand. The available data, on balance, point to another solid increase in real GDP in the second quarter, although they suggest that private household and business fixed investment spending likely slowed noticeably from the extraordinary first-quarter pace. Through June, the expansion remained brisk enough to keep labor utilization near the very high levels reached at the end of 1999 and to raise the factory utilization rate to close to its long-run average by early spring.

Inflation rates over the first half of 2000 were elevated by an additional increase in the price of imported crude oil, which led to sharp hikes in retail energy prices early in the year and again around midyear. Apart from energy, consumer price inflation so far this year has been somewhat higher than during 1999, and some of that acceleration may be attributable to the indirect effects of higher energy costs on the prices of core goods and services. Sustained strong gains in worker productivity have kept increases in unit labor costs minimal despite the persistence of a historically low rate of unemployment.

![Change in real GDP](chart)

**Note:** In this chart and in subsequent charts that show the components of real GDP, changes are measured to the final quarter of the period indicated, from the final quarter of the previous period.
Consumer spending was exceptionally vigorous during the first quarter of 2000. Real personal consumption expenditures rose at an annual rate of $7\frac{3}{4}$ percent, the sharpest increase since early 1983. At that time, the economy was rebounding from a deep recession during which households had deferred discretionary purchases. In contrast, the first-quarter surge in consumption came on the heels of two years of very robust spending during which real outlays increased at an annual rate of more than 5 percent, and the personal saving rate dropped sharply.

Outlays for durable goods, which rose at a very fast pace in 1998 and 1999, accelerated during the first quarter to an annual rate of more than 24 percent. Most notably, spending on motor vehicles, which had climbed to a new high in 1999, jumped even further in the first quarter of 2000 as unit sales of light motor vehicles soared to a record rate of 18.1 million units. In addition, households’ spending on computing equipment and software rebounded after the turn of the year; some consumers apparently had postponed their purchases of these goods in late 1999 before the century date change. Outlays for nondurable goods posted a solid increase of $5\frac{3}{4}$ percent in the first quarter, marked by a sharp upturn in spending on clothing and shoes. Spending for consumer services also picked up in the first quarter, rising at an annual rate of $5\frac{1}{2}$ percent. Spending was quite brisk for a number of non-energy consumer services, ranging from recreation and telephone use to brokerage fees. Also contributing to the acceleration was a rebound in outlays for energy services, which had declined in late 1999, when weather was unseasonably warm.

In recent months, the rise in consumer spending has moderated considerably from the phenomenal pace of the first quarter, with much of the slowdown in outlays for goods. At an annual rate of $17\frac{1}{4}$ million units in the second quarter, light motor vehicles sold at a rate well below their first-quarter pace. Nonetheless, that level of sales is still historically high, and with prices remaining damped and auto-makers continuing to use incentives, consumers’ assessments of the motor vehicle market continue to be positive. The information on retail sales for the April-to-June period indicate that consumer expenditures for other goods rose markedly slower in the second quarter than in the first quarter, at a pace well below the average rate of increase during the preceding two years. In contrast, personal consumption expenditures for consumer services continued to rise relatively briskly in April and May.

Real disposable personal income increased at an annual rate of about 3 percent between December and May—slightly below the 1999 pace of $3\frac{3}{4}$ percent. However, the impetus to spending from the rapid rise in household net worth was still considerable, labor markets remained tight, and confidence was still high. As a result, households continued to allow their spending to outpace their flow of current income, and the personal saving rate, as measured in the national income and product accounts, dropped further, averaging less than 1 percent during the first five months of the year.

After having boosted the ratio of household net worth to disposable income to a record high in the first quarter, stock prices have fallen back, suggesting less impetus to consumer spending going forward. In addition, smaller employment gains and the pickup in

### Wealth and saving

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<td>Q4</td>
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<td>Q5</td>
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**Note.** The wealth-to-income ratio is the ratio of net worth of households to disposable personal income.
energy prices have moderated the rise in real income of late. Although these developments left some imprint on consumer attitudes in June, households remained relatively upbeat about their prospective financial situation, according to the results of the University of Michigan Survey Research Center (SRC) survey. However, they became a bit less positive about the outlook for business conditions and saw a somewhat greater likelihood of a rise in unemployment over the coming year.

**Residential Investment**

Housing activity stayed at a high level during the first half of this year. Homebuilders began the year with a considerable backlog of projects that had developed as the exceptionally strong demand of the previous year strained capacity. As a result, they maintained starts of new single-family homes at an annual rate of 1.33 million units, on average, through April—matching 1999’s robust pace. Households’ demand for single-family homes was supported early in the year by ongoing gains in jobs and income and the earlier run-up in wealth; those forces apparently were sufficient to offset the effects that higher mortgage interest rates had on the affordability of new homes. Sales of new homes were particularly robust, setting a new record by March; but sales of existing units slipped below their 1999 high. As a result of the continued strength in sales, the homeownership rate reached a new high in the first quarter.

By the spring, higher mortgage interest rates were leaving a clearer mark on the attitudes of both consumers and builders. The Michigan SRC survey reported that households’ assessments of homebuying conditions dropped between April and June to the lowest level in more than nine years. Survey respondents noted that, besides higher financing costs, higher prices of homes were becoming a factor in their less positive assessment of market conditions. Purchases of existing homes were little changed, on balance, in April and May from the first-quarter average; however, because these sales are recorded at the time of closing, they tend to be a lagging indicator of demand. Sales of new homes—a more current indicator—fell back in April and May, and homebuilders reported that sales dropped further in June. Perhaps a sign that softer demand has begun to affect construction, starts of new single-family homes slipped to a rate of 1¼ million units in May. That level of new homebuilding, although noticeably slower than the robust pace that characterized the fall and winter period, is only a bit below the elevated level that prevailed throughout much of 1998, when single-family starts reached their highest level in twenty years. Starts of multifamily housing units, which also had stepped up sharply in the first quarter of the year, to an annual rate of 390,000 units, settled back to a 340,000 unit rate in April and May.

**Household Finance**

Fueled by robust spending, especially early in the year, the expansion of household debt remained brisk during the first half of 2000, although below the very strong 1999 growth rate. Apparently, a favorable outlook for income and employment, along with rising wealth, made households feel confident enough to continue to spend and take on debt. Despite rising mortgage and consumer loan rates, household debt increased at an annual rate of nearly 8 percent in the first quarter, and preliminary data point to a similar increase in the second quarter.

Mortgage debt expanded at an annual rate of 7 percent in the first quarter, boosted by the high level of housing activity. Household debt not secured by real estate—including credit card balances and auto loans—posted an impressive 10 percent gain in the first quarter to help finance a large expansion in outlays for consumer durables, especially motor vehicles. The moderation in the growth of household debt this year has been driven primarily by its mortgage component: Preliminary data for the second quarter suggest that, although consumer credit likely decelerated from the first quarter, it still grew faster than in 1999.

Debt in margin accounts, which is largely a household liability and is not included in reported measures of credit market debt, has declined, on net, in recent
months, following a surge from late in the third quarter of 1999 through the end of March 2000. There has been no evidence that recent downdrafts in share prices this year caused serious repayment problems at the aggregate level that might pose broader systemic concerns.

The combination of rapid debt growth and rising interest rates has pushed the household debt-service burden to levels not reached since the late 1980s. Nonetheless, with household income and net worth both having grown rapidly, and employment prospects favorable, very few signs of worsening credit problems in the household sector have emerged, and commercial banks have reported in recent Federal Reserve surveys that they remain favorably disposed to make consumer installment and mortgage loans. Indeed, financial indicators of the household sector have remained mostly positive: The rate of personal bankruptcy filings fell in the first quarter to its lowest level since 1996; delinquency rates on home mortgages and auto loans remained low; and the delinquency rate on credit cards edged down further, although it remained in the higher range that has prevailed since the mid-1990s. However, delinquency rates may be held down, to some extent, by the surge in new loan originations in recent quarters because newly originated loans are less likely to be delinquent than seasoned ones.

