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Tuesday
February 24, 1998**

Board of Governors of the Federal Reserve System



**Monetary Policy Report to the Congress
Pursuant to the
Full Employment and Balanced Growth Act of 1978**

February 24, 1998

Letter of Transmittal

BOARD OF GOVERNORS OF THE
FEDERAL RESERVE SYSTEM
Washington, D.C., February 24, 1998

THE PRESIDENT OF THE SENATE
THE SPEAKER OF THE HOUSE OF REPRESENTATIVES

The Board of Governors is pleased to submit its Monetary Policy Report to the Congress, pursuant to the Full Employment and Balanced Growth Act of 1978.

Sincerely,

A handwritten signature in black ink, appearing to read "Alan Greenspan". The signature is fluid and cursive, with a long horizontal stroke at the end.

Alan Greenspan, Chairman

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Section 1: Monetary Policy and the Economic Outlook

The U.S. economy turned in another excellent performance in 1997. Growth was strong, the unemployment rate declined to its lowest level in nearly a quarter-century, and inflation slowed further. Impressive gains were also made in other important respects: The federal budget moved toward balance much more quickly than almost anyone had anticipated; capital investment, a critical ingredient for long-run growth, rose sharply further; and labor productivity, the ultimate key to rising living standards, displayed notable vigor.

Among the influences that have brought about this favorable performance are the sound fiscal and monetary policies that have been pursued in recent years. Budgetary restraint at the federal level has raised national saving, easing the competition for funds in our capital markets and thereby encouraging greater private investment. Monetary policy, for its part, has sought to foster an environment of subdued inflation and sustainable growth. The experience of recent years has provided additional evidence that the less households and businesses need to cope with a rising price level, or worry about the sharp fluctuations in employment and production that usually accompany inflationary instability, the more long-term investment, innovation, and enterprise are enhanced.

The circumstances that prevailed through most of 1997 required that the Federal Reserve remain especially attentive to the risk of a pickup in inflation. Labor markets were already tight when the year began, and nominal wages had started to rise faster than previously. Persistent strength in demand over the year led to economic growth in excess of the expansion of the economy's potential, intensifying the pressures on labor supplies. In earlier business expansions, such developments had usually produced an adverse turn in the inflation trend that, more often than not, was accompanied by a worsening of economic performance on a variety of fronts, culminating in recession.

Robust growth of spending early in the year heightened concerns among members of the Federal Open Market Committee (FOMC) that growing strains on productive resources might touch off a faster rate of cost and price rise that could eventually undermine the expansion. Financial market participants seemed to share these concerns: Intermediate- and long-term interest rates began mov-

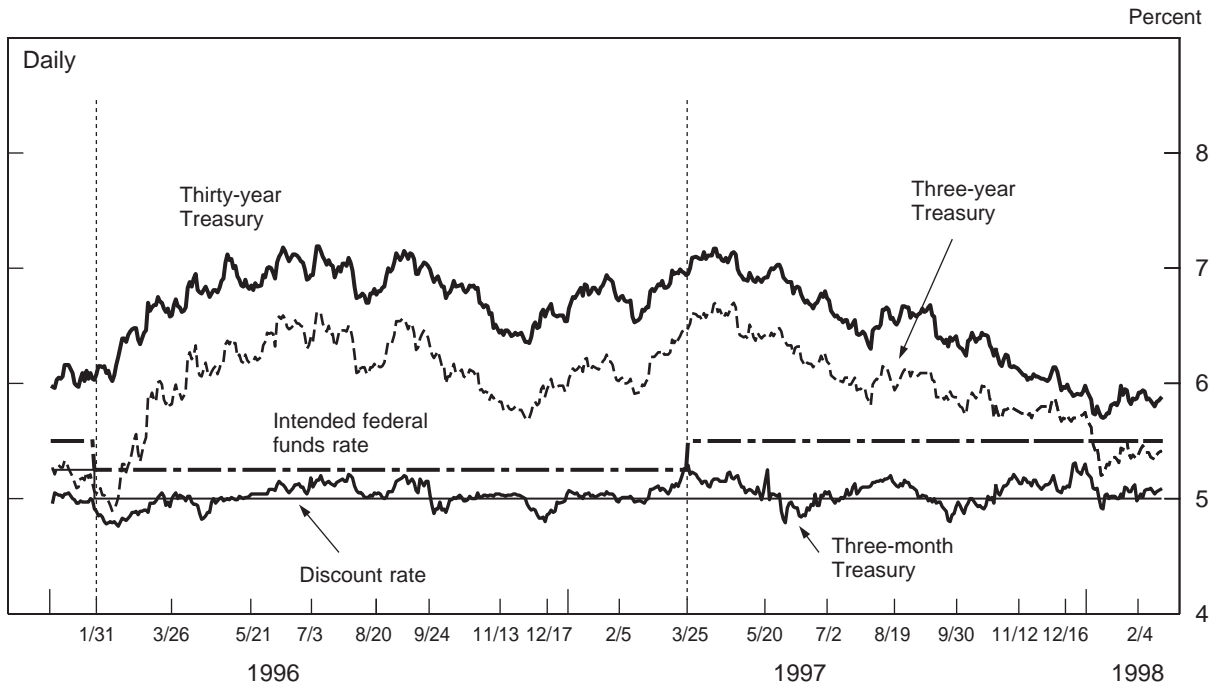
ing up in December 1996, effectively anticipating Federal Reserve action. When the FOMC firmed policy slightly at its March meeting by raising the intended federal funds rate from 5¼ percent to 5½ percent, the market response was small.

The economy slowed a bit during the second and third quarters, and inflation moderated further. In addition, the progress being made by the federal government in reducing the size of the deficit was becoming more apparent. As a consequence, by the end of September, longer-term interest rates fell ¾ percentage point from their peaks in mid-April, leaving them about ¼ percentage point below their levels at the end of 1996. The decline in interest rates along with continued reports of brisk growth in corporate profits sparked increases in broad indexes of equity prices of 20 percent to 35 percent between April and September.

Even with a more moderate pace of growth, labor markets continued to tighten, generating concern among the FOMC members over this period that rising costs might trigger a rise in inflation. Consequently, at its meetings from May through November, the Committee adopted directives for the conduct of policy that assigned greater likelihood to the possibility of a tightening of policy than to the possibility of an easing of policy. Even though the Committee kept the nominal federal funds rate unchanged, it saw the rise in the real funds rate resulting from declining inflation expectations, together with the increase in the exchange value of the dollar, as providing some measure of additional restraint against the possible emergence of greater inflation pressures.

In the latter part of the year, developments in other parts of the world began to alter the perceived risks attending the U.S. economic outlook. Foreign economies generally had seemed to be on a strengthening growth path when the Federal Reserve presented its midyear monetary policy report to the Congress last July. But over the remainder of the summer and during the autumn, severe financial strains surfaced in a number of advanced developing countries in Asia, weakening somewhat the outlook for growth abroad and thus the prospects for U.S. exports. Although the circumstances in individual countries varied, the problems they encountered generally resulted in severe downward pressures on the foreign exchange values of their cur-

Selected Interest Rates



Note. Dotted vertical lines indicate days on which the Federal Open Market Committee (FOMC) announced a monetary policy action. The dates on the horizontal axis are those on which the

FOMC held scheduled meetings. Last observations are for February 20, 1998.

rencies; in many cases, steep depreciations occurred despite substantial upward movement of interest rates. Asset values in Asia, notably equity and real estate prices, also declined appreciably in some instances, leading to losses by financial institutions that had either invested in those assets or lent against them; nonfinancial firms began to encounter problems servicing their obligations. In many instances the debts of nonfinancial and financial firms were denominated in dollars and unhedged. Concerted international efforts to bring economic and financial stability to the region are under way, and some progress has been made, but it is evident that in several of the affected economies the process of adjustment will be painful. Meanwhile, economic activity in Japan stagnated, in part because of the developments elsewhere in East Asia, and the weaknesses in the Japanese financial system became more apparent.

The steep depreciations of many Asian currencies contributed to a substantial further appreciation of the U.S. dollar. Measured against a broad set of currencies that includes those of the advanced developing countries of Asia, the exchange value of the dollar, adjusted for relative consumer prices, has moved up about 8 percent since October and has increased

about 16 percent from its level at the end of 1996. The dollar has also appreciated, on balance, against an index of currencies of the G-10 (Group of Ten) industrial countries; this G-10 trade-weighted index of dollar exchange rates is up about 13 percent in nominal terms since the end of 1996.

The difficulties in Asia contributed to additional declines of $\frac{1}{4}$ to $\frac{1}{2}$ percentage point in the yields on intermediate- and long-term Treasury securities in the United States between mid-autumn and the end of the year. These decreases were due in part to an international flight to the safe haven of dollar assets, but they also reflected expectations that these difficulties would exert a moderating influence on the growth of aggregate demand and inflation in the United States. Equity prices were quite volatile but showed little trend in the fourth quarter. In light of the ongoing difficulties in Asia and the possible effects on the United States, the FOMC not only left interest rates unchanged in December, but shifted its instructions to the Manager of the System Open Market Account to symmetry between ease and tightening in the near term.

Some spillover from the problems in Asia has recently begun to appear in reports on business activ-

ity in the United States. Customers in the advanced developing countries reportedly have canceled some of the orders they had previously placed with U.S. firms, and companies more generally are expressing concerns about the possibilities of both reduced sales to Asia and more intense price competition here as the result of the sharp changes in exchange rates. Nonetheless, the available statistics suggest on balance that overall growth of output and employment has remained brisk in the early part of 1998.

Confronted with the marked cross-currents described above—involving both upside and downside risks to the growth of output and prospects for inflation—the FOMC earlier this month once again chose to hold its federal funds rate objective unchanged. In credit markets, interest rates have fallen further this year as the effects of the Asian turmoil seemed even more likely to restrain any tendencies toward unsustainable growth and greater inflation in the United States. With interest rates lower and the negative effects of the Asian problems seen by market participants as mostly limited to particular sectors, broad indexes of equity prices have risen appreciably, many to new highs.

Economic Projections for 1998

The outlook for 1998 is clouded with a greater-than-usual degree of uncertainty. Part of that uncertainty is a reflection of the financial and economic stresses that have developed in Asia, the full consequences of which are difficult to judge. But there are some other significant question marks as well, many of them growing out of the surprising performance of the U.S. economy in 1997: Growth was considerably stronger and inflation considerably lower than Federal Reserve officials and most private analysts had anticipated.

Some of the key forces that gave rise to this favorable performance can be readily identified. An ongoing capital spending boom, encouraged in part by declining prices of high-technology equipment, provided stimulus to aggregate demand and at the same time created the additional capacity to help meet that demand. A further jump in labor productivity that was fueled partly by the buildup of capital helped firms overcome the production and pricing challenges posed by tight labor markets. A surprisingly robust stock market bolstered the finances of households and enabled them to spend more freely. Falling world oil prices reduced the prices of petroleum products and helped hold down the prices of other energy-intensive goods. Finally, a rising

dollar imposed additional restraint on inflation, as prices of imported goods fell appreciably. Circumstances as favorable as those of 1997 are not likely to persist, although several elements in the recent mix could help maintain, for some time, a more favorable economic performance than historical relationships would suggest.

In assessing the situation, the members of the Board of Governors and the Reserve Bank presidents, all of whom participate in the deliberations of the FOMC, think that the most likely outcome for 1998 will be one of moderate growth, low unemployment, and low inflation. Most of them have placed their point estimates of the rise in real GDP from the fourth quarter of 1997 to the fourth quarter of 1998 in the range of 2 percent to 2¾ percent. The civilian unemployment rate in the fourth quarter of 1998 is expected to be at about its recent level. For the most part, the forecasts have the total CPI for all urban consumers rising between 1¾ percent and 2¼ percent this year. These predictions do not differ appreciably from those recently put forth by the Administration.

Although developments in Asia over the past few months have not yet affected aggregate U.S. economic performance in a measurable way, these influences will likely become more visible in coming months. Growth of U.S. exports is expected to be restrained by weaknesses in Asian economies and by the lagged effects of the appreciation of the dollar since 1995. Moreover, with the rise in the dollar's value making imports less expensive, some U.S. businesses and consumers will likely switch from domestic to foreign sources for some of their purchases. But the timing and magnitude of these developments are hard to predict.

In contrast to the slower growth that seems to be in prospect for exports, domestic spending seems likely to maintain considerable strength in coming quarters. Households as a group are quite upbeat in their assessments of their personal finances—as might be expected in conjunction with expanding job opportunities, rising incomes, and huge gains in wealth. Recently, many households have taken advantage of lower long-term interest rates by refinancing their home mortgages, and this will provide a little additional wherewithal for spending. Moreover, the decline in mortgage rates is also bolstering housing construction.

Business outlays for fixed investment seem likely to advance at a relatively brisk pace in the coming year, although gains as large as those of the past

Economic Projections for 1998

Percent

Indicator	Federal Reserve governors and Reserve Bank presidents		
	Range	Central tendency	Administration
<i>Change, fourth quarter to fourth quarter¹</i>			
Nominal GDP	3½ to 5	3¾ to 4½	4.0
Real GDP²	1¾ to 3	2 to 2¾	2.0
Consumer price index³	1½ to 2½	1¾ to 2¼	2.2
<i>Average level, fourth quarter</i>			
Civilian unemployment rate	4½ to 5	about 4¾	5.0

1. Change from average for fourth quarter of 1997 to average for fourth quarter of 1998.

2. Chain-weighted.

3. All urban consumers.

couple of years may be difficult to match. Outlays for computers, which have dominated the investment surge of the past few years, should climb substantially further as businesses press ahead with new investment in the latest technologies, encouraged in part by ongoing price declines. With labor markets tight, firms continue to see capital investment as the key in efforts to increase efficiency and maintain competitiveness. Internally generated funds remain adequate to cover the bulk of businesses' investment outlays, and those firms turning to the debt and equity markets are most often finding financing generously available on good terms. Inventory growth will likely put less pressure on business cash flow this year; after adding to stocks at a substantial clip in 1997, businesses seem likely to scale back such investment somewhat, especially as they perceive a moderation in sales increases.

