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- 240 Alan Greenspan, Chairman, Board of Governors, presents the views of the Federal Reserve on the need to enact legislation to modernize the U.S. financial system; he testifies that only the Congress can establish the ground rules designed to ensure the maximum net public benefits, protect the safety and soundness of our financial system, create a fair and level playing field for all participants, and ensure the continued primacy of U.S. financial markets. For these reasons, the Federal Reserve supports and urges prompt enactment of the financial modernization contained in H.R. 10. (Testimony before the House Committee on Banking and Financial Services, February 11, 1999)
- 243 Chairman Greenspan presents the Federal Reserve's semiannual report on monetary policy and testifies that over the past year the U.S. economy again performed admirably, despite the challenges presented by severe economic downturns in a number of foreign countries and episodic financial turmoil abroad and at home. He testifies further that a continuation of responsible fiscal and monetary policies should afford Americans the opportunity to make considerable further economic progress over time. (Testimony before the Senate Committee on Banking,

Housing, and Urban Affairs, February 23, 1999. Chairman Greenspan presented identical testimony before the House Committee on Banking and Financial Services on February 24, 1999.)

- 250 Chairman Greenspan testifies that in designing financial modernization legislation, the Federal Reserve believes that the Congress should focus on achieving two essential and indivisible objectives: removing outdated, competitively stifling restrictions on financial affiliations and, most important, adopting a framework for this modernization that promotes the safety and soundness of our banking and financial system and prevents the extension of the federal subsidy. Further, Chairman Greenspan states that the Federal Reserve urges prompt enactment of financial modernization legislation that achieves these two central and indivisible objectives. (Testimony before the Senate Committee on Banking, Housing, and Urban Affairs, February 23, 1999)
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# Highlights of Domestic Open Market Operations during 1998

This article is adapted from a report to the Federal Open Market Committee by Peter R. Fisher, Executive Vice President of the Federal Reserve Bank of New York and Manager of the System Open Market Account. Spence Hilton, Assistant Vice President, Federal Reserve Bank of New York, prepared this article. Angela Goldstein and Wendy Wong provided research assistance.

The Trading Desk at the Federal Reserve Bank of New York uses open market operations to implement the policy directives of the Federal Open Market Committee (FOMC). The FOMC expresses its short-term objective for open market operations as a target level for the federal funds rate—the interest rate at which depository institutions lend balances at the Federal Reserve to other depository institutions. To keep the federal funds rate near the level specified by the FOMC, the Desk uses open market operations to bring the supply of balances at the Federal Reserve into line with the demand for them.

In 1998 the level of balances that depository institutions were required to hold at the Federal Reserve continued to slip, to historic lows. The primary reason for this decline was the ongoing proliferation of retail "sweep" programs, which transfer depositors' funds from transaction accounts that are subject to reserve requirements into other deposit accounts that are not. The decline in required balances encouraged depository institutions to hold more excess reserves during the year.<sup>2</sup>

In past years, declines in required balances had been associated with greater volatility in the federal funds rate because depository institutions have less flexibility in managing their daily balance positions. With lower requirements, a depository institution is less able to substitute balances across days of the maintenance period to meet its balance requirement, which must be met by the average of its holdings over the period, because the risk of overdrawing its account at the end of the day is greater.3 However, through the first three quarters of 1998, the funds rate behaved much as it had in 1997, even though required balances were lower. In the final quarter of 1998, funds rate volatility and levels of excess reserves rose when funds market participants evinced greater concerns about the credit quality of their counterparties at a time of increased uncertainty in financial markets. These heightened credit concerns upset normal trading relationships among institutions in the federal funds market, and market participants were more wary of approaching the Federal Reserve's discount window to borrow for fear of being perceived as being in unsound financial condition, even though the identity of any institution that borrows is strictly confidential. In this environment, many depository institutions bid aggressively for balances at the Federal Reserve, thus lifting the funds rate, especially early in the day, but often with the result that the rate fell off in later trading after borrowers became confident that their demand for balances would be satisfied. The Desk responded to the upward rate pressure it saw on many mornings by elevating the levels of excess reserves it provided.

The Desk's selection of open market operations in 1998 was influenced by changing market circumstances, such as the ongoing decline in required balances. With the backdrop of falling required balances, the Desk in managing reserve supply increased its reliance on very short-term operations. It also adopted a somewhat different approach to addressing deep seasonal reserve shortages around the end of the

<sup>1.</sup> Past annual reports on open market operations have discussed the growth of sweep accounts and other developments surrounding the Desk's operations, and these remained themes in 1998. The annual report for 1998 and those from other recent years are available on the web site of the Federal Reserve Bank of New York (http://www.ny.frb.org).

<sup>2.</sup> Depository institutions hold balances at the Federal Reserve to satisfy reserve and other balance requirements. Some institutions also hold additional balances—called excess reserves—to guard against unanticipated debits to their accounts at the Federal Reserve that could leave the account overdrawn at the end of the day or short of the level needed to satisfy their requirements.

<sup>3.</sup> For further detail on the operating practices and techniques used by the Trading Desk, see Cheryl L. Edwards, "Open Market Operations in the 1990s," Federal Reserve Bulletin, vol. 83 (November 1997) pp. 859–74; Ann-Marie Meulendyke, U.S. Monetary Policy and Financial Markets (Federal Reserve Bank of New York, 1998); and M. A. Akhtar, Understanding Open Market Operations (Federal Reserve Bank of New York, 1997).

year—an approach designed to take advantage of its new authority granted by the FOMC to arrange temporary transactions with maturities of up to sixty days. Largely as a consequence, fewer reserves were added on a permanent basis in 1998 than in 1997.

### IMPLEMENTATION OF MONETARY POLICY IN 1998

#### Directives of the Federal Open Market Committee

In 1998 the Federal Open Market Committee (FOMC) continued to express its operating objective for monetary policy as a specific level of the overnight federal funds rate—the interest rate on interbank loans of balances held on deposit at the Federal Reserve. After each of its policy meetings, the FOMC issued a written directive to the Trading Desk, instructing it to foster conditions in reserve markets consistent with maintaining the federal funds rate at an average around the target rate.4 Beginning in September 1998, the FOMC lowered its target level for the federal funds rate on three occasions before the end of the year, each time by 25 basis points. On two of these occasions the Board of Governors also approved an equal reduction in the discount rate, the interest rate that the Federal Reserve charges depository institutions for borrowing at its discount window facility (table 1). The reduction in the funds rate in September was the first time that the FOMC had changed its target rate since March 1997.

#### Changes in the federal funds rate specified in directives of the Federal Open Market Committee, March 25, 1997–November 17, 1998 Percent

Date of change	Expected federal funds rate	Associated discount rate
March 25, 1997	5.50	5.00
September 29, 1998	5.25	5.00
October 15, 1998	5.00 <sup>1</sup>	4.75
November 17, 1998	4.75	4.50

<sup>1.</sup> First change made between regular Federal Open Market Committee (FOMC) meetings since April 18, 1994.

### Maintenance Periods and the Desk's Nonborrowed Reserve Objective

Each depository institution is required to hold reserves, either in the form of vault cash or balances at the Federal Reserve, in a fixed proportion to certain of its deposit liabilities. Two-week computation periods establish the time frame over which institutions' deposit levels are averaged for the purpose of calculating their reserve requirements. Two-week maintenance periods define the time frame over which institutions can accumulate daily balances at the Federal Reserve to meet the portion of their period-average reserve requirements that is not met with vault cash.

The nonborrowed reserve objective, or "path," that the Desk estimates for each maintenance period is a measure of the level of nonborrowed reserves—vault cash and reserve balances created through sources other than borrowing at the Federal Reserve's discount window—that is associated with maintaining the federal funds rate around the target. This path captures the average demand for reserves for that period arising from reserve requirements plus the estimated demand for excess reserves, less an allowance for expected discount window borrowing associated with the funds rate remaining at its objective.

Reserve requirements are known at the start of each maintenance period based on deposit information that banks provide to the Federal Reserve, but demand for excess reserves and borrowing from the discount window are estimated or anticipated on the basis of experience. The difference between the path and estimates of average reserve supply for the period provides a general indication of the overall need for open market operations to bring reserve supply in line with demand over the maintenance period. The specific operations chosen by the Desk are driven largely by the estimated daily patterns of both demand and supply and the observed behavior of the funds rate. As a maintenance period progresses, the allowances for excess reserves and borrowing are revised when incoming information suggests that they are inconsistent with maintaining the funds rate around the FOMC's target.

### Overview of Operating Procedures and Practices

In attempting to achieve the FOMC's target for the federal funds rate, the New York Trading Desk tries to align the supply of reserve balances with the level of demand believed consistent with maintaining the funds rate around its target level (see box "Maintenance Periods and the Desk's Nonborrowed Reserve Objective"). The Desk is able to alter reserve balances by engaging in open market operations with primary dealers of government securities. If the open

<sup>4.</sup> The directive is released along with the minutes of each FOMC meeting shortly after the conclusion of the next regularly scheduled FOMC meeting. The minutes, which contain the directives, are reprinted in the Federal Reserve Bulletin and are available on the Board's web site (http://www.federalreserve.gov).

market operation is intended to add reserve balances, the Desk agrees to buy securities from one or more dealers. When the dealers deliver the agreed-upon securities to the Desk, it credits the dealers' accounts at their clearing banks, a process that creates reserve balances. If the operation is intended to drain reserves, the Desk sells securities, and reserve balances are extinguished.

Each morning the Desk considers whether an open market operation is needed on the basis of estimates of the demand for and supply of reserves. Any operation designed to alter reserve balances that same day is typically arranged shortly thereafter. Reserve needs in upcoming days and weeks are also considered and sometimes influence the choice of operations, as does an assessment of possible errors in the forecasts of demand for and supply of reserves. Current trading conditions in the funds market, which can shed light on reserve imbalances, also play a role in determining the structure of open market operations. When selecting open market operations, the Desk views its objective as keeping the funds rate on current and future days as close to the target as possible, but it does not target an average rate over any preset time frame and thereby try to create high rates to offset low rates on past days, or vice versa.

#### New Developments in 1998

Two important changes in 1998 affected the Desk's conduct of open market operations. The Board of Governors approved a return to lagged reserve requirements (LRR) beginning with the maintenance period ended August 12, 1998. LRR replaced contemporaneous reserve requirements (CRR), which had been in place since 1984. LRR are designed to improve the Desk's ability to estimate the demand for reserves to meet requirements and thus help it calibrate open market operations. Under LRR, a depository institution's reserve requirement depends on its average reservable deposit liabilities in a two-week computation period that ends seventeen days before the start of the corresponding reserve maintenance period. At the same time, the computation period for applied vault cash, which was lagged one period even under CRR, was shifted back further to coincide with the computation period for reservable deposit liabilities. Thus, under LRR, the Desk knows with virtual certainty the aggregate level of reserve requirements at the outset of each maintenance period, and each depository institution knows the average level of required reserve balances it must hold over the period.

The second change involved the maximum length of repurchase agreements (RPs) permitted by the FOMC in its authorization for domestic open market operations. At its November meeting, the FOMC extended the maximum maturity of RPs that the Desk may arrange to sixty calendar days from the previous fifteen-day limit.5 RPs are agreements that the Desk makes with government securities dealers to purchase securities and then to sell the same securities back to the dealers on a specified date at a predetermined price. These operations are useful for increasing reserves on a temporary basis. The lengthening of the maturity limit provides the Desk with additional means for addressing reserve shortages that are temporary but that are certain to exceed in length the fifteen-day maturity previously set for RPs. The use of long-term RPs in 1998 is discussed later in this article.

#### Sweep Programs and Total Required Balances

Since 1994 depository institutions have used retail sweep programs to reduce the amount of balances they must hold at the Federal Reserve to meet reserve requirements. Under these programs, depository institutions shift their customers' funds from checking accounts that are reservable into special-purpose money market deposit accounts that are not reservable. Thus, depository institutions can decrease the level of their deposits subject to reserve requirements and, with no change in their vault cash holdings, their total required balances, on which they earn no interest. Sweep programs are profitable because depository institutions can invest the balances that they are no longer required to hold in interest-bearing assets.6 The adoption of sweep programs over the past few years has led to a significant decrease in required reserves and required balances.7

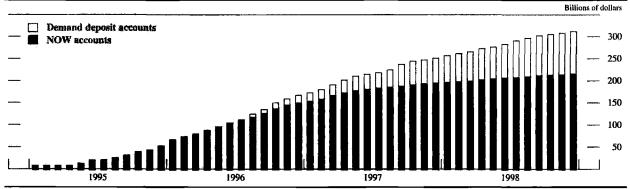
In 1998, the spread of sweep programs slowed as the proportion of deposit accounts not already cov-

<sup>5.</sup> The authorization is reprinted in the Federal Reserve Bulletin with the minutes from the first FOMC meeting each year. For the text of the authorization in place at the end of 1998, see "Minutes of the Federal Open Market Committee Meeting Held on November 17, 1998," Federal Reserve Bulletin, vol. 85 (February 1999), pp. 122–23.

<sup>6.</sup> For further information on sweep programs, see Edwards, "Open Market Operations in the 1990s," p. 870.

<sup>7.</sup> Total required balances consist of required reserve balances and required clearing balances. Required reserve balances are the portion of a depository institution's reserve requirement that is not satisfied with vault cash. Required clearing balances are balances depository institutions agree in advance to hold at the Federal Reserve, usually to facilitate payments.





Note. Data are monthly averages.

ered by these programs diminished and as the expansion of sweep programs became less profitable for institutions that began to meet their entire reserve requirement with vault cash. The level of deposits affected by new or expanded sweep programs in 1998 rose \$60 billion, an increase that was nearly \$25 billion less than that of 1997 and about half that of 1996 (chart 1).8 Demand deposits and other checkable deposits fell moderately, by \$34 billion, as the depressing effect of sweeps was partly countered by higher demand for liquid balances arising from the more rapid growth of income and declining opportunity costs of holding money.9 As a result, required reserves fell \$3½ billion on balance between the final maintenance period of 1997 and that of 1998 (chart 2). Also during this period, applied vault cash fell \$1 billion and required clearing balances were little changed, so that total required balances dropped \$2½ billion.

The decline in total required balances in 1998 was similar in size to the \$2¾ billion drop of 1997, but much less than the \$6 billion fall in 1996. However, comparing changes in these reserve measures in 1998 with changes in earlier years is complicated by the switch to LRR, which altered the lags between movements in required reserves and applied vault cash and the underlying seasonal swings in demand deposits and currency around the year-end. ¹0 Absent this

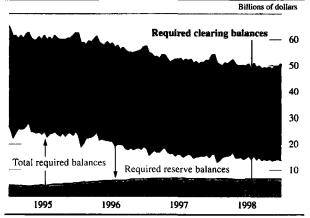
effect, total required balances would have shown a much smaller decline in 1998.

The slowing pace of decline in total required balances reflects both the ebbing in the spread of sweep programs and the fact that an increasing number of new sweep programs were byproducts of efforts to reduce vault cash holdings and were not intended to reduce required reserve balances.<sup>11</sup>

that typically occurred in the final maintenance period of the year under CRR occurs about two maintenance periods later under LRR. For related reasons, the move to LRR left the level of applied vault cash in the final maintenance period of the year about \$\frac{3}{2}\$ billion higher than it otherwise would have been.

11. A bank can profit by reducing its vault cash holdings because it earns no interest on these assets. If the eliminated vault cash had been used to meet reserve requirements, the bank can use a sweep program to reduce its reserve requirements simultaneously; without the sweep program the bank would have to hold more non-interest-bearing balances at the Federal Reserve in place of vault cash to meet its reserve requirements.

#### 2. Reserve measures, 1995-98



NOTE. All figures are maintenance-period averages calculated at two-week intervals. Required reserves are the sum of required reserve balances and applied vault cash. Total required balances are the sum of required reserve balances and required clearing balances.

<sup>8.</sup> These figures apply to deposits initially swept by banks at the start of a program or when the coverage was expanded. The data are not updated to include any later changes in the underlying deposit balances included in an existing program.

<sup>9.</sup> The change in deposits is measured using not seasonally adjusted data from December 1997 to November 1998. The decline over this period best correlates with the change in reserve requirements over the year because the switch to LRR created a lag of about one month between deposit levels and reserve requirements.

<sup>10.</sup> The shift to LRR left the level of reserve requirements in the final maintenance period of 1998 about \$2 billion below the level it would have been under CRR because the seasonal rise in requirements

### OUTRIGHT TRANSACTIONS FOR THE SYSTEM OPEN MARKET ACOUNT

In 1998 the portfolio of domestic securities held in the System Open Market Account (SOMA) grew \$25 billion, to \$473 billion at year-end (chart 3).<sup>12</sup> Most of the expansion was achieved through outright (permanent) purchases of securities made by the Desk in the market, with a small portion obtained through purchases from foreign accounts.

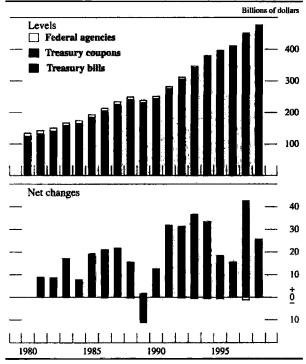
#### Changes in the Size of the System Open Market Account

The Desk increased the SOMA portfolio to offset the effect of movements in operating factors on nonborrowed reserve supply. Operating factors (listed in table 2), which are sometimes called technical factors, are items on the Federal Reserve's balance sheet other than loans and holdings of domestic securities that can affect the supply of reserves available to depository institutions. Movements in these factors typically prompt the Desk to arrange open market operations to negate their effect on reserve supply. The growth in the SOMA this past year was well below the record \$41 billion expansion of 1997, largely because of differences in the mix of temporary and permanent operations used to address reserve shortages at year-end. 13

$$\begin{split} PORT_{\text{end98}} - PORT_{\text{end97}} &= RP_{\text{end97}} - RP_{\text{end98}} - DFACTORS_{98} \\ &\quad + RR_{\text{end98}} - RR_{\text{end97}} + ER_{\text{end98}} \\ &\quad - ER_{\text{end97}} + BR_{\text{end97}} - BR_{\text{end98}}, \end{split}$$

where *PORT* is the size of the portfolio, *RP* is the value of RP agreements outstanding, *ER* is the level of excess reserves, *BR* is discount window credit, and *RR* is the level of reserve requirements, each for the end of the indicated year. *DFACTORS* reflects the net effect of changes over 1998 in all operating factors on reserve supply. Changes in discount window borrowing, which affect reserve supply, and excess reserve demand were not substantial relative to other factors during the year and are not considered explicitly in the text. In the tables and charts in this article, values for the portfolio are taken from year-end dates while values for RPs outstanding and changes in factors are based on averages taken from maintenance periods at the year-end.

 System portfolio of Treasury and federal agency securities, 1980–98



NOTE. Values for the portfolio are taken from year-end dates.

#### Required reserves and factors affecting nonborrowed reserves, 1997–98

Billions of dollars

	بر	eriod endir	Effect of change on reserve supply		
	Jan. 1, 1997	Dec. 31, 1997	Dec. 30, 1998	1997	1998
Required reserves	50.6	47.4	44.0	3,2	3.4
Factors affecting nonborrowed reserves! Currency in					
circulation	448.1	479.3	514.0	-31.3	-34.7
Foreign currency	16.2	16.6	17.4	-31.3	-34.7
Foreign RP pool	14.0	17.0	19.4	-3.0	-2.4
Gold and foreign	17.0	17.0	17.4	-5.0	
deposits	20.6	20.1	20.1	5	0
Float	2.0	.8	2.6	-1.2	1.8
Treasury balance	6.0	4.9	6.3	1.1	-1.4
Applied vault cash	38.1	37.7	36.7	4	9
Required clearing	20.1	21.1	30.7		
balances	6.6	6.7	6.6	1	0
All other items <sup>2</sup>	24.3	23.3	25.4	-1.0	2.1
Net changes in nonborrowed	24.3	23.3	23,4	-1.0	2.1
factors	. , .			-36.0	-34.7
Outstanding RPs1					
Par value	16.3	10.1	15.2	-6.2	5.1
Premium	1.4	^~.5	1,1	8	.6

NOTE. A decline in required reserves is counted as a rise in reserve supply.

1. Values for changes in factors and repurchase agreements (RPs) outstanding are based on averages taken from maintenance periods at the year-end.

<sup>12.</sup> All figures on SOMA holdings in this article are par values unless otherwise stated and exclude any securities held under outstanding RPs. Reported Treasury bill holdings include the portion sold to foreign accounts under matched sale-purchase agreements. Reported changes and levels of Treasury coupon securities do not include the accrual of compensation for the effects of inflation on the principal of inflation-indexed issues. At the end of 1998, these accruals totaled \$79 million, \$56 million higher than one year earlier.

<sup>13.</sup> The attribution of changes in the portfolio from year-end to year-end either to factor movements over the year or to year-end reserve management strategies is based on the accounting identity:

The category "All other items" equals all other assets minus all other liabilities not listed in the table and excludes the premium on RPs.

### Factors Affecting the Need for a Change in the SOMA Portfolio

### Changes in the Supply of and Demand for Nonborrowed Reserves

The expansion of the portfolio in 1998 was driven primarily by the need to offset the reserve drain caused by continued strong growth of currency in circulation, which increased nearly \$35 billion during the year and reduced reserve supply by an equivalent amount (table 2). On balance, the other factors affecting supply were little changed over the year. The \$3½ billion decline in required reserves reduced the demand for reserves and lessened the need to offset all of the decline in supply with open market operations. Altogether, these movements in operating factors and required reserves deepened reserve shortages a little more than \$30 billion in 1998, slightly less than their net effect in 1997.

### The Effect of Year-End Reserve Management Strategies

Despite the similarity in net movements in operating factors in 1997 and 1998, the increase in the SOMA portfolio in 1998 was much smaller than in 1997 because of shifts in year-end reserve management strategies. Over the year-end period in each of the past three years, the Desk has used very different combinations of outright purchases and RPs to address seasonal reserve shortages, which typically deepen leading up to the year-end and then recede after the year-end.

Over the 1998 year-end, about \$6 billion more of RPs were used to address reserve shortages than were used over year-end 1997 (table 2). Total outstanding RPs over the year-end 1998 period included \$8 billion of long-term operations with maturities longer than fifteen days. These long-term RPs addressed some of the deep year-end shortages that were expected to recede early in 1999. In the absence of these long-term RPs, more outright purchases would likely have been undertaken to cover a greater portion of the year-end deficiency.

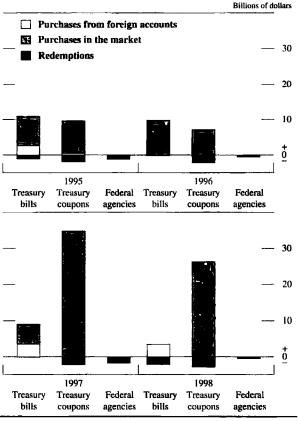
In 1996 the Desk had also made relatively few outright purchases to address year-end reserve shortages, preferring to use more short-term RPs. As a result of this strategy, outright purchases that otherwise would have been made late in 1996 were deferred until early 1997, after the RPs matured. This postponement of purchases also elevated the total quantity of outright purchases made in 1997 relative to the amounts in other recent years.

### Outright Market Activity Affecting the SOMA Portfolio

Virtually all of the expansion of the portfolio in 1998 was achieved through \$26.4 billion of outright purchases—entirely of Treasury coupon securities—made in the market (chart 4). Because of the relatively low level of Treasury bill issuance over the past two years, the Desk refrained from making purchases of bills in the market out of concern that any reduction in the supply of bills held by the public might further diminish bill market liquidity. At the same time, existing bill holdings in the portfolio were viewed as sufficient for addressing any contingency.

In purchasing Treasury coupon securities in the market, the Desk continued to segment its purchases into separate tranches covering different portions of the yield curve. Beginning in October, the Desk took steps to reduce further the price effect of its operations by narrowing the maturity range of issues considered for any one operation. This step was intended to limit the number of issues and thereby the total number of offerings or propositions by the Desk's

 System portfolio of Treasury and federal agency securities, year-end holdings, 1995–98



NOTE. Purchases are positive values; redemptions are negative values.

counterparties—the primary dealers—that would have to be evaluated in the selection process. The total value of purchases made in each operation was reduced accordingly. This modification permitted faster turnaround times, which is a factor in the competitiveness of the propositions the Desk receives, and also helped to reduce further any effect of the Desk's operations on market prices. At the same time, in the messages announcing operations that are sent to the primary dealers, the Desk began to specify those issues within the maturity range that it would not purchase because of portfolio considerations. Specifying these issues in the announcements simplified the submission and selection process further for the Desk's counterparties.

In November, the Desk limited one of the tranches, to Treasury inflation-indexed securities (TIISs) for the first time. The Desk judged that the different asset characteristics and market trading dynamics of TIISs warranted their separation from the operations in nominal coupon issues. Previously, the Desk had considered propositions on TIISs and nominal coupon issues together so long as they were in the specified maturity range of a tranche, and it had purchased \$100 million of inflation-indexed securities in one operation in 1997. But the Desk had found it difficult to make relative value judgements between inflation-indexed and nominal coupon issues during the process of selecting propositions.

### Other Activity Affecting the Size of the SOMA Portfolio

Besides its market purchases, the Desk acquired securities through transactions with foreign accounts, and it shrank some of its securities holdings through redemptions. Many foreign central banks and international organizations have custodial accounts at the Federal Reserve Bank of New York, and the FOMC authorizes the Desk to transact with these foreign account holders. When the foreign account holders have securities to sell, the Desk may purchase these securities if doing so is consistent with reserve needs. The Desk accquired \$3.6 billion of Treasury bills through such purchases in 1998.

The SOMA portfolio contains publicly offered U.S. Treasury securities. When these securities mature, the Desk is permitted to exchange them for new securities that settle on the same day. In 1998, when more than one auction for new securities settled on one of these dates, the distribution of issues newly acquired by the Desk was proportional to the amounts the Treasury was issuing to the public. The Desk can also tender for fewer securities than mature on an

auction settlement date, but it cannot tender for more. Early in 1998, the Desk redeemed \$2 billion in Treasury bills by letting them mature without replacement to address seasonal reserve surpluses. It also redeemed a portion of its holdings of original-issue seven-year notes (which are no longer issued). The Desk held \$4.3 billion of such notes that matured during the year, all on dates when new Treasury inflation-indexed securities settled. Altogether, the Desk exchanged \$1.6 billion of the maturing seven-year notes for TIISs, equal in value to 5 percent of the amount issued to the public, while the remaining \$2.7 billion of the maturing notes was redeemed.

About \$300 million of federal agency securities was redeemed in 1998 as part of the SOMA's ongoing reduction of its holdings of agency securities. The Desk also sold \$25 million of agency debt back to the original issuer as part of that agency's program to retire or replace a portion of its outstanding debt. At the end of the year, SOMA agency holdings had fallen to a little more than \$300 million.

#### SOMA Portfolio Management

As in 1997, the overall expansion of the domestic portfolio in 1998 was in holdings of Treasury coupon securities. The declining share of short-term Treasury bills held in the portfolio increased the average maturity of all Treasury issues in the SOMA at year-end to forty-seven months, compared with forty-three months at year-end 1997 (table 3). At the end of 1998, 14 percent of the volume of all outstanding marketable Treasury debt was held in the SOMA portfolio, up a bit from 13 percent one year earlier.

 Weighted-average maturity of marketable Treasury debt, selected years, 1960–98
 Months

Year-end	Year-end Holdings in the System Open Market Account	
1960	19	55
1965	16	60
1970 ,		40
1975		33
1980		48
1985	49	59
1990		68
1991	31	68
1992	36	67
1993		65
1994		66
1995	39	63
1996	41	63
1997	43	63 <b>65</b>
1998	47	68

NOTE. The effects of all outstanding temporary transactions on System Open Market Account (SOMA) holdings are excluded from the calculation. The maturity of total outstanding Treasury debt for 1998 is as of the end of the fiscal year.

The percentage of all outstanding Treasury bills that was held in the portfolio increased to 31 percent at the end of 1998 from about 30 percent in 1997, reflecting the decline in the volume of bills outstanding. A little more than 9 percent of the total outstanding volume of coupon issues, including TIISs, was held in the portfolio at the end of 1998, about 1 percentage point more than a year earlier.

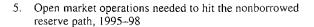
### TEMPORARY TRANSACTIONS FOR THE SYSTEM OPEN MARKET ACCOUNT

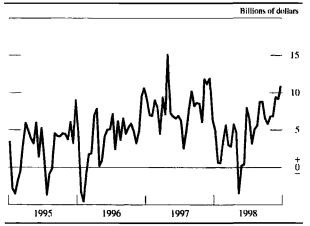
#### Period-Average Reserve Needs and Revisions

The difference between the path and the estimated supply of nonborrowed reserves at the outset of each two-week maintenance period, after incorporating the effects of any outright operations arranged previously, indicates the need for open market operations during that period. In 1998 the estimates of the period-average reserve needs made at the start of each maintenance period—in absolute value to allow for temporary reserve surpluses—averaged \$5.3 billion, down from \$8.0 billion in 1997 (chart 5). <sup>14</sup> The decline in the average was partly the byproduct of the higher volume of outright purchases made in 1997, which left smaller reserve imbalances early in 1998 than had existed early in 1997.

Revisions to estimates of operating factors affecting the supply of or demand for reserves during a

<sup>14.</sup> Some of these initial estimated reserve needs were reduced by temporary term RPs that were arranged in an earlier maintenance period and extended into later periods.