The Business Sector

Fixed Investment

The boom in capital spending extended into the first half of 2000 with few indications that businesses’ desire to take advantage of more-efficient technologies is diminishing. Real business fixed investment surged at an annual rate of almost 24 percent in the first quarter of the year, rebounding sharply from its lull at the end of 1999, when firms apparently postponed some projects because of the century date change. In recent months, the trends in new orders and shipments of nondefense capital goods suggest that demand has remained solid.

Sustained high rates of investment spending have been a key feature shaping the current economic expansion. Business spending on new equipment and software has been propelled importantly by ongoing advances in computer and information technologies that can be applied to a widening range of business processes. The ability of firms to take advantage of these emerging developments has been supported by the strength of domestic demand and by generally favorable conditions in credit and equity markets. In addition, because these high-technology goods can be produced increasingly efficiently, their prices have continued to decline steeply, providing additional incentive for rapid investment. The result has been a significant rise in the stock of capital in use by businesses and an acceleration in the flow of services from that capital as more-advanced vintages of equipment replace older ones. The payoff from the prolonged period during which firms have upgraded their plant and equipment has increasingly shown through in the economy’s improved productivity performance.

Real outlays for business equipment and software shot up at an annual rate of nearly 25 percent in the first quarter of this year. That jump followed a modest increase in the final quarter of 1999 and put spending for business equipment and software back on the double-digit uptrend that has prevailed.
throughout the current economic recovery. Concerns about potential problems with the century date change had the most noticeable effect on the patterns of spending for computers and peripherals and for communications equipment in the fourth and first quarters; expenditures for software were also affected, although less so. For these categories of goods overall, the impressive resurgence in business purchases early this year left little doubt that the underlying strength in demand for high-tech capital goods had been only temporarily interrupted by the century date change. Indeed, nominal shipments of office and computing equipment and of communication devices registered sizable increases over the April–May period.

In the first quarter, business spending on computers and peripheral equipment was up almost 40 percent from a year earlier—a pace in line with the trend of the current expansion. Outlays for communications equipment, however, accelerated; the first-quarter surge brought the year-over-year increase in spending to 35 percent, twice the pace that prevailed a year earlier. Expanding Internet usage has been driving the need for new network architectures. In addition, cable companies have been investing heavily in preparation for their planned entry into the markets for residential and commercial telephony and broadband Internet services.

Demand for business equipment outside of the high-tech area was also strong at the beginning of the year. In the first quarter, outlays for industrial equipment rose at a brisk pace for a third consecutive quarter as the recovery of the manufacturing sector from the effects of the Asian crisis gained momentum. In addition, investment in farm and construction machinery, which had fallen steadily during most of 1999, turned up, and shipments of civilian aircraft to domestic customers increased. More recent data show a further rise in the backlog of unfilled orders placed with domestic firms for equipment and machinery (other than high-tech items and transportation equipment), suggesting that demand for these items has been well maintained. However, business purchases of motor vehicles are likely to drop back in the second quarter from the very high level recorded at the beginning of the year. In particular, demand for heavy trucks appears to have been adversely affected by higher costs of fuel and shortages of drivers.

Real investment in private nonresidential structures jumped at an annual rate of more than 20 percent in the first quarter of the year after having declined in 1999. Both last year’s weakness and this year’s sudden and widespread revival are difficult to explain fully. Nonetheless, the higher levels of spending on office buildings, other commercial facilities, and industrial buildings recorded early this year would seem to accord well with the overall strength in aggregate demand. However, the fundamentals in this sector of the economy are mixed. Available information suggests that property values for offices, retail space, and warehouses have been rising more slowly than they were several years ago. However, office vacancy rates have come down, which suggests that, at least at an aggregate level, the office sector is not overbuilt. The vacancy rate for industrial buildings has also fallen, but in only a few industries, such as semiconductors and other electronic components, are capacity pressures sufficiently intense to induce significant expansion of production facilities.

**Inventory Investment**

The ratio of inventories to sales in many nonfarm industries moved lower early this year. Those firms that had accumulated some additional stocks toward the end of 1999 as a precaution against disruptions related to the century date change seemed to have little difficulty working off those inventories after the smooth transition to the new year. Moreover, the first-quarter surge in final demand may have, to some extent, exceeded businesses’ expectations. In current-cost terms, non-auto manufacturing and trade establishments built inventories in April and May at a somewhat faster rate than in the first quarter but still roughly in line with the rise in their sales. As a result, the ratio of inventories to sales, at current cost, for these businesses was roughly unchanged from the first quarter. Overall, the ongoing downtrend in the ratios of inventories to sales during the past several years suggests that businesses increasingly are taking

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**Change in real nonfarm business inventories**

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advantage of new technologies and software to implement better inventory management.

The swing in inventory investment in the motor vehicle industry has been more pronounced recently. Dealer stocks of new cars and light trucks were drawn down during the first quarter as sales climbed to record levels. Accordingly, auto and truck makers kept assemblies at a high level through June in order to maintain ready supplies of popular models. Even though demand appears to have softened and inventories of a few models have backed up, scheduled assemblies for the third quarter are above the elevated level of the first half.

Business Finance

The economic profits of nonfinancial U.S. corporations posted another solid increase in the first quarter. The profits that nonfinancial corporations earned on their domestic operations were 10 percent above the level of a year earlier; the rise lifted the share of profits in this sector’s nominal output close to its 1997 peak. Nonetheless, with investment expanding rapidly, businesses’ external financing requirements, measured as the difference between capital expenditures and internally generated funds, stayed at a high level in the first half of this year. Businesses’ credit demands were also supported by cash-financed merger and acquisition activity. Total debt of nonfinancial businesses increased at a 10 1/2 percent clip in the first quarter, close to the brisk pace of 1999, and available information suggests that borrowing remained strong into the second quarter.

On balance, businesses have altered the composition of their funding this year to rely more on shorter-term sources of credit and less on the bond market, although the funding mix has fluctuated widely in response to changing market conditions. After the passing of year-end, corporate borrowers returned to the bond market in volume in February and March, but subsequent volatility in the capital market in April and May prompted a pullback. In addition, corporate bond investors have been less receptive to smaller, less liquid offerings, as has been true for some time.

In the investment-grade market, bond issuers have responded to investors’ concerns about the interest rate and credit outlook by shortening the maturities of their offerings and by issuing more floating-rate securities. In the below-investment-grade market, many of the borrowers who did tap the bond market in

Before-tax profits of nonfinancial corporations as a share of GDP

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<th>Year</th>
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<td>1998</td>
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<td>2000</td>
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Note. Profits from domestic operations, with inventory valuation and capital consumption adjustments, divided by gross domestic product of nonfinancial corporate sector.

Gross corporate bond issuance

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<td>1999</td>
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Note. Excludes unrated issues and issues sold abroad.
February and March did so by issuing convertible bonds and other equity-related debt instruments. Subsequently, amid increased equity market volatility and growing investor uncertainty about the outlook for prospective borrowers, credit spreads in the corporate bond market widened, and issuance in the below-investment-grade market dropped sharply in April and May. Conditions in the corporate bond market calmed in late May and June, and issuance recovered to close to its first-quarter pace.

As the bond market became less hospitable in the spring, many businesses evidently turned to banks and to the commercial paper market for financing. Partly as a result, commercial and industrial loans at banks have expanded briskly, even as a larger percentage of banks have reported in Federal Reserve surveys that they have been tightening standards and terms on such loans.