The Federal Reserve policymakers' forecasts of the average unemployment rate in the fourth quarter of 1998 are mostly around 4¾ percent. The persistence for another year of this degree of tightness in the labor market means that firms will likely continue to face difficulties in finding workers and that hiring and retaining workers could become more costly. Indeed, there are indications that wage inflation picked up further at the end of last year. Improvements in labor productivity have become more sizable in the past couple of years, and if such gains can be extended, wage increases of the magnitude of those of 1997 need not translate into greater price inflation. The

more rapid growth in productivity is consistent with the high level of capital investment in recent years, but the extent to which the trend in productivity has picked up is still uncertain. Furthermore, if momentum in nominal wages continues to build, the pay increases will eventually squeeze profit margins and place upward pressures on prices, even with exceptional productivity gains. The strains in labor markets therefore constitute an ongoing inflationary risk that will have to be monitored closely.

In the near term, however, there are several factors that should lessen the risk of a step-up in inflation. Manufacturing capacity remains ample, and bottlenecks are not hampering production. The recent appreciation of the dollar should damp inflation both because of falling import prices and because the added competition from imports may induce domestic producers to hold down prices. Oil prices have weakened considerably since the latter part of 1997 in response to abundant supplies, the softening of demand in Asia, and a mild winter. Ample supplies and the prospect of softer global demand have been depressing the prices of many other commodities, both in agriculture and in industry. Perhaps most important, as the low level of inflation that has prevailed in recent years gets built into wage agreements, other contracts, and individuals' inflation expectations, it will provide an inertial force helping sustain the favorable price performance for a time.

Although many of the factors currently placing

Ranges for Growth of Monetary and Debt Aggregates

Percent

Aggregate	1996	1997	1998
M2	1 to 5	1 to 5	1 to 5
M3	2 to 6	2 to 6	2 to 6
Debt	3 to 7	3 to 7	3 to 7

Note. Change from average for fourth quarter of preceding year to average for fourth quarter of year indicated.

restraint on inflation are not necessarily long lasting, the Committee judged that their effect in 1998 would about offset the pressures from tight labor markets. Consequently, the Board members and Reserve Bank presidents anticipate that the rate of price inflation will change little this year. Again in 1998, the FOMC will be monitoring a variety of price measures in addition to the CPI for indications of changes in inflation and will be assessing movements in the CPI in the context of ongoing technical improvements by the Bureau of Labor Statistics that are likely to damp the reported 1998 rise in that index.

Money and Debt Ranges for 1998

In establishing the ranges for growth of broad measures of money over 1998, the Committee recognized the considerable uncertainty that still exists about the behavior of the velocities of these aggregates. The velocity of M3 (the ratio of nominal GDP to the monetary aggregate) in particular has proved difficult to predict. Last year, the growth of this aggregate relative to spending was affected by the rapid increase in depository credit and by the way in which that increase was funded, as well as by the changing cash management practices of corporations, which have been using the services of institution-only money funds in M3. These factors boosted M3 growth last year to $8\frac{3}{4}$ percent, 3 percentage points faster than nominal GDP—an unusually large decline in M3 velocity. Going forward, it seems likely that M3 growth will continue to be buoyed by robust credit growth at depositories and continuing shifts in cash management. Thus, its velocity is likely to decline further, though the amount of decline is difficult to predict.

The relationship of M2 to spending in recent years has come back more into line with historical patterns in which the velocity of M2 tended to be fairly

constant, except for the effects of the changing opportunity cost of M2—the spread between yields that savers could earn holding short-term market instruments and those that they could earn holding M2. In the early 1990s, M2 velocity departed from this pattern, rising substantially and atypically. Even after the unusual shift of the early 1990s died out, M2 velocity continued to drift somewhat higher from 1994 into 1997. That drift probably reflected some continued, albeit more moderate, redirection of savings into bond and equity markets, especially through the purchase of mutual funds. However, last year the drift abated. There was little change, on balance, in the opportunity cost of holding M2, and M2 velocity also was about unchanged, as M2 grew $5\frac{1}{2}$ percent, nearly the same as nominal GDP. Nevertheless, the upward drift could resume in the years ahead as financial innovations or perceptions of attractive returns lead households to further shift their savings away from M2 balances. Or velocity might be pushed downward if volatility or setbacks in bond and stock markets were to lead investors to seek the safety of M2 assets, which have stable principal.

In light of the uncertainties about the behavior of velocities, the Committee followed its practice of recent years and established the ranges for 1998 not as expectations for actual money growth, but rather as benchmarks for M2 and M3 behavior that would be consistent with sustained price stability, assuming velocity change in line with pre-1990 historical experience. Thus, the ranges for fourth-quarter to fourth-quarter growth are unchanged from those in 1997: 1 percent to 5 percent for M2, and 2 percent to 6 percent for M3. Given the central tendency of the Committee's forecast for growth of nominal GDP of $3\frac{3}{4}$ percent to $4\frac{1}{2}$ percent, M2 is likely to be in the range, perhaps in the upper half, if short-term interest rates do not change much and velocity continues recent patterns. For M3, however, a continuation of

recent velocity behavior could imply growth around the upper end of, if not above, the price-stability range.

Debt of the nonfinancial sectors grew $4\frac{3}{4}$ percent in 1997, near the middle of the range of 3 percent to 7 percent established by the Committee last February. As with the monetary aggregates, the Committee has left the range for debt unchanged for 1998. The range it has chosen encompasses the likely growth of debt given Committee members' forecasts of nominal GDP. Except for the 1980s, the growth of

debt has tended to be reasonably in line with the growth of nominal GDP.

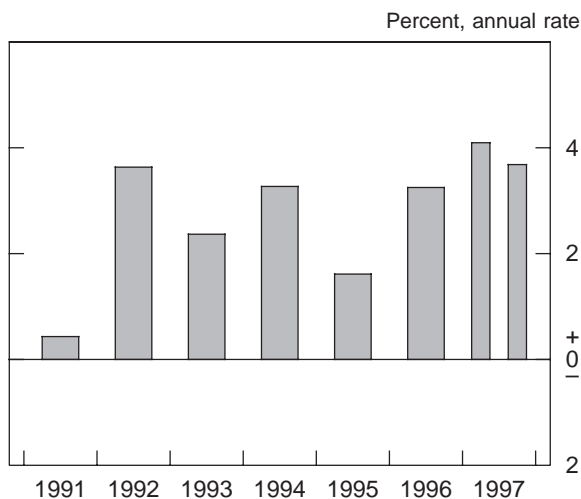
Although the ranges for money and debt are not set as targets for monetary policy in 1998, the behavior of these variables, interpreted carefully, can at times provide useful information about the economy and the workings of the financial markets. The Committee will continue to monitor the movements of money and debt—along with a wide variety of other financial and economic indicators—to inform its policy deliberations.

Section 2: Economic and Financial Developments in 1997 and Early 1998

The past year has been an exceptionally good one for the U.S. economy. Initial estimates indicate that real GDP increased nearly 4 percent over the four quarters of 1997. Household and business expenditures continued to rise rapidly, owing in part to supportive financial conditions, including a strong stock market, ample availability of credit, and, from April onward, declining intermediate- and long-term interest rates. In the aggregate, private domestic spending on consumption and investment rose nearly 5 percent on an inflation-adjusted basis. The strength of spending, along with a further sizable appreciation of the foreign exchange value of the U.S. dollar, brought a surge of imports, the largest in many years. Export growth, while lagging that of imports, also was substantial despite the appreciation of the dollar and the emergence after midyear of severe financial difficulties in several foreign economies, particularly among the advanced developing countries in Asia.

Meanwhile, inflation slowed from the already reduced rates of the previous few years. Although wages and total hourly compensation accelerated in a tight labor market, the inflationary impulse from that source was more than offset by other factors, including rising competition from imports, the price restraint from increased manufacturing capacity, and a sizable gain in labor productivity.

Change in Real GDP

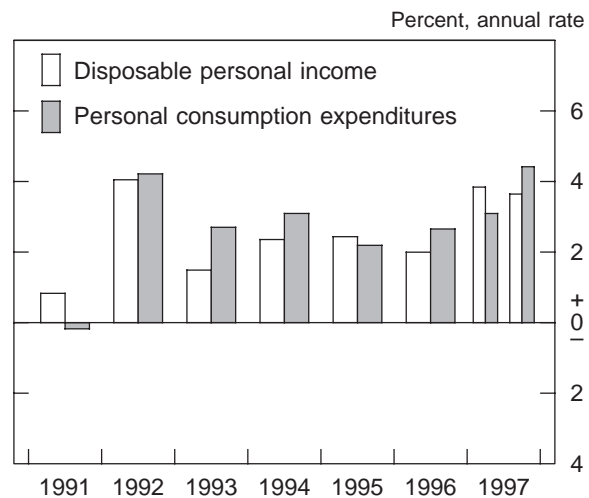


Note. In this chart and in subsequent charts that show the components of real GDP, changes are measured to the final quarter of the period indicated, from the final quarter of the previous period.

The Household Sector

Consumption Spending, Income, and Saving. Bolstered by increases in income and wealth, personal consumption expenditures rose substantially during 1997—about 3¾ percent, according to the initial estimate. Expenditures strengthened for a wide variety of durable goods. Real outlays on home computers continued to soar, rising even faster than they did over the previous few years. Strength also was reported in purchases of furniture and home appliances—products that tend to do well when home sales are strong. Consumer expenditures on motor vehicles rose moderately, on net, more than reversing the small declines of the previous two years. Real expenditures on services increased more than 4 percent in 1997, the largest gain of recent years. Personal service categories such as recreation, transportation, and education recorded large increases. Consumers also boosted their outlays for business services, including outlays related to financial transactions.

Change in Real Income and Consumption

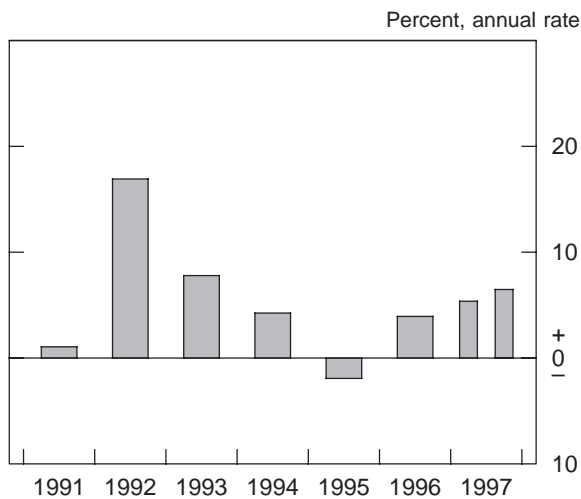


Real disposable personal income—after-tax income adjusted for inflation—is estimated to have increased about 3¾ percent during 1997, a gain that was exceeded on only one occasion in the previous decade. Income was boosted this past year by sizable gains in wages and salaries and by another year of large increases in dividends.

Measured in terms of annual averages, the personal saving rate fell further in 1997, according to current estimates. The 1997 average of 3.8 percent was about ½ percentage point below the 1996 average and roughly a full percentage point below the 1995 average. It also was the lowest annual reading in several decades. Various surveys of households show consumers to have become increasingly optimistic about prospects for the economy, and this rising degree of optimism may have led them to spend more freely from current income. Support for additional spending came from the further rise in the stock market, as the capital gains accruing to households increased the chances of their meeting longer-run net worth objectives even as they consumed a larger proportion of current income.

Residential Investment. Preliminary data indicate that real residential investment increased nearly 6 percent during 1997. Real outlays for the construction of new single-family structures rose moderately, and outlays for the construction of multifamily units continued to recover from the extreme lows that were reached earlier in the decade. Real outlays for home improvements and brokers' commissions, categories that have a combined weight of more than 35 percent in total residential investment, moved up substantially from the final quarter of 1996 to the final quarter of 1997. Spending on mobile homes, a small part of the total, also advanced.

Change in Real Residential Investment



The indicators of single-family housing activity were almost uniformly strong during the year. Sales of houses surged, driven by declines in mortgage interest rates and the increasingly favorable economic circumstances of households. Annual sales of

new single-family houses were up about 5½ percent from the number sold in the preceding year, and sales of existing homes moved up about 3 percent. House prices moved up more quickly than prices in general. Responding to the strong demand, starts of new single-family units remained at a high level, only a touch below that of 1996; the annual totals for single-family units have now exceeded 1 million units for six consecutive years, putting the current expansion in single-family housing construction nearly on a par with that of the 1980s in terms of longevity and strength. In January of this year, starts of and permits for single-family units were both quite strong.

Starts of multifamily units increased in 1997 for the fourth year in a row and were about double the record low of 1993. The increased construction of these units was supported by a firming of rents, abundant supplies of credit, and a reduction in vacancy rates in some markets. The national vacancy rate came down only slightly, however, and it has reversed only a portion of the sharp run-up that took place in the 1980s. This January, starts of multifamily units fell back to about the 1997 average after having surged to an exceptionally high level in the fourth quarter.

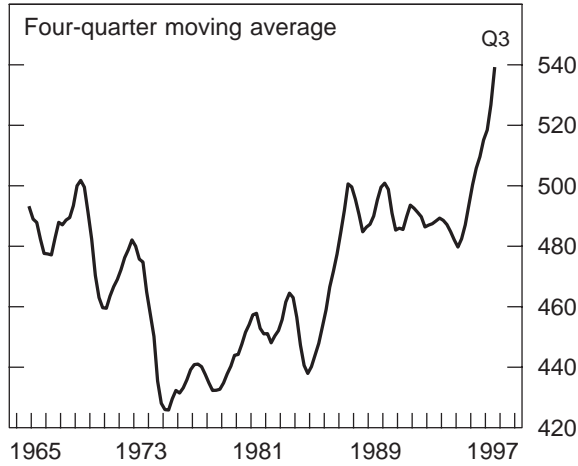
The home-ownership rate—the number of households that own their dwellings divided by the total number of households—moved up further in 1997, to about 65¾ percent, a historical high. The rate had fallen in the 1980s but has risen almost 2 percentage points in this decade.