NOTE. Estimates are from the first day of each maintenance period. Positive numbers indicate a need to add reserves.

period affect the actual size of temporary operations needed during that maintenance period. Therefore, the Desk must allow for the possibility of such revisions in structuring its operations as it goes through a period. Net revisions to operating factors affecting the supply of reserve balances over an entire period tended to be less in 1998 than in other recent years, largely reflecting smaller Treasury balance revisions (table 4). At the same time, revisions to key determinants of the demand for balances at the Federal Reserve—required reserves and applied vault cash were virtually eliminated with the advent of LRR in August. Before the introduction of LRR, sizable revisions to required reserves and applied vault cash sometimes were made relatively late in a period, which was a major source of uncertainty. Thus the Desk had to take the uncertainty in these estimates into account when structuring its operations late in a period.

#### Daily Volatility of and Projection Errors for the Supply of and Demand for Reserves

The decline in total required balances resulting from the implementation of sweep programs over the past several years has increased depository institutions' exposure to overdrafts arising from unanticipated shifts in their daily reserve positions. As a result, both the day-to-day swings in factors affecting the supply

 Revisions to estimates of open market operations needed to hit the nonborrowed reserve path, 1997–98
 Millions of dollars, maintenance-period averages

Item	1997	1998
Factors affecting the supply of reserve balances at the Federal Reserve Treasury balance Currency in circulation Foreign RP pool Float Net factor revision	1,002 361 500 227 1.413	506 500 381 312 1,034
Factors affecting the demand for reserve balances at the Federal Reserve <sup>1</sup> Required reserves		
Before LRR	443	353 22
Applied vault cash Before LRR After LRR	231	316 12
Required reserves-applied vault cash Before LRR After LRR	352	182 25

NOTE. Data are average absolute revisions to initial estimates of maintenance-period-average values. Projection errors are based on estimates by the staff of the Federal Reserve Bank of New York.

<sup>1.</sup> All revisions in 1997 were before the introduction of lagged reserve requirements (LRR); revisions in 1998 through the period ending July 29 were before LRR.

Item	1995		1996		19	1997		1998	
	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	
Daily changes									
Treasury balance	1,233	12,639	1,002	9,780	1,484	17,393	1,413	22,571	
Currency in circulation	655	1,582	646	2.016	679	2,474	709	2,788	
Foreign RP pool	486	3,955	369	3.017	542	6,989	500	6,193	
Float	515	3.748	790	8,154	548	4,605	791	5,449	
Net value	1,491	11,476	1,413	11.787	1,896	18,366	1,751	23,727	
Daily forecast error									
Treasury balance	642	4,188	732	4.921	726	5,969	620	3,407	
Currency in circulation	206	932	213	932	200	980	217	999	
Foreign RP pool	124	617	113	617	203	1.433	150	935	
Float	284	1.903	371	3,768	312	3,433	383	2,386	
Net value	743	4,139	898	5.042	848	5,991	744	3,664	

Daily changes and forecast errors in key determinants of reserve balance supply, 1995–98
 Millions of dollars, average and maximum of absolute values

NOTE. Projection errors are based on estimates by the staff of the Federal Reserve Bank of New York.

of reserve balances and the potential for error in the projections of these factors have taken on a greater role in the Desk's daily reserve management deliberations. For the same reason, the day-to-day volatility in the demand for excess reserves and the potential for error in the judgment of daily excess demand have also become more important considerations in the Desk's management of reserves.

Recent experience with daily changes and forecast errors of key operating factors that determine the supply of balances at the Federal Reserve—the Treasury balance at the Federal Reserve, Federal Reserve float, currency in circulation, and the foreign RP pool—is summarized in table 5. The average of the absolute daily net changes in reserve balances arising from movements in the four key operating factors approached \$2 billion in both 1997 and 1998, highlighting the importance of the Desk's temporary operations for smoothing out daily reserve patterns. To some degree, the average was driven by outliers, which topped out at about \$20 billion in each of the past two years, thus illustrating the potential for huge swings. The biggest swings tended to be associated with movements in the Treasury balance around key tax dates.

Average absolute daily forecast errors underscore the risks in managing reserve supply. The average of the absolute daily net forecast error for the sum of these same four operating factors in 1998 was about \$750 million, somewhat less than the errors in the preceding two years but still of the same general

order of magnitude. The largest daily miss in 1998 was more than \$3½ billion. The Treasury balance is usually the single most difficult factor to estimate, and it, along with float, were the sources of the biggest daily errors.

Comparable measures of changes in the daily demand for excess reserves consistent with the funds rate target and of errors in the daily estimation of excess demand are not available. Important determinants of the intraday pattern of the demand for excess reserves are discussed later.

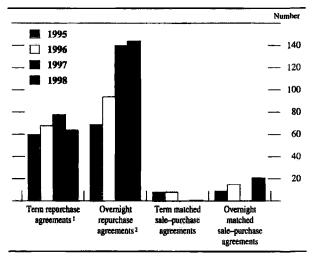
### Temporary Open Market Operations Arranged in 1998

The Desk typically relies on a mix of term and overnight RPs to meet reserve shortages (chart 6).16 With total required balances remaining low in 1998, the Desk continued to use overnight RPs extensively to address reserve shortages to take into account the daily volatility of operating factors and of excess reserve demand and also potential projection errors. For the same reasons, a term RP was rarely intended to address entirely the reserve shortages estimated beyond the initial date, and frequently an overnight operation was arranged on the same day as a term operation. Term RPs were usually designed to leave reserve shortages of at least moderate size in subsequent days to be addressed with additional RPs. This approach allowed the Desk to tailor the total amount of all RPs outstanding on any day to fit the most up-to-date estimates of the daily reserve pattern.

<sup>15.</sup> The reserve supply projections presented in this section are those of the Federal Reserve Bank of New York staff. In making reserve management decisions, the Desk also uses estimates made by the Board for all factors and by the Treasury for the Treasury balance. Differences among the staff estimates underscore the risks inherent in these daily estimates.

<sup>16.</sup> The expression *overnight* is used to denote any operation that matures on the next business day.

#### 6. System temporary operations, by type, 1995–98



- 1. Includes fixed and withdrawable repurchase agreements.
- 2. Includes system and customer repurchase agreements.

The frequency with which term RPs were arranged was down a bit from 1997, partly reflecting the smaller reserve shortages that occurred in 1998. Three fixed-term operations with maturities ranging from thirty days to forty-five days were arranged in December, using the Desk's new authority for long-term RPs, to address that portion of the year-end reserve shortages that was expected to recede significantly in January 1999. These term RPs were among the few such RPs that were set to mature in a maintenance period beyond the one in which they were arranged.

The Desk used matched sale-purchase agreements (MSPs) in 1998 for the first time since May 1996. These agreements, under which the Desk first sells securities and then purchases them at a predetermined price from dealers at a later date, are used to address temporary reserve surpluses. The first two of these operations took place in the January 14 period, when huge upward revisions were made to weather-related float after term RPs had been put in place to address what were expected to be reserve shortages. Most of the MSPs were arranged in May, after earlier projections of potentially huge reserve shortages during the April-May tax season proved inaccurate (see box "The Management of Reserves around the April 15 Tax Season").

#### Technique of Intervention

The Desk retained its practice of normally arranging temporary open market operations no more than once a day, shortly after 10:30 a.m. when a complete set of

reserve estimates first becomes available. For the new long-term RPs that were used in 1998, operations were arranged earlier in the day, around 8:30 a.m., because the Desk wanted to take advantage of the more liquid financing market that an earlier entry time would offer. Moreover, these RPs were not necessarily intended to meet all of the reserve shortage estimated for the day on which they were arranged, so there was no need to wait for a complete set of reserve estimates. For the three long-term operations arranged in 1998, propositions were strong—measured in total volume and in rates offered relative to current market quotes.

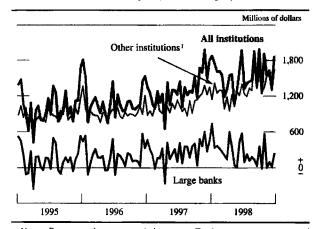
The Desk was always prepared to depart from its usual practices as circumstances warranted. It entered the market ahead of the usual intervention time on numerous occasions apart from the three long-term RPs. These early entries were motivated either by a view that the expected reserve shortage on the day required taking advantage of the greater market liquidity that exists earlier in the morning or by a belief that the firm financing pressures that existed at the time needed to be addressed promptly. On one occasion, an early entry was followed up with another operation at the usual market intervention time.

#### **EXCESS RESERVES**

#### Period-Average Excess Reserves

The uptrend in period-average levels of excess reserves that became evident in 1997 and that has been associated with the decline in total required

7. Excess reserve holdings, by bank category, 1995-98



Note. Data are maintenance-period averages. Total excess reserves averaged \$1,012 million in 1995, \$1,120 million in 1996, \$1,322 million in 1997, and \$1,548 million in 1998.

1. "Other institutions" include small banks and thrift institutions, foreign-related institutions, and nonreporters.

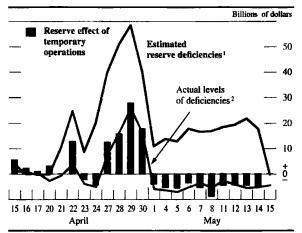
#### The Management of Reserves around the April 15 Tax Season

The Desk's initial reserve management strategy around the April 15 tax date reflected its experience in April–May 1997. Tax receipts in April–May 1997 far exceeded projected inflows, and the resulting reserve shortages that the Desk had to address with temporary operations were unprecedented. Tax receipts in April–May 1998 were expected to exceed their level of the previous year by a substantial amount, and the Treasury's balance at the Federal Reserve was expected to surge again, even though the Treasury had arranged to have \$64 billion in cash management bills mature in mid-April (\$14 billion more than in 1997) in order to control the buildup in its general cash position.

To prepare for the expected surge in Treasury receipts, the Desk purchased \$13.2 billion of securities outright in March and April, much more than it had acquired during that time in 1997, to limit the reserve shortages that would have to be addressed with RPs. Even so, sizable RPs were still expected to be needed through mid-May to meet reserve shortages that, according to the highest estimates, were expected to peak at nearly \$60 billion in late April. Only after the planned outright operations were completed did it become evident that reserve deficiencies would be significantly less than initially anticipated. To a large degree, this projection error reflected the success that the Treasury had in promoting participation in its Treasury Tax & Loan (TT&L) program after it broadened the types of collateral it accepted for this purpose. TT&L capacity was more than \$15 billion higher than anticipated, and this higher capacity reduced the cash balance that had to be held in the Federal Reserve account by a similar amount once the Treasury's total cash position exceeded the holding capacity at private banks. At the same time, total corporate and individual taxes fell about \$20 billion short of the high end of the set of estimates.

After making its outright purchases in April, the Desk unexpectedly found itself having to drain reserves as a result of the higher TT&L capacity and Treasury's lower total cash position. Large RPs were still needed to add reserves in late April when the Treasury balance at the Federal Reserve was at its peak. But for a few days before a brief surge in cash holdings and again starting at the very end of the month when large government outlays and paydowns brought Treasury's cash position down, matched sale-purchase agreements were used to drain reserve surpluses.

#### Reserve deficiencies (reserve requirements less reserve supply) and temporary open market operations in April and May



NOTE. Actual and projected reserve deficiencies include all outright operations arranged through mid-May. A positive value denotes a level of reserve supply below reserve requirements and a need to add reserves; a negative value indicates a level of supply above requirements.

- Reserve deficiencies are estimated as of April 14 by the staff of the Federal Reserve Bank of New York.
  - 2. Levels before temporary open market operations:

balances intensified in 1998.<sup>17</sup> However, the increase in 1997 was observed broadly across different classes of depository institutions, whereas in 1998 the increase in the underlying demand for excess reserves occurred away from large institutions and was concentrated among other institutions, nota-

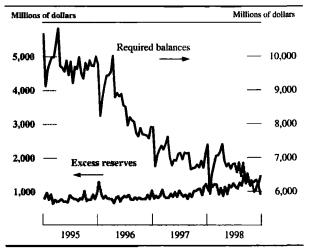
bly small commercial banks and thrift institutions (chart 7).18

The link between excess reserve levels and total required balances of small commercial banks and thrifts can be seen in chart 8. From 1995 to the middle of 1997, the period of greatest decline in total required balances for small commercial banks and thrifts, only a small fraction of this decline was reflected in higher excess levels for these institutions.

<sup>17.</sup> The Desk attempts to meet depository institutions' demand for excess reserves both for every maintenance period and for each day in a period. For this reason, absent a true measure of excess demand, actual levels of excess reserves can be taken as an approximation of demand, notwithstanding the surprises to reserve supply and misjudgments the Desk may make about demand that can cause actual excess levels to diverge from true demands on any given day. For a discussion of the uptrend in excess reserves in 1997, see Virginia Cheng, Spence Hilton, and Ted Tulpan, "Open Market Operations during 1997," Federal Reserve Bulletin, vol. 84 (July 1998), pp. 523–25.

<sup>18.</sup> The "large" bank category for which the Federal Reserve collects reserve information includes about 130 of the largest depository intitutions. The Federal Reserve also collects reserve information separately for small commercial banks, thrift institutions, foreign-related institutions, and nonreporting banks. In this article, these four categories are sometimes aggregated into a grouping labeled "other institutions."

#### Total required balances and excess reserves at small banks, thrift institutions, and nonreporters. 1995–98



NOTE. Data are maintenance-period averages. Total required balances are reserve requirements plus required clearing balances less applied vault cash. Excess reserves at these institutions averaged \$810 million in 1995, \$847 million in 1996, \$951 million in 1997, and \$1,207 million in 1998. The measures of excess reserves and total required balances in this and the charts that follow are drawn from internal data sources that reflect only revisions to the data made within the first five weeks after a maintenance period has ended.

From the middle of 1997 through 1998, even though the pace of decline in required balances slowed, at the margin the further decline had a greater effect on excess reserve levels.

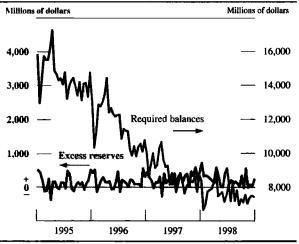
The link between excess reserves and total required balances among large depository institutions as a group was less clear in 1998. The pace of decline in total required balances at these institutions also slowed around the middle of 1997. Although required balances have fallen a bit since then, the average level of excess reserves at these institutions was unchanged on balance in 1998, after having risen in 1997 (chart 9).

Lower levels of total required balances have led to higher excess reserve levels in two ways. Some depository institutions working with lower required balances have consistently chosen to hold a higher level of excess reserves at the end of each day as a precaution against contingencies that could reduce their balances and send them into overdraft. This behavior—an increase in precautionary demands for excess reserves—is more characteristic of some institutions, especially smaller entities, that have limited access to funding markets. However, among larger banks and even some smaller institutions that have the ability to adjust their balances throughout the day by trading in the federal funds market, higher excess reserve levels have been the byproduct mostly of unanticipated late-day payment inflows. Unintended high excess levels that individual institutions occasionally have been left with on some days have been harder to offset fully with negative excess positions on remaining days within the same maintenance period because required balances have been so low. That is, depository institutions in general have been more prone to becoming "locked in" inadvertently to holding an undesirably high level of excess reserves under low required balances.

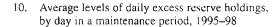
In making its allowance for excess reserve demand in a maintenance period, the Desk allows for elevated precautionary demands, and it takes stock of any lock-ins that arise as a maintenance period progresses. But the Desk does not provide higher excess reserve levels as it goes through a period in anticipation of undesired lock-ins that have not yet arisen, even if these are now seen as more likely to develop at some point. Doing so would risk leaving depository institutions holding undesired reserve surpluses at the end of the period if they succeed in avoiding lock-ins

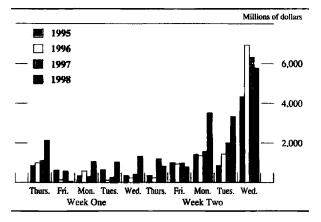
In 1998 in recognition of recent trends, the allowances in the nonborrowed reserve objective that the Desk made at the start of each maintenance period for period-average excess demand rose from about \$1 billion, a level that had prevailed for many years, to levels that were often close to \$1½ billion. However, the Desk treated any initial allowance very flexibly, making more frequent informal modifications as a period unfolded in response to actual patterns of excess holdings and to the observed behavior of the funds rate. To aid in its judgment, the Desk used daily reports of excess holdings at small

#### Total required balances and excess reserves at large banks, 1995–98



NOTE. Data are maintenance-period averages. Total required balances are reserve requirements plus required clearing balances less applied vault cash. Excess reserves at these institutions averaged \$126 million in 1995, \$190 million in 1996. \$267 million in 1997, and \$247 million in 1998.



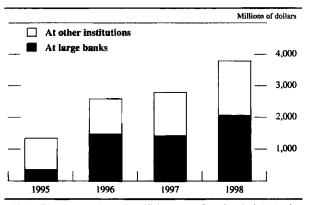


and large institutions to evaluate their levels of demand. It also used daily reports containing reserve information for about twenty-five individual large banks to determine whether any of these banks were locked into holding excess reserves in a maintenance period.

#### Daily Patterns of Excess Reserves

The preference that depository institutions have shown for years for concentrating reserve balance holdings late in a maintenance period was again evident in 1998 (chart 10). This skewed pattern was most pronounced at large banks, where cumulative average excess positions were usually negative throughout the period until the final day.

#### 11. Excess reserves on high payment flow days, 1995-98



NOTE. Data are annual averages. High payment flow days include the first and last business day of each month (excluding quarter-end dates), major tax dates, and midquarter settlement dates for Treasury refundings. The quarterends are dropped even though payment flows are extremely heavy on these days because the levels of excess reserves some banks held on these days for balance-sheet-statement purposes was very volatile.

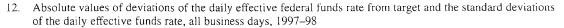
In 1998, the Desk provided even higher levels of excess reserves than it had in previous years on days when payment flows were heaviest and most unpredictable (chart 11). These days include the first and last business day of each month, tax dates, and major Treasury auction settlement dates. Most, but not all, of the increase in excess reserves provided by the Desk wound up at larger banks. In providing even higher levels of excess reserves on high payment flow days, the Desk looked for other occasions within the same maintenance period to leave fewer excess reserves, consistent with depository institutions' period-average demands, with the attendant risk that unexpected reserve shortfalls on those days could leave the actual level of balances for the banking system precariously low.

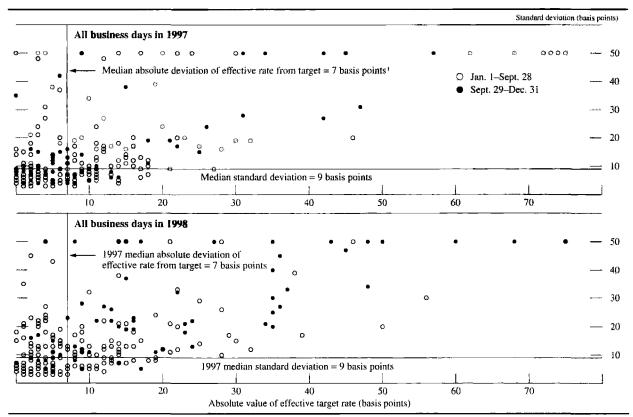
### Excess Reserve Developments in October–December

The trends noted in the previous discussion, both for higher period-average excess levels and for elevated levels on high payment flow days, were reinforced late in the year by the Desk's reaction to recurring bouts of rate firmness that emerged in overnight funding markets. The background for these pressures is discussed more fully in the following section, which reviews the behavior of the federal funds rate late in 1998. The Desk often responded to any upward rate pressure in the morning by providing a higher level of excess reserves for that day. These funds market pressures were typically most intense around high payment flow days, so that the Desk was particularly careful to leave total balances high on those days. Sometimes suitable opportunities to work off the resulting high excess levels did not arise because the funds rate often remained firm even in the presence of the accumulation of excess reserves. As a result, average excess levels for some periods in October and November were particularly elevated. But the trend toward higher excess levels previously described was evident even before the final quarter of the year.

#### THE BEHAVIOR OF THE FEDERAL FUNDS RATE

Daily behavior of the federal funds rate is measured by the absolute deviation of the effective (tradeweighted average) rate from the target rate specified in FOMC directives and by the standard deviation of the rates on each day's transactions around the effective rate. Through the first three quarters of 1998, the





Note. Daily observations form a discrete rather than a continuous distribution. For this reason, when calculating the percentage of days that fell either above or below a median value, observations having values equal to the median are apportioned equally above and below the median. All values have been restricted to fit on a reduced scale to provide more detail at the lower values where most observations are concentrated.

In 1997 the percentage of days on which the deviation of the effective funds rate from the target and the standard deviation were both either above or below the median values are the following:

	Jan. 1-Sept. 28 (percent)	Sept. 29-Dec. 31 (percent)
Both below median	35	31
Both above median	35	32

In 1998 the percentage of days on which the deviation of the effective funds rate from the target and the standard deviation were both either above or below the median values are the following:

	Jan. 1-Sept. 28 (percent)	Sept. 29-Dec. 31 (percent)
Both below 1997 median	29	10
Both above 1997 median	32	73

1. Average absolute deviation of effective rate from target is 12 basis points.

daily behavior of the federal funds rate was similar to that of 1997 (chart 12). But both the deviations from target and the intraday standard deviations increased perceptibly during the final quarter of the year when pressures associated with volatility in other financial markets began to affect financing flows and the trading behavior of participants in the federal funds market.<sup>19</sup>

### Daily Deviations and Volatility of the Federal Funds Rate in 1998

Data needed to calculate the absolute deviations of the effective funds rate from target and the standard deviation of each day's rates are compiled every morning by the Desk from a broad sample of brokers who arrange transactions between participants in the federal funds market. Each of these statistics captures somewhat different aspects of the behavior of the funds market. For example, the deviation of the daily effective rate from target is often strongly influenced by participants' expectations about whether reserve

<sup>19.</sup> In this article, the persistence of higher daily volatility in the funds market is dated as having begun on September 29, although its actual emergence was somewhat more gradual.

 Deviations of the daily effective federal funds rate from target and the daily standard deviation of the funds rate, 1997–98

Basis points

			1998		
Item .	1997	1998	Jan. 1- Sept. 28	Sept. 29- Dec. 31	
Median of standard deviations	9	12	10	22	
Median of absolute deviations of the effective rate from target	7	8	6	16	
Average of absolute deviations of the effective rate from target	12	13	10	22	

supply will prove to be either scarce or plentiful on any day. Such expectations, which may be formed largely on the basis of past experience, often establish the rate at which transactions will be arranged through most of the day. The daily standard deviation will capture shifts in these expectations during the day, and it is influenced, as is the effective rate, by actual reserve conditions as they become apparent in late-day trading. Changes in underlying reserve conditions and the behavior of market participants are often reflected in changes in the behavior of these two daily statistics.

From January through late September 1998, the median values for both the standard deviations and deviations of the effective rate from target were within 1 basis point of their median values for 1997 (table 6).<sup>20</sup> This similarity in behavior of the funds rate held despite the further modest decline in the level of total required balances in 1998. Still, volatility in these measures remained above the levels that prevailed before 1996, when the rapid decline in total required balances first began to have a notable effect on the daily behavior of the funds rate.

By late September, heightened aversion to credit risk and accompanying dislocations in other financial markets began to affect the funding needs and behavior of key participants in the federal funds market. Some depository institutions encountered reduced access to term funding, and their demand for overnight funding rose as a result. Lenders in the overnight federal funds and Eurodollar markets in some cases cut credit lines to certain borrowers. At the

same time, banks' aversion to borrowing at the discount window appears to have intensified out of concern that borrowing might be seen as a sign of poor financial health.

The intraday trading strategies many market participants adopted often lent a very firm bias to rates in the morning as highly risk-averse borrowers bid aggressively for funds early in the day. Their actions sometimes lifted the entire rate structure paid by all borrowers for much of the day, especially as lenders in the market came to recognize this caution. This pattern was most prevalent on days characterized by high payment flows, when uncertainties about daily reserve positions are typically greatest.

The Desk responded to these conditions by providing higher excess reserves on days when these financing pressures were most evident. This response reinforced the tendency of the funds rate to fall off late in the day when the level of balances left in place proved higher than final demands. Furthermore, the high period-average levels of excess reserves that resulted also encouraged very soft conditions in the funds rate on several maintenance period settlement days in October and November. The funds market went through several cycles of firmness sustained over several days, often triggered by high payment flow dates, followed by periods of softness.21 By late November, the Desk's provisions of added reserves and the adjustments made by some regular borrowers in the funds market to reduce their reliance on overnight financing helped ease these upward rate pressures, but they remained a feature of the funds market through the year-end.

The volatile rate environment created by market participants' defensive trading strategies and the Desk's response to them was reflected in both larger deviations of the effective daily funds rate from target and higher daily standard deviations. The median value of the daily standard deviations was 22 basis points from late September through December, and the median absolute deviation of the funds rate was 16 basis points, both well above the corresponding levels for all of 1997 and through the first three

<sup>20.</sup> In making comparisons between different time periods, median values are used instead of means because of the possible influence of a small number of very large outliers on the calculation of the mean. All calculations are based on business day observations, with no adjustment for the effect of holidays or weekends on the calculation of effective rates averaged over longer time periods.

<sup>21.</sup> Softer rates sometimes emerged after participants began to incorporate expectations, which were often incorrect, that the Desk was going out of its way to make generous reserve provisions. On many days when these expectations were not accurate, the funds rate nonetheless remained soft as participants at first traded on the expectation or perception of Desk generosity and then as actual levels of excess reserves, even if quite low, still proved sufficient to cover end-of-day needs. Conversely, market expectations or perceptions of low levels of liquidity kept the funds rate firm on some days when excess levels were high.

quarters of 1998 (table 6).<sup>22</sup> While the degree of volatility observed in the daily behavior of the funds rate during the final quarter was likely aggravated by required balance levels, which hovered near historic lows, the immediate cause was the changed market climate.

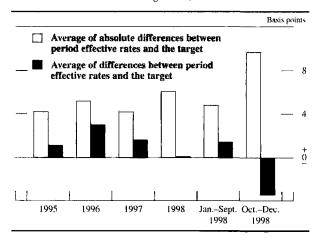
#### Average Levels of the Federal Funds Rate

Because of these pressures on the funds rate late in 1998, the Desk was less successful in maintaining the average daily effective rate around the target (chart 13). For the maintenance periods that covered the fourth quarter, the absolute deviations of the period-average effective rates from target averaged 10 basis points.<sup>23</sup> The average absolute deviation from target of the period-average effective funds rate was 5 basis points for earlier periods in 1998, and it was 4 basis points in 1997.

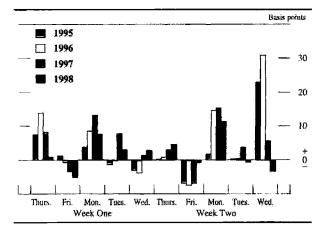
#### Intraperiod Patterns of the Federal Funds Rate

Intraperiod patterns of the effective funds rate, measured by the deviation of the effective rate from target averaged separately for each day in a maintenance period, were similar to those in preceding years (chart 14). For example, soft conditions continued to

 Maintenance period averages of the effective federal funds rate versus the target rate, 1995–98



 Average levels of the daily effective federal funds rate less the target rate, by day in a maintenance period, 1995–98



prevail on many Fridays. The sharpest departure from past patterns appeared on settlement Wednesdays, the last day of a maintenance period. The effective rate on those days in 1998 was, on average, below target. However, the low average for settlement days in 1998 to a large degree reflected developments that occurred late in the year. During the final three months of 1998, the funds rate on settlement Wednesdays averaged 27 basis points below the target level. This development reinforces the judgment that the period-average levels of excess reserves in these maintenance periods exceeded demands. Over the first three quarters of 1998, the effective rates from these settlement days averaged 6 basis points above target, similar to their average deviation in 1997.

#### SUMMARY

The conduct of open market operations throughout 1998 was influenced by the continued growth of sweep programs, which reduced further the level of total required balances, and late in the year by heightened aversion to credit risk in financial markets, which affected the activity of some participants in the federal funds market. Both developments contributed to higher levels of excess reserves in the banking system and reinforced the Desk's growing reliance on very short-term operations to balance daily swings in reserve supply and demand. Through the first three quarters of 1998, intraday volatility in the federal funds rate and deviations in the daily effective rate from target were similar to those of the previous year. But late in the year, funds rate volatility rose with the growing aversion to credit risk among financial market participants.

<sup>22.</sup> Historically, the funds rate has tended to be a bit more volatile in the fourth quarter of a year compared with the preceding three quarters. However, median values of the standard deviations and of the absolute deviations of the effective rate from target in the final quarter were never more than a couple of basis points higher than in the first three quarters in any year from 1995 through 1997.

<sup>23.</sup> This calculation is based on the seven maintenance periods running from the period ended October 7 through the period ended December 30.