Underscoring lenders’ concerns about the creditworthiness of borrowers, the ratio of liabilities of failed businesses to total liabilities has increased further so far this year, and the default rate on outstanding junk bonds has risen further from the relatively elevated level reached in 1999. Through midyear, Moody’s Investors Service has downgraded, on net, more debt in the nonfinancial business sector than it has upgraded, although it has placed more debt on watch for future upgrades than downgrades.

Commercial mortgage borrowing has also expanded at a robust pace over the first half of 2000, as investment in office and other commercial building strengthened. Extending last year’s trend, borrowers have tapped banks and life insurance companies as the financing sources of choice. Banks, in particular, have reported stronger demand for commercial real estate loans this year even as they have tightened standards a bit for approving such loans. In the market for commercial mortgage-backed securities, yields have edged higher since the beginning of the year.

### The Government Sector

#### Federal Government

The incoming information regarding the federal budget suggests that the surplus in the current fiscal year will surpass last year’s by a considerable amount. Over the first eight months of fiscal year 2000—the
period from October to May—the unified budget recorded a surplus of about $120 billion, compared with $41 billion during the comparable period of fiscal 1999. The Office of Management and Budget and the Congressional Budget Office are now forecasting that, when the fiscal year closes, the unified surplus will be around $225 billion to $230 billion, $100 billion higher than in the preceding year. That outcome would likely place the surplus at more than 2¼ percent of GDP, which would exceed the most recent high of 1.9 percent, which occurred in 1951.

The swing in the federal budget from deficit to surplus has been an important factor in maintaining national saving. The rise in federal saving as a percentage of gross national product from −3.5 percent in 1992 to 3.1 percent in the first quarter of this year has been sufficient to offset the drop in personal saving that occurred over the same period. As a result, gross saving by households, businesses, and governments has stayed above 18 percent of GNP since 1997, compared with 16½ percent over the preceding seven years. The deeper pool of national saving, along with the continued willingness of foreign investors to finance our current account deficit, remains an important factor in containing increases in the cost of capital and sustaining the rapid expansion of domestic investment. With longer-run projections showing a rising federal government surplus over the next decade, this source of national saving could continue to expand.

The recent good news on the federal budget has been primarily on the receipts side of the ledger. Nonwithheld tax receipts were very robust this spring. Both final payments on personal income tax liabilities for 1999 and final corporate tax payments for 1999 were up substantially. So far this year, the withheld tax and social insurance contributions on this year’s earnings of individuals have also been strong. As a result, federal receipts during the first eight months of the fiscal year were almost 12 percent higher than they were during the year-earlier period.

While receipts have accelerated, federal expenditures have been rising only a little faster than during fiscal 1999 and continue to decline as a share of nominal GDP. Nominal outlays for the first eight months of the current fiscal year were 5 1/4 percent above the year-earlier period. Increases in discretionary spending have picked up a bit so far this year. In particular, defense spending has been running higher in the wake of the increase in budget authority enacted last year. The Congress has also boosted agricultural subsidies in response to the weakness in farm income. While nondiscretionary spending continues to be held down by declines in net interest payments, categories such as Medicaid and other health programs have been rising more rapidly of late.

As measured by the national income and product accounts, real federal expenditures for consumption and gross investment dropped sharply early this year after having surged in the fourth quarter of 1999. These wide quarter-to-quarter swings in federal spending appear to have occurred because the Department of Defense speeded up its payments to vendors before the century date change; actual deliveries of defense goods and services were likely smoother. On average, real defense spending in the fourth and first quarters was up moderately from the average level in fiscal 1999. Real nondefense outlays continued to rise slowly.
With current budget surpluses coming in above expectations and large surpluses projected to continue for the foreseeable future, the federal government has taken additional steps aimed at preserving a high level of liquidity in the market for its securities. Expanding on efforts to concentrate its declining debt issuance in fewer highly liquid securities, the Treasury announced in February its intention to issue only two new five- and ten-year notes and only one new thirty-year bond each year. The auctions of five- and ten-year notes will remain quarterly, alternating between new issues and smaller reopenings, and the bond auctions will be semiannual, also alternating between new and smaller reopened offerings. The Treasury also announced that it was reducing the frequency of its one-year bill auctions from monthly to quarterly and cutting the size of the monthly two-year note auctions. In addition, the Treasury eliminated the April auction of the thirty-year inflation-indexed bond and indicated that the size of the ten-year inflation-indexed note offerings would be modestly reduced. Meanwhile, anticipation of even larger surpluses in the wake of the surprising strength of incoming tax receipts so far in 2000 led the Treasury to announce, in May, that it was again cutting the size of the monthly two-year note auctions. The Treasury also noted that it is considering additional changes in its auction schedule, including the possible elimination of the one-year bill auctions and a reduction in the frequency of its two-year note auctions.

Early in the year, the Treasury unveiled the details of its previously announced reverse-auction, or debt buyback, program, whereby it intends to retire seasoned, less liquid, debt securities with surplus cash, enabling it to issue more “on-the-run” securities. The Treasury noted that it would buy back as much as $30 billion this year. The first operation took place in March, and in May the Treasury announced a schedule of two operations per month through the end of July of this year. Through midyear, the Treasury has conducted eight buyback operations, redeeming a total of $15 billion. Because an important goal of the buyback program is to help forestall further increases in the average maturity of the Treasury’s publicly held debt, the entire amount redeemed so far has corresponded to securities with remaining maturities at the long end of the yield curve (at least fifteen years).

State and Local Governments

In the state and local sector, real consumption and investment expenditures registered another strong quarter at the beginning of this year. In part, the unseasonably good weather appears to have accommodated more construction spending than usually occurs over the winter. However, some of the recent rise is an extension of the step-up in spending that emerged last year, when real outlays rose 5 percent after having averaged around 3 percent for the preceding three years. Higher federal grants for highway construction have contributed to the pickup in spending. In addition, many of these jurisdictions have experienced solid improvements in their fiscal conditions, which may be allowing them to undertake new spending initiatives.

The improving fiscal outlook for state and local governments has affected both the issuance and the quality of state and local debt. Borrowing by states and municipalities expanded sluggishly in the first half of this year. In addition to the favorable budgetary picture, rising interest rates have reduced the demand for new capital financing and substantially limited refunding issuance. Credit upgrades have outnumbered downgrades by a substantial margin in the state and local sector.

The External Sector

Trade and Current Account

The deficits in U.S. external balances have continued to get even larger this year. The current account deficit reached an annual rate of $409 billion in the first quarter of 2000, or 4¼ percent of GDP, com-
pared with $372 billion and 4 percent in the second half of 1999. Net payments of investment income were a bit less in the first quarter than in the second half of last year owing to a sizable increase in income receipts from direct investment abroad. Most of the expansion in the current account deficit occurred in trade in goods and services. In the first quarter, the deficit in trade in goods and services widened to an annual rate of $345 billion, a considerable expansion from the deficit of $298 billion recorded in the second half of 1999. Trade data for April suggest that the deficit may have increased further in the second quarter.

U.S. exports of real goods and services rose at an annual rate of 6¼ percent in the first quarter, following a strong increase in exports in the second half of last year. The pickup in economic activity abroad that began in 1999 continued to support export demand and partly offset negative effects on price competitiveness of U.S. products from the dollar’s past appreciati. By market destination, U.S. exports to Canada, Mexico, and Europe increased the most. By product group, export expansion was concentrated in capital equipment, industrial supplies, and consumer goods. Preliminary data for April suggest that growth of real exports remained strong.

The quantity of imported goods and services continued to expand rapidly in the first quarter. The increase in imports, at an annual rate of 11¾ percent, was the same in the first quarter as in the second half of 1999 and reflected both the continuing strength of U.S. domestic demand and the effects of past dollar appreciation on price competitiveness. Imports of consumer goods, automotive products, semiconductors, telecommunications equipment, and other machinery were particularly robust. Data for April suggest that the second quarter got off to a strong start. The price of non-oil goods imports rose at an annual rate of 1¾ percent in the first quarter, the second consecutive quarter of sizable price increases following four years of price declines; non-oil import prices in the second quarter posted only moderate increases.