Household Finance. Household net worth appears to have grown roughly \$3½ trillion during 1997, ending at its highest multiple relative to disposable personal income on record. Most of this increase in net worth was the result of upward revaluations of household assets rather than additional saving. In particular, capital gains on corporate equities accounted for about three-fourths of the increase in net worth. Flows of household assets into mutual funds, pensions, and other vehicles for holding equities indirectly were exceeded by outflows from directly held equities.

Household borrowing not backed by real estate, including credit card balances, auto loans, and other consumer credit, increased 4¾ percent in 1997. These obligations grew at double-digit rates in 1994 and 1995 but have slowed fairly steadily since then. Mortgage borrowing, by contrast, has experienced relatively muted swings in growth during the current expansion. Home mortgages are estimated to have grown 7 percent last year, only a bit slower than

Household Net Worth

Percent of disposable personal income

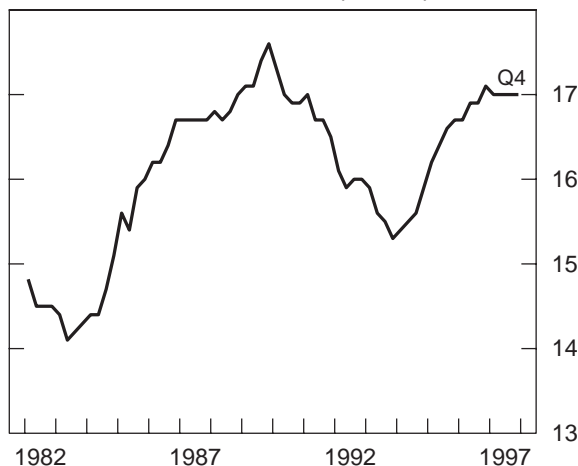


in 1996. Within this category of credit, however, home equity loans have advanced sharply, reflecting in part the use of these loans in refinancing and consolidating credit card and other consumer obligations.

An element in the slowing of consumer credit growth may have been assessments by some households that they were reaching the limits of their capacity for carrying debt and by some lenders that they needed to tighten selectively their standards for granting new loans. In the mid-1990s, the percentage of household income required to meet debt obligations rose to the upper end of its historical range, in large part because of a sharp rise in credit

Household Debt-Service Burden

Percent of disposable personal income



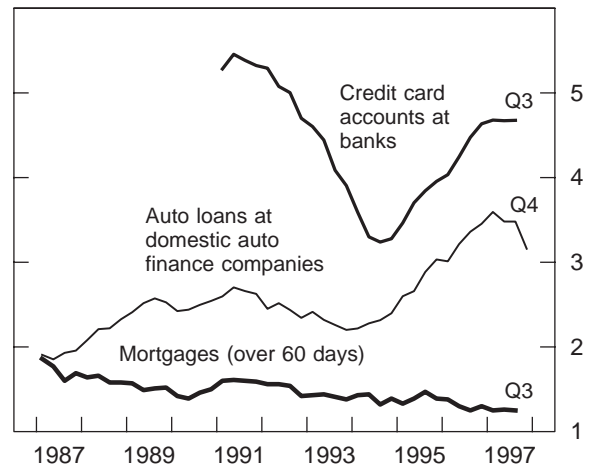
Note. Debt service is the sum of estimated required interest and principal payments on consumer and household-sector mortgage debt.

card debt. Between 1994 and 1996 personal bankruptcies grew at more than a 20 percent annual rate, to some extent because of households' rising debt burden; a change in the federal bankruptcy law and a secular trend toward associating less social stigma with bankruptcy also may have contributed. Over the same period, delinquency and charge-off rates on consumer loans increased significantly.

Last year, however, because the growth of household debt only slightly outpaced that of income while interest rates drifted lower, the household debt-service burden did not change. Reflecting, in part, the stability of the aggregate household debt burden, delinquency rates on many segments of consumer credit plateaued, although charge-off rates generally continued to rise somewhat. Personal bankruptcies advanced again last year but showed some signs of leveling off in the third quarter.

Delinquency Rates on Household Loans

Percent



Note. Data on credit-card delinquencies are from the Call Report; data on mortgage delinquencies are from the Mortgage Bankers Association.

Some of the apparent leveling out of household debt-repayment problems may also have resulted from efforts by lenders to stem the growth of losses on consumer loans. For the past two years, a large percentage of the respondents to the Federal Reserve's quarterly Senior Loan Officer Opinion Survey on Bank Lending Practices have reported tightened standards on consumer loans. But the percentages reporting tightening have fallen a bit in the last few surveys, suggesting that many banks feel that they have now altered their standards sufficiently.

Although banks pulled back a bit from consumer lending, most households had little trouble obtaining credit in 1997. Bank restraint has most commonly taken the form of imposing lower credit limits or raising finance charges on outstanding balances; credit card solicitations continued at a record pace. Furthermore, many respondents to the Federal Reserve's January 1998 survey of loan officers said their banks had eased terms and standards on home equity loans, providing consumers easier access to an alternative source of finance.

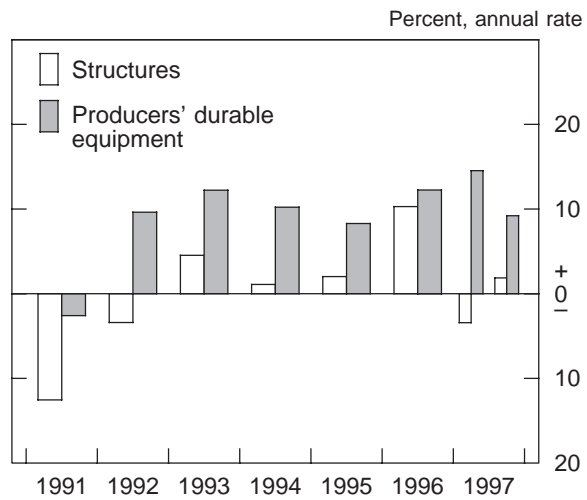
Mortgage rates fell last month to levels that led many households to apply for loan refinancing. When households refinance, they may choose among options that have differing implications for cash flow, household balance sheets, and spending. Some households may decide to reduce their monthly payments, keeping the size of their mortgages unchanged. Others may keep their monthly payments unchanged, either speeding up their repayments or increasing their mortgages and taking out cash in the process, perhaps to augment current expenditures. In any case, the wave of refinancings is likely having only a small effect on the overall economy because the current difference between the average rate on outstanding mortgages and the rate on new ones is not very large.

The Business Sector

Investment Expenditures. Adjusted for inflation, businesses' outlays for fixed investment rose about 8 percent during 1997 after gaining about 12 percent during 1996. Spending continued to be spurred by rapid growth of the economy, favorable financial conditions, attractive purchase prices for new equipment, and optimism about the future. Business outlays for equipment, which account for more than three-fourths of total business fixed investment, moved up about 12 percent this past year, making it the fourth year of the last five in which the annual gains have exceeded 10 percent. As in previous years of the expansion, real investment rose fastest for computers, the power of which continued to advance rapidly at the same time their prices continued to decline. Spending also moved up briskly for many other types of equipment, including communications equipment, commercial aircraft, industrial machinery, and construction machinery.

Real outlays for nonresidential construction, the remaining portion of business fixed investment, declined somewhat in 1997 after moving up in each of the four previous years. Construction of office buildings continued to increase in 1997, but sluggish-

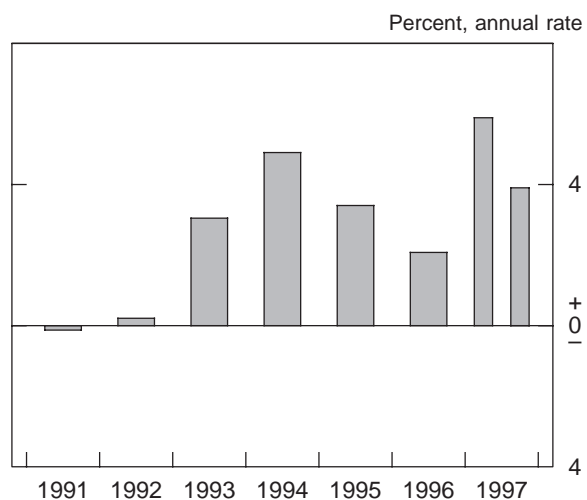
Change in Real Business Fixed Investment



ness was apparent in the expenditure data for many other types of structures. Nonetheless, a tone of underlying firmness was apparent in other indicators of market conditions. Vacancy rates declined, for example, and rents seemed to be picking up. In some areas of the country, more builders have been putting up new office buildings on "spec"—that is, undertaking new construction before occupants have been lined up. The new projects are apparently being spurred to some degree by the ready availability of financing.

Business inventory investment picked up considerably in 1997. According to the initial estimate, the level of inventories held by nonfarm businesses rose about 5 percent in real terms over the course of the year after increasing roughly 2 percent in 1996.

Change in Real Nonfarm Business Inventories

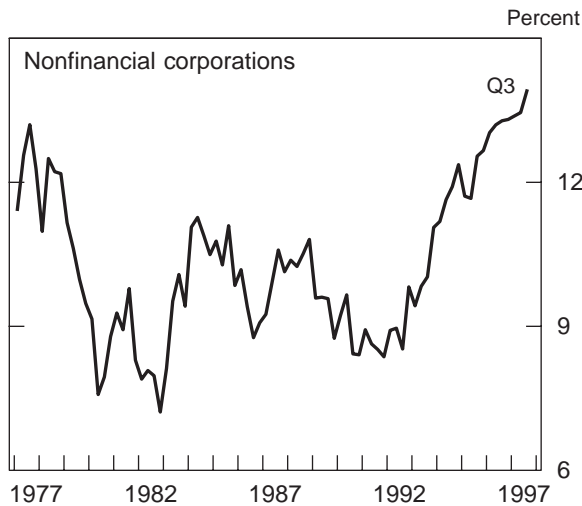


Accumulation was especially rapid in the commercial aircraft industry, in which production has been ramped up in response to a huge backlog of orders for new jets. With the rate of inventory growth outpacing the growth of final sales last year, the stock-to-sales ratio in the nonfarm sector ticked up slightly, after a small decline in the preceding year. Although inventory accumulation does not seem likely to persist at the pace of 1997, businesses in general do not appear to be uncomfortable with the levels of stocks that they have been carrying.

Corporate Profits and Business Finance.

The economic profits of U.S. corporations (book profits after inventory valuation and capital consumption adjustments) increased at more than a 14 percent annual rate over the first three quarters of 1997, and profits of nonfinancial corporations from their domestic operations grew at a 13½ percent annual rate. In the third quarter, nonfinancial corporate profits amounted to nearly 14 percent of that sector’s nominal output, up from 7¼ percent in 1982 and the highest share since 1969. The elevated profit share reflects both the high level of cash flow before interest costs, which also stands at a multiyear peak relative to output, and the reductions in interest costs that have taken place in the 1990s. Fourth-quarter profit announcements indicate that year-over-year growth in earnings was fairly strong; few corporations reported that they had experienced much fallout yet from the events in Asia, but many warned that profits in the first half of 1998 will be significantly affected.

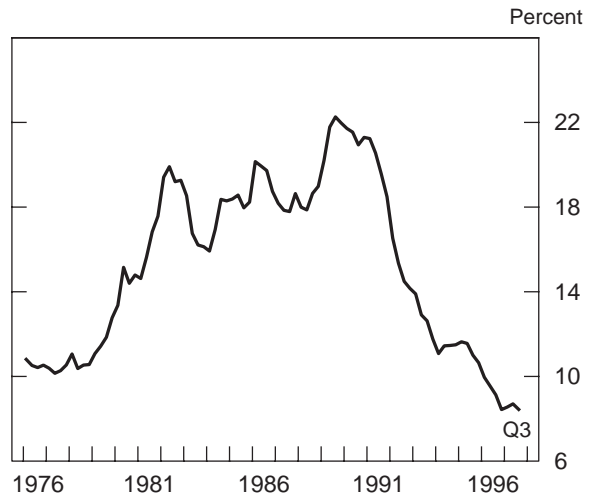
Before-Tax Profit Share of GDP



Note. Profits from the domestic operations of nonfinancial corporations, with inventory valuation and capital consumption adjustments, divided by the gross domestic product of the nonfinancial corporate sector.

Despite the rapid growth in profits, the financing gap for nonfinancial corporations—capital expenditures less internal cash flow—widened, reflecting the strong expansion of spending on capital equipment and inventories. Furthermore, on net, firms continued to retire a large volume of equity, adding further to borrowing needs, as substantial gross issuance was swamped by stock repurchases and merger-related retirements. Given these financing requirements, the growth of nonfinancial corporate debt picked up to more than a 7 percent rate last year.

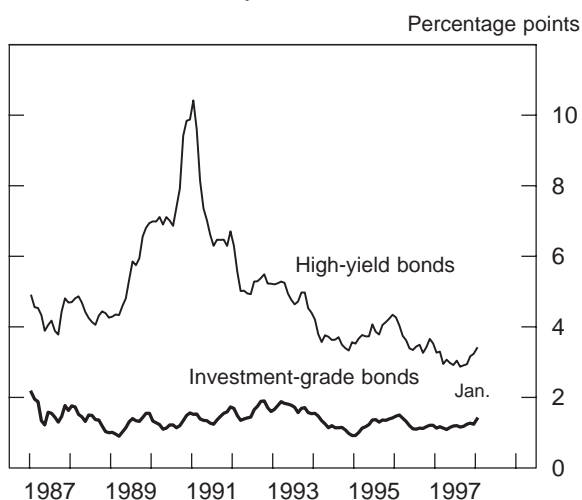
Net Interest Payments of Nonfinancial Corporations Relative to Cash Flow



With the debt of nonfinancial corporations advancing briskly, the ratio of their interest payments to cash flow was about unchanged last year, after several years of decline that had left it at quite a low level. Consequently, measures of debt-repayment difficulties also were very favorable last year: The default rate on corporate bonds remained extremely low, and the number of upgrades of debt about equaled the number of downgrades. Similarly, only small percentages of business loans at banks were delinquent or charged off. The rate of business bankruptcies increased a bit but was still fairly low.