#### **APPENDIX**

A.1. U.S. Treasury bills in the System Open Market Account, December 31, 1998

Thousands of dollars except as noted

Maturity date of issue outstanding	Holdings, 12/31/98	Percentage of total issue outstanding
1/07/991	109,320	.3
1/14/991	156,860	.7
1/21/991	6.533.390	13.8
1/28/99	7.342.815	31.8
2/04/99	14.018.010	26.0
2/11/99	7,534,485	32.2
2/18/99	7,621,564	32.5
2/25/99	7.688.180	33.5
3/04/99	13,214,955	32.5
3/11/99	7.591.780	32.6
3/18/99	7,304,310	32.0
3/25/99	6,954,235	30.9
4/01/99	12,662,430	32.1
4/08/99	3.645.000	31,3
4/15/99	4,105,000	33.7
4/22/99	3,695,000	31.6
4/29/99	8,440,000	31.7
5/06/99	3,935,000	32.1
5/13/99	3,800,000	32.2
5/20/99	3,855,000	32.5
5/27/99	9,090,000	33.5
6/03/99	3,840,000	32.4
6/10/99	3,900,000	30.9
6/17/99	3,775,000	31.2
6/24/99	7,925,000	30.9
7/01/99	3.540.000	32.0
7/22/99	5,305,000	33.7
8/19/99	5,565,000	35.3
9/16/99	5,390,000	34.9
10/14/99	5,650,000	33.9
11/12/99	5,225,000	32.2
12/09/99	5,360,000	32.8
Total Treasury bills	194,772,3341	• • •
Net change since 12/31/97	-2,350,364	

NOTE. Data are on a statement-date basis.

A.2. U.S. Treasury bonds in the System Open Market Account, December 31, 1998

Thousands of dollars except as noted

Issue outstan	ding	Holdings,	Percentage	Net change
Coupon	Maturity date	12/31/98	of total issue outstanding	since 12/31/97
11.750	2/15/01	165,803	11.0	5,000
13.125	5/15/01	166,926	9.5	1,200
13.375 15,750	8/15/01 11/15/01	256,092 172,904	14.6 9.9	
14.250	2/15/02	184,800	10.5	25.000
11.625	11/15/02	347,850	12.6	- • -
10.750	2/15/03 5/15/03	739,250 380,800	24.6 11.7	49,800
11.125	8/15/03	514,300	14.7	i in ma
11.875	11/15/03 5/15/04	870,340 769,786	12.0 20.5	119,000
13.750	8/15/04	528,000	13.2	
11.625 8.250	11/15/04 5/15/05	994,600 1.513,660	12.0 35.8	47.400
12.000	5/15/05	728,476	17.1	
10.750 9.375	8/15/05 2/15/06	1,187,000 133,000	12.8 2.8	113,000
7.625	2/15/07	1,396,164	33.0	113,000
7.875 8.375	11/15/07	378,500	25.3	
8.375 8.750	8/15/08 11/15/08	788,500 1,588,500	37.5 30.4	
9.125	5/15/09	921,205	20.0	
10.375	11/15/09 2/15/10	1,075,939 717,400	25.6 28.8	
10.000	5/15/10	1,176,556	39.4	
12.750 13.875	11/15/10 5/15/11	1,260,865	26.6 23.3	
13.875	11/15/11	1.073,542 975,091	19.9	
10.375	11/15/12	1.611.741	14.6	
12.000	8/15/13 5/15/14	3.040,772 869,450	20.6 17.4	
12.500	8/15/14	905,720	17.7	
11.750	11/15/14 2/i5/15	1,195,000 1,335,733	19.9 10.5	
10.625	8/15/15	1,167,400	16.3	
9.875 9.250	11/15/15 2/15/16	941,500	13.6 12.1	
7.250 7.250	5/15/16	000,088	5.8	103,000
7.500	11/15/16	1,378,000	7.3	115,000
8.750 8.875	5/15/17 8/15/17	1,855,000 1,494,000	10.2 10.7	405,000 585.000
9.125	5/15/18	728,900	8.4	232,000
9.000	11/15/18 2/15/19	304,000 1,224,000	3.4 6.4	48,000 291,000
8.125	8/15/19	1,735,900	8.6	45,000
8.500 8.750	2/15/20 5/15/20	1.095.879	10.7 11.9	135,000 145,000
8.750	8/15/20	1,366,600	12.5	142,000
7.875 8.125	2/15/21 5/15/21	830,500	7.5 9.2	55,000 165,000
8.125	8/15/21	1.103.000 940,000	7.7	260,000
8.000	11/15/21	1.695.000	5.2	545,000
7.250 7.625	8/15/22 11/15/22	605,000 810,000	5.8 7.6	145,000 150,000
7.125	2/15/23	1,981,000	10.8	568,000
6.250 7.500	8/15/23 11/15/24	1.447,000 565,000	6.3 4.9	412,000 60,000
7.625	2/15/25	875,000	7.5	60,000
6.875	8/15/25 2/15/26	1,345,000 999,000	10.7 7.7	140,000 65,000
6.750	8/15/26	1,050,000	9.6	85.000
6.500	11/15/26	1,470,000 530,000	12.8	50,000
6.625	2/15/27 8/15/27	730,000	5.1 6.8	
6.125	11/15/27	2,505,000	11.1	1,325,000
5.500	8/15/28 11/15/28	1,771,808 945,000	15,0 8.6	1.771,808 945.000
Matured in 1998				-30,750
Total Treasury				
bonds	• • •	68,642,352		9,235,458
NOTE. Data are on	u statement-da	ire hasis		

NOTE. Data are on a statement-date basis.

<sup>1</sup> Holdings of Treasury bills were reduced by the following amounts of matched sale-purchase agreements, which are returned the next day: \$12,700,000 of Jan. 7 Treasury bills, \$7,700,000 of Jan. 14 Treasury bills, and \$527,110 of Jan. 21 Treasury bills.

## A.3. U.S. Treasury notes in the System Open Market Account, December 31, 1998 Thousands of dollars except as noted

#### A.3.—Continued

Coupon   Maturity   12/31/98   obtaineding   12/31/97   Coupon   Maturity   12/31/98   obtaineding   12/31/97   date   12/31/97   obtaineding   12/31/98   obtaineding	Issue outstand	ding	Holdings,	Percentage	Net change	Issue outstandi	ng	Holdings,	Percentage	Net change
1,31/99	Coupon					Coupon				since 12/31/97
1,31/99	6.375	1/15/99	892.045	8.5		4.625	12/31/00	2.554.662	13.1	2,554,662
2,15,16,16,16,16,16,16,16,16,16,16,16,16,16,	5.000				91,000	5.500	12/31/00	891,000	7.0	
8.875					1,172,000					
5.500										1,532,560
\$875									8.8	64,000
5.875										160,000 30,000
6.250	5.875									319,000
7.000	6.250									2,270,117
6.375	7.000									316,000
6.375	6.375									163,000
9.125										111000
6.250						0.025				84,000
6.750					263 000					94,400 181,000
6.000										107,100
6750										66,000
5875 7/31/99 1,31400 12.4 4 62.50 1/31/02 1,105.000 6.4 23.6000 81/15/99 243,600 11.8 444,000 6.250 1/31/02 1,105.000 8.2 32 6.000 81/15/99 943,600 9.3 85,000 6.25 3/31/02 1,400,900 9.8 42 5.875 81/31/99 1,101.480 8.9 150,000 7.500 5/15/02 1,341,009 11.5 32 5.750 9730/99 667,380 3.8 25,000 6.25 4/30/02 1,292,500 9.0 25.750 9730/99 1,349,752 10.6 271,000 6.250 6/30/02 867,000 6.6 8 6.000 10/15/99 406,115 3.9 6.000 7/31/02 442,000 3.6 8 8 6.000 10/15/99 406,115 3.9 6.000 7/31/02 442,000 3.6 6.8 5.625 10/31/99 1,707,315 9.2 549,000 6.375 8/31/02 2,612,000 11.0 36 5.625 10/31/99 1,707,315 9.2 549,000 6.250 8/31/02 2,612,000 11.0 36 5.625 11/15/99 2,790,968 12.2 5.875 11/15/99 2,790,968 12.2 5.875 11/15/99 2,790,968 12.2 5.875 11/15/99 2,790,968 12.2 5.875 11/15/99 1,707,315 6.7 583,000 5.735 11/30/02 1,700 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1										383,000
6.875					60,000					253,000
6000 8/15/99 2,676,110 11.8 444,000 6.250 2/28/02 944,400 6.9 148 8000 8/15/99 943,600 9.3 85,000 6.625 4/30/02 1,292,500 9.0 22 5.875 8/31/99 1,101,480 8.9 150,000 7.500 5/15/02 1,314,009 11.5 32 5.780 9/30/99 1,349,630 8.4 135,000 6.625 4/30/02 1,292,500 9.0 22 5.780 9/30/99 1,349,752 10.6 271,000 6.250 6.503 5/31/02 1,132,000 8.4 18 7.125 9/30/99 1,349,752 10.6 271,000 6.250 6.630/02 867,000 6.6 6.8 6.000 10/15/99 406,115 3.9 6.000 7.731/02 442,000 3.6 14 5.625 10/31/99 73,2000 4.4 230,000 6.375 8/15/02 2,412,000 3.6 14 5.625 10/31/99 73,2000 4.4 230,000 6.250 8/31/02 942,000 7.4 22 5.875 11/15/99 2,790,688 12.2 5.99,000 6.250 8/31/02 942,000 7.4 22 5.875 11/15/99 2,790,688 12.2 5.780 10/31/99 73,000 5.0 17 7.875 11/15/99 1,790,780 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.					325,000					275,000
8000 8/15/99 943,600 9.3 85,000 6.625 3/31/02 1,409,000 9.8 42 5.875 8/31/99 1,439,630 8.4 135,000 6.625 4/30/02 1,292,500 9.0 25 6.875 8/31/99 1,101,480 8.9 150,000 7.500 5/15/02 1,341,009 11.5 32 5.750 9/30/99 667,380 3.8 25,000 6.500 5/31/02 1,131,2000 8.4 18 7.125 9/30/99 1,349,752 10.6 271,000 6.250 6/30/02 867,000 6.6 8 6.000 10/15/99 406,115 3.9					444,000					328,000
5875 8/31/99 1,439,630 8.4 135,000 6.625 4/30/02 1292,500 9.0 25 6.875 8/31/99 1,101.480 8.9 150,000 7.500 5/15/02 1,341,009 11.5 33 5.750 9/30/99 667,380 3.8 25,000 6.500 5/31/02 1,132,000 8.4 18 7.125 9/30/99 1,349,752 10.6 271.000 6.500 5/31/02 1,132,000 8.4 18 6.000 10/15/99 406,115 3.9 6.000 7/31/02 442,000 3.6 18 6.000 10/15/99 406,115 3.9 6.000 7/31/02 442,000 3.6 18 6.000 10/31/99 7132,000 4.4 230,000 6.375 8/15/02 2,612,000 11.0 36 7.500 10/31/99 1,107,315 9.2 549,000 6.250 8/31/02 942,000 7.4 25 8.875 11/15/99 2,790,68 12.2 5.5875 11/15/99 2,790,68 12.2 5.5875 11/15/99 2,790,68 12.2 5.5875 11/15/99 2,790,68 12.2 5.5875 11/15/99 2,790,68 12.2 5.500 10/31/02 710,000 6.1 32 7.750 11/30/99 1,131,175 6.7 583,000 5,750 11/31/02 700,000 5.3 22 7.750 11/30/99 1,379,665 11.1 5.625 12/31/99 75,780 4.8 5.500 1/31/03 802,000 6.1 88 7.750 12/31/99 1,379,665 11.1 6.6250 2/15/03 2,160,000 9.2 1.53,755 11/15/00 685,545 6.8 5.500 1/31/03 802,000 6.1 88 7.750 13/16/0 1,144,730 6.5 1,140,730 5.500 3/31/03 1,185,000 9.8 1.15 5.375 1/31/00 1,144,730 6.5 1,140,730 5.500 3/31/03 1,185,000 9.8 1.38 5.375 1/31/00 1,125,440 9.3 261,000 5.500 3/31/03 1,185,000 9.8 1.38 5.375 1/31/00 1,232,796 6.0 386,000 5.500 3/31/03 1,115,000 8.5 1.11 8.500 2/29/00 1,497,320 8.4 1,497,320 5.500 3/31/03 1,115,000 8.5 1.11 8.500 2/29/00 1,497,320 8.4 1,497,320 5.250 8/15/03 3,885,000 9.8 1.38 5.500 2/29/00 1,497,320 8.4 1,497,320 5.250 8/15/03 3,885,000 13.2 5.500 3/31/00 1,582,250 11.6 1,998,220 11.										141,400 420,000
6.875										257,500
5750 9/30/99 1349/752 10.6 271.000 6.500 5/31/02 1,132,000 8.4 18 6.000 10/15/99 406,115 3.9 6.000 7/31/02 442,000 3.6 18 6.000 10/15/99 406,115 3.9 6.000 7/31/02 442,000 3.6 18 7.500 10/31/99 732,000 4.4 230,000 6.375 8/15/02 2,612,000 7.4 22 7.500 10/31/99 1,107.315 9.2 549,000 6.250 8/31/02 942,000 7.4 22 7.570 11/15/99 2,790,68 12.2 - 5.875 9/30/02 635,000 5.0 17 7.875 11/15/99 2,790,68 12.2 - 5.875 10/31/02 710,000 6.1 32 7.500 11/30/99 1,131.175 6.7 583,000 5.750 10/31/02 710,000 6.1 32 7.500 11/30/99 1,408,145 11.9 232,000 5.625 12/31/02 700,000 5.8 11 7.5625 12/31/99 75.780 4.8 - 5.500 1/31/03 802,000 6.1 88 7.750 12/31/99 75.780 4.8 - 5.500 1/31/03 802,000 6.1 88 7.750 12/31/99 1,379,665 11.1 6.6250 2/15/03 2,160,000 9.2 1 6.375 11/15/00 685,545 6.8 - 5.500 1/31/03 802,000 9.8 1.1 7.5375 11/31/00 1,140,730 6.5 1,40,730 5.500 3/31/03 1,185,000 9.8 1.1 7.5375 1/31/00 1,140,730 6.5 1,40,730 5.500 3/31/03 1,185,000 9.8 1.3 7.750 1/31/00 1,232,796 6.0 386,000 5.500 5/31/03 1,115,000 8.5 1.11 8.500 2/15/00 1,232,796 6.0 386,000 5.500 5/31/03 1,115,000 8.5 1.11 8.500 2/15/00 1,230,4000 11.3 218,000 5.375 6/30/03 1,115,000 8.5 1.11 8.500 2/29/00 1,497,320 8.4 1,497,320 5.250 8/15/03 2,834,000 14.3 2,83 7.125 2/29/00 1,497,320 8.4 1,497,320 5.250 8/15/03 3,088,000 13.2 7.500 3/31/00 1,998,220 11.6 1,998,220 4250 11/15/03 1,818,385 8.2 1,51 6.875 3/31/00 1,401,510 10.7 60,000 5.875 11/15/04 650,000 5.0 8.750 4/15/00 368,000 3.5 8,000 7.250 5/15/04 1,940,550 13.5 5 8.750 4/30/00 13.21,000 8.5 12,21,000 7.250 5/15/04 1,940,550 13.5 5 8.750 5/15/00 280,000 1.524,250 12.3 500,000 7.875 11/15/04 650,000 0.0 1.2 8.875 5/15/00 280,000 1.524,250 12.3 500,000 7.875 11/15/04 650,000 0.0 1.2 8.875 5/15/00 280,000 3.5 8,000 7.250 5/15/04 1,940,550 13.5 5 8.731/00 1976,750 10.6 1.998,200 6.0 8.755 11/15/05 1,291,600 9.0 4 8.875 5/15/00 280,000 1.524,250 12.3 500,000 7.875 11/15/05 1,291,600 9.0 4 8.875 5/15/00 280,000 1.524,250 12.3 500,000 7.875 11/15/06 6.0 2,724,752 12.0 48 8.875 5/15/00 882,000 1.5 2.294,000 6.250 5/15/0										325,000
7.125										183,000
5,625         10/31/99         732,000         44         230,000         6.375         8/15/02         26,12,000         11.0         36           7,500         10/31/99         1,10/31/9         2,10/31/8         2         549,000         6.250         8/31/02         942,000         7.4         22           5,875         11/15/99         2,190,968         12.2         5,875         9/30/02         635,000         5.0         17           7,875         11/13/199         1,311/75         6.7         583,000         5,750         10/31/02         710,000         6.1         33           5,625         11/30/99         1,311/75         6.7         583,000         5,625         12/31/02         700,000         5.3         24           7,50         11/30/99         1,379,665         11.1         6.250         1/31/03         802,000         6.1         88           7,750         12/31/99         1,379,665         11.1         6.250         2/15/03         2.18,900         8.8         1.15           5,375         1/31/00         1,142,340         9.3         261,000         5,500         2/15/03         3,131/03         8,138,000         9.2         1           6		9/30/99		10.6			6/30/02			81,000
7.500					25.5.5.2					147,000
5.875         11/15/99         2,790,968         12.2         5.875         9/30/02         635,000         5.0         17.7875         11/15/99         814,000         7.6         5.83,000         5.750         10/31/02         710,000         6.1         33         5.625         11/30/99         1,131,175         6.7         583,000         5.750         11/30/02         644,000         5.3         24           7.750         11/30/99         7,957.80         4.8         232,000         5.625         12/31/03         802,000         6.1         18           7.750         12/31/99         1,379,665         11.1         6.250         2/15/03         2,160,000         9.2         1           6.375         1/15/00         689,545         6.8         5.500         2/18/03         1,199,000         8.8         1.15           5.375         1/31/00         1,140,730         6.5         1,140,730         5.500         2/28/03         1,199,000         8.8         1.35           7.750         1/31/00         1,125,440         9.3         261,000         5.750         4/30/03         1,010,000         8.0         1.11           8.500         2/15/00         1,232,796         6.0         386,0										365,000
7.875   11/15/99   814,000   7.6   5.750   10/31/02   710,000   6.1   32   5.625   11/30/99   1,408,145   11.9   232,000   5.625   12/31/02   700,000   5.8   11   5.625   12/31/99   795,780   4.8   5.500   1/31/03   802,000   6.1   80   7.750   12/31/99   7.795,655   11.1   6.250   2/15/03   2.160,000   9.2   1   6.375   1/15/00   689,545   6.8   5.500   3/31/03   3.085,000   9.8   1.1   5.375   1/31/00   1.140,730   6.5   1.140,730   5.500   3/31/03   3.085,000   9.8   1.1   5.875   2/15/00   1.232,796   6.0   386,000   5.750   4/30/03   1.010,000   8.0   1.01   8.500   2/15/00   1.234,400   9.3   261,000   5.750   4/30/03   1.010,000   8.5   1.1   8.500   2/15/00   1.204,000   11.3   218,000   5.375   6/30/03   1.309,000   10.0   1.33   5.500   2/29/00   4/47,290   11.9   155,000   5.750   8/15/03   3.685,000   14.3   2.8   3.500   3/31/00   1.497,320   11.6   1.998,220   4.250   8/15/03   3.685,000   3.2   5.500   3/31/00   1.491,510   10.7   60,000   5.875   2/15/04   680,000   5.0   5.500   4/15/00   368,000   3.5   8.000   7.250   8/15/03   3.685,000   5.0   5.500   4/15/00   368,000   3.5   8.000   7.250   8/15/04   480,000   5.0   5.500   4/15/00   3.680,000   3.5   8.000   7.250   8/15/04   480,000   5.0   5.625   4/30/00   1.524,250   12.3   500,000   7.875   11/15/04   4.753,044   12.3   6.375   5/15/00   4/30/00   1.524,250   12.3   500,000   7.875   11/15/04   4.753,044   12.3   6.375   5/15/00   480,000   4.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500										241,000
5.625         11/30/99         1,131,175         6.7         583,000         5,750         11/30/02         644,000         5.3         22,7750         11/30/99         1,408,145         1.9         232,000         5,625         12/31/02         700,000         5.8         11           5,625         12/31/99         7.95,780         4.8         5,500         1/31/03         802,000         6.1         86           7,750         12/31/99         1,379,665         11.1         6,250         2/13/03         2,160,000         9.2         1           6,375         1/15/00         6,89,545         6.8         5,500         2/13/03         1,199,000         8.8         1.15           5,375         1/31/00         1,125,440         9.3         261,000         5,750         4/30/03         1,010,000         8.0         1,01           8,500         2/15/00         1,232,796         6.0         386,000         5,500         5/31/03         1,115,000         8.5         1,11           8,500         2/15/00         1,232,796         6.0         386,000         5,500         5/31/03         1,115,000         8.5         1,11           8,500         2/15/00         1,232,000         1,321,										175,000 320,000
7.750										244,000
5,625   12/31/99   795,780   4.8   5.500   1/31/03   802,000   6.1   86   7.750   12/31/99   1.379,665   11.1   6.250   2.715/03   2.160,000   9.2   1.6375   1.715/00   689,545   6.8   5.500   2.728/03   1.199,000   8.8   1.15   5.375   1.731/00   1.140,730   6.5   1.140,730   5.500   3/31/03   1.010,000   8.0   1.01   5.875   2.715/00   1.232,796   6.0   386,000   5.750   4/30/03   1.010,000   8.0   1.01   5.875   2.715/00   1.204,000   11.3   218,000   5.375   6/30/03   1.399,000   10.0   1.3   5.500   2.729/00   1.497,320   8.4   1.497,320   5.250   8.715/03   2.834,000   14.3   2.83   2.5500   2.729/00   1.497,320   11.9   155,000   5.750   8.715/03   3.685,000   13.2   3.500   3/31/00   1.998,220   11.6   1.998,220   4.250   11/15/03   1.518,385   8.2   1.51   6.875   3/31/00   1.401,510   10.7   60,000   5.875   2.715/04   650,000   5.05   5.500   4.715/00   368,000   3.5   8.000   7.250   8.715/04   4940,550   13.5   5.625   4/30/00   1.321,000   8.5   1.321,000   7.250   8.715/04   435,000   6.3   2.3   6.750   4730/00   1.524,250   12.3   500,000   7.250   8.715/04   435,000   6.3   2.3   6.750   4730/00   1.524,250   12.3   500,000   7.250   8.715/04   435,000   6.3   2.3   6.750   5/31/00   480,000   4.6   6.500   5/15/05   2.000,000   13.6   6.500   5/31/00   3.31,000   9.3   3.383,000   9.3   3.383,000   5.625   2.715/06   2.724,752   2.0   4.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/05   2.000,000   13.6   6.500   5/15/06   2.773,800   11.0   2.0   5.375   6/30/00   1.383,000   9.3   3.383,000   5.625   2.715/06   2.753,000   11.0   2.0   5.375   6/30/00   1.383,000   9.3   3.383,000   6.625   5/15/06   2.753,000   11.0   2.0   5.375   5/15/06   2.753,000   11.0   2.0   5.375   5/15/06   2.753,000   11.0   2.0   5.375   5/15/06   2.753,000   11.0   2.0   5.375   5/15/06   2.753,000   11.0   2.0   5.375   5/15/06   2.753,000   11.0   2.0   2.994,300   5.000   5/15/06   2.753,000   11.0   5.500   2.715/08   4.0000   1.5   4.46   4.625   11/15/00   8.8										115,000
6.375	5.625		795,780			5.500				802,000
5.375	7.750									15,000
7.750										1,199,000
5.875         2/15/00         1,232,796         6.0         386,000         5.500         5/31/03         1,115,000         8.5         1,11           8.500         2/15/00         1,204,000         11.3         218,000         5.375         6/30/03         1,309,000         10.0         1,33           7.125         2/29/00         1,497,320         8.4         1,497,320         5.250         8/15/03         2,834,000         14.3         2,83           7.125         2/29/00         1,477,290         11.9         155,000         5.750         8/15/03         3,685,000         13.2            6.875         3/31/00         1,401,510         10.7         60,000         5.875         2/15/04         650,000         5.0          5.500         4/15/00         368,000         3.5         8,000         7.250         8/15/04         480,000         5.0          5.515/04         490,500         13.5         3.518,321,000         7.250         8/15/04         835,000         13.5         3.518,321,000         7.250         8/15/04         835,000         13.5         3.518,321,000         7.250         8/15/04         835,000         13.5         3.521,000         7.250         8/15/03										1,385.000
8.500	5.875									1,010,000 1,115,000
5.500         2/29/00         1,497,320         8.4         1,497,320         5.250         8/15/03         2,834,000         14.3         2,83           7.125         2/29/00         1,477,290         11.9         155,000         5.750         8/15/03         3,685,000         13.2         1.51           5.500         3/31/00         1,491,510         10.7         60,000         5.875         2/15/04         650,000         5.0           5.500         4/15/00         368,000         3.5         8,000         7.250         5/15/04         1,940,550         13.5         2.0           5.625         4/30/00         1,524,250         12.3         500,000         7.875         11/15/04         1,353,040         12.3         6.750         8/15/04         835,000         6.3         2         1,321,000         7.875         11/15/04         1,753,040         12.3         6.375         5/15/00         2,807,000         13.5         7.500         2/15/05         1,29,600         9.4         14         4.4         1,433,000         1.321,000         6.500         5/15/05         2,000,000         13.6         5.2         11/15/05         1,700,000         12.0         5.375         11/15/05         1,700,000	8 500					5.375				1,309,000
7.125										2,834,000
6.875			1,477,290			5.750			13.2	
5.500         4/15/00         368,000         3.5         8,000         7.250         5/15/04         1,940,550         13.5         3           6.625         4/30/00         1,321,000         8.5         1,321,000         7.250         8/15/04         835,000         6.3         2           6.750         4/30/00         1,524,250         12.3         500,000         7.875         11/15/04         1,753,040         12.3            6.375         5/15/00         2,807,000         13.5         7.500         2/15/05         1,291,600         9.4         14           8.875         5/15/00         480,000         4.6         6.500         8/15/05         1,291,600         9.4         14           8.500         5/31/00         13,21,000         8.0         1,321,000         6.500         8/15/05         1,800,000         12.					1,998,220	4.250				1,518,385
5.625         4/30/00         1,321,000         8.5         1,321,000         7.250         8/15/04         835,000         6.3         2           6.750         4/30/00         1,524,250         12.3         500,000         7.875         11/15/04         1,753,040         12.3         6.375         11/15/04         1,753,040         12.3         6.375         11/15/05         1,291,600         9.4         14         8.875         5/15/05         2,000,000         13.6         1.321,000         8.0         1,221,000         6.500         5/15/05         2,000,000         13.6         5.500         5/31/00         1,383,000         8.0         1,321,000         6.500         8/15/05         1,800,000         12.0         6.6250         5/31/00         1,91,460         7.2         68,000         5.875         11/15/05         1,700,000         11.0         20         5.875         11/15/05         1,700,000         11.0         20         5.875         6/30/00         1,740,100         5.9         6.875         5/15/06         1,708,000         11.0         20         5.375         7/31/00         1,976,750         10.6         1,976,750         7.000         7/15/06         2,724,752         12.0         45         6.125         7/31/00 <td></td>										
6.750										35,000
6.375										25,000
8.875         5/15/00         480,000         4.6         6.500         5/15/05         2,000,000         13.6           5.500         5/31/00         1,321,000         8.0         1,321,000         8.0         1,321,000         1.0         6.500         8/15/05         1,800,000         12.0         6.530         5.875         11/15/05         1,700,000         11.2         7.317         7.317         7.317         1.0         1.0         20         6.875         5/15/06         1,708,000         11.0         20         5.875         6/30/00         740,100         5.9         6.875         5/15/06         2,075,000         13.0         7.317         5.375         7/31/00         1,976,750         10.6         1,976,750         7.000         7/15/06         2,075,000         13.0         7.317         4.5         6.125         7/31/00         698,000         5.7         243,000         6.500         10/15/06         2,577,800         11.5         14         6.000         8/15/00         2,147,845         11.9         837,900         6.250         2/15/07         840,000         6.4         30         8.755         8/31/00         2,994,300         15.0         2,994,300         6.125         8/15/07         2,518,000         9.8<										141,600
5.500         5/31/00         1,321,000         8.0         1,321,000         6.500         8/15/05         1,800,000         12.0           6.250         5/31/00         911,460         7.2         68,000         5.875         11/15/05         1,700,000         11.2         1.383,000         5.875         11/15/05         1,700,000         11.0         20         5.875         6/30/00         740,100         5.9         6.875         5/15/06         2,075,000         13.0         1.0         5.875         7/31/00         1,976,750         10.6         1,976,750         7.000         7/15/06         2,724,752         12.0         45         6.125         7/31/00         698,000         5.7         243,000         6.500         10/15/06         2,577.800         11.5         14         6.000         8/15/00         2,147,845         11.9         837,900         6.250         2/15/07         840,000         6.4         30         8.750         8/15/00         2,147,845         11.9         837,900         6.250         2/15/07         840,000         6.4         30         8.75         1.50         840,000         6.4         30         8.75         8.715/07         1,750,000         12.5         8.715/07         1,750,000         1										
5.375         6/30/00         1,383,000         9.3         1,383,000         5.625         2/15/06         1,708,000         11.0         20           5.875         6/30/00         740,100         5.9         6.875         5/15/06         2,075,000         13.0         5           5.375         7/31/00         1,976,750         10.6         1,976,750         7,000         7/15/06         2,724,752         12.0         45           6.125         7/31/00         698,000         5.7         243,000         6.500         10/15/06         2,727,780         11.5         14           6.000         8/15/00         2,147,845         11.9         837,900         6.250         2/15/07         840,000         6.4         30           8.750         8/15/00         1,212,400         10.9         54,000         6.625         5/15/07         1,750,000         12.5         5           5.125         8/31/00         2,994,300         15.0         2,994,300         6.125         8/15/07         2,518,000         9.8         34           6.250         8/31/00         721,000         6.1         71,000         5.500         2/15/08         1,420,000         10.5         1,42	5.500	5/31/00	1,321,000	8.0		6.500	8/15/05	1,800,000	12.0	
5.875         6/30/00         740,100         5.9         6.875         5/15/06         2.075,000         13.0           5.375         7/31/00         1,976,750         10.6         1,976,750         7.000         7/15/06         2,724,752         12.0         45           6.125         7/31/00         698,000         5.7         243,000         6.500         10/15/06         2,727,800         11.5         14           6.000         8/15/00         2,147,845         11.9         837,900         6.250         2/15/07         840,000         6.4         30           8.750         8/15/00         1,212,400         10.9         54,000         6.625         5/15/07         1,750,000         12.5         .           5.125         8/31/00         2,994,300         15.0         2,994,300         6.125         8/15/07         2,518,000         9.8         34           6.250         8/31/00         2,994,300         15.0         2,994,300         6.125         8/15/07         2,518,000         9.8         34           6.250         8/31/00         2,994,300         15.0         2,994,300         6.125         8/15/07         2,518,000         9.8         34           4.500 <td></td>										
5.375         7/31/00         1,976,750         10.6         1,976,750         7.000         7/15/06         2,724,752         12.0         45           6.125         7/31/00         698,000         5.7         243,000         6.500         10/15/06         2,577,800         11.5         14           6.000         8/15/00         2,147,845         11.9         837,900         6.250         2/15/07         840,000         6.4         30           8.750         8/15/00         1,212,400         10.9         54,000         6.625         5/15/07         1,750,000         12.5          5.1525         8/15/00         2,994,300         15.0         2,994,300         6.125         8/15/07         2,518,000         9.8         34           6.125         8/31/00         729,4300         6.1         7,000         5.500         2/15/08         4,084,000         10.5         1,42           4.500         9/30/00         2,241,500         1.6         2,241,500         5.625         5/15/08         4,084,000         15.0         4,08           6.125         9/30/00         2,462,900         1.0         4,750         11/15/08         1,135,000         8.4         1,13           7.					1,383,000					208,000
6.125					1 076 750					459,000
6.000										145,000
8,750         8/15/00         1,212,400         10.9         54,000         6,625         5/15/07         1,750,000         12.5            5,125         8/31/00         2,994,300         15.0         2,994,300         5.500         2/15/08         1,420,000         10.5         1,42           6,250         8/31/00         721,000         6.1         71,000         5.500         2/15/08         1,420,000         10.5         1,42           4,500         9/30/00         2,241,500         11.6         2,241,500         5.625         5/15/08         4,084,000         15.0         4,08           6.125         9/30/00         1,009,000         8.4          4,750         11/15/08         1,135,000         8.4         1,13           4,000         10/31/00         2,462,900         12.0         2,462,900         Matured in 1998 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.250</td> <td></td> <td></td> <td></td> <td>300,000</td>						6.250				300,000
5.125     8/31/00     2.994,300     15.0     2,994,300     6.125     8/15/07     2,518,000     9.8     34       6.250     8/31/00     721,000     6.1     71,000     5.500     2/15/08     1,420,000     10.5     1.4       4.500     9/30/00     2,241,500     11.6     2,241,500     5.625     5/15/08     4,084,000     15.0     4,08       6.125     9/30/00     1,009,000     8.4     4.750     11/15/08     1,35,000     8.4     1,13       4.000     10/31/00     2,462,900     12.0     2,462,900     Matured in 1998     5.750     10/31/00     729,430     6.0     192,000       5.750     11/15/00     1,888,200     11.8     237,000     Total Treasury       8.500     11/15/00     882,300     7.7     1,300     notes     184,960,020     12,42       4.625     11/30/00     2,032,200     10.1     2,032,200     10.1     2,032,200     10.1	8.750	8/15/00			54,000	6.625				
4.500     9/30/00     2.241,500     11.6     2.241,500     5.625     5/15/08     4,084,000     15.0     4,08       6.125     9/30/00     1,099,000     8.4     1.2     4.750     11/15/08     1,135,000     8.4     1,13       4.000     10/31/00     2,462,900     12.0     2,462,900     Matured in 1998     5.750     10/31/00     729,430     6.0     192,000     192,000     Total Treasury     Total Treasury     11/15/00     882,300     7.7     1,300     notes     184,960,020     12,42       4.625     11/30/00     2,032,200     10.1     2,032,200     10.1     2,032,200     1.300 <t< td=""><td>5.125</td><td>8/3!/00</td><td>2,994,300</td><td>15.0</td><td>2,994,300</td><td>6.125</td><td>8/15/07</td><td>2,518,000</td><td>9.8</td><td>343,000</td></t<>	5.125	8/3!/00	2,994,300	15.0	2,994,300	6.125	8/15/07	2,518,000	9.8	343,000
6.125 9/30/00 1,009,000 8.4 4.750 11/15/08 1,135,000 8.4 1,13 4.000 10/31/00 2,462,900 12.0 2,462,900 Matured in 1998										1,420,000
4.000       10/31/00       2,462,900       12.0       2,462,900       Matured in 1998       -52,07         5.750       10/31/00       729,430       6.0       192,000       11/15/00       11/15/00       11.8       237,000       Total Treasury       11/15/00       882,300       7.7       1,300       notes       184,960,020       12,42         4.625       11/30/00       2,032,200       10.1       2,032,200       10.1       2,032,200					2,241,500					4,084,000
5.750     10/31/00     729,430     6.0     192,000       5.750     11/15/00     1.888,200     11.8     237,000     Total Treasury       8.500     11/15/00     882,300     7.7     1,300     notes     184,960,020     12,42       4.625     11/30/00     2,032,200     10.1     2,032,200     10.1     10.1     10.1					2 462 000					1,135,000
5.750     11/15/00     1.888,200     11.8     237,000     Total Treasury       8.500     11/15/00     882,300     7.7     1,300     notes     184,960,020     12,42       4.625     11/30/00     2,032,200     10.1     2,032,200     10.1						Materica in 1998		• • •		-52,079,735
8.500						Total Treasury				
4.625	8,500		882,300		1,300			184,960,020		12,427,009
5.625 11/30/00 878,200 7.1 232,000 Noть. Data are on a statement-date basis.		11/30/00	2,032,200	10.1	2,032,200					
	3.625	11/30/00	878,200	7.1	232,000	Note. Data are on a s	statement-da	ite basis.		