A number of developments affecting world oil demand and supply led to a further step-up in the spot price of West Texas intermediate (WTI) crude this year, along with considerable volatility. In the wake of the plunge of world oil prices during 1998, the Organization of Petroleum Exporting Countries (OPEC) agreed in early 1999 to production restraints that, by late in the year, restored prices to their 1997 level of about $20 per barrel. Subsequently, continued recovery of world demand, combined with some

Prices for oil and other commodities

Note. The oil price is the spot price of West Texas intermediate crude oil. The price for non-oil commodities is a weighted average of thirty-nine non-fuel primary-commodity prices from the International Monetary Fund. The data are monthly. The last observation for non-oil commodities is May; for oil, July average through July 12, 2000.
supply disruptions, caused the WTI spot price to spike above $34 per barrel during March of this year, the highest level since the Gulf War more than nine years earlier. Oil prices dropped back temporarily in April, but in May and June the price of crude oil moved back up again, as demand was boosted further by strong global economic activity and by rebuilding of oil stocks. In late June, despite an announcement by OPEC that it would boost production, the WTI spot price reached a new high of almost $35 per barrel, but by early July the price had settled back to about $30 per barrel.

Financial Account

Capital flows in the first quarter of 2000 continued to reflect the relatively strong performance of the U.S. economy and transactions associated with global corporate mergers. Foreign private purchases of U.S. securities remained brisk—well above the record pace set last year. In addition, the mix of U.S. securities purchased by foreigners in the first quarter showed a continuation of last year’s trend toward smaller holdings of U.S. Treasury securities and larger holdings of U.S. agency and corporate securities. Private-sector foreigners sold more than $9 billion in Treasury securities in the first quarter while purchasing more than $26 billion in agency bonds. Despite a mixed performance of U.S. stock prices, foreign portfolio purchases of U.S. equities exceeded $60 billion in the first quarter, more than half of the record annual total set last year. U.S. purchases of foreign securities remained strong in the first quarter of 2000.

Foreign direct investment flows into the United States were robust in the first quarter of this year as well. As in the past two years, direct investment inflows have been elevated by the extraordinary level of cross-border merger and acquisition activity. Portfolio flows have also been affected by this activity. For example, in recent years, many of the largest acquisitions have been financed by swaps of equity in the foreign acquiring firm for equity in the U.S. firm being acquired. The Bureau of Economic Analysis estimates that U.S. residents acquired $123 billion of foreign equities in this way last year. Separate data on market transactions indicate that U.S. residents made net purchases of Japanese equities but sold European equities. The latter sales likely reflect a rebalancing of portfolios after stock swaps. U.S. direct investment in foreign economies has also remained strong, exceeding $30 billion in the first quarter of 2000. Again, a significant portion of this investment was associated with cross-border merger activity.

Capital inflows from foreign official sources in the first quarter of this year were sizable—$20 billion, compared with $43 billion for all of 1999. As was the case last year, the increase in foreign official reserves in the United States in the first quarter was concentrated in a relatively few countries. Partial data for the second quarter of 2000 show a small official outflow.

The Labor Market

Employment and Labor Supply

The labor market in early 2000 continued to be characterized by substantial job creation, a historically low level of unemployment, and sizable advances in productivity that have held labor costs in check. The rise in overall nonfarm payroll employment, which totaled more than 1½ million over the first half of the year, was swelled by the federal government’s hiring of intermittent workers to conduct the decennial census. Apart from that temporary boost, which accounted for about one-fourth of the net gain in jobs between December and June, nonfarm payroll employment increased an average of 190,000 per month, somewhat below the robust pace of the preceding four years.

Monthly changes in private payrolls were uneven at times during the first half the year, but, on balance, the pace of hiring, while still solid, appears to have moderated between the first and second quarters. In some industries, such as construction, the pattern appears to have been exaggerated by unseasonably high levels of activity during the winter that acceler-
ated hiring that typically would have occurred in the spring. After a robust first quarter, construction employment declined between April and June; on average, hiring in this industry over the first half of the year was only a bit slower than the rapid pace that prevailed from 1996 to 1999. However, employment gains in the services industry, particularly in business and health services, were smaller in the second quarter than in the first while job cutbacks occurred in finance, insurance, and real estate after four and one-half years of steady expansion. Nonetheless, strong domestic demand for consumer durables and business equipment, along with support for exports from the pickup in economic activity abroad, led to a leveling off in manufacturing employment over the first half of 2000 after almost two years of decline. And, with consumer spending brisk, employment at retail establishments, although fluctuating widely from month to month, remained generally on a solid uptrend over the first half.

The supply of labor increased slowly in recent years relative to the demand for workers. The labor force participation rate was unchanged, on average, at 67.1 percent from 1997 to 1999; that level was just 0.6 percentage point higher than at the beginning of the expansion in 1990. The stability of the participation rate over the 1997–99 period was somewhat surprising because the incentives to enter the workforce seemed powerful: Hiring was strong, real wages were rising more rapidly than earlier in the expansion, and individuals perceived that jobs were plentiful. However, the robust demand for new workers instead led to a substantial decline in unemployment, and the civilian jobless rate fell from 5¼ percent at the beginning of 1997 to just over 4 percent at the end of 1999.

This year, the labor force participation rate ratcheted up sharply over the first four months of the year before dropping back in recent months as employment slowed. The spike in participation early this year may have been a response to ready availability of job opportunities, but Census hiring may also have temporarily attracted some individuals into the workforce. On net, growth of labor demand and supply have been more balanced so far this year, and the unemployment rate has held near its thirty-year low of 4 percent. At midyear, very few signs of a significant easing in labor market pressures have surfaced. Employers responding to various private surveys of business conditions report that they have been unable to hire as many workers as they would like because skilled workers are in short supply and competition from other firms is keen. Those concerns about hiring have persisted even as new claims for unemployment insurance have drifted up from very low levels in the past several months, suggesting that some employers may be making workforce adjustments in response to slower economic activity.

**Labor Costs and Productivity**

Reports by businesses that workers are in short supply and that they are under pressure to increase compensation to be competitive in hiring and retaining employees became more intense early this year. However, the available statistical indicators are providing somewhat mixed and inconsistent signals of whether a broad acceleration in wage and benefit costs is emerging. Hourly compensation, as measured by the employment cost index (ECI) for private nonfarm businesses, increased sharply during the first quarter to a level more than 4½ percent above a year earlier. Before that jump, year-over-year changes in the ECI compensation series had remained close to 3½ percent for three years. However, an alternative measure of compensation per hour, calculated as part of the productivity and cost series, which has shown higher rates of increase than the ECI in recent years, slowed in the first quarter of this year. For the nonfarm business sector, compensation per hour in the first quarter was 4¼ percent higher than a year earlier; in the first quarter of 1999, the four-quarter change was 5¼ percent.3

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3. The figures for compensation per hour in the nonfinancial corporate sector are similar: an increase of about 4 percent for the year ending in the first quarter of this year compared with almost 5½ percent for the year ending in the first quarter of 1999.
Part of the acceleration in the ECI in the first quarter was the result of a sharp step-up in the wage and salary component of compensation change. While higher rates of straight-time pay were widespread across industry and occupational groups, the most striking increase occurred in the finance, insurance, and real estate industry where the year-over-year change in wages and salaries jumped from about 4 percent for the period ending in December 1999 to almost 8 1/2 percent for the period ending in March of this year. The sudden spike in wages in that sector could be related to commissions that are tied directly to activity levels in the industry and, thus, would not represent a lasting influence on wage inflation. For other industries, wages and salaries accelerated moderately, which might appear plausible in light of reports that employers are experiencing shortages of some types of skilled workers. However, the uptrend in wage inflation that surfaced in the first-quarter ECI has not been so readily apparent in the monthly data on average hourly earnings of production or nonsupervisory workers, which are available through June. Although average hourly earnings increased at an annual rate of 4 percent between December and June, the June level of hourly wages stood 3 1/4 percent higher than a year earlier, the same as the increase between June 1998 and June 1999.