Businesses continued to find credit amply supplied at advantageous terms last year. The spread between yields on investment-grade bonds and yields on Treasury securities of similar maturities remained narrow, varying only a little during the year. The spreads on below-investment-grade bonds fell over the year, touching new lows before widening a bit in the fall and early this year; the widening occurred in large part because these securities benefited less from the flight to U.S. assets in response to events in Asia

Spreads Between Yields on Private and Treasury Securities



Note. The spread on high-yield bonds compares the yield on Merrill Lynch Master II Index of high-yield bonds with that on a seven-year Treasury note; the spread on investment-grade bonds compares the yield on Moody's index of A-rated investment-grade bonds with that on a ten-year Treasury note.

than did Treasury securities. Banks also appeared eager to lend to businesses. Large percentages of the respondents to the Federal Reserve's surveys, citing stiff competition as the reason, said they had eased terms—particularly spreads—on business loans last year. Much smaller percentages reported having eased standards on these loans. The high ratios of stock prices to earnings suggest that equity finance was also quite cheap last year. Nevertheless, the market for initial public offerings of equity was cooler than in 1996—new issues were priced below the expected range more often than above it, and first-day trading returns were smaller on average.

The pickup in business borrowing was widespread across funding sources. Outstanding commercial paper, which had declined a bit in 1996, posted strong growth in 1997, as did bank business loans. Gross issuance of bonds was extremely high, particularly bonds with ratings below investment grade. Such lower-rated bonds made up nearly half of all issuance, a new record. Although sales of new investment-grade bonds slowed a bit in the fall, corporations were apparently waiting out the market volatility at that time, and issuance picked back up in January. Banks, real estate investment trusts, and commercial-mortgage-backed securities were the most significant sources of funds for income properties—residential apartments and commercial buildings—the financing of which expanded further last year.

The Government Sector

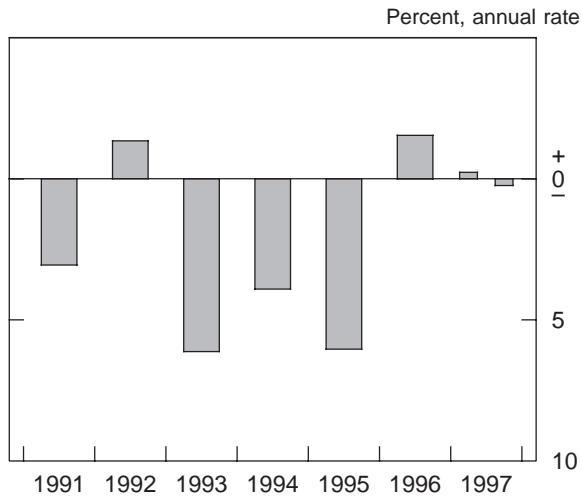
Federal Expenditures, Receipts, and Finance. Nominal outlays in the unified budget increased about 2½ percent in fiscal year 1997 after moving up 3 percent in fiscal 1996. Fiscal 1997 was the sixth consecutive year that the growth of spending was less than the growth of nominal GDP. During that period, spending as a percentage of nominal GDP fell from about 22½ percent to just over 20 percent. The set of factors that have combined to bring about this result includes implementation of fiscal policies aimed at reducing the deficit, which has helped slow the growth of discretionary spending and spending on some social and health services programs, and the strength of the economy, which has reduced outlays for income support.

In nominal terms, small to moderate increases were recorded in most major expenditure categories in fiscal 1997. Net interest outlays, which have been accounting for about 15 percent of total unified outlays in recent years, rose only a small amount in 1997, as did nominal outlays for defense and those for income security. Expenditures on Medicaid rose moderately for a second year after having grown very rapidly for many years; spending in this category has been restrained of late by the strong economy, the low rate of inflation in the medical area, and policy changes in the Medicaid program. Policy shifts and the strong economy also cut into outlays for food stamps, which fell about 10 percent in fiscal 1997. By contrast, spending on Medicare continued to rise at about three times the rate of total federal outlays. Growth of outlays for social security also exceeded the rate of rise of total expenditures.

Real federal outlays for consumption and gross investment, the part of federal spending that is counted in GDP, were unchanged, on net, from the last quarter of 1996 to the final quarter of 1997. Real outlays for defense, which account for about two-thirds of the spending for consumption and investment, declined slightly, offsetting a small increase in nondefense outlays. Because of much larger declines in most other recent years, the level of real defense outlays at the end of 1997 was down about 22 percent from its level at the end of the 1980s; total real outlays for consumption and investment dropped about 14 percent over that period.

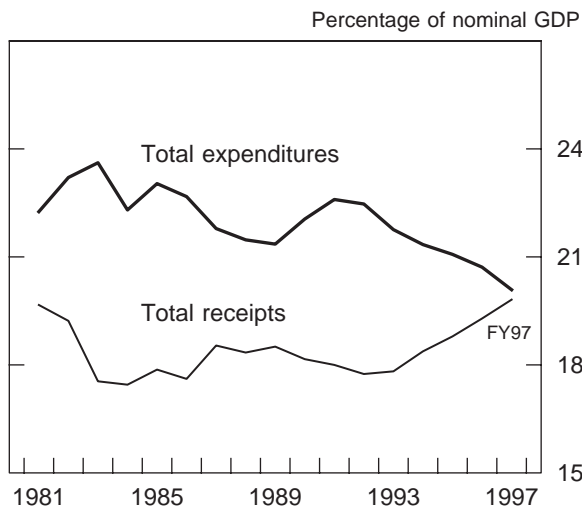
Federal receipts rose faster than nominal GDP for a fifth consecutive year in fiscal 1997; receipts were 19¾ percent of GDP last year, up from 17¾ percent in fiscal 1992. The ratio tends to rise during business expansions, mainly because of cycli-

Change in Real Federal Expenditures on Consumption and Investment



cal increases in the share of profits in nominal GDP. In the past couple of years, the ratio also has been boosted by the tax increases included in the Omnibus Reconciliation Act of 1993, by a rising income share of high-income taxpayers, and by receipts from surging capital gains realizations, which raise the numerator of the ratio but not the denominator because capital gains realizations are not part of GDP. In fiscal 1997, combined receipts from individual income taxes and social insurance taxes, which account for about 80 percent of total receipts, moved up about 9½ percent, even more than in fiscal 1996. Receipts from the taxes on corporate profits were up about 6 percent in fiscal 1997 after increasing about

Federal Receipts and Expenditures



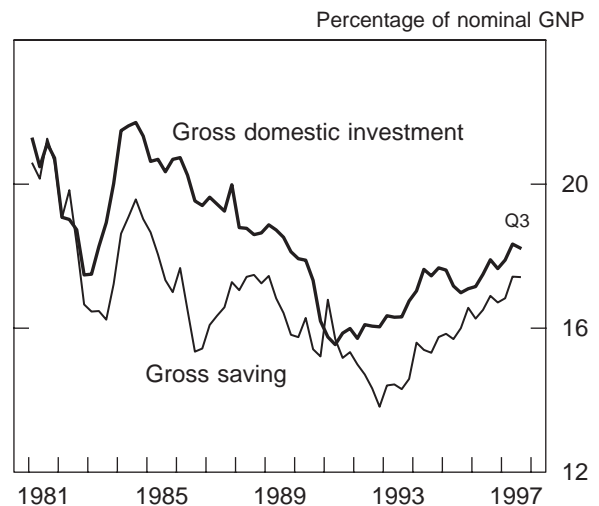
Note. Data on receipts and expenditures are from the unified budget and are for the fiscal year ended in September.

9½ percent in the preceding fiscal year. The total rise in receipts in fiscal 1997, coupled with the subdued rate of increase in nominal outlays, resulted in a budget deficit of \$22 billion, down from \$107 billion in the preceding fiscal year.

With the budget moving close to balance, federal borrowing slowed sharply last year. The Treasury responded to the smaller-than-expected borrowing need by reducing sales of bills in order to keep its auctions of coupon securities predictable and of sufficient volume to maintain the liquidity of the secondary markets. The result was an unusually large net redemption of bills, which at times pushed yields on short-term bills down relative to yields on other Treasury securities and short-term private obligations.

Last year saw the first issuance by the Treasury of inflation-indexed securities. The Treasury sold indexed ten-year notes in January and April of last year and again this January, and sold five-year notes in July and October; it also announced it would sell indexed thirty-year bonds this April. Investor interest in the securities at those auctions was substantial, with the ratios of received bids to accepted bids resembling those for nominal securities. As expected, most of the securities were quickly acquired by final investors, and the trading volume as a share of the outstanding amount has been much smaller than for nominal securities.

Saving and Investment



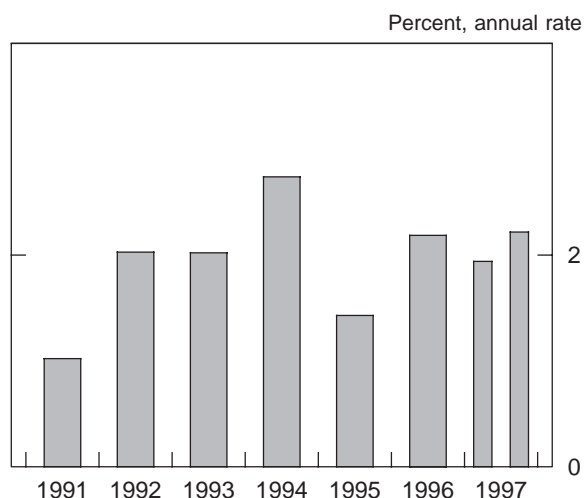
Note. Gross saving consists of saving of households, businesses, and governments. Gross domestic investment is the sum of gross private domestic investment and government investment. The gap between gross saving and gross domestic investment is equal to the sum of net foreign investment and the discrepancy between gross national income and gross national product. The narrowing of the gap in recent years is more than accounted for by a change in the amount of the discrepancy.

An important macroeconomic implication of the reduced federal deficit is that the federal government has ceased to be a negative influence on the level of national saving. The improvement in the federal government's saving position in recent years has more than accounted for a rise in the total gross saving of households, businesses, and governments, from about 14½ percent of gross national product earlier in the decade, when federal government saving was at a cyclical low and highly negative, to more than 17 percent in the first three quarters of 1997. This rise in domestic saving, along with increased borrowing from abroad, has financed the rise in domestic investment in this expansion. Still higher rates of saving and investment were the norm a couple of decades ago, when the personal saving rate was a good bit above its level in recent years.

State and Local Governments. The real outlays of state and local governments for consumption and investment moved up about 2 percent over the four quarters of 1997, similar to the average since the start of the 1990s. Investment expenditures, which have grown about 2½ percent per annum this decade, rose at only half that pace in 1997, according to the initial estimate. However, real consumption expenditures increased 2¼ percent last year, a touch above the average for the decade. Compensation of government employees, which accounts for about three-fifths of real consumption and investment expenditures, rose about 1¾ percent in 1997 and has increased at an annual rate of only about 1¼ percent since the end of the 1980s.

The efforts of state and local governments to hold down their labor expenses are also reflected in the

Change in Real State and Local Expenditures on Consumption and Investment



recent data on nominal wages and hourly compensation. According to the employment cost indexes, hourly compensation of the workers employed by state and local governments increased 2¼ percent in 1997, a little less than in 1996 and the smallest annual increase in the seventeen-year history of the series. The increase in the average hourly wage of state and local employees amounted to about 2¾ percent in 1997, roughly the same as the gain in 1996. The average hourly cost of the benefit packages provided to state and local employees rose only 1¼ percent, a percentage point less than the increase in 1996.

With costs contained and receipts continuing to rise with the growth of the economy, financial pressures that were evident among state and local governments earlier in the expansion have diminished. The increased breathing room in the budgets of recent years is apparent in the consolidated current account of these governments: Surpluses in that account, excluding those that are earmarked for social insurance funds, had dipped to a low of about 1½ percent of nominal receipts in 1991, but they have been larger than 3 percent of receipts in each of the past three years.

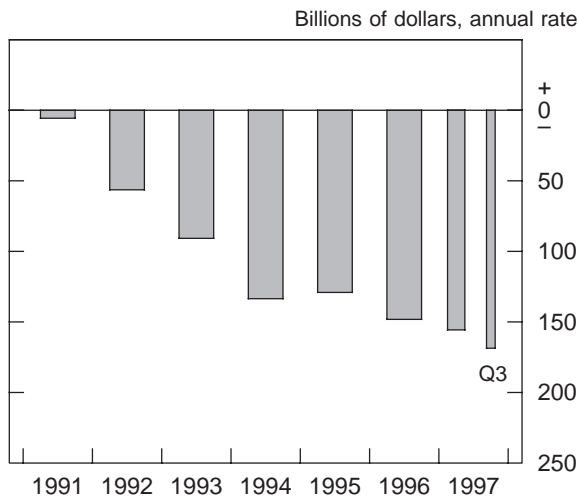
State and local debt expanded about 5¾ percent last year after changing little in 1996 and declining in the two preceding years. In those earlier years, municipal debt outstanding had been held down by the retirement of bonds that were “advance refunded” in the early 1990s. In such operations, funds that had earlier been raised and set aside were used to refund debt as it became callable. By the end of 1996, however, the stock of such debt had apparently been largely worked down.