 A.4. U.S. Treasury inflation index bonds and inflation index notes in the System Open Market Account, December 31, 1998

Thousands of dollars except as noted

Issue outstandin	Holdings,	Percentage of total	Net change		
Coupon	Maturity date	12/31/98	issue outstanding	since 12/31/97	
Treasury inflation index bonds (IIB) 3.625	4/15/28	820,000	4.9	820,000	
Total Treasury IJB		820,000		820,000	
Treasury inflation index notes (IIN) 3.625	7/15/02 1/15/07 1/15/08	900,000 832,000 1,135,000	5.3	82,000 1,135,000	
Total Treasury IIN		2,867,000		1,217,000	
Total Treasury bonds, notes, IIN, and • IIB 1		257,289,372			

NOTE. Data are on a statement-date basis.

A.5. U.S. federal agency holdings in the System Open Market Account, December 31, 1998 Thousands of dollars except as noted

Agency and issue outstanding			Percentage	No.	
Coupon	Maturity date	Holdings, 12/31/98	of total issue outstanding	Net change since 12/31/97	
	Uate		Continuing		
Federal National					
Mortgage Association					
(FNMA)	74.00	55.000			
9.550	3/10/99	25,000	3.6		
8.700 8.450	6/10/99 7/12/99	23,000 5,000	2.8 1.0		
8.350	11/10/99	7,000	.4		
6.100	2/10/00	25,000	5.0		
9.050	4/10/00	10,000	1.3		
9.200	9/11/00	10.000	2.5		
6.625	4/10/03		0	30,000	
6.450	6/10/03		0	-25,000	
5.800	12/10/03	10,000	1.3		
7.550	6/10/04	24,650	3.1		
8.250	10/12/04	30,000	7.5		
6.850	9/12/05	20,000	5.0		
6.700	11/10/05	100,000	25.0	10.000	
10.350	12/10/15		0	-10,000	
8.200	3/10/16		0	-15,000	
Matured in 1998				-328,000	
Total, FNMA		289,650		-328,000	
Federal Home Loan					
Banks (FHLBanks)					
9.300	1/25/99	2,000	.6		
8.600	6/25/99	3,900	1.2		
8.450	7/26/99	5.000	2.0		
8.600	8/25/99	11,000	4.5		
8.375	10/25/99	000,01	3.7		
8.600	1/25/00	6,000	2.0		
Matured in 1998				-19,000	
Total, FHLBanks		37,900		-19,000	
Farma Cuadis					
Farm Credit Administration					
(FCA)					
8.650	10/01/99	10,000	2.9		
Matured in 1998					
Total, FCA		10,000			
Total agency issues .		337,550		-347,000	
Total Tracernus and					
Total Treasury and agency issues 2.		452,399,256			

NOTE. Data are on a statement-date basis.

<sup>1.</sup> Total amounts of Treasury bonds and notes are from tables A.2 and A.3 respectively.

I. Called issue.

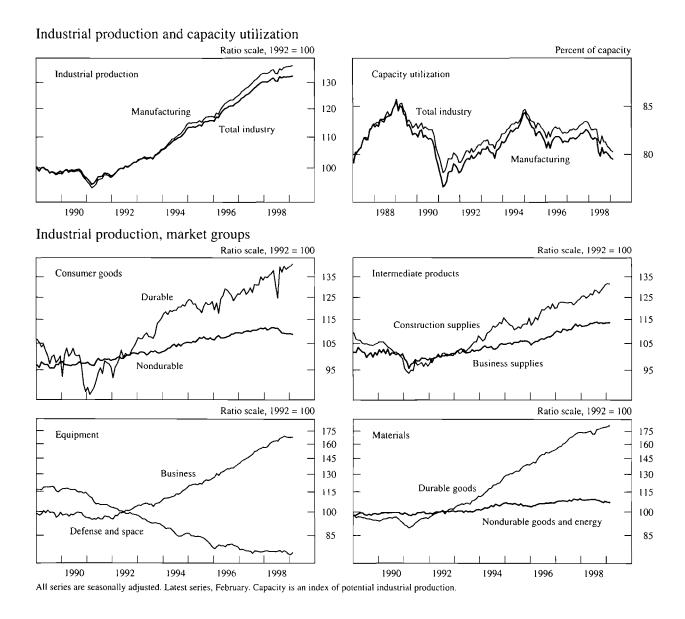
Totals for Treasury issues are from tables A.1, A.2, A.3, and A.4.

## Industrial Production and Capacity Utilization for February 1999

#### Released for publication March 16

Industrial production increased 0.2 percent in February. Mining production rose 0.4 percent, the first increase in a year, while production at utilities decreased 0.6 percent. Manufacturing output increased 0.2 percent, the fifth consecutive month of

increase in that industry group. At 132.6 percent of its 1992 average, industrial production in February was 1.9 percent higher than it had been in February 1998. Overall capacity utilization in February slipped 0.1 percentage point, to 80.3 percent, a level 134 percentage points below its long-term average and 214 percentage points below its February 1998 level.



Industrial production and capacity utilization, February 1999

	Industrial production, index, 1992=100								
Category	1998		1999		Percentage change				
					19981		19991		Feb. 1998
	Nov.	Dec.	Jan. r	Feb.p	Nov.	Dec.	Jan.	Feb. P	to Feb. 1999
Total	132.2	132.4	132.4	132.6	2	.2	.0	.2	1.9
Previous estimate	132.3	132.5	132.5		1	.2	.0		
Major market groups Products, total <sup>2</sup> Consumer goods Business equipment Construction supplies Materials	124.5 114.8 168.1 129.6 144.6	124.4 115.0 167.5 131.1 145.3	124.5 115.1 167.5 131.6 145.2	124.5 115.1 167.8 131.5 145.7	3 4 6 .9	.0 .2 3 1.1	.0 .1 .0 .4 .0	.0 .0 .2 1 .3	1.7 2 6.9 4.6 2.2
Major industry groups         136.4           Manufacturing         161.0           Nondurable         111.6           Mining         101.1           Utilities         110.6    Average, 1967–98	161.0 111.6 101.1	136.6 161.2 111.7 100.0 112.5	136.7 161.5 111.6 97.0 114.6	136.9 162.3 111.4 97.4 114.0	.2 1 .7 9 -5.1	.1 .2 .1 -1.0 1.7	.1 .2 1 -3.0 1.9	.2 .5 2 .4 6	2.4 5.4 -1.2 -9.4 4.5
	Capacity utilization, percent						Мемо Сарасіту,		
	Average		High, 1988–89	1998	1998		1999		per- centage change,
				Feb.	Nov.	Dec. r	Jan. '	Feb.p	Feb. 1998 to Feb. 1999
Total	82.1	71.1	85.4	82.6	80.8	80.7	80.4	80.3	4.8
Previous estimate					80.9	80.8	80.5		
Manufacturing Advanced processing Primary processing Mining Utilities	81.1 80.5 82.4 87.5 87.4	69.0 70.4 66.2 80.3 75.9	85.7 84.2 88.9 88.0 92.6	81.8 80.7 84.7 89.9 86.6	80.1 79.4 82.4 83.8 87.3	79.9 78.9 82.8 82.9 88.7	79.6 78.5 83.0 80.3 90.4	79.5 78.4 82.6 80.5 89.8	5.3 6.4 2.7 1.1

NOTE. Data seasonally adjusted or calculated from seasonally adjusted monthly data.

#### 2. Contains components in addition to those shown

#### MARKET GROUPS

The output of durable consumer goods increased 0.9 percent, a rise buoyed by large increases in the production of appliances and home electronics. In contrast, the production of automotive products edged down 0.1 percent after a strong gain in January. The output of nondurable consumer goods excluding energy decreased for the third consecutive month; part of the decline is attributable to softness for clothing and paper products. The output of consumer energy products, which has been volatile recently, fell 1.1 percent, reversing only part of the 2.8 percent gain in January.

The production of business equipment increased 0.2 percent after having been flat in January. Declines in the output of industrial equipment and transit equipment were more than offset by gains in information processing equipment and other equipment. The gain in the other equipment group resulted from a jump in farm equipment, although output of the latter

remains below its level in the first half of 1998. The output of construction supplies edged down 0.1 percent after four consecutive months of increases. The production of business supplies was flat.

A strong increase in the production of semiconductors contributed to the 0.6 percent increase in the production of durable goods materials. The output of basic metals fell 0.1 percent, and the level of production remained more than 6 percent less than in February 1998. The production of nondurable materials slipped 0.3 percent, a decline reflecting weakness in chemicals and paper materials. The production of energy materials edged up 0.2 percent.

#### **INDUSTRY GROUPS**

Manufacturing output grew 0.2 percent, with a  $\frac{1}{2}$  percent gain in the production of durable goods and a slight pullback in the production of nondurable goods. Durable goods industries that posted increases

<sup>1.</sup> Change from preceding month.

r Revise

p Preliminary.

in production included furniture and fixtures, industrial machinery, electrical machinery, and instruments. Those in which output fell included lumber; aircraft, which continued to edge down from the very high level achieved last year; and motor vehicles and parts, which slipped again although remaining at a high level. The production of nondurable goods edged down 0.2 percent after having declined 0.1 percent in January. Losses were widespread; gains were posted in tobacco products, chemicals, and rubber and plastic products. Mining production increased, as gains in coal output outweighed losses elsewhere.

The factory operating rate slid 0.1 percentage point, to 79.5 percent—2½ percentage points below the level of February 1998. The utilization rate for advanced-processing industries inched down just 0.1 percentage point, while the utilization rate for primary-processing industries fell 0.4 percentage point. The utilization rate for mines edged up 0.2 percentage point but remained well below its long-term average. Temperatures were relatively warm, as has been the case all winter, and the operating rate for utilities dipped to 89.8 percent.

#### **NOTICE**

The capacity estimates in this month's release incorporate a small change in the method used to interpolate the annual estimates of capacity growth to the monthly frequency. The previous monthly capacity figures were computed assuming that capacity growth is constant from the beginning of a year to the end, with potentially abrupt changes in growth rates between the last months of one year and the first months of the next. The new procedure allows capacity growth rates to change smoothly over time; it has been applied to data beginning with October 1998. At the most detailed industry level, the new capacity estimates maintain the same fourth quarter over fourth quarter growth rates that were calculated under the previous procedure. Table 4 now shows fourth quarter over fourth quarter growth rates instead of December over December rates. 

### Statements to the Congress

Statement by Edward M. Gramlich, Member, Board of Governors of the Federal Reserve System, before the Committee on Finance, U.S. Senate, February 9, 1999.

(Governor Gramlich presented identical testimony before the Committee on Ways and Means, U.S. House of Representatives, February 23, 1999.)

I appreciate the opportunity to appear before you today to discuss social security reform. I speak for myself, as past chair of the 1994–1996 Quadrennial Advisory Council on Social Security, and not in my current status as a member of the Federal Reserve Board.

As you are all well aware, the U.S. population is aging. Today there are 3.4 workers per retiree; by 2030 it is projected that there will be only two. This fundamental change in the demographics of our population poses a large challenge: How can we provide adequate health and retirement benefits to our retired population without imposing undue burdens on tomorrow's workers?

Clearly, the answer to this question is that we must act now to increase the total amount of resources to be available in the future. By increasing the size of our economy, we can devote a greater share of output to the retired population without reducing the consumption of the working population. The only way to achieve this critical objective is for us to build up the stock of productive capital by increasing our rate of national saving. Indeed, in the current expansion, investment has expanded at a rapid clip without inducing a rise in interest rates. This investment boom, and the accompanying step-up in the growth of the capital stock, is partly attributable to an increased rate of national saving. Between 1992 and 1998, national saving increased from 3.7 percent to 7.5 percent of net national product. While private and state and local government saving actually dipped during this period, this decline was more than offset by increased saving by the federal government through deficit reduction.

The stellar performance of the economy over recent years provides the nation a unique opportunity to begin to tackle its long-run problems. In particular, the large budget surpluses that are projected over the next fifteen years or so, if they are permitted to materialize, will significantly improve our fiscal and economic position as the baby boom starts to retire. From the government's perspective, using those surpluses to pay down the federal debt will reduce future interest payments and free up future tax revenue; from the macroeconomic perspective, the increase in national saving represented by the increase in government saving will lead to a larger capital stock, higher productivity, and an improved standard of living.

From this standpoint, the broad objective of the Clinton Administration's budget—that is, to preserve most of the projected surpluses—seems to me both responsible and appropriate. The Administration would devote about \$1.4 trillion of the projected \$4.9 trillion of current law surpluses over the next fifteen years to new spending and use the remainder to pay down our national debt. According to the Administration's calculations, the ratio of debt held by the public to gross domestic product would fall from its current 44 percent to 7 percent by 2014. If such an outcome were to materialize, it would represent a dramatic improvement in the fiscal position of the nation.

Under current law, the social security revenues exceed outlays, creating surpluses that are credited to the social security trust fund. Without any legislative changes, the social security trust fund will continue to accumulate funds, reaching a peak in 2020 of \$3.8 trillion, or almost 16 percent of GDP. These surpluses both reduce the national debt *and* improve the long-run fiscal condition of social security. This claim does not stem from any accounting gimmickry: By reducing future interest payments, these surpluses do indeed free up future revenues.

In addition to this accumulation already scheduled under current law, the Administration is proposing to transfer \$2.8 trillion of general revenues to the social security trust fund. While the Administration's rationale for these transfers is to ensure that the surpluses actually materialize, the transfer of general revenues represents a major shift from past practice, under which social security has been financed almost entirely from dedicated payroll taxes.

During the deliberations of the 1994–1996 Quadrennial Advisory Council on Social Security, we considered whether general revenues should be used

to help shore up the social security program. This idea was unanimously rejected, for a number of reasons. First, using general revenues to fund social security puts the social security system in competition with other spending programs during the budget cycle. But social security is a long-range program—people pay dedicated taxes today toward benefits that may not be received for thirty or forty years—and many feel that it should not be part of an annual budgetary allocation process.

Perhaps more important, using general revenues to fund social security undermines the fiscal discipline imposed by the need to ensure that income earmarked for social security is sufficient to meet the entire cost of the program, both in the short run and long run. Without a long-range budget constraint on social security, it will be much more difficult to limit future benefit growth. And, notwithstanding the large surpluses being projected, some reductions in benefits are almost certain to be necessary as the U.S. population ages.

It is important to remember that the aging of the population will bring pressures to programs other than social security. The trustees of the Medicare trust fund project that Medicare expenditures as a

share of GDP will more than double—from 2.7 percent today, to more than 5.8 percent in 2030, and Medicaid spending on long-term care likely will face similar increases. Because under the current budget system, Medicare Part B and Medicaid are financed with general revenues, there is much less pressure to take measures now to improve their long-run financing. But these programs too will put significant demands on government resources in the future. If we use the projected surpluses as a rationale for not making hard choices in social security, finding the resources to provide Medicare and Medicaid to our aging population will prove that much harder.

Thus, there are serious drawbacks to relaxing social security's long-run budget constraint through general revenue transfers. I would prefer social security reforms that maintain the link between dedicated taxes and benefits and maintain the value of long-range actuarial analysis. This discipline is essential if we are to limit the impending explosion of entitlement spending. The President's budget proposal, by preserving future surpluses and paying down our national debt, makes an important contribution to raising national saving. But to me the proposal looks even better without the general revenue transfer.

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking and Financial Services, U.S. House of Representatives, February 11, 1999

It is a pleasure to appear before the committee to present the views of the Federal Reserve on the need to enact legislation to modernize the U.S. financial system. The Federal Reserve continues to support strongly the enactment of such legislation and believes that H.R. 10 contains the fundamental principles that should be included in such legislation. I commend the committee for taking up this vital matter so promptly.

#### THE NEED FOR FINANCIAL REFORM

U.S. financial institutions are today among the most innovative and efficient providers of financial services in the world. They compete, however, in a marketplace that is undergoing major and fundamental change driven by a revolution in technology, by dramatic innovations in the capital markets, and by the globalization of the financial markets and the financial services industry.

For these reasons, we support, as we have for many years, major revisions, such as those included in H.R. 10, to the Glass-Steagall Act and the Bank Holding Company Act to remove the legislative barriers against the integration of banking, insurance, and securities activities. There is virtual unanimity among all concerned—private and public alike—that these barriers should be removed. The technologically driven proliferation of new financial products that enable risk unbundling have been increasingly combining the characteristics of banking, insurance, and securities products into single financial instruments. These changes, which are occurring all over the world, have also dramatically altered the way financial services providers operate and the way they deliver their products.

In the United States, our financial institutions have been required to take elaborate steps to develop and deliver new financial products and services in a manner that is consistent with our outdated laws. The costs of these efforts are becoming increasingly burdensome and serve no useful public purpose. Unless soon repealed, the archaic statutory barriers to efficiency could undermine the global dominance of American finance, as well as the continued competitiveness of our financial institutions and their ability

to innovate and to provide the best and broadest possible services to U.S. consumers.

We believe that it is important that the rules for our financial services industry be set by the Congress rather than, as too often has been the case, by banking regulators dealing with our outdated laws. Only the Congress has the ability to fashion rules that are comprehensive and equitable to all participants and that guard the public interest.

The market will continue to force change whether or not the Congress acts. Without congressional action, changes will occur through exploitation of loopholes and marginal interpretations of the law that courts feel obliged to sanction. This type of response to market forces leads to inefficiencies and inconsistencies, expansion of the federal safety net, potentially increased risk exposure to the federal deposit insurance funds, and a system that will undermine the competitiveness and innovative edge of major segments of our financial services industry. Delay in acting on financial modernization legislation limits the Congress's options as these developments proliferate and complicate, increases the difficulty of enacting the safeguards included in H.R. 10 to protect safety and soundness and the public interest, and denies to consumers the benefits that immediate changes in our outdated banking laws will surely bring.

H.R. 10 also recognizes another dimension of the changing nature of banking and financial markets: that financial modernization means more than authorizing new powers and affiliations. Not only are we experiencing a revolution in financial products and their delivery, but the United States is also at a historic crossroads in financial services *regulation*. It is becoming increasingly evident that the dramatic advances in computer and telecommunications technologies of the past decade have so significantly altered the structure of domestic, indeed, global finance as to render our existing modes of supervision and regulation of financial institutions increasingly obsolescent.

The volume, sophistication, and rapidity of financial dealings will inevitably lead to supervisory emphasis on oversight of risk management of financial institutions and a marked scaling back of outmoded loan file and balance sheet surveillance. As we move into the twenty-first century, the remnants of nineteenth-century bank examination philosophies will fall by the wayside. Banks, of course, will still need to be supervised and regulated, in no small part because they are subject to the safety net. My point is, however, that the nature and extent of that effort need to become more consistent with market reali-

ties. Moreover, affiliation with banks need not—indeed, should not—create bank-like regulation of affiliates of banks.

This shift in supervisory mode, which is already under way, is market driven. It is not the result of some potentially reversible ideology. Such an approach is captured in H.R. 10 in many of the so-called "Fed-light" provisions, and we at the Fed strongly support this approach.

H.R. 10 also, in our judgment, has chosen the appropriate structure to combine banking, securities, and insurance firms using financial service holding companies. While we enthusiastically support the new powers granted to financial service holding companies, we just as strongly believe that they should be financed by the marketplace, not by instruments backed by the sovereign credit of the United States. The requirement that the new powers be conducted through holding company affiliates minimizes the expansion of the use of the subsidies arising from a safety net backed by the U.S. taxpayer and serves to promote the safety and soundness and stability of our banking and financial system.

The rejection of expanded powers for subsidiaries of commercial banks, at least those conducted as principal, is a decision that will inhibit the widespread employment of federal subsidies over a wide range of activities. These activities, if conducted in bank subsidiaries, would accord banking organizations an unfair competitive advantage over comparable insurance and securities firms operating independently or as bank holding company subsidiaries.

Even more important, to inject the substantial new subsidies that would accrue to operating subsidiaries of banks into the currently mushrooming domestic and international financial system could distort capital markets and the efficient allocation of both financial and real resources that has been so central to America's current prosperity. The choice of requiring the new powers to be harbored in affiliates of holding companies, not in the so-called op-subs of their banks, will significantly fashion the underlying structure of twenty-first-century finance.

Another twenty-first-century issue is whether we should move beyond affiliations among financial service providers and allow the full integration of banking and commerce. As technology increasingly blurs the distinction among various financial products, it is already beginning to blur the distinctions between predominately commercial and banking firms. We cannot rule out whether sometime in our future full integration may occur, potentially with increased efficiencies. But how the underlying subsidies of deposit insurance, discount window access, and guaranteed

final settlement through Fedwire are folded into a commercial firm, should the latter purchase a bank, is crucially important to the systemic stability of our financial system.

It seems to us wise to move first toward the integration of banking, insurance, and securities as envisioned in H.R. 10 and employ the lessons we learn from that important step before we consider whether and under what conditions it would be desirable to move to the second stage of the full integration of commerce and banking. Nothing is lost, in my judgment, by making this a two-stage process. Indeed, there is much to be gained. The Asian crisis last year highlighted some of the risks that can arise if relationships between banks and commercial firms are too close and make caution at this stage prudent in our judgment. In line with these considerations, the Board continues to support elimination of the unitary thrift loophole, which currently allows any type of commercial firm to control a federally insured depository institution.

These principles, which we see as fundamental to financial modernization, are embodied in H.R. 10. As in all such major legislation, there are, and will be, numerous provisions only indirectly associated with the legislation's core principles that often foster disagreements. These surrounding details are doubtless important, but not so important that they should be allowed to defeat the consensus that has developed around the key principles embodied in H.R. 10. It would be a disservice to the public and the nation if, in the fruitless search for a bill that pleases everyone in every detail, the benefits of this vital consensus are lost or further delayed.

The decision to use the holding company structure, and not the universal bank, as the appropriate structure to allow new securities and insurance affiliations is strongly driven by several key principles embodied in H.R. 10. These principles include that new powers and affiliations should be financed by the market and not by the sovereign credit of the United States, and that supervision of nonbank affiliates must not use the exhaustive bank examination method.

Importantly, that decision also prevents the spread of the safety net that would inevitably lead to a weakening of the competitive strength of large segments of our financial services industry because those securities, insurance, and other financial services providers that do not operate as subsidiaries of banks would be at a serious disadvantage to similar firms owned by banks. By fostering a level playing field within the financial services industry, we contribute to full, open, and fair competition as we enter the next century.

This choice of the holding company structure is also critical to the way in which the financial services industry will develop because it provides better protection for, and promotes the safety and soundness of, our banking and financial system without damaging the national or state bank charters or limiting in any way the benefits of financial modernization. The other route toward full-powered commercial bank operating subsidiaries and universal banking would, in our judgment, lead to greater risk for the deposit insurance funds and the taxpayer. It is for these reasons that the Federal Reserve, Securities and Exchange Commission, many state functional regulators, and many in the affected industries have supported the holding company framework and have opposed the universal bank approach.

In virtually every other industry, the Congress would not be asked to address issues such as these, which are associated with technological and market developments; the market would force the necessary institutional adjustments. Arguably, this difference reflects the painful experience that has taught us that developments in our banking system can have profound effects on the stability of our whole economy, rather than the limited impact we perceive from difficulties in most other industries.

Moreover, as a society we have made the choice to create a safety net for depository institutions, not only to protect the public's deposits but also to minimize the impact of adverse banking developments on our economy. Although we have clearly been successful in doing so, the safety net has predictably shielded bank shareholders from the full consequences of the risks their banks take. Moreover, since the sovereign credit of the United States fosters the stability of the banking system and guarantees the claims of insured depositors, bank creditors do not apply the same self-interest monitoring of banks to protect their own position as they would without discount window access and deposit insurance. As a consequence, to redress the balance of risk-taking, entities with access to the safety net are required to be supervised and regulated. In this way, the U.S. government protects its own—that is, the taxpayers'-interest, which is the cost of making good on the guarantee.