While employers in many industries appear to have kept wage increases moderate, they may be facing greater pressures from rising costs of employee benefits. The ECI measure of benefit costs rose close to 3 1/2 percent during 1999, a percentage point faster than during 1998; these costs accelerated sharply further in the first quarter of this year to a level 5 1/2 percent above a year earlier. Much of last year’s pickup in benefit costs was associated with faster rates of increase in employer contributions to health insurance, and the first-quarter ECI figures indicated another step-up in this component of costs. Private survey information and available measures of prices in the health care industry suggest that the upturn in the employer costs of health care benefits is associated with both higher costs of health care and employers’ willingness to offer attractive benefit packages in order to compete for workers in a tight labor market. Indeed, employers have been reporting that they are enhancing compensation packages with a variety of benefits in order to hire and retain employees. Some of these offerings are included in the ECI; for instance, the ECI report for the first quarter noted a pickup in supplemental forms of pay, such as overtime and nonproduction bonuses, and in paid leave. However, other benefits cited by employers, including stock options, hiring and retention bonuses, and discounts on store purchases, are not measured in the ECI.4 The productivity and costs measure of hourly compensation may capture more of the non-wage costs that employers incur, but even for that series, the best estimates of employer compensation costs are available only after business reports for unemployment insurance and tax records are tabulated and folded into the annual revisions of the national income and product accounts.

Because businesses have realized sizable gains in worker productivity, compensation increases have
not generated significant pressure on overall costs of production. Output per hour in the nonfarm business sector posted another solid advance in the first quarter, rising to a level 3 3⁄4 percent above a year earlier and offsetting much of the rise in hourly compensation over the period. For nonfinancial corporations, the subset of the nonfarm business sector that excludes types of businesses for which output is measured less directly, the 4 percent year-over-year increase in productivity held unit labor costs unchanged.

With the further robust increases in labor productivity recently, the average rise in output per hour in the nonfarm business sector since early 1997 has stepped up further to 3 percent from the 2 percent pace of the 1995–97 period. What has been particularly impressive is that the acceleration of productivity in the past several years has exceeded the pickup in output growth over the period and, thus, does not appear to be simply a cyclical response to more rapidly rising demand. Rather, businesses are likely realizing substantial and lasting payoffs from their investment in equipment and processes that embody the technological advances of the past several years.

**Prices**

Rates of increase in the broader measures of prices moved up further in early 2000. After having accelerated from 1 percent during 1998 to 1 1⁄2 percent last year, the chain-type price index for GDP—prices of goods and services that are produced domestically—increased at an annual rate of 3 percent in the first quarter of this year. The upswing in inflation for goods and services purchased by consumers, businesses, and governments has been somewhat greater: The chain-type price index for gross domestic purchases rose at an annual rate of 3 1⁄2 percent in the first quarter after having increased about 2 percent during 1999 and just 3⁄4 percent during 1998.

The pass-through of the steep rise in the cost of imported crude oil that began in early 1999 and continued into the first half of this year has been the principal factor in the acceleration of the prices of goods and services purchased. The effect of higher energy costs on domestic prices has been most apparent in indexes of prices paid by consumers. After having risen 12 percent during 1999, the chain-type price index for energy items in the price index for personal consumption expenditures (PCE) jumped at an annual rate of 35 percent in the first quarter of 2000; the first-quarter rise in the energy component of the CPI was similar.

Swings in energy prices continued to have a noticeable effect on overall measures of consumer prices.
in the second quarter. After world oil prices dropped back temporarily in the spring, the domestic price of motor fuel dropped in April and May, and consumer prices for energy, as measured by the CPI, retraced some of the first-quarter increase. As a result, the overall CPI was little changed over the two months. However, with prices of crude oil having climbed again, the bounceback in prices of motor fuel led to a sharp increase in the CPI for energy in June. In addition, with strong demand pressing against available supplies, consumer prices of natural gas continued to rise rapidly in the second quarter. In contrast to the steep rise in energy prices, the CPI for food has risen slightly less than other non-energy prices so far this year.

Higher petroleum costs also fed through into higher producer costs for a number of intermediate materials. Rising prices for inputs such as chemicals and paints contributed importantly to the acceleration in the producer price index for intermediate materials excluding food and energy from about 1¼ percent during 1999 to an annual rate of 3½ percent over the first half of this year. Upward pressure on input prices was also apparent for construction materials, although these have eased more recently. Prices of imported industrial supplies also picked up early this year owing to higher costs of petroleum inputs.

Core consumer price inflation has also been running a little higher so far this year. The chain-type price index for personal consumption expenditures other than food and energy increased at an annual rate of 2¼ percent in the first quarter compared with an increase of 1½ percent during 1999. Based on the monthly estimates of PCE prices in April and May, core PCE price inflation looks to have been just a little below its first-quarter rate. After having risen just over 2 percent between the fourth quarter of 1998 and the fourth quarter of 1999, the CPI excluding food and energy increased at an annual rate of 2¼ percent in the first quarter of 2000 and at a 2½ percent rate in the second quarter. In part, the rise in core inflation likely reflects the indirect effects of higher energy costs on the prices of a variety of goods and services, although these effects are difficult to quantify with precision. Moreover, prices of non-oil imported goods, which had been declining from late 1995 through the middle of last year, continued to trend up early this year.

The pickup in core inflation, as measured by the CPI, has occurred for both consumer goods and services. Although price increases for nondurable goods excluding food and energy moderated, prices of consumer durables, which had fallen between 1996 and 1999, were little changed, on balance, over the first half of this year. The CPI continued to register steep declines for household electronic goods and computers, but prices of other types of consumer durables have increased, on net, so far this year. The rate of increase in the prices of non-energy consumer services has also been somewhat faster; the CPI for these items increased at an annual rate of 3½ percent during the first two quarters of this year compared with a rise of 2¼ percent in 1999. Larger increases in the CPI measures of rent and of medical services have contributed importantly to this acceleration. Another factor has been a steeper rise in airfares, which have been boosted in part to cover the higher cost of fuel.

In addition to slightly higher core consumer price inflation, the national income and product accounts measure of prices for private fixed investment goods shows that the downtrend in prices for business fixed investment items has been interrupted. Most notably, declines in the prices of computing equipment became much smaller in the final quarter of last year and the first quarter of this year. A series of disruptions to the supply of component inputs to computing equipment has combined with exceptionally strong demand to cut the rate of price decline for computers, as measured by the chain-type price index, to an annual rate of 12 percent late last year and early this year—half the pace of the preceding three and one-half years. At the same time, prices of other types of equipment and software continued to be little changed, and the chain-type index for nonresidential structures investment remained on a moderate uptrend. In contrast, the further upward pressure on construction costs at the beginning of the year continued to push the price index for residential

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Note: Consumer price index for all urban consumers. Values for 2000:Q1 and Q2 are percent changes from the previous quarter at an annual rate.
construction higher; after having accelerated from 3 percent to $3\frac{1}{2}$ percent between 1998 and 1999, this index increased at an annual rate of $4\frac{1}{4}$ percent in the first quarter of 2000.

Although actual inflation moved a bit higher over the first half of 2000, inflation expectations have been little changed. Households responding to the Michigan SRC survey in June were sensitive to the adverse effect of higher energy prices on their real income but seemed to believe that the inflationary shock would be short-lived. The median of their expected change in CPI inflation over the coming twelve months was 2.9 percent. Moreover, they remained optimistic that inflation would remain at about that rate over the longer run, reporting a 2.8 percent median of expected inflation during the next five to ten years. In both instances, their expectations are essentially the same as at the end of 1999, although the year-ahead expectations are above the lower levels that had prevailed in 1997 and early 1998.