External Sector

Trade and the Current Account. The nominal trade deficit for goods and services was \$114 billion in 1997, little changed from the \$111 billion deficit in 1996. For the first three quarters of the year, the current account deficit reached \$160 billion at an annual rate, somewhat wider than the 1996 deficit of \$148 billion. This deterioration of the current account largely reflects continued declines in net investment income, which for the first time recorded deficits in each of the first three quarters of the year.

The quantity of imports of goods and services expanded strongly during 1997—about 13 percent according to preliminary estimates—as the very rapid growth experienced during the first half of the year moderated slightly during the second half. The expan-

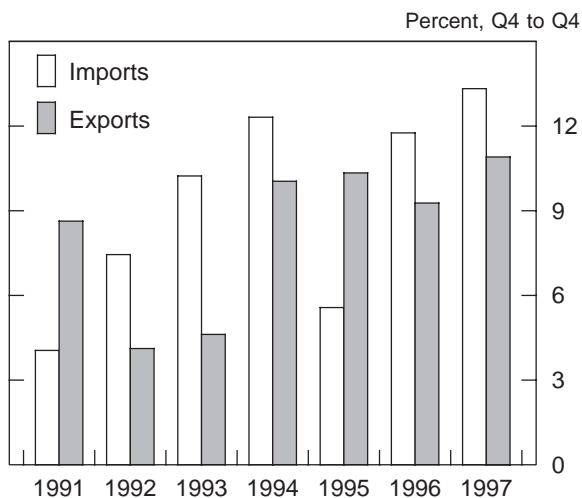
U.S. Current Account



sion was fueled by continued vigorous growth of U.S. GDP. Additional declines in non-oil import prices—related in large part to the appreciation of the dollar—contributed as well. Of the major trade categories, increases in imports were sharpest for capital goods and consumer goods.

Export growth was also strong in 1997, particularly during the first half of the year. The quantity of exports of goods and services rose nearly 11 percent, after a rise of 9¼ percent the preceding year. Despite further appreciation of the dollar, exports accelerated in response to the strength of economic activity abroad. Output growth in most of our industrial-country trading partners firmed in 1997 from the moderate rates observed in 1996. Among our developing-country trading partners, robust

Change in Real Imports and Exports of Goods and Services



growth continued through much of the year, but the onset of crises in several Asian economies late in 1997 led to abrupt slowdowns in economic activity. Growth of exports to Latin American countries and to Canada was particularly strong. Exports to Western Europe also increased at a healthy pace.

Capital Flows. In the first three quarters of 1997, large increases were reported in both foreign ownership of assets in the United States and U.S. ownership of assets abroad, reflecting the continued trend toward the globalization of both financial markets and the markets for goods. Little evidence of the gathering financial storm in Asia was apparent in the data on U.S. capital flows through the end of September. Foreign official assets in the United States rose \$46 billion in the first three quarters of 1997. The increases were concentrated in the holdings of certain industrial countries and members of OPEC. Although substantial, these increases were below the pace for the first three quarters of 1996.

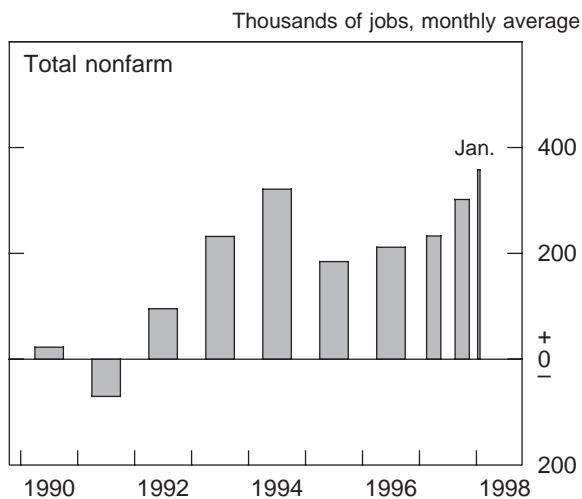
In contrast, increases in assets held by other foreigners in the first three quarters of 1997 surpassed those recorded in 1996. In particular, net purchases of U.S. Treasury securities by private foreigners rose to \$130 billion, net purchases of U.S. corporate and other bonds reached \$96 billion, and net purchases of U.S. stocks were a record \$55 billion. In addition, foreign direct investment in the United States also posted a new high of \$78 billion, as the strong pace of acquisitions of U.S. companies by foreigners continued.

U.S. direct investment abroad in the first three quarters of 1997 also exceeded the 1996 pace, with a record net outflow of \$88 billion. U.S. net purchases of foreign securities in the first three quarters of 1997 were \$74 billion, a little below the pace for 1996. However, net purchases of stocks in Japan and bonds in Latin America were up substantially. Banks in the United States reported a large increase in net claims on foreigners in the first quarter but only a modest increase in the next two quarters combined.

The Labor Market

Employment, Productivity, and Labor Supply. More than 3 million jobs were added to nonfarm payrolls in 1997—a gain of nearly 2¾ percent, measured from December to December. Patterns of hiring mirrored the broadly based gains in output and spending. Manufacturing, construction, trade, transportation, finance, and services all exhibited appreciable strength. In manufacturing, the

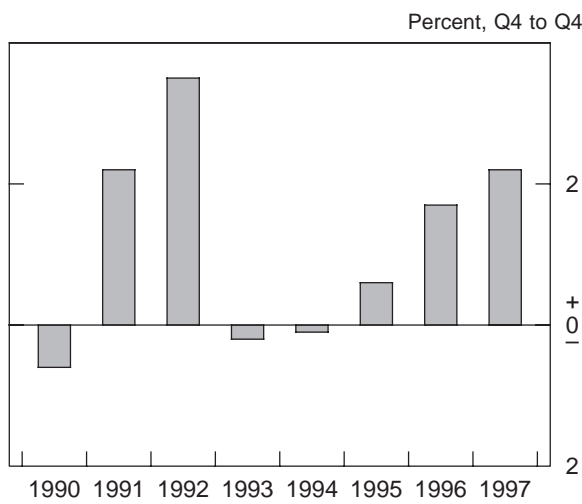
Change in Payroll Employment



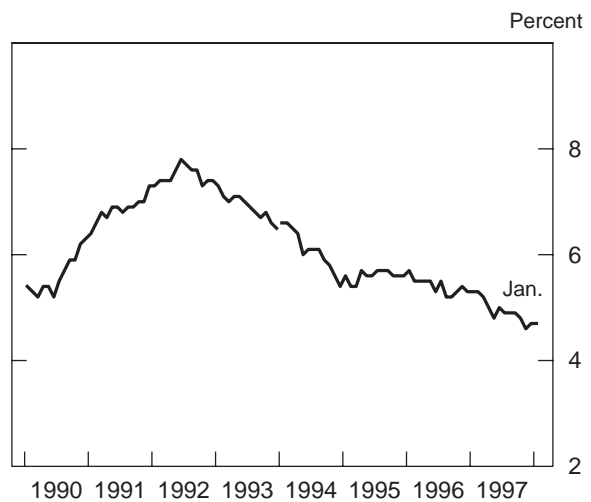
1997 rise in the job count followed two years of little change. Elsewhere, the gains in 1997 came on top of substantial increases in other recent years. Especially rapid increases were posted this past year in some of the services industries, including computer services, management services, education, and recreation. Employment at suppliers of personnel, a category that includes the agencies that supply help on a temporary basis, also increased appreciably in 1997, but the gains in this category fell considerably short of those seen in previous years of the expansion. Help-supply firms reported that shortages of workers were limiting the pace of their expansion.

Labor productivity has risen rapidly over the past two years. Revised data show the 1996 gain in output

Change in Output per Hour



Civilian Unemployment Rate



per hour in the nonfarm business sector to have been about $1\frac{3}{4}$ percent, and the increase in 1997 was larger still—about $2\frac{1}{4}$ percent, according to the first round of estimates. Although the average rate of productivity increase since the end of the 1980s still is only a little above 1 percent per year, the data for the past two years provide hopeful indications that sustained high levels of investment in new technologies may finally be translating into a stronger trend.

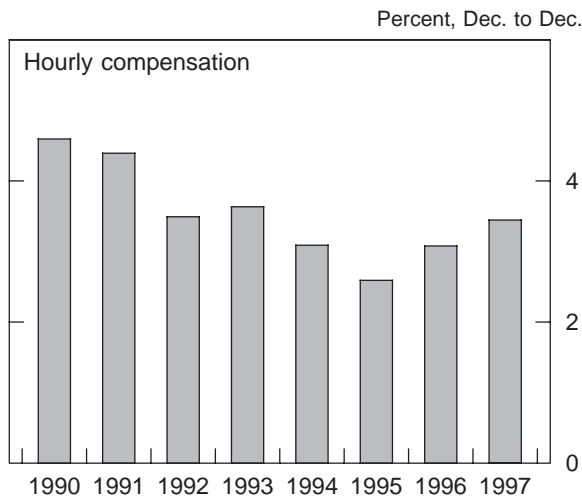
The civilian unemployment rate fell more than $\frac{1}{2}$ percentage point from the fourth quarter of 1996 to the fourth quarter of 1997, to an average of just under $4\frac{3}{4}$ percent. The rate held steady at this level in January of this year. For most of the past year, the rate has been running somewhat below the minimum that was reached in the expansion of the 1980s. A variety of survey data indicate that firms have had increased difficulty filling jobs.

After moving up a step in 1996, the labor force participation rate continued to edge higher in 1997. Without the increment to labor supply from increased participation over these two years, the unemployment rate would have fallen to an even lower level. Changes in the welfare system perhaps contributed to some extent to the small rise in participation in 1997, although this effect is difficult to disentangle from the normal tendency of participation to rise when the labor market is tight. Even though one-third of the adult population remained outside the labor force in 1997, the vast majority of those individuals likely were in pursuits that tended to preclude their workforce participation, such as retirement, schooling,

or housework. The percentage of the working age population interested in work but not actively seeking it moved down further in 1997, to 2¼ percent in the fourth quarter, a record low in the history of the series, which began in 1970.

Wages and Hourly Compensation. According to the employment cost indexes, hourly compensation in private industry increased 3.4 percent from December of 1996 to December of 1997. This rise exceeded that of the previous year by 0.3 percentage point and was 0.8 percentage point greater than the increase of 1995. Although the patterns of change in hourly pay have varied quite a bit by industry and occupation over the past two years, the overall step-up seems to have been prompted, in large part, by the tightening of labor markets. The implementation of a higher minimum wage also seems to have been a factor in some industries and occupations, although its impact is difficult to assess precisely.

Change in Employment Cost Index



The wage and salary component of hourly compensation rose faster in 1997 than in any previous year of the expansion. Annual increases in the employment cost index for wages and salaries in private industry amounted to 2.8 percent in both 1994 and 1995, but the increases of 1996 and 1997 were 3.4 percent and 3.9 percent respectively. Wages and salaries in the service-producing industries accelerated nearly a full percentage point in 1997, pushed up, especially, by sharp pay increases in the finance, insurance, and real estate sector, in which commissions and bonuses have recently been boosted by

high levels of mortgage refinancing and trading activity. By contrast, hourly wages in the goods-producing industries slowed a couple of tenths of a percentage point in 1997; the annual gains in these industries have been around 3 percent, on average, in each of the past six years.

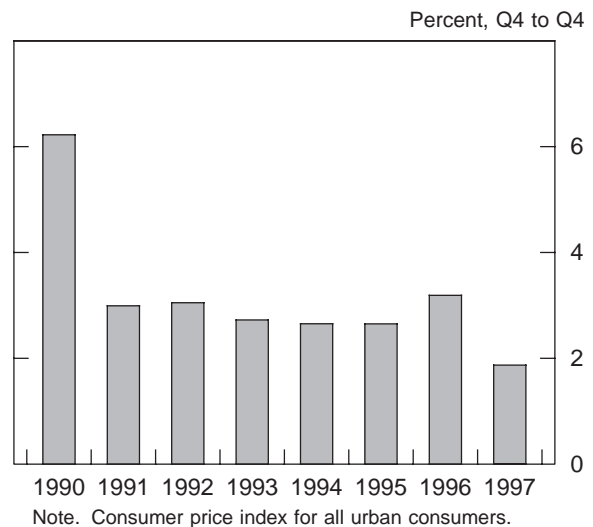
Although the costs of the fringe benefits that companies provide to their employees also picked up in 1997, the yearly increase of 2.3 percent was not large by historical standards. As in other recent years, benefit costs in 1997 were restrained by a variety of influences. Most notably, the price of health care continued to rise at a subdued pace, and the ongoing strength of the economy limited the need for payments by firms to state unemployment trust funds. Even though some firms reported seeing renewed sharp increases in health care costs during the year, the employment cost data suggest that most firms still were keeping those costs under fairly tight control.

With nominal hourly compensation in almost all industries moving ahead at a faster pace than inflation, workers' pay generally increased in real terms, and the real gains were substantial in many occupations. Indeed, the employment cost index does not capture some of the forms of compensation that employers have been using to attract and retain workers—stock options and signing bonuses, for example.