Put another way, the safety net requires that the government replace with law, regulation, and supervision much of the disciplinary role that the market plays for other businesses. Our experience in the 1980s with insured thrift institutions illustrates the necessity of avoiding expanding risks to the deposit insurance funds and lax supervisory policies and rules. But this necessity has an obvious downside:

These same rules limit innovative responses and the ability to take the risks so necessary for economic growth. The last thing we should want, therefore, is to widen or spread this unintended, but nevertheless corrosive, dimension of the safety net to other financial and business entities and markets. It is clear that to do so would not only spread a subsidy to new forms of risk-taking but would ultimately require the expansion of bank-like supervision as well.

In our judgment, the holding company approach upon which H.R. 10 is premised avoids this pitfall; the universal bank approach cannot.

While financial modernization represents much needed reform, we should not forget that this modernization will, by itself, introduce dramatic changes in our financial services industry. We feel confident that the risks of this type of reform are manageable within the holding company framework set out in H.R. 10.

There is a final point I want to make because it appears to have driven Treasury's opposition to last year's version of H.R. 10. H.R. 10 would not diminish the ability of the executive branch to continue to play its meaningful role in the development of banking or economic policy. Currently, the executive branch influences such policy primarily through its supervision of national banks and federal savings associations. H.R. 10 would not alter the executive branch's supervisory authority for national banks or federal savings associations, nor would it result in any reduction in the predominant and growing share of this nation's banking assets controlled by national banks and federal savings associations. Indeed, as of September 1998, nearly 58 percent of all banking

assets were under the supervision of the Comptroller of the Currency, up from 55.2 percent at the end of 1996. Moreover, after controlling for mergers of like-chartered banks, the number of national banks has increased over the period 1996–98 and the number of state banks has declined.

Furthermore, the Congress for sound public policy reasons has purposefully apportioned responsibility for this nation's financial institutions among the elected executive branch and independent regulatory agencies. H.R. 10 retains this balance, and the Federal Reserve does not believe it would serve any useful purpose to alter it. Such action would be contrary to the deliberate steps that the Congress has taken to ensure a proper balance in the regulation of this nation's dual banking system.

#### **CONCLUSION**

The markets are demanding that we change outdated statutory limitations that stand in the way of more efficiently and effectively delivering financial services to the public. Many of these changes will occur even if the Congress does not act, but only the Congress can establish the ground rules designed to ensure the maximum net public benefits, protect the safety and soundness of our financial system, create a fair and level playing field for all participants, and ensure the continued primacy of U.S. financial markets. For these reasons, the Federal Reserve supports and urges prompt enactment of the financial modernization contained in H.R. 10.

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, February 23, 1999.

(Chairman Greenspan presented identical testimony before the Committee on Banking and Financial Services, U.S. House of Representatives, February 24, 1999.)

I appreciate the opportunity to present the Federal Reserve's semiannual report on monetary policy.

The U.S. economy over the past year again performed admirably. Despite the challenges presented by severe economic downturns in a number of foreign countries and episodic financial turmoil abroad and at home, our real gross domestic product grew

about 4 percent for a third straight year. In 1998, 2<sup>3</sup>/<sub>4</sub> million jobs were created on net, bringing the total increase in payrolls to more than 18 million during the current economic expansion, which late last year became the longest in U.S. peacetime history. Unemployment edged down further to a 4<sup>1</sup>/<sub>4</sub> percent rate, the lowest since 1970.

And despite taut labor markets, inflation also fell to its lowest rate in many decades by some broad measures, although a portion of this decline owed to decreases in oil, commodity, and other import prices that are unlikely to be repeated. Hourly labor compensation adjusted for inflation posted further impressive gains. Real compensation gains have been supported by robust advances in labor productivity, which in turn have partly reflected heavy investment in plant and equipment, often embodying innovative technologies.

Can this favorable performance be sustained? In many respects the fundamental underpinnings of the recent U.S. economic performance are strong. Flexible markets and the shift to surplus on the books of the federal government are facilitating the buildup in cutting-edge capital stock. That buildup in turn is spawning rapid advances in productivity that are helping to keep inflation well behaved. The new technologies and the optimism of consumers and investors are supporting asset prices and sustaining spending.

But after eight years of economic expansion, the economy appears stretched in a number of dimensions, implying considerable upside and downside risks to the economic outlook. The robust increase of production has been using up our nation's spare labor resources, suggesting that recent strong growth in spending cannot continue without a pickup in inflation unless labor productivity growth increases significantly further. Equity prices are high enough to raise questions about whether shares are overvalued. The debt of the household and business sectors has mounted, as has the external debt of the country as a whole, reflecting the deepening current account deficit. We remain vulnerable to rapidly changing conditions overseas, which, as we saw last summer, can be transmitted to U.S. markets quickly and traumatically. I will be commenting on many of these issues as I review the developments of the past year and the prospects going forward. In light of all these risks, monetary policy must be ready to move quickly in either direction should we perceive imbalances and distortions developing that could undermine the economic expansion.

#### RECENT DEVELOPMENTS

A hallmark of our economic performance over the past year was the continuing sharp expansion of business investment spending. Competitive global markets and persisting technological advances both spurred the business drive to become more efficient and induced the price declines for many types of new equipment that made capital spending more attractive.

Business success in enhancing productivity and the expectation of still further, perhaps accelerated, advances buoyed public optimism about profit prospects, which contributed to another sizable boost in equity prices. Rising household wealth along with strong growth in real income, related to better pay, slower inflation, and expanding job opportunities,

boosted consumption at the fastest clip in a decade and a half. The gains in income and wealth last year, along with a further decrease in mortgage rates, also prompted considerable activity in the housing sector.

The impressive performance of the private sector was reflected in a continued improvement in the federal budget. Burgeoning receipts, along with continuing restraint on federal spending, produced the first unified budget surplus in thirty years, allowing the Treasury to begin to pay down the federal debt held by the public. This shift in the federal government's fiscal position has fostered an increase in overall national saving as a share of GDP to 17½ percent from the 14½ percent low reached in 1993. This rise in national saving has helped to hold down real interest rates and to facilitate the financing of the boom in private investment spending.

Foreign savers have provided an additional source of funds for vigorous domestic investment. The counterpart of our high and rising current account deficit has been ever-faster increases in the net indebtedness of U.S. residents to foreigners. The rapid widening of the current account deficit has some disquieting aspects, especially when viewed in a longer-term context. Foreigners presumably will not want to raise indefinitely the share of their portfolios in claims on the United States. Should the sustainability of the buildup of our foreign indebtedness come into question, the exchange value of the dollar may well decline, imparting pressures on prices in the United States.

In the recent economic environment, however, the widening of the trade and current account deficits had some beneficial aspects. It provided a safety valve for strong U.S. domestic demand, thereby helping to restrain pressures on U.S. resources. It also cushioned, to some extent, economic weakness in our trading partners.

Moreover, decreasing import prices, which partly came from the appreciation of the dollar through midsummer, contributed to low overall U.S. inflation, as did ample manufacturing capacity in the United States and lower prices for oil and other commodities stemming from the weak activity abroad. The marked drop in energy prices significantly contributed to the subdued, less than 1 percent, increase in the price index for total personal consumption expenditures during 1998. In addition, supported by rapid accumulation of more efficient capital, the growth of labor productivity picked up last year, allowing nominal labor compensation to post another sizable gain without putting added upward pressure on costs and prices. I shall return to an analysis of the extraordinary performance of inflation later in my remarks.

The Federal Open Market Committee (FOMC) conducted monetary policy last year with the aim of sustaining the remarkable combination of economic expansion and low inflation. At its meetings from March to July, the inflation risks accompanying the continued strength of domestic demand and the tightening of labor markets necessitated that the FOMC place itself on heightened inflation alert. Although the FOMC kept the nominal federal funds rate unchanged, it allowed the real funds rate to rise with continuing declines in inflation and, presumably, inflation expectations. In August, the FOMC returned to an unbiased policy predilection in response to the adverse implications for the U.S. outlook of worsening conditions in foreign economies and in global financial markets, including our own.

Shortly thereafter, a further deterioration in financial market conditions began to pose a more serious threat to economic stability. In the wake of the Russian crisis and subsequent difficulties in other emerging-market economies, investors perceived that the uncertainties in financial markets had broadened appreciably, and as a consequence, they became decidedly more risk averse. Safe-haven demands for U.S. Treasury securities intensified at the expense of private debt securities. As a result, quality spreads escalated dramatically, especially for lower-rated issuers. Many financial markets turned illiquid, with wider bid-asked spreads and heightened price volatility, and issuance was disrupted in some private securities markets. Even the liquidity in the market for seasoned issues of U.S. Treasury securities dried up, as investors shifted toward the more actively traded, recently issued securities and dealers pared inventories, fearing that heightened price volatility posed an unacceptable risk to their capital.

Responding to losses in foreign financial markets and to pressures from counterparties, highly leveraged investors began to unwind their positions, which further weighed on market conditions. As credit became less available to business borrowers in capital markets, their demands were redirected to commercial banks, which reacted to the enlarged borrowing and more uncertain business prospects by tightening their standards and terms on such lending.

To cushion the domestic economy from the impact of the increasing weakness in foreign economies and the less accommodative conditions in U.S. financial markets, the FOMC, beginning in late September, undertook three policy easings. By mid-November, the FOMC had reduced the federal funds rate from 5½ percent to 4¾ percent. These actions were taken to rebalance the risks to the outlook, and, in the event, the markets have recovered appreciably. Our

economy has weathered the disturbances with remarkable resilience, though some yield and bidasked spreads still reflect a hesitancy on the part of market participants to take on risk. The Federal Reserve must continue to evaluate, among other issues, whether the full extent of the policy easings undertaken last fall to address the seizing-up of financial markets remains appropriate as those disturbances abate.

To date, domestic demand and hence employment and output have remained vigorous. Real GDP is estimated to have risen at an annual rate exceeding 5½ percent in the fourth quarter of last year. Although some slowing from this torrid pace is most likely in the first quarter, labor markets remain exceptionally tight, and the economy evidently retains a great deal of underlying momentum despite the global economic problems and the still-visible remnants of the earlier financial turmoil in the United States. At the same time, no evidence of any upturn in inflation has, as yet, surfaced.

Abroad the situation is mixed. In some East Asian countries that, in recent years, experienced a loss of investor confidence, a severe currency depreciation, and a deep recession, early signs of stabilization and economic recovery have appeared. This is particularly the case for Korea and Thailand. Authorities in those countries, in the context of International Monetary Fund (IMF) stabilization programs, early on established appropriate macroeconomic policies and undertook significant structural reforms to buttress the banking system and repair the finances of the corporate sector. As investor confidence has returned, exchange rates have risen and interest rates have fallen. With persistence and follow-through on reforms, the future of those economies has promise.

The situations in some other emerging market economies are not as encouraging. The Russian government's decision in mid-August to suspend payments on its domestic debt and devalue the ruble took markets by surprise. Investor flight exacerbated the collapse of prices in Russian financial markets and led to a sharp depreciation of the ruble. The earlier decline in output gathered momentum, and by late in the year, inflation had moved up to a triple-digit annual rate. Russia's stabilization program with the IMF has been on hold since the financial crisis hit, and the economic outlook there remains troubling.

The Russian financial crisis immediately spilled over to some other countries, hitting Latin America especially hard. Countering downward pressure on the exchange values of the affected currencies, interest rates moved sharply higher, especially in Brazil. As a consequence of the high interest rates and

growing economic uncertainty, Brazil's economic activity took a turn for the worse. Higher interest rates also had negative consequences for the fiscal outlook, as much of Brazil's substantial domestic debt effectively carries floating interest rates. With budget reform legislation encountering various setbacks, market confidence waned further and capital outflows from Brazil continued, drawing down foreign currency reserves. Ultimately, the decision was taken to allow the *real* to float, and it subsequently depreciated sharply.

Brazilian authorities must walk a very narrow, difficult path of restoring confidence and keeping inflation contained with monetary policy while dealing with serious fiscal imbalances. Although the situation in Brazil remains uncertain, there has been limited contagion to other countries thus far. Apparently, the slow onset of the crisis has enabled many parties with Brazilian exposures to hedge those positions or allow them to run off. With the net exposure smaller, and increasingly held by those who both recognized the heightened risk and were willing to bear it, some of the elements that might have contributed to further contagion may have been significantly reduced.

#### THE ECONOMIC OUTLOOK

These recent domestic and international developments provide the backdrop for U.S. economic prospects. Our economy's performance should remain solid this year, though likely with a slower pace of economic expansion and a slightly higher rate of overall inflation than last year. The stocks of business equipment, housing, and household durable goods have been growing rapidly to quite high levels relative to business sales or household incomes during the past few years, and some slowing in the growth of spending on these items seems a reasonable prospect. Moreover, part of the rapid increase in spending, especially in the household sector, has resulted from the surge in wealth associated with a run-up in equity prices that is unlikely to be repeated. And the purchasing power of income and wealth has been enhanced by declines in oil and other import prices, which also are unlikely to recur this year. Assuming that aggregate demand decelerates, underlying inflation pressures, as captured by core price measures, in all likelihood will not intensify significantly in the year ahead, though the Federal Reserve will need to monitor developments carefully. We perceive stable prices as optimum for economic growth. Both inflation and deflation raise volatility and risks that thwart maximum economic growth.

Most governors and Reserve Bank presidents foresee that economic growth this year will slow to a 2½ percent to 3 percent rate. Such growth would keep the unemployment rate about unchanged. The central tendency of the governors' and presidents' predictions of consumer price index (CPI) inflation is 2 percent to 2½ percent. This level represents a pickup from last year, when energy prices were falling, but it is in the vicinity of core CPI inflation over the last couple of years.

This outlook involves several risks. The continuing downside risk posed by possible economic and financial instability around the world was highlighted earlier this year by the events in Brazil. Although financial contagion elsewhere has been limited to date, more significant knock-on effects in financial markets and in the economies of Brazil's important trading partners, including the United States, are still possible. Moreover, the economies of several of our key industrial trading partners have shown evidence of weakness, which if it deepens could further depress demands for our exports.

Another downside risk is that growth in capital spending, especially among manufacturers, could weaken appreciably if pressures on domestic profit margins mount and capacity utilization drops further. And it remains to be seen whether corporate earnings will disappoint investors, even if the slowing of economic growth is only moderate. Investors appear to have incorporated into current equity price levels both robust profit expectations and low compensation for risk. As the economy slows to a more sustainable pace as expected, profit forecasts could be pared back, which together with a greater sense of vulnerability in business prospects could damp appetites for equities. A downward correction to stock prices and an associated increase in the cost of equity capital could compound a slowdown in the growth of capital spending. In addition, a stock market decline would tend to restrain consumption spending through its effect on household net worth.

But on the upside, our economy has proved surprisingly robust in recent years. More rapid increases in capital spending, productivity, real wages, and asset prices have combined to boost economic growth far more and far longer than many of us would have anticipated.

This "virtuous cycle" has been able to persist because the behavior of inflation has also been surprisingly favorable, remaining well contained at levels of utilization of labor that in the past would have produced accelerating prices. That it has not done so in recent years has been the result of a combination of special one-time factors holding down prices and more lasting changes in the processes determining inflation.

Among the temporary factors, the sizable declines in the prices of oil, other internationally traded commodities, and other imports contributed directly to holding down inflation last year and also indirectly by reducing inflation expectations. But these prices are not likely to fall further, and they could begin to rise as some Asian economies revive and the effects of the net depreciation of the dollar since midsummer are felt more strongly.

At the same time, however, recent experience does seem to suggest that the economy has become less inflation prone than in the past, so that the chances of an inflationary breakout arguably are, at least for now, less than they would have been under similar conditions in earlier cycles.

Several years ago I suggested that worker insecurity might be an important reason for unusually damped inflation. From the early 1990s through 1996, survey results indicated that workers were becoming much more concerned about being laid off. Workers' underlying fear of technology-driven job obsolescence, and hence willingness to stress job security over wage increases, appeared to have suppressed labor cost pressures despite a reduced unemployment rate. More recently, that effect seems to have diminished in part. So while job loss fears probably contributed to wage and price suppression through 1996, it does not appear that a further heightening of worker insecurity about employment prospects can explain the more recent improved behavior of inflation.

Instead, a variety of evidence, anecdotal and otherwise, suggests that the source of recent restrained inflation may be emanating more from employers than from employees. In the current economic setting, businesses sense that they have lost pricing power and generally have been unwilling to raise wages any faster than they can support at current price levels. Firms have evidently concluded that if they try to increase their prices, their competitors will not follow, and they will lose market share and profits.

Given the loss of pricing power, it is not surprising that individual employers resist pay increases. But why has pricing power of late been so delimited? Monetary policy certainly has played a role in constraining the rise in the general level of prices and damping inflation expectations over the 1980s and 1990s. But our current discretionary monetary policy has difficulty anchoring the price level over time in the same way that the gold standard did in the last century.

Enhanced opportunities for productive capital investment to hold down costs also may have helped to damp inflation. Through the 1970s and 1980s, firms apparently found it easier and more profitable to seek relief from rising nominal labor costs through price increases than through cost-reducing capital investments. Price relief evidently has not been available in recent years. But relief from cost pressures has. The newer technologies have made capital investment distinctly more profitable, enabling firms to substitute capital for labor far more productively than they would have a decade or two ago.

Starting in 1993, capital investment, especially in high-tech equipment, rose sharply beyond normal cyclical experience, apparently the result of expected increases in rates of return on the new investment. Had the profit expectations not been realized, one would have anticipated outlays to fall back. Instead, their growth accelerated through the remainder of the decade.

More direct evidence confirms improved underlying profitability. According to rough estimates, labor and capital productivity has risen significantly during the past five years. It seems likely that the synergies of advances in laser, fiber optic, satellite, and computer technologies with older technologies have enlarged the pool of opportunities to achieve a rate of return above the cost of capital. Moreover, the newer technologies have facilitated a dramatic foreshortening of the lead times on the delivery of capital equipment over the past decade, presumably allowing businesses to react more expeditiously to an actual or expected rise in nominal compensation costs than, say, they could have in the 1980s. In addition, the surge in investment not only has restrained costs, but has also increased industrial capacity faster than factory output has risen. The resulting slack in product markets has put greater competitive pressure on businesses to hold down prices, despite taut labor markets.

The role of technology in damping inflation is manifest not only in its effects on U.S. productivity and costs but also through international trade, where technological developments have progressively broken down barriers to cross-border trade. The enhanced competition in tradable goods has enabled excess capacity previously bottled up in one country to augment worldwide supply and exert restraint on prices in all countries' markets. The resulting price discipline also has constrained nominal wage gains in internationally tradable goods industries. As workers have attempted to shift to other sectors, gains in nominal wages and increases in prices in nontradeable goods industries have been held down as well.

The process of price containment has potentially become, to some extent, self-reinforcing. Lower inflation in recent years has altered expectations. Workers no longer believe that escalating gains in nominal wages are needed to reap respectable increases in real wages, and their remaining sense of job insecurity is reinforcing this. Because neither firms nor their competitors can count any longer on a general inflationary tendency to validate decisions to raise their own prices, each company feels compelled to concentrate on efforts to hold down costs. The availability of new technology to each company and its rivals affords both the opportunity and the competitive necessity of taking steps to boost productivity.

It is difficult to judge whether these significant shifts in the market environment in which firms function are sufficient to account for our benign overall price behavior during the past half decade. Undoubtedly, other factors have been at work as well, including those temporary factors I mentioned earlier and some more lasting I have not discussed, such as worldwide deregulation and privatization, and the freeing-up of resources previously employed to produce military products that was brought about by the end of the cold war. There also may be other contributory forces lurking unseen in the wings that will only become clear in time. Over the longer run, of course, the actions of the central bank determine the degree of overall liquidity and hence rate of inflation. It is up to us to validate the favorable inflation developments of recent years.

Although the pace of productivity increase has picked up in recent years, the extraordinary strength of demand has meant that the substitution of capital for labor has not prevented us from rapidly depleting the pool of available workers. This worker depletion constitutes a critical upside risk to the inflation outlook because it presumably cannot continue for very much longer without putting increasing pressure on labor markets and on costs.

The number of people willing to work can be usefully defined as the unemployed component of the labor force plus those not actively seeking work, and thus not counted in the labor force, but who nonetheless say they would like a job if they could get one. This pool of potential workers aged sixteen to sixty-four currently numbers about 10 million, or just 5¾ percent of that group's population—the lowest such percentage on record, which begins in 1970, and 2½ percentage points below its average over that period. The rapid increase in aggregate demand has generated growth of employment in excess of growth in population, causing the number of potential work-

ers to fall since the mid-1990s at a rate of a bit less than 1 million annually. We cannot judge with precision how much further this level can decline without sparking ever-greater upward pressures on wages and prices. But, should labor market conditions continue to tighten, there has to be some point at which the rise in nominal wages will start increasingly outpacing the gains in labor productivity, and prices inevitably will begin to accelerate.

#### RANGES FOR MONEY AND CREDIT

At its February meeting, the Committee elected to ratify the provisional ranges for all three aggregates that it had established last July. Specifically, the Committee again has set growth rate ranges over the four quarters of 1999 of 1 percent to 5 percent for M2, 2 percent to 6 percent for M3, and 3 percent to 7 percent for domestic nonfinancial debt. As in previous years, the Committee interpreted the ranges for the broader monetary aggregates as benchmarks for what money growth would be under conditions of price stability and sustainable economic growth, assuming historically typical velocity behavior.

Last year, these monetary aggregates far overshot the upper bounds of their annual ranges. Although nominal GDP growth did exceed the rate likely consistent with sustained price stability, the rapid growth of M2 and M3 also reflected outsized declines in their velocities, that is, the ratio of nominal GDP to money. M2 velocity dropped about 3 percent, while M3 velocity plunged 5½ percent.

Part of these velocity declines reflected some reduction in the opportunity cost of holding money; interest rates on Treasury securities, which represent an alternative return on nonmonetary assets, dropped more than did the average of interest rates on deposits and money market mutual funds in M2, drawing funds into the aggregate. Even so, much of last year's aberrant behavior of broad money velocity cannot readily be explained by conventional determinants. Although growth of the broad aggregates was strong earlier in the year, it accelerated in the fourth quarter after credit markets became turbulent. Perhaps robust money growth late in the year partly reflected a reaction to this turmoil by the public, who began scrambling for safer and more liquid financial assets. Monetary expansion has moderated so far this year, evidently in lagged response to the calming of financial markets in the autumn. Layered on top of these influences, though, the public also may have been reapportioning their savings flows into money balances because the huge run-up in stock prices in recent years has resulted in an uncomfortable portion of their net worth in equity.

For the coming year, the broad monetary aggregates could again run high relative to these ranges. To be sure, the decline in the velocities of the broader aggregates this year should abate to some extent, as money demand behavior returns more to normal, and growth in nominal GDP should slow as well, as suggested by the governors' and presidents' central tendency. Both factors would restrain broad money expansion relative to last year. Still, the growth of M2 and M3 could well remain outside their price-stability ranges this year. Obviously, considerable uncertainty continues to surround the prospective behavior of monetary velocities and growth rates.

Domestic nonfinancial debt seems more likely than the monetary aggregates to grow within its range for this year. Indeed, domestic nonfinancial debt also could grow more slowly this year than last year's 61/4 percent pace, which was in the upper part of its 3 percent to 7 percent annual range. With the federal budget surplus poised to widen further this year, federal debt should contract even more quickly than last year. And debt in each of the major nonfederal sectors in all likelihood will decelerate as well from last year's relatively elevated rates, along with the projected slowing of nominal GDP growth.

#### THE FOMC'S DISCLOSURE POLICY

The FOMC at recent meetings has discussed not only the stance of policy but also when and how it communicates its views of the evolving economic situation to the public. The FOMC's objective is to release as much information about monetary policy decisionmaking, and as promptly, as is consistent with maintaining an effective deliberative process and avoiding roiling markets unnecessarily. Since early 1994, each change in the target nominal federal funds rate has been announced immediately with a brief rationale for the action. The FOMC resolved at its December meeting to take advantage of an available, but unused policy, originally stated in early 1995, of releasing, on an infrequent basis, a statement immediately after some FOMC meetings at which the stance of monetary policy has not been changed. The Federal Reserve will release such a statement when it wishes to communicate to the public a major shift in its views about the balance of risks or the likely direction of future policy. Such an announcement need not be made after every change in the tilt of the directive. Instead, this option would be reserved for situations in which the consensus of the Committee clearly had shifted significantly, though not by enough to change current policy, and in which the absence of an explanation risked misleading markets about the prospects for monetary policy.

#### YEAR 2000 ISSUES

Before closing, I'd like to address an issue that has been receiving increasing attention—the century date change. While no one can say that the rollover to the year 2000 will be trouble free, I am impressed by the efforts to date to address the problem in the banking and financial system. For our part, the Federal Reserve System has now completed remediation and testing of 101 of its 103 mission-critical applications, with the remaining two to be replaced by the end of March. We opened a test facility in June at which more than 6,000 depository institutions to date have conducted tests of their Y2K compliant systems, and we are well along in our risk mitigation and contingency planning activities. As a precautionary measure, the Federal Reserve has acted to increase the currency in inventory about one-third to approximately \$200 billion in late 1999 and has other contingency arrangements available if needed. Although we do not expect currency demand to increase dramatically, the Federal Reserve believes it is important for the public to have confidence in the availability of cash in advance of the rollover. As a result of these kinds of activities, I can say with assurance that the Federal Reserve will be ready in both its operations and planning activities for the millennium rollover.

The banking industry is also working hard, and with evident success, to prepare for the event. By the end of the first quarter, every institution in the industry will have been subject to two rounds of on-site Y2K examinations. The Federal Reserve, like the other regulators, has found that only a small minority of institutions has fallen behind in their preparations, and those institutions have been targeted for additional follow-up and, as necessary, formal enforcement actions. The overwhelming majority of the industry has made impressive progress in their remediation, testing, and contingency planning efforts.

## CONCLUDING COMMENT

Americans can justifiably feel proud of their recent economic achievements. Competitive markets, with open trade both domestically and internationally, have kept our production efficient and on the expanding frontier of technological innovation. The determination of Americans to improve their skills and knowledge has allowed workers to be even more productive, elevating their real earnings. Macroeconomic policies have provided a favorable setting for the public to take greatest advantage of opportunities to improve its economic well-being. The restrained fiscal policy of the Administration and the Congress has engendered the welcome advent of a unified budget surplus, freeing up funds for capital investment. A continuation of responsible fiscal and, we trust, monetary policies should afford Americans the opportunity to make considerable further economic progress over time.

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, February 23, 1999

The committee has asked that, in addition to my report on the economy, I present today the views of the Federal Reserve on the need for legislation to modernize the U.S. financial system. The Federal Reserve continues to support strongly the enactment of such legislation, and I commend the committee for taking up this vital matter so promptly.

#### NEED FOR FINANCIAL MODERNIZATION

U.S. financial institutions are today among the most innovative and efficient providers of financial services in the world. They compete, however, in a marketplace that is undergoing major and fundamental change driven by a revolution in technology, by dramatic innovations in the capital markets, and by the globalization of the financial markets and the financial services industry.

The technologically driven proliferation of new financial products that enable risk unbundling has created new financial instruments that increasingly combine the characteristics of banking, insurance, and securities products. These changes, which are occurring all over the world, have also dramatically altered the way financial services providers operate and the way they market and deliver their products.

In the United States, our financial institutions have been required to take elaborate steps to develop and deliver new financial products and services in a manner that is consistent with our outdated laws. The costs of these efforts are becoming increasingly burdensome and serve no useful public purpose. Unless soon repealed, the archaic statutory barriers to efficiency could undermine the competitiveness of our financial institutions, their ability to innovate and to provide the best and broadest possible services to U.S. consumers, and ultimately, the global dominance of American finance.

Without congressional action to update our laws, the market will force ad hoc administrative responses that lead to inefficiencies and inconsistencies, expansion of the federal safety net, and potentially increased risk exposure to the federal deposit insurance funds. Such developments will undermine the competitiveness and innovative edge of major segments of our financial services industry. We believe that it is important that the rules for our financial services industry be set by the Congress rather than, as too often has been the case, by banking regulators dealing with our outdated laws. Only the Congress has the ability to fashion rules that are comprehensive and equitable to all participants and that guard the public interest.

For these reasons, we support removal of the legislative barriers that prohibit the straightforward integration of banking, insurance, and securities activities. There is virtual unanimity among all concerned—private and public alike—that these barriers should be removed.

In designing financial modernization legislation, we firmly believe that the Congress should focus on achieving two essential and indivisible objectives: removing outdated, competitively stifling restrictions on financial affiliations and, most important, adopting a framework for this modernization that promotes the safety and soundness of our banking and financial system and prevents the extension of the federal subsidy.

#### FRAMEWORK FOR FINANCIAL MODERNIZATION

The first objective is achieved by amending the Glass-Steagall Act and the Bank Holding Company Act to permit financial affiliations and broader financial activities.

In our judgment, the other objective of preserving safety and soundness and preventing the spread of the federal subsidy is best achieved by allowing banks, securities firms, and insurance companies to combine in the financial service holding company structure. While we enthusiastically support the new powers granted to financial service holding companies, we just as strongly believe that they should be financed by the marketplace, not by instruments backed by the sovereign credit of the United States. The requirement that the new powers, at least those conducted as principal, be conducted through holding company affiliates minimizes the expansion of the use of the subsidies arising from a safety net backed by the U.S. taxpayer.