**U.S. Financial Markets**

Conditions in markets for private credit firmed on balance since the end of 1999. Against a backdrop of continued economic vitality in the United States and a tighter monetary policy stance, private borrowing rates are higher, on net, particularly those charged to riskier borrowers. In addition, banks have tightened terms and standards on most types of loans. Higher real interest rates—as measured based on inflation expectations derived from surveys and from yields on the Treasury’s inflation-indexed securities—account for the bulk of the increase in interest rates this year, with short-term real rates having increased the most. Rising market interest rates and heightened uncertainties about corporate prospects, especially with regard to the high-tech sector, have occasionally dampened flows in the corporate bond market and have weighed on the equity market, which has, at times, experienced considerable volatility. Through mid-July, the broad-based Wilshire 5000 equity index was up approximately 3 percent for the year.

**Interest Rates**

As the year began, with worries related to the century date change out of the way, participants in the fixed-income market turned their attention to the signs of continued strength in domestic labor and product markets, and they quickly priced in the possibility of a more aggressive tightening of monetary policy. Both private and Treasury yields rose considerably. In the latter part of January, however, Treasury yields plummeted, especially those on longer-dated securities, as the announced details of the Treasury’s debt buyback program and upwardly revised forecasts of federal budget surpluses led investors to focus increasingly on the prospects for a diminishing supply of Treasury securities. A rise in both nominal and inflation-indexed Treasury yields in response to strong economic data and tighter monetary policy in April and May was partly offset by supply factors and by occasional safe haven flows from the volatile equity market. Since late May, market interest rates have declined as market participants have interpreted the incoming economic data as evidence that mone-
Tight monetary policy might not have to be tightened as much as had been previously expected. On balance, while Treasury bill rates and yields on shorter-dated notes have risen 15 to 80 basis points since the beginning of the year, intermediate- and long-term Treasury yields have declined 5 to 55 basis points. In the corporate debt market, by contrast, bond yields have risen 10 to 70 basis points so far this year.

Forecasts of steep declines in the supply of longer-dated Treasuries have combined with tighter monetary policy conditions to produce an inverted Treasury yield curve, starting with the two-year maturity. In contrast, yield curves elsewhere in the U.S. fixed-income market generally have not inverted. In the interest rate swap market, for instance, the yield curve has remained flat to upward sloping for maturities as long as ten years, and the same has been true for yield curves for the most actively traded corporate bonds. Nonetheless, private yield curves are flatter than usual, suggesting that, although supply considerations have played a potentially important role in the inversion of the Treasury yield curve this year, investors’ forecasts of future economic conditions have also been a contributing factor. In particular, private yield curves are consistent with forecasts of a moderation in economic growth and expectations that the economy will be on a sustainable, non-inflationary track, with little further monetary policy tightening.

The disconnect between longer-term Treasury and private yields as a consequence of supply factors in the Treasury market is distorting readings from yield spreads. For instance, taken at face value, the spread of BBB corporate yields over the yield on the ten-year Treasury note would suggest that conditions in the corporate bond market so far in 2000 are worse than those during the financial market turmoil of 1998. In contrast, the spread of the BBB yield over the ten-year swap rate paints a very different picture, with spreads up this year but below their peaks in 1998. Although the swap market is still not as liquid as the Treasury securities market, and swap rates are occasionally subject to supply-driven distortions, such distortions have been less pronounced and more short-lived than those affecting the Treasury securities market of late, making swap rates a better benchmark for judging the behavior of other corporate yields.

Aware that distortions to Treasury yields are likely to become more pronounced as more federal debt is paid down, market participants have had to look for alternatives to the pricing and hedging roles traditionally played by Treasuries in U.S. financial markets. In addition to interest rate swaps, which have featured prominently in the list of alternatives to Treasuries, debt securities issued by the three government-sponsored housing agencies—Fannie Mae, Freddie Mac, and the Federal Home Loan Banks—have been used in both pricing and hedging. The three housing agencies have continued to issue a substantial volume of debt this year in an attempt to capture benchmark status, and the introduction in March of futures and

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5. A typical interest rate swap is an agreement between two parties to exchange fixed and variable interest rate payments on a notional principal amount over a predetermined period ranging from one to thirty years. The notional amount itself is never exchanged. Typically, the variable interest rate is the London Interbank Offered Rate (LIBOR), and the fixed interest rate—called the swap rate—is determined in the swap market. The overall credit quality of market participants is high, typically A or above; those entities with credit ratings of BBB or lower are generally either rejected or required to adopt credit-enhancing mechanisms, typically by posting collateral.
options contracts based on five- and ten-year notes issued by Fannie Mae and Freddie Mac may help enhance the liquidity of the agency securities market. Nonetheless, the market for agency debt has been affected by some uncertainty this year regarding the agencies’ special relationship with the government. Both the Treasury and the Federal Reserve have suggested that it would be appropriate for the Congress to consider whether the special standing of these institutions continues to promote the public interest, and pending legislation would, among other things, restructure the oversight of these agencies and reexamine their lines of credit with the U.S. Treasury.

The implementation of monetary policy, too, has had to adapt to the anticipated paydowns of marketable federal debt. Recognizing that there may be limitations on its ability to rely as much as previously on transactions in Treasury securities to meet the reserve needs of depositories and to expand the supply of currency, the FOMC decided at its March 2000 meeting to facilitate until its first meeting in 2001 the Trading Desk’s ability to continue to accept a broader range of collateral in its repurchase transactions. The initial approvals to help expand the collateral pool were granted in August 1999 as part of the Federal Reserve’s efforts to better manage possible disruptions to financial markets related to the century date change.

At the March 2000 meeting, the Committee also initiated a study to consider alternative asset classes and selection criteria that could be appropriate for the System Open Market Account (SOMA) should the size of the Treasury securities market continue to decline. For the period before the completion and review of such a study, the Committee discussed, at its May meeting, some changes in the management of the System’s portfolio of Treasury securities in an environment of decreasing Treasury debt. The changes aim to prevent the System from coming to hold high and rising proportions of new Treasury debt issues. They will also help the SOMA to limit any further lengthening of the average maturity of its portfolio while continuing to meet long-run reserve needs to the greatest extent possible through outright purchases of Treasury securities.6 The SOMA will cap the rollover of its existing holdings at Treasury auctions and will engage in secondary market purchases according to a schedule that effectively will result in a greater percentage of holdings of shorter-term security issues than of longer-dated ones. The schedule ranges from 35 percent of an individual issue for Treasury bills to 15 percent for longer-term bonds. These changes were announced to the public on July 5, replacing a procedure in which all maturing holdings were rolled over and in which coupon purchases were spread evenly across the yield curve.

Equity Prices

Major equity indexes have posted small gains so far this year amid considerable volatility. Fluctuations in technology stocks have been particularly pronounced: After having reached a record high in March—24 percent above its 1999 year-end value—the Nasdaq composite index, which is heavily weighted toward technology shares, swung widely and by mid-July was up 5 percent for the year. Given its surge in the second half of 1999, the mid-July level of the Nasdaq was about 60 percent above its mid-1999 reading. The broader S&P 500 and Wilshire 5000 indexes have risen close to 3 percent since the beginning of the year and are up about 10 percent and 13 percent, respectively, from mid-1999.