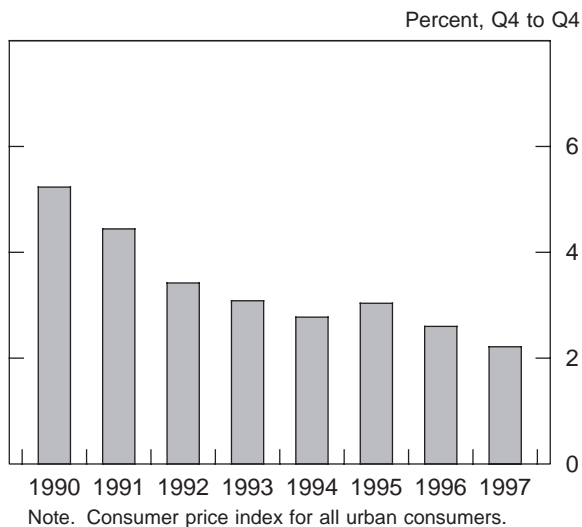
Prices

Indications of a slowing of inflation in 1997 were widespread in the various measures of aggregate price change. The consumer price index, which had picked

Change in Consumer Prices



Change in Consumer Prices Excluding Food and Energy



up to more than a 3 percent rate of rise over the four quarters of 1996, increased slightly less than 2 percent over the four quarters of 1997 as energy prices turned down and increases in food prices slowed. The CPI excluding food and energy—a widely used gauge of the underlying trend of inflation—rose only 2¼ percent in 1997 after increases of 3 percent in 1995 and 2½ percent in 1996. The CPI for commodities other than food and energy rose about ½ percent over the four quarters of 1997 after moving up slightly more than 1 percent in 1996. Price increases for non-energy services, which have a much larger weight than commodities in the core CPI, also slowed a little in 1997; a 3 percent rise

during the year was about ¼ percentage point less than the increase during 1996. Only small portions of the slowdowns between 1996 and 1997 in the total CPI and in the CPI excluding food and energy were the result of technical changes implemented by the Bureau of Labor Statistics.¹

Other measures of aggregate price change also decelerated in 1997. The chain-type price index for gross domestic purchases—the broadest measure of prices paid by U.S. households, businesses, and governments—increased about 1½ percent during 1997 after moving up 2¼ percent in 1996. The chain-type price index for gross domestic product, a measure of price change for the goods and services produced in this country (rather than the goods and services purchased), increased 1¾ percent in the latest year after rising 2¼ percent in 1996. The steeper slowing of the price index for aggregate purchases relative to that for aggregate production was largely a reflection of the prices of imports, which fell faster in 1997 than in 1996. Falling computer prices were an important influence on many of these measures of aggregate price change—more

1. Over the past three years, the Bureau of Labor Statistics has introduced a number of technical changes in its procedures for compiling the CPI, with the aim of obtaining a more accurate measure of price change. Typically, the changes have only a small effect on the results for any particular year, but their cumulative effects are somewhat larger and are tending to hold down the reported increases of recent years relative to what would have been reported with no changes in procedures. Apart from the procedural changes, the reported rate of rise from 1998 forward will also be affected by an updating of the CPI market basket, an action that the BLS undertakes approximately every ten years.

Alternative Measures of Price Change

Percent

Price measure	1996	1997
<i>Fixed weight</i>		
Consumer price index	3.2	1.9
Excluding food and energy	2.6	2.2
<i>Chain type</i>		
Personal consumption expenditures	2.7	1.5
Excluding food and energy	2.3	1.6
Gross domestic purchases	2.3	1.4
Gross domestic product	2.3	1.8

Note. Changes are based on quarterly averages and are measured to the fourth quarter of the year indicated from the fourth quarter of the previous year.

so than on the CPI, which gave small weight to computers through 1997 but has started weighting them more heavily this year.

In real terms, imports of goods and services account for approximately 15 percent of the total purchases of households, businesses, and governments located in the United States. But that figure probably understates the degree of restraint that falling import prices have imposed on domestic inflation, because the lower prices for imports also make domestic producers of competing products less likely to raise prices. Prices have also been restrained by large additions to manufacturing capacity in this country, amounting to more than 5 percent in each of the past three years; this capacity growth helped to stave off the bottlenecks that so often have developed in the more advanced stages of other postwar business expansions. A gain in manufacturing production of more than 6 percent this past year was accompanied by only a moderate increase in the factory operating rate, which, at year-end, remained well below the highs reached in other recent expansions and the peak for this expansion, which was recorded about three years ago.

Reflecting the ample domestic supply and the effects of competition from goods produced abroad, the producer price index for finished goods declined about $\frac{3}{4}$ percent from the fourth quarter of 1996 to the fourth quarter of 1997; excluding food and energy, it rose only fractionally. Prices of domestically produced materials (other than food and energy) also rose only slightly, on net. The prices of raw industrial commodities, many of which are traded in international markets, declined over the year; the weakness of prices in these markets was especially pronounced in late 1997, when the crises in Asia were worsening. Industrial commodity prices fell further in the first couple of weeks of 1998, but they since have changed little, on balance. The producer price index fell sharply in January of this year; the index excluding food and energy declined slightly.

After moving up more than 4 percent in 1996, the consumer price index for food increased only $1\frac{3}{4}$ percent in 1997. Impetus for the large increase of 1996 had come from a surge in the price of grain, which peaked around the middle of that year; since then, grain prices have dropped back considerably. An echo of the up-and-down price pattern for grains appeared at retail in the form of sharp price increases for meats, poultry, and dairy products in 1996 followed by small to moderate declines for most of those products in 1997. Moderate price increases were

posted at retail for most other food categories last year.

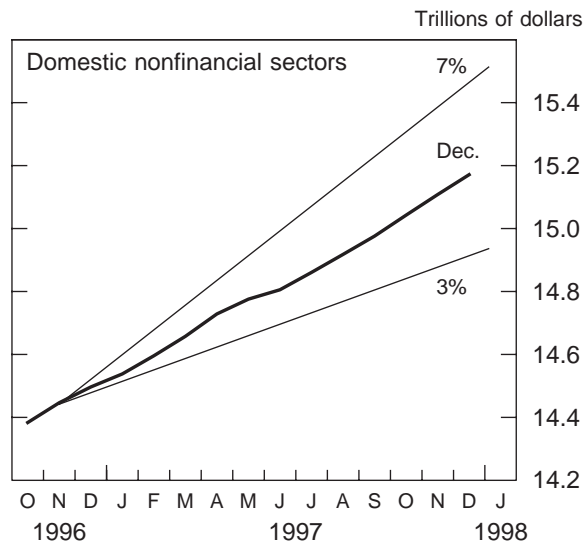
The CPI for energy has traced out an even bigger swing than the price of food over the past two years—a jump of $7\frac{1}{2}$ percent over the four quarters of 1996 was followed by a decline of about 1 percent over the four quarters of 1997. As is usually the case in this sector, the key to these developments was the price of crude oil, which in 1997 more than reversed the run-up of the preceding year. Prices of oil have been held down in recent months by ample world supplies, the economic problems in Asia, and a mild winter.

Survey data on inflation expectations mostly showed moderate reductions during 1997 in respondents' views of the future rate of price increase, and some of the survey data for early 1998 have shown a more noticeable downward shift in inflation expectations. A lowering of inflation expectations has long been viewed as an essential ingredient in the pursuit of price stability, and the recent data are a sign that progress is still being made in that regard.

Credit, Money, Interest Rates, and Equity Prices

Credit and Depository Intermediation. The debt of the domestic nonfinancial sectors grew at a $4\frac{3}{4}$ percent rate last year, somewhat below the midpoint of the range established by the FOMC and less than in 1996, when it grew $5\frac{1}{4}$ percent. The deceleration was accounted for entirely by the

Debt: Annual Range and Actual Level



federal component, which, because of the reduced budget deficit, rose less than 1 percent last year, after having risen 3¾ percent in 1996. Nonfederal debt grew 6 percent, a bit more than in 1996, as the pickup in business borrowing more than offset the deceleration of household debt.

Depository institutions increased their share of credit flows in 1997, with credit on their books expanding 5¾ percent, up appreciably from growth in 1996. The growth of bank credit, adjusted to remove the effects of mark-to-market accounting rules, accelerated to an 8¼ percent pace, the largest rise in ten years; and banks' share of domestic nonfinancial debt outstanding climbed to its highest level since 1988. Bank credit accelerated in part because banks' hold-

ings of securities—which had run off in 1995 and had been flat in 1996—expanded at a brisk pace last year; securities account for one-fourth of total bank credit. Loans, which make up the remainder of bank credit, also advanced a bit more quickly last year than in 1996, though more slowly than in 1995.

The increase in bank loans occurred despite a net decline in consumer loans on banks' books resulting both from sharply slower growth in loans originated by banks and from continued securitization of those loans. Real estate loans at banks, by contrast, posted solid growth last year. This category of credit benefited from a pickup in home mortgages, the rapid growth in home equity loans, which were substituting in part for consumer loans, an acceleration in

Growth of Money and Debt

Percent

Period	M1	M2	M3	Domestic nonfinancial debt	
<i>Annual¹</i>					
1987	6.3	4.2	5.8	9.9	
1988	4.3	5.7	6.3	8.9	
1989	0.5	5.2	4.0	7.8	
1990	4.2	4.1	1.8	6.8	
1991	7.9	3.1	1.2	4.5	
1992	14.4	1.8	0.6	4.7	
1993	10.6	1.3	1.1	5.1	
1994	2.5	0.6	1.7	5.1	
1995	-1.6	3.9	6.1	5.4	
1996	-4.5	4.6	6.9	5.2	
1997	-1.2	5.6	8.7	4.7	
<i>Quarterly (annual rate)²</i>					
1997	Q1	-1.4	5.1	8.0	4.3
	Q2	-4.5	4.4	7.7	4.7
	Q3	0.3	5.4	8.1	4.1
	Q4	0.8	6.8	9.8	5.2

Note. M1 consists of currency, travelers checks, demand deposits, and other checkable deposits. M2 consists of M1 plus savings deposits (including money market deposit accounts), small-denomination time deposits, and balances in retail money market funds. M3 consists of M2 plus large-denomination time deposits, balances in institutional money market funds, RP liabilities (overnight and term), and Eurodollars (overnight and term). 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.

1. From average for fourth quarter of preceding year to average for fourth quarter of year indicated.

2. From average for preceding quarter to average for quarter indicated.

commercial real estate lending, and the acquisition of thrift institutions by banks. Commercial and industrial loans expanded considerably last year, reflecting both the general rise in the demand by businesses for funds and an increase in banks' share of the nonmortgage business credit market as they competed vigorously for business loans by easing terms.

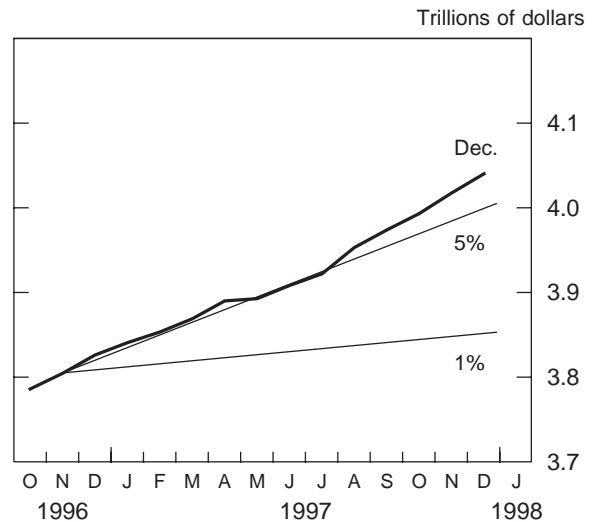
The rapid growth of banks' assets was facilitated by their continued high profitability and abundance of capital; at the end of the third quarter, nearly 99 percent of bank assets were at well-capitalized institutions. Problems with the repayment performance of consumer loans—which, while not deteriorating further, remained elevated by historical standards—hurt some banks; however, overall loan delinquency and charge-off rates stayed quite low, and measures of banks' profitability persisted at the elevated levels they have occupied for several years. Profits at a few large bank holding companies were reduced in the fourth quarter by trading losses resulting from the events in Asia. Nonetheless, the profits of the industry as a whole remained robust.

The profits and capital levels of thrift institutions, like those of banks, were high last year, and the thrifts also were aggressive lenders. The outstanding amount of credit extended by thrifts grew at about a 1½ percent pace last year, but this sluggishness reflected entirely the acquisitions of thrifts by commercial banks; among thrifts not acquired during the year, asset growth was similar to that of banks.

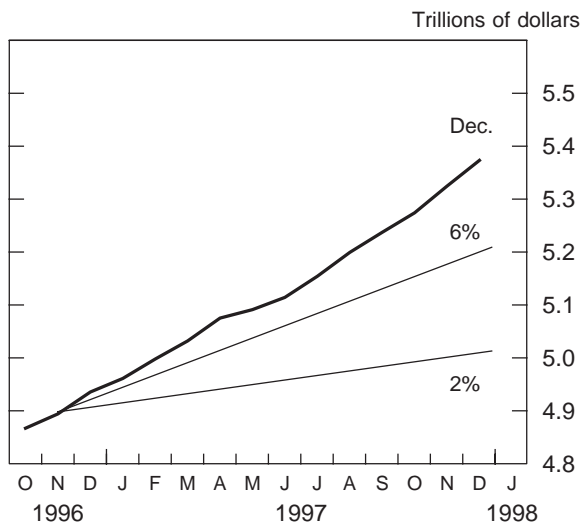
The Monetary Aggregates. Boosted in part by the need to fund substantial growth in depository

credit, M3 shot up last year, expanding 8¾ percent; this growth was well above the 2 percent to 6 percent annual range, which was intended to suggest the rate of growth over the long run consistent with price stability. M3 was augmented by a shift in sources of funding—mostly at U.S. branches and agencies of foreign banks—from borrowings from related offices abroad, which are not included in M3, to large time deposits issued in the United States, which are. Also contributing to the strength in M3 was rapid growth in institution-only money funds, which reflected gains by these funds in the provision of corporate cash management services. Corporations that manage their own cash often keep their funds in short-term assets that are not included in M3.

M2: Annual Range and Actual Level



M3: Annual Range and Actual Level



Although growth of M2 did not match that of M3, it increased at a brisk 5½ percent rate last year. As the Committee had anticipated, the aggregate was somewhat above the upper bound of its 1 percent to 5 percent annual range, which also had been chosen to be consistent with expected M2 growth under conditions of price stability. Because short-term interest rates responded only slightly to System tightening in March, the opportunity cost of holding M2—the interest earnings forgone by owning M2 assets rather than money market instruments such as Treasury bills—was about unchanged over the year. As M2 grew at about the same rate as nominal GDP, velocity was also essentially unchanged. The ups and downs of M2 growth last year mirrored those of the growth in nominal output. M2 expanded much more slowly in the second quarter than in the first,

consistent with the cooling of nominal GDP growth and almost unchanged opportunity costs. In the second half of the year, M2 growth picked up, again pacing the growth of nominal GDP. In the fall, M2 may also have been boosted a little by the volatility in equity markets, which may have led some households to seek the relative safety of M2 assets.