The choice of requiring the new powers to be harbored in affiliates of holding companies, not in operating subsidiaries of their banks, will significantly fashion the underlying structure of twenty-first century finance. To inject the substantial new subsidies that would accrue to operating subsidiaries of banks into the currently mushrooming domestic and international financial system could distort capital markets and the efficient allocation of both financial and real resources that has been so central to America's current prosperity.

New affiliations, if allowed through bank subsidiaries, would accord banking organizations an unfair competitive advantage over comparable insurance and securities firms—both those operating independently and those that are bank holding company subsidiaries. By fostering a level playing field within the financial services industry, we contribute to full, open, and fair competition.

This choice of the holding company structure is also critical to the way in which the financial services industry will develop because it provides better protection for and promotes the safety, soundness, and stability of our banking and financial system. At the same time, it accomplishes much-needed financial modernization without damaging the national or state bank charters or limiting in any way the benefits of financial modernization. The other route toward full-powered commercial bank operating subsidiaries and universal banking would, in our judgment, lead to greater risk for the deposit insurance funds and the taxpayer.

In addition, the holding company structure promotes effective supervision and the functional regulation of different activities. The United States is at a historic crossroads in financial services regulation. It is becoming increasingly evident that the dramatic advances in computer and telecommunications technologies of the past decade have so significantly altered the structure of domestic, indeed, global finance as to render our existing modes of supervision and regulation of financial institutions increasingly obsolescent.

The volume, sophistication, and rapidity of financial dealings should continue to lead to supervisory

emphasis on oversight of risk management of financial institutions and a marked scaling back of outmoded loan file and balance sheet surveillance. For the same reasons, affiliation with banks need not—indeed, should not—create bank-like regulation of affiliates of banks. A constructive approach to supervision for the twenty-first century is captured in the so-called "Fed-light" provisions of various bills, which focus on and enhance the functional regulation of securities firms, insurance companies, insured depository institutions, and their affiliates. We at the Fed strongly support this approach.

#### BANKING AND COMMERCE

A twenty-first century issue that has become a part of the financial modernization debate is whether we should move beyond affiliations among financial service providers and allow the full integration of banking and commerce. As technology increasingly blurs the distinction among various financial products, it is already beginning to blur the distinctions between predominately commercial and banking firms. But how the underlying subsidies of deposit insurance, discount window access, and guaranteed final settlement through Fedwire are folded into a commercial firm, should the latter affiliate with a bank, is crucially important to the systemic stability of our financial system. It seems to us wise to move first toward the integration of banking, insurance, and securities and employ the lessons we learn from that important step before we consider whether and under what conditions it would be desirable to move to the second stage of the full integration of commerce and banking.

Nothing is lost, in my judgment, by making this a two-stage process. Indeed, there is much to be gained. The Asian crisis highlighted some of the risks that can arise if relationships between banks and commercial firms are too close and makes caution at this stage prudent in our judgment. In line with these considerations, the Board continues to support elimination of the unitary thrift loophole, which currently allows any type of commercial firm to control a federally insured depository institution.

## Preservation of Executive Branch Influence

There is a final point I want to make because it appears to have driven the Treasury's opposition to financial modernization legislation considered last

year. That legislation would not have altered the executive branch's supervisory authority for national banks or federal savings associations; nor would it have resulted in any reduction in the predominant and growing share of this nation's banking assets controlled by national banks and federal savings associations. Indeed, as of September 1998, nearly 58 percent of all banking assets were under the supervision of the Comptroller of the Currency, up from 55.2 percent at the end of 1996. Moreover, after having controlled for mergers of like-chartered banks, the number of national banks has increased over the period 1996–98 and the number of state banks has declined.

Furthermore, the Congress for sound public policy reasons has purposefully apportioned responsibility for this nation's financial institutions among the elected executive branch and independent regulatory agencies. Action to alter this balance would be contrary to the deliberate steps that the Congress has taken to ensure a proper balance in the regulation of this nation's dual banking system.

#### **CONCLUSION**

In virtually every other industry, the Congress would not be asked to address issues such as these, which are associated with technological and market developments; the market would force the necessary institutional adjustments. Arguably, this difference reflects the painful experience that has taught us that developments in our banking system can have profound effects on the stability of our whole economy, rather than the limited impact we perceive from difficulties in most other industries.

Moreover, as in all major legislation, there are, and will be, numerous provisions only indirectly associated with the legislation's core objectives that often foster disagreements. These surrounding issues are doubtless important, but not so important that they should be allowed to defeat the consensus that has developed around these key goals. It would be a disservice to the public and the nation if, in the fruitless search for a bill that pleases everyone in every detail, the benefits of this vital consensus are lost or further delayed.

The markets are demanding that we change outdated statutory limitations that stand in the way of more efficiently and effectively delivering financial services to the public. The Federal Reserve agrees and urges prompt enactment of financial modernization legislation that achieves the two central and indivisible objectives that I have outlined today.

Statement by Edward W. Kelley, Jr., Member, Board of Governors of the Federal Reserve System, before the Subcommittee on Civil Service of the Committee on Government Reform and Oversight, U.S. House of Representatives, February 25, 1999

I am pleased to testify on behalf of the Board of Governors on the Federal Reserve Board Retirement Portability Act and to provide the subcommittee with information on the Federal Reserve retirement system. The Board strongly supports this legislation. The bill would allow certain employees who leave the Board to work for other agencies and who then retire under the Federal Employees Retirement System (FERS) to receive pensions reflecting all of their federal service, including post-1988 service at the Federal Reserve Board. On behalf of the Board and its employees, let me particularly thank you, Chairman Scarborough, and Representatives Cummings, Morella, Mica, Waxman, Norton, Davis, Hoyer, and Moran for introducing this important legislation.

By way of background, the Federal Reserve System has its own defined benefit retirement plan,

which has two benefit structures: the Board Plan, covering Board employees hired pre-1984, which is modeled on the Civil Service Retirement System (CSRS); and the Bank Plan, covering Board employees hired after 1983 and all employees of the Federal Reserve Banks. The Board Plan and the CSRS have historically had reciprocity with regard to service credit portability. However, as a result of an oversight that occurred when the FERS statute was first passed, post-1988 service at the Federal Reserve Board by employees enrolled in the Bank Plan and, in some limited situations, those enrolled in the Board Plan, is not creditable service under the FERS.

#### SERVICE CREDIT PROBLEM

The Board gains and loses employees in transfers between the Board and other government agencies each year. In particular, transfers between the Board and the other bank regulatory agencies—the Federal Deposit Insurance Corporation, the Office of the Comptroller of the Currency, and the Office of Thrift Supervision—are common. The Board grants credit

under its retirement plan to newly hired employees with previous CSRS and FERS service if the employee renounces benefits under the previous retirement plan (to prevent dual credit). Thus, there is service portability when employees come to the Board. And, generally, there has been portability between the Board and other government agencies in crediting Board Plan service under CSRS. However, because of the oversight mentioned above, post-1988 Bank Plan service at the Federal Reserve Board is not creditable under FERS.

As a result, if a Board employee hired after 1983 (and participating in the Bank Plan) leaves the Board to work for another federal agency and then retires from that agency under FERS, that employee would receive a reduced pension that would not reflect all of that employee's federal government service. This problem also affects any employee who participated in the Board Plan, did not complete five years of service before 1987, and left the Board and reentered federal employment after a break in service of more than one year. In this situation, under current law, the employee would be placed under FERS with no credit for post-1988 Board service. My testimony will refer to these situations as the "service credit" problem.

Under current law, an employee affected by the service credit problem could receive two pensions: the reduced pension from FERS and, if he or she had worked long enough to be vested, a pension from the Board. In this case, because of the way the pensions are calculated, the sum of those pensions would usually be less than a single FERS pension that gave credit for all of the individual's federal government service. Alternatively, if the employee was not vested at the Board, he or she would receive only the reduced FERS pension.

Thus, current law creates a dollars-and-cents problem in retirement security. Depending on the individual's final average salary and years of other federal service, the lack of portability of post-1988 Board service can mean the loss of hundreds or thousands of dollars a year in retirement income.

We have identified about fifty former employees of the Board who have gone to work for other federal agencies and who will have this service credit problem when they retire under FERS. In addition, those of the Board's current workforce covered by the Bank Plan (about two-thirds of the staff) would have the same problem if they should go to another federal agency and retire under FERS. Over time, a growing percentage of Board staff could encounter similar problems since virtually all new hires will have service that is not creditable under FERS. The service credit problem has festered without resolution since the FERS statute was enacted in 1986. Employees at the Board are very aware of it. The problem is damaging to employee morale, and, just as important, some Board employees are deterred from making sound career moves because their pensions will suffer. And, government agencies' efforts to recruit these employees are hampered.

The bill before the subcommittee would correct the unidirectional service credit problem. It would amend the FERS statute to make post-1988 Board service creditable service under FERS. As a result, when affected former Board employees retire under FERS, their pensions will reflect all their federal government service.

To receive credit for post-1988 Board service under FERS, the bill appropriately requires the employee to do two things. First, the employee would have to renounce the entitlement (if any) to receive a pension from the Board. This would prevent receipt of credit for post-1988 Board service under both FERS and the Bank Plan.

Second, the bill requires the employee to make a contribution to FERS that, in effect, would "buy" FERS credit for his or her Board service. This contribution would equal the amount the employee would have contributed to FERS if he or she had been covered by FERS during the service in question, plus interest to the date of payment. This contribution is appropriate because all FERS participants are required to contribute toward their pension benefit.

These two requirements mirror provisions in current law that provide service credit for employees with previous service under the Foreign Service pension program.

We believe that virtually all affected employees would be better off with this legislation than under current law. This includes the Bank Plan employee who transfers to another agency and is placed under FERS, as well as the Board Plan employee who has completed five years service (but not before 1987) and who was placed under FERS after a break in service of more than one year. As FERS employees, they will receive service credit for their post-1988 Board service. Future government hires in the second situation (prior Board Plan) would be placed in CSRS Offset as a result of the legislation, where their post-1988 Board service would be creditable.

To ensure that no one is inadvertently hurt, the bill would, in effect, allow affected employees to choose whether or not to get FERS credit for their post-1988 Board service. With that option, the employee could make whichever choice would be more advantageous.

In conclusion, the Board and its employees strongly support this legislation, and we hope that the Congress can approve it quickly.

I would now like to respond to the subcommittee's request for an overview of the Federal Reserve Retirement Plan and information on the management of pension plan assets.

## OVERVIEW OF THE FEDERAL RESERVE RETIREMENT PLAN

The Federal Reserve System Retirement Plan is a governmental defined benefit plan that is qualified under section 401(a) of the tax code. The plan provides retirement benefits for virtually all employees of the Federal Reserve Board and Reserve Banks. (Exceptions are approximately thirty employees at . the Board who are in FERS or CSRS.) Plan benefits are determined under two separate benefit structures: the Board Benefit Structure (Board Plan), which covers approximately 600 Board employees; or the Bank Plan, which covers all eligible Reserve Bank staff (about 23,000 employees) and approximately 1,000 Board employees. There are approximately 500 annuitants receiving payments from the Board Plan and approximately 12,000 annuitants receiving payments from the Bank Plan, with another 5,000 who have earned a benefit but have not yet begun drawing payments.

The Federal Reserve Banks and the Board, as employers, are responsible to ensure the funding required to pay the benefits promised to participants and have contributed to the plan at varying levels throughout the years as determined necessary by the plan actuary. Since 1986, the actuary has determined that no employer contributions are required. Currently, the Retirement Plan's assets exceed both the plan's accrued liability as well as total liability as calculated by the plan actuary. Plan assets based on a five-year moving average as of January 1, 1998, were \$4.0 billion. The total benefit obligation—which includes both future service and future salary increases—was \$3.5 billion. Accrued benefits based on service and salary up to the date of the valuation—were valued at \$2.8 billion. The value of plan assets at the end of 1998 was \$5.8 billion.

The Board Plan covers Board employees hired before 1984; its plan design is nearly identical to that of the Civil Service Retirement System. Participants do not pay social security tax but have contributed to the Board Plan at the same rate as CSRS participants over the years (except that the Board did not increase the employee contribution rate from 7.0 percent

to 7.25 percent in 1999 as CSRS did). The benefit features of the Board Plan mirror those of CSRS in most important respects. The most significant differences are as follows: The Board Plan credits Federal Reserve Bank service, while CSRS does not; the Board Plan has adopted a benefit formula for employees with part-time service after April 6, 1986, that is different from the CSRS; and the Board Plan does not allow incorporation of retired military pay into the Board Plan annuity as allowed by CSRS. A detailed listing of the differences between the two plans is found in attachment A.1

The Bank Plan covers all eligible employees of the Federal Reserve Banks. When the Congress passed legislation requiring that federal employees hired after 1983 be subject to social security tax, the Board decided to place all newly hired Board employees in the Bank Plan as well. Unlike the Board Plan, the Bank Plan does not require employee contributions, but all Bank Plan participants are covered under social security and thus are subject to the FICA withholding requirement. The basic annuity formula for the Bank Plan is integrated with social security. The annuity formula is based on years of creditable service and the average of the five highest earning years of the employee's career. The benefit formula provides 1.3 percent of High-5 salary up to the social security integration level times the number of years of creditable service plus 1.8 percent of High-5 salary above the integration level times years of creditable service.

While the Bank Plan is similar to FERS in that it is designed to work together with social security, the plan design features differ. For example, the Bank Plan requires no employee contributions as FERS does; it uses the highest five years of earnings to compute the pension benefit rather than the highest three years under FERS; and it provides for annuity reductions for retirements before age sixty, while FERS allows unreduced retirement below age sixty if the participant has thirty years of service. A detailed comparison of the plan features of FERS and the Bank Plan are provided in attachment B.

The Federal Reserve Thrift Plan is the System's defined contribution plan comparable to the government's Thrift Savings Plan (TSP). Both Board Plan and Bank Plan employees are eligible to participate and receive employer matching funds. The Federal Reserve Thrift Plan differs from TSP in that it offers both pretax and after-tax savings components and a

<sup>1.</sup> The attachments to this statement are available from Publications Services, Mail Stop 127, Board of Governors of the Federal Reserve System, Washington, DC 20551, and on the Board's site on the World Wide Web (http://www.federalreserve.gov).

wider variety of investment options. It also allows higher contribution rates from participants (up to 20 percent of salary), subject to IRS limitations.

#### MANAGEMENT OF PENSION PLAN ASSETS

The Federal Reserve System, composed of the Board of Governors and twelve Reserve Banks, vests fiduciary responsibility for the investments of its defined benefit (pension) and defined contribution (savings) plans in a committee of five senior System officers. The System's investment oversight committee is currently composed of three Reserve Bank presidents. one member of the Board, and the first vice president of the New York Reserve Bank. The pension and savings plans had investments valued at \$8.1 billion as of year-end 1998, with \$5.8 billion representing pension plan assets. I represent the Board on this committee and have done so since 1994. The committee is chaired by one of the Reserve Bank presidents (currently Gary Stern of the Minneapolis Reserve Bank). Day-to-day oversight of the investments is the responsibility of a small staff (three) in New York directed by our Chief Investment Officer, Paul Lipson, CFA.

Our oversight committee has long sought to distance itself from asset allocation decisions because such activity might bring with it the appearance of a conflict of interest for the System. Instead, the committee functions as a manager-of-managers—selecting independent investment firms and giving them a common balanced investment mandate. That mandate is set forth in our *Investment Objectives and Guidelines* document, which has been provided to the subcommittee. This document is part of the invest-

ment advisory agreement with each firm and delegates to them asset allocation decisions (within broad parameters set by the committee), securities selection decisions, and the voting of proxies.

Currently, eight firms are retained to manage our \$5.8 billion in pension assets (of which about twothirds were invested in equities as of year-end 1998). Those balanced accounts range in size from \$350 million to \$1 billion. Managers are selected by criteria that include past performance, desired equity and fixed-income investment "styles," trading and research capabilities, expense levels, and so on. Management expenses for the entire plan are less than one-quarter of 1 percent of invested assets. No pension assets are managed in-house. The staff in New York monitors portfolio activity and performance, reporting on both to the committee on a monthly basis. The committee meets with its portfolio managers at least once a year; the staff meets with most of them quarterly. No consultants are retained for any aspect of the investment process, although the staff in New York makes extensive use of generally available analytical software to assess returns and various measures of risk.

Performance of invested assets is measured against three benchmarks: *versus* the expected long-term rate of return for plan investments used in actuarial valuation (currently 9 percent), *versus* a trailing thirty-sixmonth composite return (60 percent Standard & Poor's 500/40 percent Lehman Bros. Aggregate), and *in comparison to* the plan's peer group in the Wilshire Trust Universe Comparison Service, the largest tax-exempt institutional performance database in the United States. I am pleased to report that the plan has met or exceeded each of those benchmarks over many years.

## **Announcements**

#### **PROPOSED ACTION**

The Federal Reserve Board on February 22, 1999, requested comment on proposed changes to its Regulation CC (Availability of Funds and Collection of Checks) that would provide more flexibility to depository institutions to experiment with methods to return unpaid checks electronically. Comments are requested by April 30, 1999.

# ADDITION OF SUPPLEMENTARY TABLES TO THE FLOW OF FUNDS ACCOUNTS

The Federal Reserve Board on February 17, 1999, announced that it will include in future issues of the Flow of Funds Accounts of the United States (Z.1 statistical release) supplementary tables that combine the assets and liabilities of all government entities in the United States. The title of the new tables is "Consolidated Statement for Federal, State, and Local Governments," and they will be numbered F.106.c for financial flows and L.106.c for outstanding amounts of financial assets and liabilities at the end of the periods shown. The release will continue to show separately the assets and liabilities of the federal government and state and local governments.

The inclusion of table F.106.c and table L.106.c is motivated by the International Monetary Fund's Special Data Dissemination Standards (SDDS), which were established in 1996 to provide guidance on the dissemination of economic and financial data for countries that have, or might seek, access to international capital markets. The United States is a subscriber to the IMF's SDDS.

The Z.1 statistical release, "Flow of Funds Accounts of the United States," is updated about ten weeks after the end of a quarter. The release is available from the Board's Publications Services (Mail Stop 127, Board of Governors of the Federal Reserve System, Washington, DC 20551) and electronically on the Board's web site (http://www.federalreserve.gov/releases/Z1).

PUBLICATION BY AN INTERAGENCY TASK FORCE OF A CONSUMER BROCHURE ABOUT SHOPPING AND NEGOTIATING FOR THE BEST MORTGAGE

The federal Interagency Task Force on Fair Lending has published a brochure for consumers Looking for the Best Mortgage: Shop, Compare, Negotiate. The brochure notes that shopping around for a home loan or mortgage is similar to shopping for a car—consumers should obtain information on all costs of the loan and negotiate for the best deal.

The brochure describes how comparing and negotiating interest rates, fees, and other payment terms on loans may help consumers get the best financing and possibly save thousands of dollars, whether it is a home purchase loan, a refinancing, or a home equity loan. It advises consumers to do the following:

- Obtain information from several lenders
- Make sure to obtain all important cost information
  - Negotiate for the best deal.

For example, the brochure notes that on any given day, lenders and brokers may offer different prices for the same loan to different consumers, even if consumers have the same loan qualifications. These different prices may result because loan officers and brokers are often allowed to keep some or all of the difference between the lowest available price and any higher price that the consumer agrees to pay. This compensation arrangement helps explain why it is important for consumers to ask questions about costs and negotiate for the best deal. The brochure contains a worksheet consumers can use to compare costs while shopping. The worksheet lists commonly charged fees and closing costs and includes a useful list of questions consumers may wish to ask lenders when they shop for a loan.

The brochure outlines common sources for home loans and explains the difference between rates, points, and fees. It highlights some of the laws that protect consumers from unfair lending practices. It also emphasizes that even consumers with past credit

problems should shop around and negotiate for the best deal. Finally, the brochure includes a mortgage loan shopping form that consumers can use to record loan data quoted by two or more lenders or brokers and then compare that data to help identify or negotiate the best deal.

The members of the Interagency Task Force include the Department of Housing and Urban Development, the Department of Justice, the Department of the Treasury, the Federal Deposit Insurance Corporation, the Federal Housing Finance Board, the Federal Reserve Board, the Federal Trade Commission, the National Credit Union Administration, the Office of Federal Housing Enterprise Oversight, the Office of the Comptroller of the Currency, and the Office of Thrift Supervision.

Single copies of the brochure are available free of charge from the Board's Publications Services, Mail Stop 127, Board of Governors of the Federal Reserve System, Washington, DC 20551; it is also on the Board's web site (http://www.federalreserve.gov). Single copies are also available free of charge from other members of the Interagency Task Force. The brochure is available at 50 cents per copy from the Consumer Information Center, Pueblo, CO 81009, or from the center's web site (http://www.pueblo.gsa.gov).

# AVAILABILITY OF THE LIST OF FOREIGN MARGIN STOCKS

The Federal Reserve Board on February 22, 1999, initiated semiannual publication of its List of Foreign Margin Stocks. The list, which was effective March 1 and supersedes the November 9, 1998, list, is the last to be accompanied by a press release. Future lists (the next is scheduled for September 1999), will be published directly on the Board's Internet site (http://www.federalreserve.gov).

Stocks on the list meet the Board's criteria in section 220.11 of Regulation T (Credit by Brokers and Dealers) and are eligible for margin treatment at brokers and dealers on the same basis as domestic margin stocks. Other foreign stocks are also eligible if they are deemed by the Securities and Exchange Commission (SEC) to have a "ready market" for purposes of the SEC's net capital rule. The foreign stocks on the Financial Times/Standard & Poor's Actuaries World Indices (FT/S&P list) are not included in the Board's list, but they all qualify for margin treatment under an SEC "no action" letter,

which effectively treats these securities as having a ready market.

With the Board's December 23, 1997, amendments to its margin regulations, all brokers and dealers became able as of January 1, 1999, to offer margin credit on all stocks trading in the Nasdaq Stock Market. Therefore the Board ceased publication of its quarterly List of Marginable OTC Stocks with the November 9, 1999, list.

It is unlawful for any person to cause any representation to be made that inclusion of a stock on the List of Foreign Margin Stocks indicates that the Board or the SEC has in any way passed upon the merits of any such stock or transaction therein. Any references to the Board in connection with the list or any stocks thereon in any advertisement or similar communication is unlawful.

#### **ENFORCEMENT ACTIONS**

The Federal Reserve Board on February 5, 1999, announced the execution of a written agreement by and among First Utah Bancorporation, the First Utah Bank, and Premier Data Corporation, all of Salt Lake City, Utah, and the Federal Reserve Bank of San Francisco. The written agreement includes provisions addressing Year 2000 readiness.

On February 11, 1999, the Federal Reserve Board announced the issuance of a prompt corrective action directive against the Zia New Mexico Bank, Tucumcari, New Mexico.

## REVISIONS TO THE MONEY STOCK DATA

Measures of the money stock were revised in February of this year to incorporate the results of the annual benchmark and seasonal factor review. Data in tables 1.10 and 1.21 in the statistical appendix to the *Federal Reserve Bulletin* reflect these changes beginning with this issue.

The revisions had no effect on the annual growth rate of M2 over 1998, but they raised the annual growth rate of M1 by 0.1 percentage point and lowered that of M3 by 0.1 percentage point over the past year.

The benchmark incorporates minor revisions to data reported on the weekly and quarterly deposit reports, and it takes account of deposit data from call reports for banks and thrift institutions that are not weekly or quarterly deposit reporters. These revisions

to deposit data start in 1992. The benchmark also incorporates historical data for a number of money market mutual funds that began reporting for the first time during 1998, raising the level of M3 over the years by amounts that cumulate to \$5 billion by the end of 1998. Historical revisions have also been made to repurchase agreement (RP) and Eurodollar series to reflect better estimates of the holdings of money market mutual funds, which must be netted from the gross RP and Eurodollar series to avoid double counting in M3. The RP series was revised up by a maximum of \$17.5 billion (in the third quarter of 1997) and the Eurodollar series by a maximum of about \$15 billion (in the fourth quarter of 1989).

Seasonal factors for the monetary aggregates have been revised, using the benchmarked data through December 1998. For the first time, the X-12-ARIMA procedure was used to derive monthly seasonal factors. As usual, the revisions due to seasonal factors slightly changed the pattern of quarterly growth rates of M1, M2, and M3 in 1998. The annual growth rates of M1 and M2 were unchanged, but that of M3 was lowered a bit.

Complete historical data are available in printed form from the Money and Reserves Projection Section, Mail Stop 72, Board of Governors of the Federal Reserve System, Washington, DC 20551, or phone (202) 452-3062. Historical data for the monetary aggregates and their components are available each week in statistical release H.6 on the Board's web site (http://www.federalreserve.gov) under Domestic and International Research, Statistical Releases, and also from the Economic Bulletin Board of the U.S. Department of Commerce. Call (202) 482-1986 or toll-free (800) 782-8872 for information on how to access the Commerce Department's bulletin board.

#### 1. Monthly seasonal factors used to construct M1, January 1998–March 2000

V	0	Nonbank travelers	Daniel Inc.	Other check	able deposits1
Year and month	Currency	checks	Demand deposits	Total	At banks
998—January	.9983	1.0265	1.0097	1.0114	1.0186
February	.9973	1.0262	.9803	.9945	.9996
March	.9984	1.0166	.9867	1.0034	1.0036
April	.9987	1.0137	1.0005	1.0223	1.0193
May	.9993	1.0106	.9843	.9946	.9941
June	.9981	.9918	.9950	.9990	.9977
July	1.0010	.9623	.9991	.9935	.9907
August	.9991	.9603	.9986	.9905	.9892
September	.9974	.9773	.9951	.9933	.9925
October	.9986	.9908	.9960	.9919	.9906
November	1.0023	1.0145	1.0127	.9974	.9964
December	1.0108	1.0209	1.0393	1.0078	1.0080
999—January	.9996	1.0229	1.0125	1.0109	1.0178
February	.9977	1.0237	.9811	.9945	.9992
March	.9986	1.0159	.9860	1.0039	1.0039
April	.9989	1.0148	1.0003	1.0225	1.0192
May	.9978	1.0114	.9843	.9950	.9945
June	.9982	.9943	.9957	.9991	.9982
July	1.0009	.9635	1.0000	.9936	.9908
August	.9985	.9588	.9961	.9905	.9893
September	.9969	.9777	.9944	.9930	.9922
October	.9996	.9902	.9984	.9920	.9908
November	1.0022	1.0110	1.0105	.9975	.9966
December	1.0119	1.0195	1.0398	1.0076	1.0078
000—January	.9986	1.0218	1.0121	1.0107	1.0174
February	.9977	1.0235	.9809	.9945	.9990
March	.9992	1.0165	.9859	1.0040	1.0039

<sup>1.</sup> Seasonally adjusted other checkable deposits at thrift institutions are derived as the difference between total other checkable deposits, seasonally

adjusted, and seasonally adjusted other checkable deposits at commercial banks.

## 2. Monthly seasonal factors used to construct M2 and M3, January 1998-March 2000

	Savings and	Small-	Large-	Money mark	et mutual funds	- DD	
Year and month	MMDA deposits 1	denomination time deposits	denomination time deposits <sup>1</sup>	In M2	In M3 only	RPs	Eurodollars
1998—January	.9956	1.0009	.9765	1.0027	1.0255	1.0024	1.0337
February	.9960	1.0020	.9919	1.0080	1.0331	.9988	1.0178
March	1.0071	1.0013	1.0067	1.0170	1.0178	1.0057	.9947
April	1.0116	1.0004	.9999	1.0130	.9960	1.0078	.9884
May	1.0004	.9985	1.0099	.9841	.9862	1.0223	.9952
June	1.0028	.9985	1.0085	.9856	.9863	1.0033	.9831
July	1.0011	.9999	.9996	.9898	.9791	.9915	.9769
August	.9999	.9994	1.0006	1.0020	.9866	.9951	.9899
September	.9953	.9993	1.0009	1.0008	.9807	.9968	.9916
October	.9933	1.0009	1.0063	.9980	.9923	.9971	1.0051
November	.9972	1.0003	1.0040	.9990	1.0021	1.0017	1,0027
December	.9974	.9990	.9933	.9999	1.0136	.9754	1.0251
1999—January	.9959	1.0011	.9749	1.0023	1.0277	1.0048	1.0344
February	.9968	1.0022	.9915	1.0086	1.0329	.9985	1.0180
March	1.0080	1.0014	1.0085	1.0178	1.0165	1.0088	.9934
April	1.0129	1.0002	1.0014	1.0134	.9967	1.0094	.9860
May	1.0010	.9980	1.0110	.9843	.9884	1.0219	.9929
June	1,0028	.9978	1.0103	.9849	.9863	.9994	.9802
July	1.0007	.9997	.9995	.9884	.9769	.9911	.9762
August	.9993	.9993	1.0004	1.0011	.9849	.9941	.9914
September	.9946	.9995	1.0008	1.0013	.9788	.9957	.9927
October	.9927	1.0012	1.0052	.9986	.9926	.9954	1.0051
November	.9968	1.0006	1.0032	.9994	1.0037	1.0029	1.0046
December	.9974	.9991	.9925	.9997	1.0140	.9771	1.0277
2000—January	.9960	1.0012	.9740	1.0023	1.0288	1.0060	1.0351
February	.9972	1.0022	.9913	1.0090	1.0333	.9979	1.0175
March	1.0083	1.0014	1,0095	1.0178	1.0157	1.0104	.9927

<sup>1.</sup> Seasonal factors are applied to deposits data at both commercial banks and thrift institutions.