Corporate earnings reports have, for the most part, exceeded expectations, and projections of future earnings continue to be revised higher. However, the increase in interest rates since the beginning of the year likely has restrained the rise in equity prices. In addition, growing unease about the lofty valuations reached by technology shares and rising default rates in the corporate sector may have given some investors a better appreciation of the risks of holding

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6. The FOMC prefers a portfolio with a short average maturity because the higher turnover rate of such a portfolio gives it greater flexibility to redeem securities in times of financial market stress, which may require substantial decreases in the securities portfolio over a relatively short period, such as during an acute banking crisis that involves heavy lending through the discount window.
stocks in general. Reflecting the uncertainty about the future course of the equity market, expected and actual volatilities of stock returns rose substantially in the spring. At that time, volatility implied by options on the Nasdaq 100 index surpassed even the elevated levels reached during the financial market turmoil of 1998.

Higher volatility and greater investor caution had a marked effect on public equity offerings. The pace of initial public offerings has fallen off considerably in recent months from its brisk first-quarter rate, with some offerings being canceled or postponed and others being priced well short of earlier expectations. On the other hand, households’ enthusiasm for equity mutual funds, especially those funds that invest in the technology and international sectors, remains relatively high, although it appears to have faded some after the run-up in stock market volatility in the spring. Following a first-quarter surge, net inflows to stock funds moderated substantially in the second quarter but still were above last year’s average pace.

Debt and the Monetary Aggregates

Debt and Depository Intermediation

The total debt of the U.S. household, government, and nonfinancial business sectors is estimated to have increased at close to a 5½ percent annual rate in the first half of 2000. Outside the federal government sector, debt expanded at an annual rate of roughly 9½ percent, buoyed by strength in household and business borrowing. Continued declines in federal debt have helped to ease the pressure on available savings and have facilitated the rapid expansion of nonfederal debt outstanding: The federal government paid down $218 billion of debt over the first half of 2000, compared with paydowns of $56 billion and $101 billion in the first six months of calendar years 1998 and 1999 respectively.

Depository institutions have continued to play an important role in meeting the strong demands for credit by businesses and households. Adjusted for mark-to-market accounting rules, credit extended by commercial banks rose 11½ percent in the first half of 2000. This advance was paced by a brisk expansion of loans, which grew at an annual rate of nearly 13 percent over this period. Bank credit increased in part because some businesses sought bank loans as an alternative to a less receptive corporate bond market. In addition, the underlying strength of household spending helped boost the demand for consumer and mortgage loans. Banks’ holdings of consumer and mortgage loans were also supported by a slower pace of securitizations this year. In the housing sector, for instance, the rising interest rate environment has kept the demand for adjustable-rate mortgages relatively elevated, and banks tend to hold these securities on their books rather than securitize them.

Banks have tightened terms and standards on loans further this year, especially in the business sector, where some lenders have expressed concerns about a more uncertain corporate outlook. Bank regulators have noted that depository institutions need to take particular care in evaluating lending risks to account for possible changes in the overall macroeconomic environment and in conditions in securities markets.

Growth of domestic nonfinancial debt

Note. Total debt consists of the outstanding credit market debt of the U.S. government, state and local governments, households and nonprofit organizations, nonfinancial businesses, and farms. Annual growth rates are computed from average for fourth quarter of preceding year to average for fourth quarter of year indicated. Growth in the first half of 2000 is computed from average for fourth quarter of 1999 to average for the second quarter of 2000 and expressed at an annual rate. The growth rate for 2000:H1 is currently based on partially estimated data.
The Monetary Aggregates

Growth of the monetary aggregates over the first half of 2000 has been buffeted by several special factors. The unwinding of the buildups in liquidity that occurred in late 1999 before the century date change depressed growth in the aggregates early this year. Subsequently, M2 rebounded sharply in anticipation of outsized tax payments in the spring and then ran off as those payments cleared. On net, despite the cumulative firming of monetary policy since June 1999, M2 expanded at a relatively robust, 6 percent, annual rate during the first half of 2000—the same pace as in 1999—supported by the rapid expansion of nominal spending and income.

M2 velocity—the ratio of nominal income to M2—has increased over the first half of this year, consistent with its historical relationship with the interest forgone (“opportunity cost”) from holding M2. As usual, rates offered on many of the components of M2 have not tracked the upward movement in market interest rates, and the opportunity cost of holding M2 has risen. In response, investors have reallocated some of their funds within M2 toward those components whose rates adjust more quickly—such as small time deposits—and have restrained flows into M2 in favor of longer-term mutual funds and direct holdings of market instruments.

M3 expanded at an annual rate of 9 percent in the first half of 2000, up from 7½ percent for all of 1999. The robust expansion of bank credit underlies much of the acceleration in M3 this year. Depository institutions have issued large time deposits and other managed liabilities in volume to help fund the expansion of their loan and securities portfolios. In contrast, flows to institutional money funds slowed from the rapid pace of late 1999 after the heightened preference for liquid assets ahead of the century date change ebbed.

As has been the case since 1994, depository institutions have continued to implement new retail sweep programs over the first half of 2000 in order to avoid having to hold non-interest-bearing reserve balances with the Federal Reserve System. As a result, required reserve balances are still declining gradually, adding to concerns that, under current procedures, low balances might adversely affect the imple-
mentation of monetary policy by eventually leading to increased volatility in the federal funds market. The pending legislation that would allow the Federal Reserve to pay interest on balances held at Reserve Banks would likely lead to a partial unwinding over time of the ongoing trend in retail sweep programs.

**International Developments**

In the first half of 2000, economic activity in foreign economies continued the strong overall performance that was registered last year. With a few exceptions, most emerging-market countries continued to show signs of solid recoveries from earlier recessions, supported by favorable financial market conditions. Average real GDP in the foreign industrial countries accelerated noticeably in the first half of this year after a mild slowdown in late 1999. The pickup reflected in large part better performance of Japanese domestic demand (although its sustainability has been questioned) and further robust increases in Europe and Canada. In many countries, economic slack diminished, heightening concern about inflation risks.

Higher oil prices bumped up broad measures of inflation almost everywhere, but measures of core inflation edged up only modestly, if at all.

Monetary conditions generally were tightened in foreign industrial countries, as authorities removed stimulus by raising official rates. Yield curves in several key industrial countries tended to flatten, as interest rates on foreign long-term government securities declined on balance after January, reversing an upward trend seen since the second quarter of 1999. Yields on Japanese government long-term bonds edged upward slightly, but at midyear still were only about 1¾ percent.

Concerns in financial markets at the end of last year about potential disruptions during the century date change dissipated quickly, and global markets in the early months of this year returned to the comparatively placid conditions seen during most of 1999. Starting in mid-March, however, global financial markets were jolted by several episodes of increased volatility set off typically by sudden downdrafts in U.S. Nasdaq prices. At that time, measures of market risk for some emerging-market countries widened, but they later retracted most of these increases. The performances of broad stock market indexes in the industrial countries were mixed, but they generally tended to reflect their respective cyclical positions. Stocks in Canada, France, and Italy, for example, continued to make good gains, German stocks did less well, and U.K. stocks slipped. Japanese shares also were down substantially, even though the domestic economy showed some signs of firmer activity. In general, price volatility of foreign high-tech stocks or stock indexes weighted toward technology-intensive sectors was quite high and exceeded that of corresponding broader indexes.

The dollar continued to strengthen during most of the first half of the year. It appeared to be supported mainly by continuing positive news on the performance of the U.S. economy, higher U.S. short-term interest rates, and for much of the first half, expectations of further tightening of monetary policy. Early in the year, the attraction of high rates of return on U.S. equities may have been an additional supporting factor, but the dollar maintained its upward trend even after U.S. stock prices leveled off near the end of the first quarter and then declined for a while. In June, the dollar eased back a bit against the currencies of some industrial countries amid signs that U.S. growth was slowing. Nevertheless, for the year so far, the dollar is up on balance about 5½ percent against the major currencies; against a broader index of trading-partner currencies, the dollar has appreciated about 3¾ percent on balance.