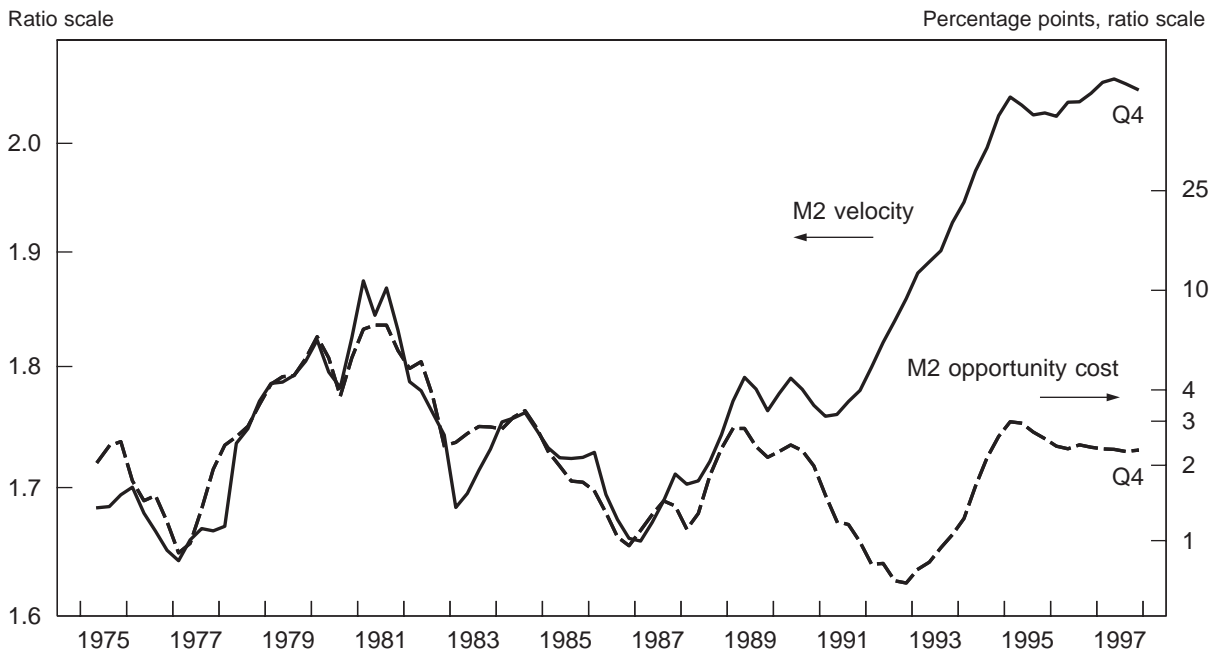
For several decades before 1990, M2 velocity responded positively to changes in its opportunity costs and otherwise showed little net movement over time. This pattern was disturbed in the early 1990s in part by households' apparent decision to shift funds out of lower-yielding M2 deposits into higher-yielding stock and bond mutual funds, which raised M2 velocity even as opportunity costs were declining. The movements in the velocity of M2 from 1994 into 1997 appear to have again been explained by changes in opportunity costs, along with some residual upward drift. This drift suggests that some households may still have been in the process of shifting their portfolios toward non-M2 assets. There was no uptrend in velocity over the second half of last year, perhaps because of the declining yields on intermediate- and long-term debt and the greater volatility and lower average returns posted by stock mutual funds. However, given the aberrant behavior of velocity during the 1990s in general, considerable uncertainty remains about the relationship

between the velocity and opportunity cost of M2 in the future.

M1 fell 1¼ percent last year. As has been true for the last four years, the growth of this aggregate was depressed by the adoption by banks of retail sweep programs, whereby balances in transactions accounts, which are subject to reserve requirements, are "swept" into savings accounts, which are not. Sweep programs benefit depositories by reducing their required reserves, which earn no interest. At the same time, they do not restrict depositors' access to their funds for transactions purposes, because the funds are swept back into transactions accounts when needed. The initiation of programs that sweep funds out of NOW accounts—until last year the most common form of retail sweep programs—appears to be slowing, but sweeps of household demand deposits have picked up, leaving the estimated total amount by which sweep account balances increased last year similar to that in 1996. Adjusted for the initial reduction in transactions accounts resulting from the introduction of new sweep programs, M1 expanded 6¼ percent, a little above its sweep-adjusted growth in 1996.

The drop in transactions accounts caused required reserves to fall 7¼ percent last year. Despite this decline, the monetary base grew 6 percent, boosted

M2 Velocity and the Opportunity Cost of Holding M2



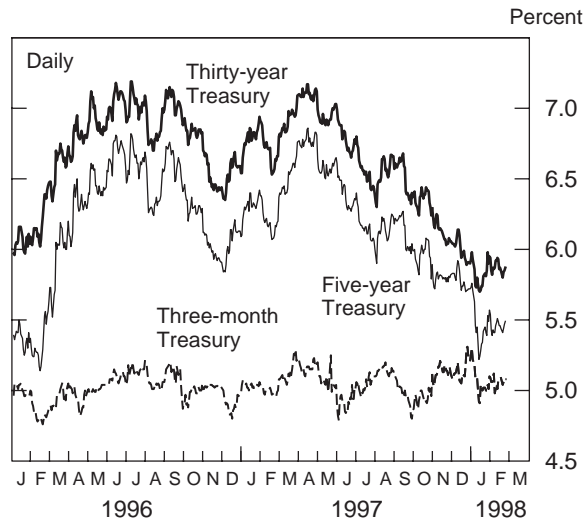
Note. M2 opportunity cost is a two-quarter moving average of the three-month Treasury bill rate less the weighted-average rate paid on M2 components.

by a hefty advance in currency. Currency again benefited from foreign demand, as overseas shipments continued at the elevated levels seen in recent years. Moreover, domestic demand for currency expanded sharply in response to the strong domestic spending.

The Federal Reserve has been concerned that as the steady decline in required reserves of recent years is extended, the federal funds rate may become significantly more volatile. Required reserves are fairly predictable and must be maintained on only a two-week average basis. As a result, the unavoidable daily mismatches between reserves made available through open market operations and desired reserves typically have been fairly small, and their effect on the federal funds rate has been muted. However, banks also hold reserve balances at the Federal Reserve to avoid overdrafts after making payments for themselves and their customers. This component of the demand for reserves is difficult to predict, varies considerably from day to day, and must be fully satisfied each day. As required reserves have declined, the demand for balances at the Federal Reserve has become increasingly dominated by these more changeable daily payment-related needs. Nonetheless, federal funds volatility did not increase noticeably last year. In part this was because the Federal Reserve intervened more frequently than in the past with open market operations of overnight maturity in order to better match the supply of and demand for reserves each day. In addition, banks made greater use of the discount window, increasing the supply of reserves when the market was excessively tight. Significant further declines in reserve balances, however, do risk increased federal funds rate volatility, potentially complicating the money market operations of the Federal Reserve and of the private sector. One possible solution to this problem is to pay banks interest on their required reserve balances, reducing their incentive to avoid holding such balances.

Interest Rates and Equity Prices. Interest rates on intermediate- and long-term Treasury securities moved lower, on balance, last year. Yields rose early in the year as market participants became concerned that strength in demand would further tighten resource utilization margins and increase inflation unless the Federal Reserve took countervailing action. Over the late spring and summer, however, as growth moderated some and inflation remained subdued, these concerns abated significantly, and longer-term interest rates declined. Further reductions came in the latter part of the year as economic problems mounted in Asia. On balance,

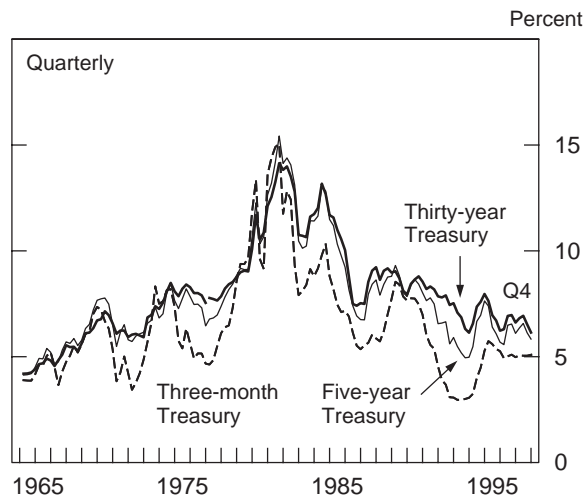
Selected Treasury Rates



between the end of 1996 and the end of 1997, the yields on ten-year and thirty-year Treasury bonds fell about 70 basis points. Early this year, with the economic troubles in Asia continuing, the desire of investors for less risky assets, along with further reductions in the perceived risk of strong growth and higher inflation, pushed yields on intermediate- and long-term Treasury securities down an additional 25 to 50 basis points, matching their levels of the late 1960s and the early 1970s, when the buildup of inflation expectations was in its early stages.

Survey measures of expectations for longer-horizon inflation generally did move lower last year, but by less than the drop in nominal yields. As a

Selected Treasury Rates

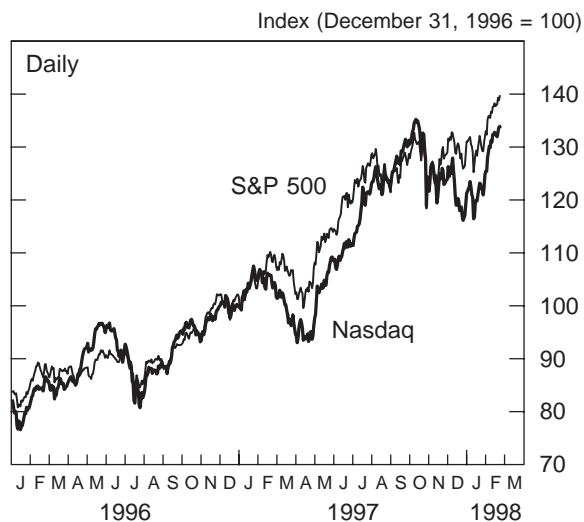


Note. The twenty-year Treasury bond rate is shown until the first issuance of the thirty-year Treasury bond in February 1977.

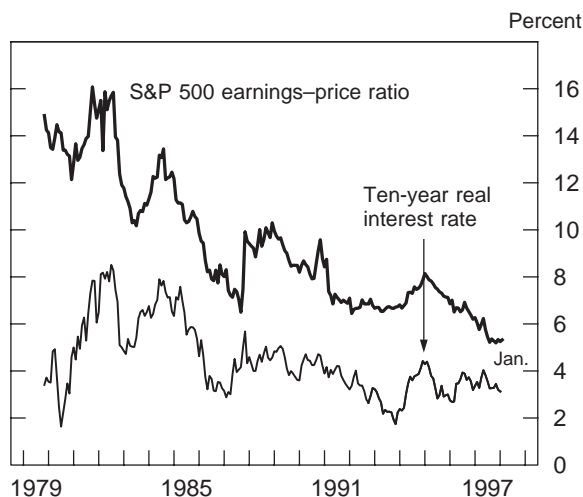
result, estimates of the real longer-term interest rate calculated by subtracting these measures of expected inflation from nominal yields indicate a slight decline in real rates over the year. In contrast, yields on the inflation-indexed ten-year Treasury note rose about a quarter percentage point between mid-March (when market participants seem to have become more comfortable with the new security) and the end of the year. The market for the indexed securities is sufficiently small that their yields can fluctuate temporarily as a result of moderate shifts in supply or demand. Indeed, much of the rise in the indexed yield came late in the year, when, in an uncertain global economic environment, investors' heightened desire for liquidity may have made nominal securities relatively more attractive.

With real interest rates remaining low and corporate profits growing strongly, equities had another good year in 1997, and major stock indexes rose 20 percent to 30 percent. Although stocks began the year well, they fell with the upturn in interest rates in February. As interest rates subsequently declined and earnings reports remained quite upbeat, the markets again advanced, with most broad indexes of stock prices reaching new highs in the spring. Advances were much more modest, on balance, over the second half of the year. Valuations seemed already to have incorporated very robust earnings growth, and in October, deepening difficulties in Asia evidently led investors to lower their expectations for the earnings of some U.S. firms, particularly high-technology firms and money center banks. More rapid price advances have resumed of late, as

Major Stock Price Indexes



Equity Valuation and Long-Term Interest Rate



Note. The earnings-price ratio is based on the I/B/E/S International, Inc., consensus estimate of earnings over the coming twelve months. The real interest rate is the yield on the ten-year Treasury note less the ten-year inflation expectations from the Philadelphia Federal Reserve Survey of Professional Forecasters.

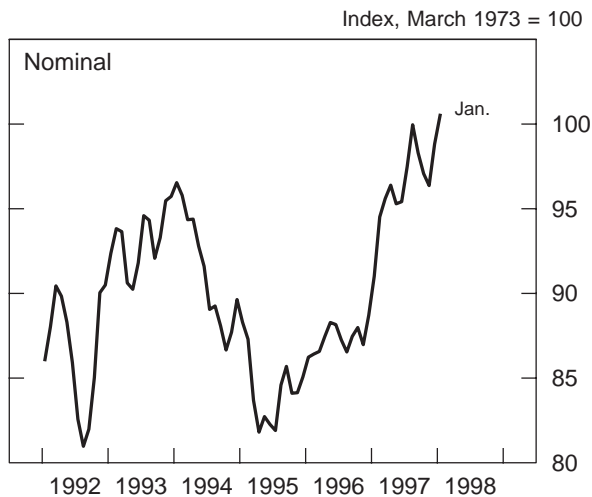
interest rates fell further and investors apparently came to see the earnings consequences of Asian difficulties as limited.