## 3. Weekly seasonal factors used to construct M1, December 7, 1998-April 3, 2000

337 1	1,	<u> </u>	Nonbank travelers	5 .41 %	Other check	able deposits1
Week	Week ending Currency Checks	Demand deposits	Total	At banks		
998—December	7	1.0054	1.0231	1.0156	1.0036	.9931
	14	1.0065	1.0218	1.0222	.9912	.9883
	21	1.0119	1.0206	1.0465	1.0060	1.0087
	28	1.0203	1.0193	1.0519	1.0133	1.0232
999—January	4	1.0108	1.0180	1.0897	1.0434	1.0449
	11	1.0033	1.0203	1.0246	1.0143	1.0177
	18	.9993	1.0226	1.0031	1.0073	1.0131
	25	.9942	1.0248	.9830	.9991	1.0108
February	1	.9930	1.0271	.9945	1.0055	1.0156
•	8	.9994	1.0257	.9804	.9960	.9991
	15	1.0000	1.0242	.9812	.9878	.9899
	22	.9963	1.0228	.9725	.9909	.9988
March	1	.9953	1.0213	.9895	1.0031	1.0080
	8	1.0016	1.0192	.9822	1.0013	.9964
	15	.9997	1.0171	.9914	.9961	.9944
	22	.9984	1.0150	.9741	.9990	1.0016
	29	.9967	1.0129	.9825	1.0097	1.0143
April	5	1.0017	1.0108	1.0105	1.0235	1.0133
	12	1.0028	1.0129	1.0088	1.0193	1.0134
	19	.9981	1.0150	1.0167	1.0369	1.0370
	26	.9946	1.0170	.9783	1.0193	1.0232
May	3	.9959	1.0191	.9959	1.0166	1.0098
	10	1.0006	1.0157	.9761	.9974	.9908
	17	.9968	1.0123	.9864	.9880	.9886
	24	.9972	1.0089	.9632	.9833	.9894
	31	.9954	1.0056	1.0011	1.0007	1.0033
June	7	1.0007	1.0013	.9894	.9997	.9935
	14	.9993	.9971	1.0043	.9961	.9916
	21	.9975	.9929	.9783	.9947	.9967
	28	.9963	.9887	.9946	.9992	1.0044
July	5	1.0056	.9846	1.0365	1.0088	.9985
	12	1.0032	.9739	.9973	.9917	.9860
	19	.9993	.9635	.9960	.9880	.9873
	26	.9968	.9533	.9786	.9866	.9902

## 3. Weekly seasonal factors used to construct M1, December 7, 1998-April 3, 2000-Continued

		Nonbank travelers		Other check	able deposits!
Week ending	Currency	checks	Demand deposits	Total	At banks
999—August 2		.9434	1.0148	1.0041	1.0024
9		.9497	.9884	.9902	.9841
16		.9561	.9970	.9850	.9823
23		.9626	.9846	.9846	.9873
30		.9692	1.0023	.9952	.9985
September 6	. 1.0017	.9760	.9938	.9964	.9876
13		.9769	1.0009	.9916	.9879
20	9960	.9779	.9926	.9904	.9942
27		.9789	.9874	.9893	.9947
October 4	9975	.9799	1.0159	1.0022	.9956
11		.9847	.9834	.9861	.9809
18		.9896	1.0007	.9884	.9879
25	9967	.9945	.9865	.9870	.9925
November 1		.9995	1.0165	1.0052	1.0057
8	1.0036	1.0040	.9910	.9962	.9908
15	. 1.0019	1.0087	1.0059	.9932	.9904
22		1.0133	.9984	.9925	.9969
29	. 1.0041	1.0180	1.0386	1.0039	1.0052
December 6		1.0228	1.0103	1.0023	.9923
13		1.0210	1.0194	.9920	.9895
20		1.0193	1.0462	1.0045	1.0074
27	. 1.0201	1.0176	1.0554	1.0132	1.0209
000—January 3		1.0158	1.0891	1.0427	1.0454
10		1.0184	1.0160	1.0155	1.0166
17		1.0211	1.0054	1.0082	1.0137
24		1.0238	.9911	.9995	1.0118
31	9922	1.0264	1.0013	1.0058	1.0161
February 7		1.0253	.9822	.9954	.9989
14		1.0242	.9795	.9874	.9890
21		1.0231	.9702	.9900	.9975
28	9955	1.0219	.9882	1.0020	1.0072
March 6		1.0208	.9846	1.0010	.9971
13		1.0185	.9960	.9969	.9962
20		1.0162	.9826	1.0001	1.0035
27		1.0139	.9752	1.0103	1.0150
April 3	1.0016	1.0116	1.0092	1.0232	1.0140

<sup>1.</sup> Seasonally adjusted other checkable deposits at thrift institutions are derived as the difference between total other checkable deposits, seasonally

## 4. Weekly seasonal factors used to construct M2 and M3, December 7, 1998-April 3, 2000

*** 1		Savings and MMDA	Small-	Large-	Money mark	et mutual funds	D.D.	F 1.11
Week	Week ending		denomination time deposits <sup>1</sup>	denomination time deposits <sup>1</sup>	In M2	In M3 only	RPs	Eurodollars
998—Decembe	r 7	1.0137	1.0002	1.0036	1.0017	1.0219	.9910	1.0180
.,,,	14	1.0068	.9997	1,0025	1.0054	1.0378	.9852	1.0294
	21	.9925	.9988	.9925	1.0019	1.0090	.9738	1.0204
	28	.9792	.9977	.9834	.9970	1.0054	.9592	1.0307
999—January	4	.9927	.9982	.9735	.9854	.9685	.9586	1.0292
,	11	1.0096	1.0006	.9773	1.0027	1.0319	.9979	1.0202
	18	1.0048	1.0016	.9741	1.0076	1.0383	1.0096	1.0337
	25	.9855	1.0019	.9735	1.0057	1.0440	1.0189	1.0434
February	1	.9839	1.0021	.9756	1.0024	1.0242	1.0184	1.0372
•	8	1.0074	1.0024	.9814	1.0058	1.0327	1.0115	1.0205
	15	1.0012	1.0024	.9922	1.0070	1.0341	1.0011	1.0203
	22	.9885	1.0022	.9942	1.0113	1.0352	.9892	1.0127
March	1	.9913	1.0019	1.0017	1.0114	1.0305	.9883	1.0156
	8	1.0197	1.0020	1.0068	1.0207	1.0262	.9991	.9915
	15	1.0164	1.0016	1.0105	1.0194	1.0231	1.0100	.9930
	22	1.0039	1.0011	1.0086	1.0174	1.0169	1.0178	.9908
	29	.9958	1.0008	1.0092	1.0149	1.0037	1.0120	.9960
April	5	1.0273	1.0013	1.0075	1.0171	.9972	1.0058	.9910
1	12	1.0299	1.0012	1.0035	1.0298	1.0183	1.0073	.9829
	19	1.0156	1.0002	.9986	1.0196	.9938	1.0072	.9763
	26	.9886	.9993	.9960	1.0047	.9860	1.0097	.9918

adjusted, and seasonally adjusted other checkable deposits at commercial banks.

## 4. Weekly seasonal factors used to construct M2 and M3, December 7, 1998-April 3, 2000-Continued

Week	ending	Savings and MMDA	Small- denomination	Large- denomination	Money mark	et mutual funds	RPs	Eurodolloro
		deposits 1	time deposits	time deposits <sup>1</sup>	In M2	In M3 only	Krs	Eurodollars
1999May	3	.9968	.9990	1.0046	.9847	.9826	1.0208	.9918
.,,,	10	1.0086	.9987	1.0109	.9842	.9921	1.0262	.9803
	17	1.0036	.9981	1.0116	.9813	.9900	1.0224	.9864
	24	.9940	.9975	1.0119	.9864	.9881	1.0200	1.0020
	31	.9947	.9972	1.0121	.9852	.9859	1.0194	1.0033
June	7	1.0201	.9976	1.0159	.9889	.9956	1.0131	.9884
June	14	1.0155	.9977	1.0164	.9868	.9936	1.0042	.9810
	21	.9987	.9975	1.0095	.9844	.9799	.9950	.9737
	28	.9825	.9979	1.0043	.9806	.9801	.9887	.9799
July	5	1.0150	.9996	.9938	.9806	.9734	.9889	.9731
	12	1.0108	1.0001	.9963	.9909	.9826	.9859	.9734
	19	.9995	.9999	1.0004	.9897	.9759	.9906	.9718
	26	.9848	.9995	1.0028	.9908	.9796	.9951	.9806
August	2	.9902	.9994	1.0041	.9878	.9702	.9957	.9831
	9	1.0164	.9997	1.0037	.9973	.9848	.9979	.9783
	16	1.0084	.9994	.9982	1.0022	.9855	.9963	.9831
	23	.9907	.9992	1.0002	1.0035	.9890	.9873	.9963
	30	.9813	.9990	.9983	1.0045	.9843	.9941	1.0095
Contambo	- 4	1.0170	9992	1.0002	1.0059	.9869	.9966	.9952
Septembe	r 6	1.0170	.9992	1.0002	1,0085	.9859	.9975	.9932
	13	.9899	.9992	1.0020	1.0030	.9839 .9755	.9973	.9890
	27	.9674	.9994	.9994	.9946	.9727	.9941	.9950
_								
October	4	.9953	1.0012	1.0012	.9867	.9679	.9900	.9961
	11	1.0058	1.0020	1.0106	.9959	.9894	.9898	1.0023
	18	.9977	1.0013	1.0072	1.0019	.9946	.9917	1.0036
	25	.9804	1.0010	1.0046	1.0036	.9991	.9994	1.0092
Novembe	r 1	.9782	1.0005	.9997	1.0001	1.0025	1.0051	1.0110
	8	1.0119	1.0008	1.0030	.9999	.9919	1.0062	.9987
	15	1.0100	1.0007	1.0040	.9988	1.0017	1.0056	.9989
	22	.9897	1.0005	1.0019	1.0020	1.0069	1.0044	1.0028
	29	.9777	1.0003	1.0041	.9965	1.0121	.9973	1.0155
December	6	1.0138	1.0003	1.0044	1.0031	1.0194	.9873	1.0152
December	13	1.0086	.9999	1.0043	1.0059	1.0331	.9797	1.0247
	20	.9933	.9990	.9930	1.0031	1.0153	.9747	1.0250
	27	.9810	.9979	.9827	.9961	1.0110	.9692	1.0351
2000 I	2	0017	0005	0705	0044	0350	0754	1.0422
2000—January	3	.9916	.9985	.9705	.9844	.9758	.9754	1.0433
	10	1.0073	1.0010	.9772	1.0011	1.0286	.9999	1.0359
	17	1.0036	1.0016	.9743	1.0080	1.0383	1.0109	1.0350
	24	.9858 .9843	1.0015 1.0017	.9729 .9731	1.0055 1.0022	1.0440 1.0267	1.0129 1.0134	1.0344 1.0314
February	7	1.0063	1.0024	.9795	1.0057	1.0324	1.0070	1.0173
	14	1.0015	1.0024	.9903	1.0073	1.0345	1.0015	1.0178
	21 28	.9900 .9918	1.0022 1.0020	.9925 1.0004	1.0110 1.0105	1.0356 1.0316	.9911 .9916	1.0168 1.0210
	20	.9910	1.0020	1.0004	1.0103	1.0310	.7710	1.0210
March	6	1.0162	1.0020	1.0071	1.0187	1.0272	1.0007	.9972
	13	1.0129	1.0017	1.0116	1.0205	1.0239	1.0099	.9936
	20 27	1.0016 .9952	1.0013 1.0008	1.0098 1.0099	1.0181 1.0154	1.0184 1.0059	1.0173 1.0148	.9879 .9929
	۵/							
April	3	1.0258	1.0013	1.0079	1.0157	.9971	1.0059	.9923

<sup>1.</sup> Seasonal factors are applied to deposits data at both commercial banks and thrift institutions.

# Legal Developments

# FINAL RULE — AMENDMENTS TO RISK-BASED CAPITAL STANDARDS

The Office of the Comptroller of the Currency ("OCC"), the Board of Governors of the Federal Reserve System ("Board"), the Federal Deposit Insurance Corporation ("FDIC"), and the Office of Thrift Supervision ("OTS") (collectively, "the agencies"), are amending 12 C.F.R. Parts 3, 208, 325, and 567, their respective risk-based and leverage capital standards for banks and thrifts (institutions).1 This final rule represents a significant step in implementing section 303 of the Riegle Community Development and Regulatory Improvement Act of 1994, which requires the agencies to work jointly to make uniform their regulations and guidelines implementing common statutory or supervisory policies. The intended effect of this final rule is to make the risk-based capital treatments for construction loans on presold residential properties, real estate loans secured by junior liens on 1- to 4-family residential properties, and investments in mutual funds consistent among the agencies. It is also intended to simplify and make uniform the agencies' Tier 1 leverage capital standards.

Effective April 1, 1999, 12 C.F.R. Parts 3, 208, 325, and 567 are amended as follows:

# Part 3 — Minimum Capital Ratios; Issuance of Directives

1. The authority citation for Part 3 continues to read as follows:

Authority: 12 U.S.C. 93a, 161, 1818, 1828(n), 1828 note, 1831n note, 1835, 3907 and 3909.

2. In section 3.6, paragraph (c) is revised to read as follows:

Section 3.6 Minimum capital ratios.

(c) Additional leverage ratio requirement. An institution operating at or near the level in paragraph (b) of this section should have well-diversified risks, including no undue interest rate risk exposure; excellent control sys-

tems; good earnings; high asset quality; high liquidity; and well managed on- and off-balance sheet activities; and in general be considered a strong banking organization, rated composite 1 under the Uniform Financial Institutions Rating System (CAMELS) rating system of banks. For all but the most highly-rated banks meeting the conditions set forth in this paragraph (c), the minimum Tier 1 leverage ratio is 4 percent. In all cases, banking institutions should hold capital commensurate with the level and nature of all risks.

3. In Appendix A to part 3, section 3, the second undesignated paragraph and paragraphs (a)(3)(iii) and (a)(3)(iv) introductory text are revised to read as follows:

Appendix A to Part 3 — Risk-Based Capital Guidelines

Section 3. Risk Categories/Weights for On-Balance Sheet Assets and Off-Balance Sheet Items

Some of the assets on a bank's balance sheet may represent an indirect holding of a pool of assets, e.g., mutual funds, that encompasses more than one risk weight within the pool. In those situations, the bank may assign the asset to the risk category applicable to the highest risk-weighted asset that pool is permitted to hold pursuant to its stated investment objectives in the fund's prospectus. Alternatively, the bank may assign the asset on a pro rata basis to different risk categories according to the investment limits in the fund's prospectus. In either case, the minimum risk weight that may be assigned to such a pool is 20 percent. If a bank assigns the asset on a pro rata basis, and the sum of the investment limits in the fund's prospectus exceeds 100 percent, the bank must assign the highest pro rata amounts of its total investment to the higher risk category. If, in order to maintain a necessary degree of liquidity, the fund is permitted to hold an insignificant amount of its assets in short-term, highly-liquid securities of superior credit quality (that do not qualify for a preferential risk weight), such securities generally will not be taken into account in determining the risk category into which the bank's holding in the overall pool should be assigned. The prudent use of hedging instruments by a fund to reduce the risk of its assets will not increase the risk weighting of the investment in that fund above the 20 percent category. However, if a fund engages in any activities that are

<sup>1.</sup> An amended risk-based capital standard for bank holding companies is included in a separate Board notice; references to "institutions" in this final rule generally do not apply to bank holding companies.

deemed to be speculative in nature or has any other characteristics that are inconsistent with the preferential risk weighting assigned to the fund's assets, the bank's investment in the fund will be assigned to the 100 percent risk category. More detail on the treatment of mortgage-backed securities is provided in section 3(a)(3)(vi) of this Appendix A.

- (a)\*\*\*(3)\*\*\*
  - (iii) Loans secured by first mortgages on one-to-four family residential properties, either owneroccupied or rented, provided that such loans are not otherwise 90 days or more past due, or on nonaccrual or restructured. It is presumed that such loans will meet prudent underwriting standards. If a bank holds a first lien and junior lien on a one-to-four family residential property and no other party holds an intervening lien, the transaction is treated as a single loan secured by a first lien for the purposes of both determining the loan-to-value ratio and assigning a risk weight to the transaction. Furthermore, residential property loans made for the purpose of construction financing are assigned to the 100 percent risk category of section 3(a)(4) of this Appendix A; however, these loans may be included in the 50 percent risk category of this section 3(a)(3) of this Appendix A if they are subject to a legally binding sales contract and satisfy the requirements of section 3(a)(3)(iv) of this Appendix A.
  - (iv) Loans to residential real estate builders for oneto-four family residential property construction, if the bank obtains sufficient documentation demonstrating that the buyer of the home intends to purchase the home (i.e., a legally binding written sales contract) and has the ability to obtain a mortgage loan sufficient to purchase the home (i.e., a firm written commitment for permanent financing of the home upon completion), subject to the following additional criteria:

Part 208 — Membership of State Banking Institutions in the Federal Reserve System (Regulation H)

1. The authority citation for Part 208 is revised to read as follows:

Authority: 12 U.S.C. 24, 36, 92a, 93a, 248(a), 248(c), 321– 338a, 371d, 461, 481–486, 601, 611, 1814, 1816, 1818, 1820(d), 1823(j), 1828(o), 1831o, 1831p-1, 1831r-1, 1835a, 1882, 2901-2907, 3105, 3310, 3331-3351, and 3906-3909; 15 U.S.C. 78b, 78l(b), 78l(g), 78l(i), 78o4(c)(5), 78q, 78q-1, and 78w; 31 U.S.C. 5318; 42 U.S.C. 4012a, 4104a, 4104b, 4106, and 4128.

2. In Appendix A to Part 208, section III. A., footnote 21 is revised to read as follows:

Appendix A to Part 208 – Capital Adequacy Guidelines for State Member Banks: Risk-Based Measure

III \* \* \* A. \* \* \*21

3. In Appendix A to part 208, section III.C.3., footnote 34 is revised to read as follows:

III. \* \* \* C. \* \* \* 3 \* \* \* 34

4. In Appendix A to Part 208, section III.C.3. is amended by adding a new sentence to the end of the first paragraph of footnote 35 to read as follows:

21. An investment in shares of a fund whose portfolio consists primarily of various securities or money market instruments that, if held separately, would be assigned to different risk categories, generally is assigned to the risk category appropriate to the highest riskweighted asset that the fund is permitted to hold in accordance with the stated investment objectives set forth in its prospectus. A bank may, at its option, assign a fund investment on a pro rata basis to different risk categories according to the investment limits in the fund's prospectus. In no case will an investment in shares in any fund be assigned to a total risk weight less than 20 percent. If a bank chooses to assign a fund investment on a pro rata basis, and the sum of the investment limits of assets in the fund's prospectus exceeds 100 percent, the bank must assign risk weights in descending order. If, in order to maintain a necessary degree of short-term liquidity, a fund is permitted to hold an insignificant amount of its assets in short-term, highly liquid securities of superior credit quality that do not qualify for a preferential risk weight, such securities generally will be disregarded when determining the risk category into which the bank's holding in the overall fund should be assigned. The prudent use of hedging instruments by a fund to reduce the risk of its assets also will not increase the risk weighting of the fund investment. For example, the use of hedging instruments by a fund to reduce the interest rate risk of its government bond portfolio will not increase the risk weight of that fund above the 20 percent category. Nonetheless, if a fund engages in any activities that appear speculative in nature or has any other characteristics that are inconsistent with the preferential risk weighting assigned to the fund's assets, holdings in the fund will be assigned to the 100 percent risk category.

34. If a bank holds the first and junior lien(s) on a residential property and no other party holds an intervening lien, the transaction is treated as a single loan secured by a first lien for the purposes of determining the loan-to-value ratio and assigning a risk weight.

III. \* \* \*
C. \* \* \*
3.\* \* \* 35

4. In Appendix B to Part 208, section II.a. is revised to read as follows:

Appendix B to Part 208 — Capital Adequacy Guidelines for State Member Banks: Tier 1 Leverage Measure

II. \* \* \*

a. The minimum ratio of Tier 1 capital to total assets for strong banking institutions (rated composite "1" under the UFIRS rating system of banks) is 3.0 percent. For all other institutions, the minimum ratio of Tier 1 capital to total assets is 4.0 percent. Banking institutions with supervisory, financial, operational, or managerial weaknesses, as well as institutions that are anticipating or experiencing significant growth, are expected to maintain capital ratios well above the minimum levels. Moreover, higher capital ratios may be required for any banking institution if warranted by its particular circumstances or risk profile. In all cases, institutions should hold capital commensurate with the level and nature of the risks, including the volume and severity of problem loans, to which they are exposed.

## Part 325 — Capital Maintenance

1. The authority citation for Part 325 continues to read as follows:

Authority: 12 U.S.C. 1815(a), 1815(b), 1816, 1818(a), 1818(b), 1818(c), 1818(t), 1819(Tenth), 1828(c), 1828(d), 1828(i), 1828(n), 1828(o), 1831o, 1835, 3907, 3909, 4808; Pub. L. 102–233, 105 Stat. 1761, 1789, 1790 (12 U.S.C. 1831n note); Pub. L. 102–242, 105 Stat. 2236, 2355, 2386 (12 U.S.C. 1828 note).

2. Paragraph (b)(2) in 325.3 is revised to read as follows: Section 325.3 Minimum leverage capital requirement.

(2) For all but the most highly-rated institutions meeting the conditions set forth in paragraph (b)(1) of this section, the minimum leverage capital requirement for a bank (or for an insured depository institution making an application to the FDIC) shall consist of a ratio of Tier 1 capital to total assets of not less than 4 percent.

3. In Appendix A to part 325, section II.B., paragraph 1. is revised to read as follows:

Appendix A to Part 325 — Statement of Policy on Risk-Based Capital

\* \* \* \* \*

II. \* \* \* B. \* \* \*

> 1. Indirect Holdings of Assets. Some of the assets on a bank's balance sheet may represent an indirect holding of a pool of assets; for example, mutual funds. An investment in shares of a mutual fund whose portfolio consists solely of various securities or money market instruments that, if held separately, would be assigned to different risk categories, generally is assigned to the risk category appropriate to the highest risk-weighted asset that the fund is permitted to hold in accordance with the stated investment objectives set forth in its prospectus. The bank may, at its option, assign the investment on a pro rata basis to different risk categories according to the investment limits in the fund's prospectus, but in no case will indirect holdings through shares in any mutual fund be assigned to a risk weight less than 20 percent. If the bank chooses to assign its investment on a pro rata basis, and the sum of the investment limits in the fund's prospectus exceeds 100 percent, the bank must assign risk weights in descending order. If, in order to maintain a necessary degree of short-term liquidity, a fund is permitted to hold an insignificant amount of its assets in short- term, highly liquid securities of superior credit quality that do not qualify for a preferential risk weight, such securities will generally be disregarded in determining the risk category to which the bank's holdings in the overall fund should be assigned. The prudent use of hedging instruments by a mutual fund to reduce the risk of its assets will not increase the risk weighting of the mutual fund investment. For example, the use of hedging instruments by a mutual fund to reduce the interest rate risk of its government bond portfolio will not increase the risk weight of that fund above the 20 percent category. Nonetheless, if the fund engages in any activities that appear speculative in nature or has any other characteristics that are inconsistent with the preferential risk weighting

<sup>35. \* \* \*</sup> Such loans to builders will be considered prudently underwritten only if the bank has obtained sufficient documentation that the buyer of the home intends to purchase the home (i.e., has a legally binding written sales contract) and has the ability to obtain a mortgage loan sufficient to purchase the home (i.e., has a firm written commitment for permanent financing of the home upon completion). \* \* \*

assigned to the fund's assets, holdings in the fund will be assigned to the 100 percent risk category.

4. In Appendix A to Part 325, section II.C., footnote number 26 is revised to read as follows:

II. \* \* \* 

Part 567 — Capital

1. The authority citation for Part 567 continues to read as follows:

Authority: 12 U.S.C. 1462, 1462a, 1463, 1464, 1467a, 1828 (note).

2. Section 567.1 is amended by adding a new sentence following the third sentence in the definition of qualifying mortgage loan, revising paragraphs (1)(ii) and (1)(iii) introductory text in the definition of qualifying residential construction loan and adding the definitions of Tier 1 capital and Tier 2 capital as follows:

Section 567.1 — Definitions.

\* \* \* \*

Qualifying mortgage loan. \* \* \* If a savings association holds the first and junior lien(s) on a residential property and no other party holds an intervening lien, the transaction is treated as a single loan secured by a first lien for the purposes of determining the loan-to-value ratio and the appropriate risk weight under section 567.6(a).

Qualifying residential construction loan.

- (1) \* \* \*
  - (ii) The residence being constructed must be a 1-4 family residence sold to a home purchaser;
  - (iii) The lending savings association must obtain sufficient documentation from a permanent lender (which may be the construction lender) demonstrating that:

Tier 1 capital. The term Tier 1 capital means core capital as computed in accordance with section 567.5(a) of this part. Tier 2 capital. The term Tier 2 capital means supplementary capital as computed in accordance with section 567.5 of this part.

3. Section 567.2(a)(2)(ii) is revised to read as follows:

Section 567.2 — Minimum regulatory capital requirement.

(a)\*\*\*

- (2) Leverage ratio requirement. \* \* \*
  - (ii) A savings association must satisfy this requirement with core capital as defined in section 567.5(a) of this part.

4. Section 567.6(a)(1)(vi) is revised to read as follows:

Section 567.6 Risk-based capital credit risk-weight categories.

(a)\*\*\*(1)\*\*\*

> (vi) Indirect ownership interests in pools of assets. Assets representing an indirect holding of a pool of assets, e.g., mutual funds, are assigned to risk-weight categories under this section based upon the risk weight that would be assigned to the assets in the portfolio of the pool. An investment in shares of a mutual fund whose portfolio consists primarily of various securities or money market instruments that, if held separately, would be assigned to different risk-weight categories, generally is assigned to the risk-weight category appropriate to the highest riskweighted asset that the fund is permitted to hold in accordance with the investment objectives set forth in its prospectus. The savings association may, at its option, assign the investment on a pro rata basis to different risk-weight categories according to the investment limits in its prospectus. In no case will an investment in shares in any such fund be assigned to a total risk weight less than 20 percent. If the savings association chooses to assign investments on a pro rata basis, and the sum of the investment limits of assets in the fund's prospectus exceeds 100 percent, the savings association must assign the highest pro rata amounts of its total investment to the higher risk categories. If, in order to maintain a necessary degree of short-term liquidity, a fund is permitted to hold an insignificant amount of its assets in short-term, highly liquid securities of superior credit quality that do not qualify for a preferential risk weight, such securities will generally be disregarded in determining the risk-weight category into which the savings association's holding in the overall fund should be assigned. The prudent use of hedging instruments by a mutual fund to reduce the risk of its assets will not increase the risk weighting of the mutual fund investment. For

<sup>26.</sup> If a bank holds the first and junior lien(s) on a residential property and no other party holds an intervening lien, the transactions are treated as a single loan secured by a first lien for purposes of determining the loan-to-value ratio and assigning a risk weight.

example, the use of hedging instruments by a mutual fund to reduce the interest rate risk of its government bond portfolio will not increase the risk weight of that fund above the 20 percent category. Nonetheless, if the fund engages in any activities that appear speculative in nature or has any other characteristics that are inconsistent with the preferential risk-weighting assigned to the fund's assets, holdings in the fund will be assigned to the 100 percent risk-weight category.

5. Section 567.8 is revised to read as follows:

Section 567.8 — Leverage ratio.

- (a) The minimum leverage capital requirement for a savings association assigned a composite rating of 1, as defined in section 516.3 of this chapter, shall consist of a ratio of core capital to adjusted total assets of 3 percent. These generally are strong associations that are not anticipating or experiencing significant growth and have well-diversified risks, including no undue interest rate risk exposure, excellent asset quality, high liquidity, and good earnings.
- (b) For all savings associations not meeting the conditions set forth in paragraph (a) of this section, the minimum leverage capital requirement shall consist of a ratio of core capital to adjusted total assets of 4 percent. Higher capital ratios may be required if warranted by the particular circumstances or risk profiles of an individual savings association. In all cases, savings associations should hold capital commensurate with the level and nature of all risks, including the volume and severity of problem loans, to which they are exposed.

#### FINAL RULE—AMENDMENT TO REGULATION Y

The Board of Governors of the Federal Reserve System (Board) is amending 12 C.F.R. Part 225, its Regulation Y (Risk-Based Capital Standards; Construction Loans on Presold Residential Properties; Junior Liens on 1- to 4-Family Residential Properties; and Investments in Mutual Funds). The intended effect of this final rule is to keep the Board's bank holding company risk-based capital standards for construction loans on presold residential properties, real estate loans secured by junior liens on 1- to 4-family residential properties, and investments in mutual funds consistent with the risk-based capital standards for banks and thrifts.

Effective April 1, 1999, 12 C.F.R. Part 225 is amended as follows:

Part 225 — Bank Holding Companies and Change in Bank Control (Regluation Y)

1. The authority citation for Part 225 continues to read as follows:

Authority: 12 U.S.C. 1817(j)(13), 1818, 1828(o), 1831i, 1831p-1, 1843(c)(8), 1844(b), 1972(1), 3106, 3108, 3310, 3331-3351, 3907, and 3909.