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**Foreign interest rates**

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**Note.** The data are weekly. Last observations are for the week ending July 12, 2000.
The dollar has experienced a particularly large swing against the euro. The euro started this year already down more than 13 percent from its value against the dollar at the time when the new European currency was introduced in January 1999, and it continued to depreciate during most of the first half of 2000, reaching a record low in May. During this period, the euro seemed to be especially sensitive to news and public commentary by officials about the strength of the expansion in the euro area, the pace of economic reform, and the appropriate macroeconomic policy mix. Despite a modest recovery in recent weeks, the euro still is down against the dollar almost 7 percent on balance for the year so far and about 3½ percent on a trade-weighted basis.

The euro’s persistent weakness posed a challenge for authorities at the European Central Bank as they sought to implement a policy stance consistent with their official inflation objective (2 percent or less for harmonized consumer prices) without threatening the euro area’s economic expansion. Supported in part by euro depreciation, economic growth in the euro area in the first half of 2000 was somewhat stronger than the brisk 3 percent pace recorded last year. Investment was robust, and indexes of both business and consumer sentiment registered record highs. The average unemployment rate in the area continued to move down to nearly 9 percent, almost a full percentage point lower than a year earlier. At the end of the first half, the euro-area broad measure of inflation, partly affected by higher oil prices, was above 2 percent, while core inflation had edged up to 1½ percent. Variations in the pace of economic expansion and the intensity of inflation pressures across the region added to the complexity of the situation confronting ECB policymakers even though Germany and Italy, two countries that had lagged the euro-area average expansion of activity in recent years, showed signs that they were beginning to move ahead more rapidly. After having raised its refinancing rate 50 basis points in November 1999, the ECB followed with three 25-point increases in the first quarter and another 50-point increase in June. The ECB pointed to price pressures and rapid expansion of monetary aggregates as important considerations behind the moves.

Compared with its fluctuations against the euro, the dollar’s value was more stable against the Japanese yen during the first half of 2000. In late 1999, private domestic demand in Japan slumped badly, even though the Bank of Japan continued to hold its key policy rate at essentially zero. Several times during the first half of this year, the yen experienced strong upward pressure, often associated with market perceptions that activity was reviving and with speculation that the Bank of Japan soon might abandon its zero-interest-rate policy. This upward pressure was resisted vigorously by Japanese authorities on several occasions with sales of yen in foreign exchange markets. The Bank of Japan continued to hold overnight interest rates near zero through the first half of 2000.

The Japanese economy, in fact, did show signs of stronger performance in the first half. GDP rose at an annual rate of 10 percent in the first quarter, with particular strength in private consumption and investment. Industrial production, which had made solid gains last year, continued to expand at a healthy pace, and surveys indicated that business confidence had picked up. Demand from the household sector was less robust, however, as consumer confidence was held back by historically high unemployment. A large and growing outstanding stock of public debt (estimated at more than 110 percent of GDP) cast increasing doubt about the extent to which authorities might be willing to use additional fiscal stimulus to boost demand. Even though some additional government

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**Nominal U.S. dollar exchange rates**

First week 1999 = 100

- Exchange rate indexes
  - Major
  - Broad
- Selected bilateral rates
  - Euro
  - U.K. pound
  - Canadian dollar
  - Japanese yen

**Note.** The data are weekly. Indexes in the upper panel are trade-weighted averages of the exchange value of the dollar against major currencies and against the currencies of a broad group of important U.S. trading partners. Last observations are for the week ending July 12, 2000.
Expenditure for coming quarters was approved in late 1999, government spending did not supply stimulus in the first quarter. With core consumer prices moving down at an annual rate that reached almost 1 percent at midyear, deflation also remained a concern.

Economic activity in Canada so far this year slowed a bit from its very strong performance in the second half of 1999, but it still was quite robust, generating strong gains in employment and reducing the remaining slack in the economy. The expansion was supported by both domestic demand and spillovers from the U.S. economy. Higher energy prices pushed headline inflation to near the top of the Bank of Canada’s 1 percent to 3 percent target range; core inflation remained just below 1 1/2 percent. The Canadian dollar weakened somewhat against the U.S. dollar in the first half of the year even though the Bank of Canada raised policy interest rates 100 basis points, matching increases in U.S. rates. In the United Kingdom, the Bank of England continued a round of tightening that started in mid-1999 by raising official rates 25 basis points twice in the first quarter. After March, indications that the economy was slowing and that inflation pressures might be ebbing under the effect of the tighter monetary stance and strength of sterling—especially against the euro—allowed the Bank to hold rates constant. In recent months, sterling has depreciated on balance as official interest rates have been raised in other major industrial countries.

In developing countries, the strong recovery of economic activity last year in both developing Asia and Latin America generally continued into the first half of 2000. However, after a fairly placid period that extended into the first few months of this year, financial market conditions in some developing countries became more unsettled in the April–May period. In some countries, exchange rates and equity prices weakened and risk spreads widened, as increased political uncertainty interacted with heightened financial market volatility and rising interest rates in the industrial countries. In general, financial markets now appear to be identifying and distinguishing those emerging-market countries with problems more effectively than they did several years ago.

In emerging Asia, the strong bounceback of activity last year from the crisis-related declines of 1998 continued into the first half of this year. Korea, which recorded the strongest recovery in the region last year with real GDP rising at double-digit rates in every quarter, has seen some moderation so far in 2000. However, with inventories still being rebuilt, unemployment declining rapidly, and inflation showing no signs of accelerating, macroeconomic conditions remained generally favorable, and the won came under upward pressure periodically in the first half of this year. Nonetheless, the acute financial difficulties of Hyundai, Korea’s largest industrial conglomerate, highlighted the lingering effect on the corporate and financial sectors of the earlier crisis and the need for further restructuring. Economic activity in other Asian developing countries that experienced difficulties in 1997 and 1998 (Thailand, Indonesia, Malaysia, Singapore, and the Philippines) also continued to firm this year, but at varying rates. Nonetheless, financial market conditions have deteriorated in recent months for some countries in the region. In Indonesia and the Philippines, declines in equity prices and weakness in exchange rates appear to have stemmed from heightened market concerns over political instability and prospects for economic reform. Output in China increased at near double-digit annual rates in the second half of last year and remained strong in the first half of this year, boosted mainly by surging exports. In Hong Kong, real GDP rose at an annual rate of more than 20 percent in the...
first quarter of this year after a strong second half in 1999. Higher consumer confidence appears to have boosted private consumption, and trade flows through Hong Kong, especially to and from China, have increased.

The general recovery seen last year in Latin America from effects of the emerging-market financial crisis extended into the first part of this year. In Brazil, inflation was remarkably well contained, and interest rates were lowered, but unemployment has remained high. An improved financial situation allowed the Brazilian government to repay most of the funds obtained under its December 1998 international support package. However, Brazilian financial markets showed continued volatility this year, especially at times of heightened market concerns over the status of fiscal reforms, and risk premiums widened in the first half of 2000 on balance. In Mexico, activity has been strong so far this year. In the first quarter, real GDP surged at an annual rate of 11 percent, boosted by strong exports to the United States, soaring private investment, and increased consumer spending. Mexican equity prices and the peso encountered some downward pressure in the approach of the July 2 national election, but once the election was perceived to be fair and the transition of power was under way, both recovered substantially. In Argentina, the pace of recovery appears to have slackened in the early part of this year, as the government’s fiscal position and, in particular, its ability to meet the targets of its International Monetary Fund program remained a focus of market concern. Heightened political uncertainty in Venezuela, Peru, Colombia, and Ecuador sparked financial market pressures in recent months in those countries, too. In January, authorities in Ecuador announced a program of “dollarization,” in which the domestic currency would be entirely replaced by U.S. dollars. The program, now in the process of implementation, appears to have helped stabilize financial conditions there.