Despite the strong performance of earnings and the slower rise of stock prices since last summer, valuations seem to reflect a combination of expectations of quite rapid future earnings growth and a historically small risk premium on equities. The gap between the market's forward-looking earnings-price ratio and the real interest rate, measured by the ten-year Treasury rate less a survey measure of inflation expectations, was at the smallest sustained level last year in the eighteen-year period for which these data are available. Declines in this gap generally imply either that expected real earnings growth has increased or that the risk premium over the real rate investors use when valuing those earnings has fallen, or both. Survey estimates of stock analysts' expectations of long-term nominal earnings growth are, in fact, the highest observed in the fifteen years for which these data are available. Because inflation has trended down over the past fifteen years, the implicit forecast of the growth in real earnings departs even further from past forecasts. However, even with this forecast of real earnings growth, the current level of equity valuation suggests that investors are also requiring a lower risk premium on equities than has generally been the case in the past, a hypothesis supported by the low risk premiums evident in corporate bond yields last year.

International Developments

The foreign exchange value of the dollar rose during 1997 in terms of the currencies of most of the United States' trading partners. From the end of December 1996 through the end of December 1997, the dollar on average gained 13 percent in nominal terms against the currencies of the other G-10 countries when those currencies are weighted by multilateral trade shares. In terms of a broader index of currencies that includes those of most industrial countries and several developing countries, the dollar on balance rose nearly 14 percent in real terms during 1997.² The trading desk of the New York Federal Reserve Bank did not intervene in foreign exchange markets during 1997.

Weighted Average G-10 Exchange Value of the U.S. Dollar



Note. In terms of the currencies of the other G-10 countries. Weights are based on 1972-76 global trade of each of the ten countries.

During the first half of 1997, the dollar appreciated in terms of the currencies of the other industrial countries, as the continuing strength of U.S. economic activity raised expectations of further tightening of U.S. monetary conditions. Concerns about the implications of the transition to European Monetary Union and perceptions that monetary policy was not likely to tighten significantly in prospective member countries also contributed to the tendency for the dollar to rise in terms of the

2. This index weights currencies in terms of the importance of each country in determining the global competitiveness of U.S. exports and adjusts nominal exchange rates for changes in relative consumer prices.

mark and other continental European currencies. In response to varying indicators of the strength of the Japanese expansion, the dollar rose against the yen early in the year but then moved back down through midyear.

The crises in Asian financial markets dominated developments during the second half of the year and resulted in substantial appreciation of the dollar in terms of the currencies of Korea and several countries in Southeast Asia. The dollar also appreciated against the yen in response to evidence of financial sector fragility in Japan and faltering Japanese economic activity, which were likely to be exacerbated by the negative impact of the Asian situation on Japan. During the first weeks of 1998, the dollar has changed little, on average, in terms of the currencies of most other industrial countries, but it has moved down in terms of the yen.

Pronounced asset-price fluctuations in Southeast Asia began in early July when the Thai baht dropped sharply immediately following the decision by authorities to no longer defend the baht's peg. Downward pressure soon emerged on the currencies and equity prices of other southeast Asian countries, in particular Indonesia and Malaysia. Weakening balance sheet positions of nonfinancial firms and financial institutions, rising debt-service burdens, and financial market stresses that resulted in part from policies of pegging local currencies to the appreciating dollar prompted closer scrutiny of Asian economies. As foreign creditors came to realize the extent to which these Asian financial systems were undercapitalized and inadequately supervised, they became less willing to continue to lend, making it even more difficult for the Asian borrowers to meet their foreign currency obligations. Turbulence spread to Hong Kong in October. The depreciation of currencies elsewhere in Asia, in particular the decision by Taiwanese authorities to allow some downward adjustment of the Taiwan dollar, led market participants to question the commitment of Hong Kong authorities to the peg of the Hong Kong dollar to the U.S. dollar. In response, the Hong Kong Monetary Authority raised domestic interest rates substantially to defend the peg, driving down equity prices as a consequence. Near the end of the year, the crisis spread to Korea, whose economy and financial system were already vulnerable as a result of numerous bankruptcies of corporate conglomerates starting in January 1997; these bankruptcies of major nonfinancial firms further undermined Korean financial institutions and, combined with the depreciations in competitor countries, contributed to a loss of invest-

tor confidence. On balance, during 1997 the dollar appreciated significantly in terms of the Indonesian rupiah (139 percent), the Korean won (100 percent), and the Thai baht (82 percent), while it moved up somewhat less in terms of the Taiwan dollar (19 percent) and was unchanged in terms of the Hong Kong dollar, which remains pegged to the U.S. dollar. Since year-end, the dollar has appreciated significantly further, on balance, in terms of the Indonesian rupiah and is little changed in terms of the Korean won.

The emergence of the financial crisis is causing a marked slowdown in economic activity in these Asian economies. During the first half of last year, real output continued to expand in most of these countries at about the robust rates enjoyed in 1996. Since the onset of the crisis, domestic demand in these countries has been greatly weakened by disruption in financial markets, substantially higher domestic interest rates, sharply reduced credit availability, and heightened uncertainty. In addition, macroeconomic policy has been tightened somewhat in Thailand, the Philippines, Indonesia, and Korea in connection with international support packages from the International Monetary Fund and other international financial institutions, and in connection with bilateral aid from individual countries. Announcement of agreement with the IMF on the support packages temporarily buoyed asset markets in each country, but concerns about the willingness or ability of governments to undertake difficult reforms and to achieve the stated macroeconomic goals remained. Additional measures to tighten the Korean program were announced in mid-December and included improved reserve management by the Bank of Korea, removal of certain interest rate ceilings, and acceleration of capital account liberalization and financial sector restructuring. With the encouragement of the authorities of the G-7 and other countries, banks in industrial countries have generally rolled over the majority of their foreign-currency-denominated claims on Korean banks during early 1998, as a plan for financing the external obligations of Korean financial institutions was being formulated. After the announcement on January 28 of an agreement in principle for the exchange of existing claims on Korean banks for restructured loans carrying a guarantee from the Korean government, the won stabilized. In the case of Indonesia, the support package was renegotiated and reaffirmed with the IMF in mid-January, though important elements of the approach of the Indonesian authorities remain in question as this report is submitted.

Signs that adjustment is proceeding within these Asian economies are already evident. For example, Thailand and Korea have registered strong improvements in their trade balances in recent months. Equity prices have recovered in Thailand, Indonesia, and Korea as well. At the same time, signs of rising inflation are beginning to emerge. In particular, consumer prices have accelerated in recent months in these three countries.

Spillover of the financial crisis to the economies of China, Hong Kong, and Taiwan has been limited to date. Steps to maintain the peg in Hong Kong have resulted in elevated interest rates, sharply lower equity prices, and increased uncertainty. However, in Taiwan, equity prices on balance rose nearly 18 percent in 1997 and have risen somewhat further so far this year. Real output growth in these three economies remained robust early in 1997 but may have slowed somewhat in China and Hong Kong in recent months.

Financial markets in some Latin American countries also came under pressure in reaction to the intensification of the crises in Asia in late 1997. After remaining quite stable earlier in the year, the Mexican peso dropped about 8 percent in terms of the U.S. dollar in late October; since then, it has changed little, on balance. In Brazil, exchange market turbulence abroad lowered market confidence in the authorities' ability to maintain that country's managed exchange rate regime; in response, short-term interest rates were raised 20 percentage points. The Brazilian exchange rate regime and the peg of the Argentine peso to the dollar have held. Real output growth in Mexico and Argentina remained healthy during 1997. In Brazil, growth fluctuated sharply during the year, with the high domestic interest rates and tighter macroeconomic policy stance that were put in place late in the year weakening domestic demand. During 1997, consumer price inflation slowed significantly in Mexico and Brazil and remained very low in Argentina.

In Japan, the economic expansion faltered in the second quarter as the effects on domestic demand of the April increase in the consumption tax exceeded expectations; in addition, crises in many of Japan's Asian trading partners late in the year weakened external demand and heightened concerns about the fragility of Japan's financial sector. The dollar rose about 10 percent against the yen during the first four months of 1997 as economic activity in the United States strengthened relative to that in Japan and as interest rate developments, including the FOMC

policy move in March, favored dollar assets. These gains were temporarily reversed in May and June as market attention focused on the growing Japanese external surplus and tentative indications of improving real activity. However, subsequent evidence of disappointing output growth, revelations of additional problems in the financial sector, and concerns about the implications of turmoil elsewhere in Asia for the Japanese economy contributed to a rise in the dollar in terms of the yen during the second half of the year. On net, the dollar appreciated nearly 13 percent against the yen during 1997; so far in 1998, it has moved back down slightly, on balance.

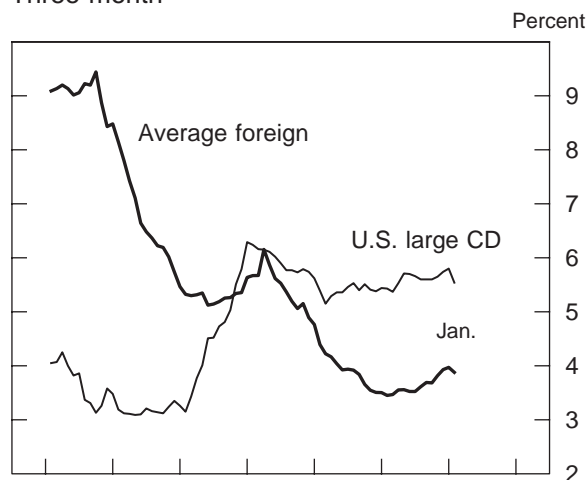
In Germany and France, output growth rose in 1997 from its modest 1996 pace, boosted in both countries by the strong performance of net exports. Nevertheless, the dollar rose in terms of the mark and other continental European currencies through midyear, responding not only to stronger U.S. economic activity but also to concerns about the timetable for launching European Monetary Union (EMU), the process of the transition to a single currency, and the policy resolve of the prospective members. Later in the year the dollar moved back down slightly and then fluctuated narrowly in terms of the mark, as investors concluded that the transition to EMU was likely to be smooth, with the euro introduced on time on January 1, 1999, and with a broad membership. On balance, the dollar rose about 17 percent against the mark during 1997 and has varied little since then.

In the United Kingdom and Canada, real output growth was vigorous in 1997. All the components of U.K. domestic demand continued to expand strongly. In Canada, more robust private consumption spending and less fiscal restraint boosted real GDP growth from its moderate 1996 pace. Central bank official lending rates were raised in both countries during the year to address the threat of rising inflation. The value of the pound eased slightly in terms of the dollar over the year, whereas the Canadian dollar fell more than 4 percent in terms of the U.S. dollar. Much of the movement in the Canadian dollar came during the fourth quarter, as the crisis in Asia contributed to a weakening of global commodity prices and thus a likely lessening of Canadian export earnings. The Canadian dollar depreciated further early in 1998, reaching historic lows against the U.S. dollar in January, but it has rebounded with the tightening by the Bank of Canada in late January.

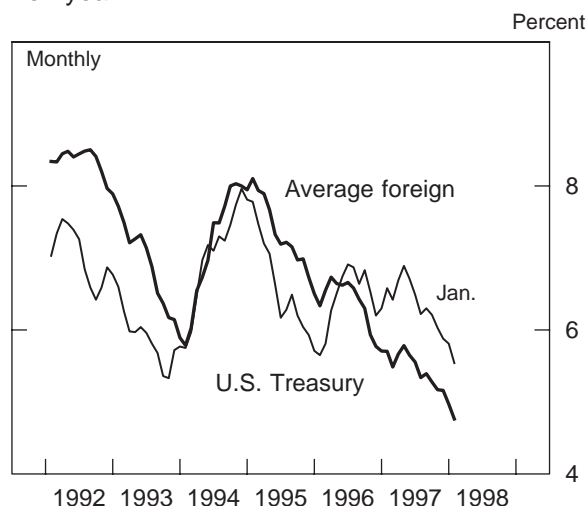
Long-term interest rates have generally declined in the other G-10 countries since the end of 1996.

Japanese long-term rates have dropped about 90 basis points, with most of the decrease coming in the second half of last year as evidence of sluggish economic activity became more apparent. German long-term rates have also fallen about 80 basis points as expectations of tightening by the Bundesbank diminished, especially toward the end of the year. The turbulence in Asian asset markets likely contributed to inflows into bond markets in several of the industrial countries, including the United States. Long-term rates in the United Kingdom have declined about 150 basis points. Legislation to increase the independence of the Bank of England and repeated tightening of monetary policy during the year reassured markets that some slowing of the very rapid

U.S. and Foreign Interest Rates
Three-month



Ten-year



Note. Average foreign rates are the global trade-weighted average, for the other G-10 countries, of yields on instruments comparable to U.S. instruments shown.

pace of economic growth was likely and that the Bank would be aggressive in resisting inflation in the future. Three-month market interest rates generally have risen in the other G-10 countries, although there have been exceptions. Rates have moved up the most in Canada (more than 180 basis points) and the United Kingdom (120 basis points), in response to several increases in official lending rates. German rates have risen about 40 basis points. Short-term rates in the countries that are expected to adopt a single currency on January 1 of next year converged toward the relatively low levels of German and French rates, with Italian rates declining more than 100 basis points over the year.

Equity prices in the foreign G-10 countries other than Japan moved up significantly in 1997. Despite some volatility in these markets, particularly in the

fourth quarter following severe equity price declines in many Asian markets, increases in equity price indexes over 1997 ranged from 17 percent in the United Kingdom to almost 60 percent in Italy. In contrast, equity prices fell 20 percent in Japan. To date this year, equity prices in the industrial countries generally have risen.

The price of gold declined more than 20 percent in 1997 and fell further in early 1998, reaching lows not seen since the late 1970s. Open discussion and, in some cases, confirmation of central bank sales of gold contributed to the price decline. Downward adjustment of expectations of inflation in the industrial countries in general may have added to the selling pressure on gold. More recently, the price of gold has moved up slightly, on net.