2. In Appendix A to Part 225, section III.A., footnote 24 is revised to read as follows:

Appendix A to Part 225 — Capital Adequacy Guidelines for Bank Holding Companies: Risk-Based Measure

3. In Appendix A to Part 225, section III.C.3. footnote 37 is revised to read as follows:

4. In Appendix A to Part 225, section III.C.3. is amended by adding a new sentence to the end of footnote 38 to read as follows:

24. An investment in shares of a fund whose portfolio consists primarily of various securities or money market instruments that, if held separately, would be assigned to different risk categories, generally is assigned to the risk category appropriate to the highest riskweighted asset that the fund is permitted to hold in accordance with the stated investment objectives set forth in the prospectus. An organization may, at its option, assign a fund investment on a pro rata basis to different risk categories according to the investment limits in the fund's prospectus. In no case will an investment in shares in any fund be assigned to a total risk weight of less than 20 percent. If an organization chooses to assign a fund investment on a pro rata basis, and the sum of the investment limits of assets in the fund's prospectus exceeds 100 percent, the organization must assign risk weights in descending order. If, in order to maintain a necessary degree of short-term liquidity, a fund is permitted to hold an insignificant amount of its assets in short-term, highly liquid securities of superior credit quality that do not qualify for a preferential risk weight, such securities generally will be disregarded when determining the risk category into which the organization's holding in the overall fund should be assigned. The prudent use of hedging instruments by a fund to reduce the risk of its assets will not increase the risk weighting of the fund investment. For example, the use of hedging instruments by a fund to reduce the interest rate risk of its government bond portfolio will not increase the risk weight of that fund above the 20 percent category. Nonetheless, if a fund engages in any activities that appear speculative in nature or has any other characteristics that are inconsistent with the preferential risk weighting assigned to the fund's assets, holdings in the fund will be assigned to the 100 percent risk category.

37. If a banking organization holds the first and junior lien(s) on a residential property and no other party holds an intervening lien, the transaction is treated as a single loan secured by a first lien for the purposes of determining the loan-to-value ratio and assigning a risk weight.

III. \* \* \* C. \* \* \* 3.\*\*\*38

ORDERS ISSUED UNDER BANK HOLDING COMPANY ACT

Orders Issued Under Section 3 of the Bank Holding Company Act

First Banks, Inc. Creve Coeur. Missouri

First Banks America, Inc. Clayton, Missouri

Order Approving Acquisition of a Bank Holding Company

First Banks, Inc., and First Banks America, Inc. (collectively, "First Banks"), bank holding companies within the meaning of the Bank Holding Company Act ("BHC Act"), have requested the Board's approval under section 3 of the BHC Act (12 U.S.C. § 1842) to acquire Redwood Bancorp ("Redwood"), and thereby indirectly acquire Redwood's subsidiary bank, Redwood Bank ("Bank"), both in San Francisco, California.

Notice of the proposal, affording interested persons an opportunity to submit comments, has been published (63 Federal Register 55,389 (1998)). The time for filing comments has expired, and the Board has considered the proposal and all comments received in light of the factors set forth in section 3 of the BHC Act.

First Banks, with total consolidated assets of approximately \$4.3 billion, operates subsidiary banks in Missouri, California and Texas. First Banks is the 37th largest commercial banking organization in California, controlling deposits of \$974.4 million, representing less than 1 percent of total deposits in commercial banking organizations in the state. Redwood is the 74th largest commercial banking organization in California, controlling deposits of \$384 million, representing less than 1 percent of total deposits in commercial banking organizations in the state. On consummation of the proposal, First Banks would become the 28th largest commercial banking organization in California, controlling deposits of \$1.36 billion, representing less than 1 percent of total deposits in the state.

#### Interstate Analysis

Section 3(d) of the BHC Act allows the Board to approve an application by a bank holding company to acquire control of a bank located in a state other than the home state of such bank holding company if certain conditions are met.2 For purposes of the BHC Act, the home state of First Banks is Missouri, and First Banks proposes to acquire a bank in California. All conditions for an interstate acquisition enumerated in section 3(d) are met in this case.<sup>3</sup> In light of all the facts of record, the Board is permitted to approve this proposal under section 3(d) of the BHC Act.

#### Competitive Factor

Section 3 of the BHC Act prohibits the Board from approving a proposal that would result in a monopoly, or would be in furtherance of any attempt to monopolize the business of banking.4 The BHC Act also prohibits the Board from approving a proposal that would substantially lessen competition in any relevant banking market, unless the Board finds that the anticompetitive effects of the proposal in that banking market are clearly outweighed in the public interest by the probable effect of the proposal in meeting the convenience and needs of the community to be served.5

First Banks and Redwood compete directly in the San Francisco-Oakland-San Jose banking market.<sup>6</sup> The Board has carefully reviewed the competitive effects of the proposal in this banking market in light of all the facts of record, including the characteristics of the market and the projected increase in the concentration of total deposits in depository institutions<sup>7</sup> in the market ("market depos-

<sup>38. \* \* \*</sup> Such loans to builders will be considered prudently underwritten only if the bank holding company has obtained sufficient documentation that the buyer of the home intends to purchase the home (i.e., has a legally binding written sales contract) and has the ability to obtain a mortgage loan sufficient to purchase the home (i.e., has a firm written commitment for permanent financing of the home upon completion).

<sup>1.</sup> All banking data are as of June 30, 1997.

<sup>2. 12</sup> U.S.C. § 1842(d). A bank holding company's home state is that state in which the operations of the bank holding company's banking subsidiaries were principally conducted on July 1, 1966, or the date on which the company became a bank holding company, whichever is later.

<sup>3. 12</sup> U.S.C. §§ 1842(d)(1)(A) and (B) and 1842(d)(2)(A) and (B). First Banks meets the capital and managerial requirements established by applicable law. On consummation of the proposal, First Banks and its affiliates would control less than 10 percent of the total amount of deposits of insured depository institutions in the United States, and less than 30 percent of the total amount of deposits in California. See Cal. Financial Code § 3753 (West 1999). All other requirements of section 3(d) of the BHC Act also would be met on consummation of the proposal.

<sup>4. 12</sup> U.S.C. § 1842(c)(1)(A).

<sup>5. 12</sup> U.S.C. § 1842(c)(1)(B).

<sup>6.</sup> The San Francisco-Oakland-San Jose banking market is approximated by the San Francisco-Oakland-San Jose Ranally Metropolitan Area, including the city of Pescardero.

<sup>7.</sup> For this purpose, depository institution includes all insured banks, savings banks, and saving associations. Market share data are based on calculations that include the deposits of thrift institutions at 50 percent. The Board previously has indicated that thrift institutions have become, or have the potential to become, significant competitors of commercial banks. See, e.g., Midwest Financial Group, 75 Federal Reserve Bulletin 386 (1989); National City Corporation, 70 Federal Reserve Bulletin 743 (1984). Thus, the Board has regularly included thrift deposits in the calculation of market share on a 50-percent weighted basis. See, e.g., First Hawaiian, Inc., 77 Federal Reserve Bulletin 52 (1991).

its") as measured by the Herfindahl-Hirschman Index ("HHI") under the Department of Justice Merger Guidelines ("DOJ Guidelines").8 Consummation of the proposal would be consistent with the DOJ Guidelines and prior Board precedent in the San Francisco-Oakland-San Jose banking market.9 The HHI would remain unchanged at 1579. The DOJ has reviewed the proposal and advised the Board that consummation of the proposal would not likely have a significantly adverse competitive effect in the San Francisco-Oakland-San Jose banking market or any other relevant market.

Based on these and all the facts of record, the Board concludes that consummation of the proposal would not result in any significantly adverse effects on competition or on the concentration of banking resources in the San Francisco-Oakland-San Jose banking market, or in any other relevant banking market, and that competitive factors are consistent with approval of the proposal.

#### Financial, Managerial and Other Considerations

The BHC Act also requires the Board to consider the financial and managerial resources and future prospects of the companies and banks involved in the proposal, the convenience and needs of the communities to be served, and certain supervisory factors. The Board has reviewed carefully these factors in light of all the factors of record, including supervisory reports of examination assessing the financial and managerial resources of the organizations and confidential financial information provided by First Banks. Based on these and all the other facts of record, the Board concludes that the financial and managerial resources and future prospects of First Banks, Redwood and their subsidiary banks are consistent with approval, as are the other supervisory factors that the Board must consider under section 3 of the BHC Act.<sup>10</sup>

In considering the convenience and needs factor, the Board has reviewed the records of First Banks's subsidiary banks and Bank under the Community Reinvestment Act ("CRA").11 The Board notes that First Banks does not intend to make any material changes in the products and services provided by Bank. The Board has evaluated the convenience and needs factor in light of examinations of the CRA performance records of First Banks's subsidiary banks and Bank. Each of First Banks's subsidiary banks received a rating of "satisfactory" at its most recent examination for CRA performance in 1998 from its federal supervisory agency. Bank received a rating of "satisfactory" at its most recent examination of CRA performance as of March 4, 1997, by the Federal Deposit Insurance Corporation. Based on all the facts of record, the Board concludes that convenience and needs considerations, including the CRA performance records of the relevant institutions, are consistent with approval of the proposal.

#### Conclusion

Based on the foregoing, and in light of all the facts of record the Board has determined that the applications should be, and hereby, are approved. Approval of the applications is specifically conditioned on compliance by First Banks with all the commitments made in connection with the proposal. For purposes of this order, the commitments and conditions referred to above shall be deemed to be conditions imposed in writing by the Board in connection with its findings and decision and, as such, may be enforced in proceedings under applicable law.

The acquisition of Redwood shall not be consummated before the fifteenth calendar day after the effective date of the order, or later than three months after the effective date of this order, unless such period is extended for good cause by the Board, or by the Federal Reserve Bank of St. Louis acting pursuant to delegated authority.

By order of the Board of Governors, effective February 12, 1999.

Voting for this action: Chairman Greenspan, Vice Chair Rivlin, and Governors Kelley, Meyer, Ferguson, and Gramlich.

ROBERT DEV. FRIERSON Associate Secretary of the Board

The Banc Corporation Birmingham, Alabama

Order Approving the Acquisition of a Savings Association

The Banc Corporation ("TBC"), a bank holding company within the meaning of the Bank Holding Company Act

<sup>8.</sup> Under the DOJ Guidelines, 49 Federal Register 26,823 (1984), a market in which the post-merger HHI is between 1000 and 1800 is considered to be moderately concentrated. The Department of Justice ("DOJ") has informed the Board that a bank merger or acquisition generally will not be challenged (in the absence of other factors indicating anticompetitive effects) unless the post-merger HHI is at least 1800 and the merger or acquisition increases the HHI by at least 200 points. The DOJ has stated that the higher than normal HHI thresholds for screening bank mergers or acquisitions for anticompetitive effects implicitly recognize the competitive effects of limited-purpose lenders and other nondepository financial institutions.

<sup>9.</sup> On consummation of the proposal, First Banks would become the 31st largest depository institution in the San Francisco-Oakland-San Jose banking market, controlling deposits of \$205 million, representing less than 1 percent of market deposits. The HHI would remain unchanged at 1579.

<sup>10.</sup> The Board has received a letter from a director of Bank requesting an indefinite suspension of the acquisition. The director states that he was placed on the board of directors of Bank as a representative of the Republic of the Philippines (the "Philippines") in accordance with a consent order issued by a United States District Court. The director requested that the processing of the application be suspended until the appropriate authorities in the Philippines have reviewed the transaction. The Board has contacted the appropriate

authorities in the Philippines and has considered the director's comments in light of information provided by the Philippines government. 11. 12 U.S.C. § 2901 *et seq.* 

("BHC Act"), has requested the Board's approval under section 4(c)(8) of the BHC Act (12 U.S.C. § 1843(c)(8)) and section 225.24 of the Board's Regulation Y (12 C.F.R. 225.24)) to merge with Emerald Coast Bancshares, Inc. and thereby acquire its wholly owned savings association, Emerald Coast Bank, both of Panama City Beach, Florida ("Emerald") after that institution's conversion from a state-chartered savings bank to a federally chartered savings association.1

Notice of the proposal, affording interested persons an opportunity to submit comments, has been published (63 Federal Register 68,768 (1998)). The time for filing comments has expired, and the Board has considered the proposal and all comments received in light of the factors set forth in section 4 of the BHC Act.

TBC currently operates one subsidiary bank in Alabama, with total consolidated assets of \$104 million. TBC is the 73rd largest commercial banking organization in Alabama, controlling approximately \$93 million in deposits, representing less than 1 percent of total deposits in commercial banking organizations in the state ("state deposits").2 Emerald is the 173rd largest depository institution in Florida, controlling \$31 million in deposits, representing less than 1 percent of state deposits.3 TCB and Emerald do not compete in any relevant banking markets.

The Board previously has determined by regulation that the operation of a savings association by a bank holding company is closely related to banking for purposes of section 4(c)(8) of the BHC Act.4 In making this determination, the Board requires that savings associations acquired by bank holding companies conform their direct and indirect activities to those permissible for bank holding companies under section 4 of the BHC Act. TBC has committed to conform all of Emerald's activities to those permissible under section 4(c)(8) of the BHC Act and Regulation Y.

In order to approve the proposal, the Board must determine that the proposed activities are a proper incident to banking, that is, that the proposal "can reasonably be expected to produce benefits to the public, such as greater convenience, increased competition, or gains in efficiency, that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices." 5 In assessing the balance of public benefits and adverse effects of this proposal, the Board has considered comments submitted by the Director of Banking of the Florida Department of Banking and Finance ("Director"). The Director expressed concern that TBC's proposal to convert Emerald

The Board has reviewed the Director's comments in light of the factors that the Board must consider under section 4 of the BHC Act. The Board concludes that a violation of law is a factor it must consider in determining whether a proposal under section 4(c)(8) would produce net public benefits. In this case, however, the Board does not believe that the acquisition of Emerald as a savings association would result in a violation of law. Unlike section 3 of the BHC Act, section 4 does not apply a minimum age limitation on the ability of out-of-state bank holding companies to acquire savings associations.<sup>7</sup> In addition, once Emerald has converted to a savings association, the minimum operating requirement that applies to the acquisition of banks under Florida state law does not apply. Moreover, TBC has stated that it plans to acquire and operate Emerald as a savings association, and that it has no plans to convert Emerald back to a bank. TBC may not operate Emerald as a bank without prior Board approval under section 3 of the BHC Act and without meeting the requirements of section 3(d) of the Act. TBC has committed that it will maintain Emerald as a savings association until August 31, 1999.

The Board also has considered the financial and managerial resources of TBC, its subsidiaries, and Emerald and the effect the transaction would have on such resources in light of all the facts of record.8 The Board has reviewed, among other things, confidential reports of examination and other supervisory information received from the appropriate supervisory authorities for the organizations. Based on all the facts of record, the Board concludes that the financial and managerial resources of the organizations involved in this proposal are consistent with approval.

The record indicates that consummation of the proposal would produce benefits for consumers. TBC states that the proposed acquisition of Emerald would allow TBC to offer a wider range of deposit accounts and loan products and would result in improved automated services available to Emerald customers. In addition, the Board has recognized that there are public benefits to be derived from permitting capital markets to operate so that banking organizations may make potentially profitable investments in nonbanking companies and allocate their resources in the manner they believe to be most efficient when such investments are consistent, as in this case, with the relevant considerations

to a savings association and acquire it pursuant to section 4 of the BHC Act was designed to evade Florida's interstate banking statute, which requires a Florida bank to be in existence and continuously operating for more than three years before it can be acquired by an out-of-state holding company.6

<sup>1.</sup> The conversion of Emerald from a bank to a savings association would occur before the merger. The Office of Thrift Supervision ("OTS") approved the conversion of Emerald from a bank to a savings association on December 16, 1998.

<sup>2.</sup> Asset and deposit data, including rankings, are as of September 30, 1998.

<sup>3.</sup> Deposit data and rankings are as of June 30, 1997. In this context, depository institutions include commercial banks, savings banks, and savings associations.

<sup>4. 12</sup> C.F.R. 225.28(b)(4).

<sup>5. 12</sup> U.S.C. § 1843(e)(8).

<sup>6.</sup> Fla. Stat. Ann. § 658.295(8)(a). Emerald began operations on August 30, 1996.

<sup>7.</sup> Section 3(d) of the BHC Act specifically authorizes a state to enact laws that limit the ability of an out-of-state bank holding company to acquire a bank in that state by requiring that the bank to be acquired be in existence for a minimum period of time, as long as that period does not exceed five years. 12 U.S.C. § 1842(d).

<sup>8.</sup> See 12 C.F.R. 225.26.

under the BHC Act.9 The Board believes that the conduct of the proposed activities within the framework established in Regulation Y is not likely to result in significantly adverse effects, such as an undue concentration or resources, decreased or unfair competition, conflicts of interests, or unsound banking practices that would outweigh the public benefits of the proposal, such as increased consumer convenience. Accordingly, the Board has determined that the balance of factors considered under the proper incident to banking standards of section 4(c)(8) of the BHC Act is consistent with approval.

#### Conclusion

Based on the foregoing and all the facts of record, the Board has determined that the notice should be, and hereby is, approved. The Board's approval of the proposal is specifically conditioned on compliance by TBC with the commitments made in connection with the notice. The Board's determination also is subject to all the conditions in Regulation Y, including those in sections 225.7 and 225.25(c) (12 C.F.R. 225.7 and 225.25(c)), and to the Board's authority to require such modification or termination of the activities of a holding company or any of its subsidiaries as the Board finds necessary to ensure compliance with, or to prevent evasion of, the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder. The commitments and conditions relied on by the Board in reaching this decision are deemed to be conditions imposed in writing by the Board in connection with its findings and decision, and, as such, may be enforced in proceedings under applicable law.

The transaction shall not be consummated later than three months after the effective date of this order, unless such period is extended for good cause by the Board or by the Federal Reserve Bank of Atlanta, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 1, 1999.

Voting for this action: Chairman Greenspan, Vice Chair Rivlin, and Governors Kelley, Meyer, Ferguson, and Gramlich.

> ROBERT DEV. FRIERSON Associate Secretary of the Board

BankAmerica Corporation Charlotte, North Carolina

BancWest Corporation Honolulu, Hawaii

BB&T Corporation Winston-Salem, North Carolina

First Union Corporation Charlotte, North Carolina SunTrust Banks, Inc. Atlanta, Georgia

Wachovia Corporation Winston-Salem, North Carolina

Zions Bancorporation Salt Lake City, Utah

Order Approving Notices to Conduct Certain Data Processing Activities and Other Nonbanking Activities

BankAmerica Corporation, BancWest Corporation, BB&T Corporation, First Union Corporation, SunTrust Banks, Inc., Wachovia Corporation, and Zions Bancorporation (collectively, "Notificants"), bank holding companies within the meaning of the Bank Holding Company Act ("BHC Act"), have requested the Board's approval under section 4(c)(8) of the BHC Act (12 U.S.C. 1843(c)(8)) and section 225.24 of the Board's Regulation Y (12 C.F.R. 225.24) to acquire and merge Honor Technologies, Inc., Maitland, Florida, and Star Systems, Inc., San Diego, California, and to engage in providing data processing services, pursuant to section 225.28(b)(14) of Regulation Y (12 C.F.R. 225.28(b)(14)).1 In addition, Notificants, through H&S, would engage in providing check verification services, in accordance with section 225.28(b)(2) of Regulation Y (12 C.F.R. 225.28(b)(2)), and management consulting services related to the activities of H&S, in accordance with section 225.28(b)(9) of Regulation Y (12 C.F.R. 225.28(b)(9)).

Currently, Honor Technologies, Inc. operates two electronic funds transfer ("EFT") networks under the service names HONOR and HONOR West (collectively, "HONOR"), and Star Systems, Inc. operates the Star EFT network ("Star"). These EFT networks provide data processing and transmission services to financial institutions and merchants that are members of their respective branded automated teller machine ("ATM") and point of sale ("POS") networks.2 H&S would engage through HONOR and Star in certain nonbanking activities related to the operation of ATM and POS networks, including various data processing and transmission services, in accordance

<sup>9.</sup> See Banc One Corporation, 84 Federal Reserve Bulletin 553 (1998).

<sup>1.</sup> Notificants would form a de novo company, H&S Holding Company, Maitland, Florida ("H&S"), that would indirectly acquire all the voting shares of the two companies to be acquired. Notificants are shareholders or members of the companies to be acquired and, under the proposal, each would receive, directly or indirectly, more than 5 percent of the voting shares of H&S.

<sup>2.</sup> In general, an ATM network is an arrangement whereby more than one ATM and more than one depository institution (or the depository records of such institutions) are connected by electronic or telecommunications means to one or more computers, processors or switches for the purpose of providing ATM services to retail customers of the depository institutions. POS terminals are generally located in merchant establishments. POS terminals accept ATM or similar cards from retail customers and, using an ATM network or a parallel POS-only network, provide access to a retail customer's account to transfer funds to a merchant's account.

with section 225.28(b)(14) of Regulation Y (12 C.F.R. 225.28(b)(14)).

Notice of the proposal, affording interested persons an opportunity to submit comments, has been published (63 Federal Register 67,693 and 70,131 (1998)). The time for filing comments has expired, and the Board has considered the notice and all comments received in light of the factors set forth in section 4(c)(8) of the BHC Act. As in similar cases, the Board also sought comments from the Department of Justice on the competitive effects of the proposal. The Department of Justice indicated that it had no objection to consummation of the proposed transaction.

Notificants are large commercial banking organizations with headquarters in Georgia, Hawaii, North Carolina, and Utah. Notificants each engage directly and through subsidiaries in a broad range of banking and permissible nonbanking activities in the United States.3

Section 4(c)(8) of the BHC Act provides that a bank holding company may, with Board approval, engage in any activity that the Board determines to be "so closely related to banking or managing and controlling banks as to be a proper incident thereto." The Board previously has determined that all the activities proposed in the notice are closely related to banking within the meaning of section 4(c)(8) of the BHC Act.<sup>4</sup> Notificants would conduct the proposed activities in accordance with Regulation Y and previous Board decisions.5

The Board also must consider whether the performance of the proposed activities by Notificants through H&S "can reasonably be expected to produce benefits to the public . . . that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices." As part of this review under section 4(c)(8) of the BHC Act, the Board considers the financial and managerial resources of Notificants, their subsidiaries, and any company to be acquired and the effect of the proposal on those resources.7 Based on all the facts of record, including reports of examination and other supervisory information, the Board concludes that financial and managerial considerations are consistent with approval of the proposal. In addition, there is no evidence in the record that the proposal would result in conflicts of interests or unsound banking practices.

#### Competitive Considerations

The proposal would result in the combination of two EFT networks, one operating primarily in the mid-Atlantic and southeastern states and the other operating primarily in the western states.8 A number of other large regional networks and national networks that link financial institutions and local and regional networks nationwide would continue to operate in these areas.

To determine whether a particular transaction is likely to decrease competition, the Board traditionally has considered the area of effective competition between parties. The area of effective competition has been defined by reference to the line of commerce or product market involved and a geographic market. In this case, the Board has carefully considered the relevant product and geographic markets in which to analyze the competitive effects of the proposal in light of all the facts of record, including information provided by Notificants and the geographic scope of and services provided by existing EFT networks and other providers of EFT services.

The Board previously has identified three distinct products that are typically offered by EFT networks:

- (1) Network access (access to an EFT network identified by a common trademark or logo displayed on ATMs, POS terminals, and access cards);
- (2) Network services (operation of a "network switch" to receive and route electronic messages between ATMs, POS terminals, and data processing facilities used by depository institutions to authorize EFT transactions and the provision of "gateway" access to other networks); and
- (3) ATM/POS processing (data processing and transmission used to drive ATMs and POS terminals, monitor their activity, authorize ATM and POS transactions, and reconcile accounts).9

HONOR provides all three services to its network members. Star directly provides only network access; a third party provides network services and ATM/POS processing. Under the proposal, H&S would not acquire the facilities to provide network services or ATM/POS processing services to the Star network or any other network or the right to provide these services. Accordingly, the relevant product market in which to examine the competitive effects of the proposal is the market for network access.

The Board previously has determined that the geographic market for network access is an area significantly larger than local banking markets and has considered the market area of an EFT network to consist of regions

<sup>3.</sup> Asset and deposit data for each Notificant are set forth in the Appendix.

<sup>4.</sup> See 12 C.F.R. 225.28(b)(2), (9), and (14); 12 C.F.R. 225.131 (permissible consulting services); Barnett Banks of Florida, Inc., 65 Federal Reserve Bulletin 263 (1979) (check verification services); Compagnie Financiére de Paribas, 82 Federal Reserve Bulletin 348 (1996) (fraud detection services); Bank of New York Company, Inc., 80 Federal Reserve Bulletin 1107 (1994) ("InfiNet Order") (ATM network services); Banc One Corporation, 81 Federal Reserve Bulletin 492 (1995) ("EPS Order") (ATM network services).

<sup>5.</sup> The Board notes that ATM activities must be conducted in accordance with applicable federal and state laws, including applicable branching laws.

<sup>6.</sup> See 12 U.S.C. 1843(c)(8).

<sup>7.</sup> See 12 C.F.R. 225.26.

<sup>8.</sup> HONOR and Star are among the largest EFT regional networks in the United States. Star has the largest number of ATMs, POS terminals, and EFT transactions per month, and HONOR has the second largest number of ATMs and EFT transactions per month and the third largest number of POS terminals. HONOR has the largest number and Star has the seventh largest number of financial institutions participating in a network. Sources: EFT Network Data Book (1999); Bank Network News (September 25, 1998).

<sup>9.</sup> See EPS Order at 493-94.

comprising several states. <sup>10</sup> Based on all the facts of record, the Board believes that HONOR has a significant competitive presence in the mid-Atlantic and southeastern states (Alabama, Florida, Georgia, Maryland, North Carolina, South Carolina, Tennessee, Virginia, and the District of Columbia) and, to a lesser extent, in Kansas and Missouri. Star's primary service area is located in the western United States (Arizona, California, Colorado, Hawaii, Idaho, Nevada, Oregon, Utah, and Washington). Thus, the primary service areas for HONOR and Star do not overlap.

There are a number of areas outside these primary service areas in which HONOR and Star somewhat overlap in providing network access. Changes in market concentration in these other areas would not be significant, however, and in each area a number of other networks, including other large regional networks, and third party processors will continue to operate and to provide both direct and potential competition for HONOR and Star.<sup>11</sup> National networks also offer an alternative to regional networks for some financial institutions, particularly in the southeast region served by HONOR, where relatively fewer financial institutions are members of any regional EFT network and national networks appear to be increasing their competitive presence.<sup>12</sup>

The Board also has considered the proposed operating rules for HONOR and Star. 13 The rules appear to facilitate competition and to ensure access to the network for all depository institutions. For example, all depository institutions would be able to participate in HONOR and Star on a nondiscriminatory basis, to join other regional networks, and to co-brand their cards and ATM terminals. Each member of the network would be able to set for itself the fees it charges its retail customers for ATM or POS transactions.14 The operating rules also would permit the use of third-party processors and unbranded subswitching of transactions. 15 The Board notes that transactions initiated at an ATM in the HONOR or Star network and routed through a national network to another network would not be required to pass through the HONOR or Star gateway. In addition, H&S's proposed corporate structure ensures

that its board of directors would represent a wide range of interests and that H&S's policymaking would not be dominated by the organizations with the largest shareholdings.<sup>16</sup>

The proposal, therefore, would provide services to Notificants' subsidiary banks, other shareholders of H&S, and other financial institutions that participate in HONOR or Star under operating rules that would promote open access to the network.<sup>17</sup> Smaller financial institutions would have the opportunity to provide their customers with greater access to their deposit accounts and thereby could compete with larger, multistate organizations for retail deposit funds without substantial investments in their own proprietary ATM networks. In addition, the operating rules of HONOR and Star would promote competition between the HONOR and Star networks and alternative providers of EFT-related services, including national ATM and POS networks, other regional networks, and third-party providers of EFT switching and processing services, and thereby encourage price and other competition for the services provided by HONOR and Star.

In this light, and based on all the facts of record, the Board concludes that the proposal would not result in adverse effects such as undue concentration of resources or unfair competition. For these reasons, and based on all the facts of record, the Board concludes that consummation of the proposal is not likely to have a significantly adverse effect on competition in any relevant market.

#### Public Benefits

Section 4(c)(8) of the BHC Act requires that, in order to approve a proposal, the Board must determine that the public benefits that could reasonably be expected from the proposal would outweigh potential adverse effects. This is a balancing process that takes into account the extent of the potential for adverse effects, which, for the reasons indicated above, the Board does not believe to be significant in this case.

Consumers would benefit from the added account availability and convenience resulting from consummation of the proposal. In particular, an ATM network with a large number of financial institution members and that provides network access at more locations over a broad geographical area would have greater value to network cardholders because they would have broader and more convenient access to their deposit accounts. In this case, the geographic markets served by H&S would include all the southern United States and the Pacific northwest states and, accordingly, the proposal would enhance benefits to con-

<sup>10.</sup> See EPS Order at 494.

<sup>11.</sup> The Board also notes the rapid growth in recent years in the volume of POS transactions, which serve as an alternative for certain ATM transactions, and the presence of a number of competitors that provide POS network services across regional boundaries.

<sup>12.</sup> See Barnett Banks, Inc., 83 Federal Reserve Bulletin 131, 133 n.20 (1997) ("HONOR/Most Order"). In October 1998, Visa began operations of its Visa Check II card, a debit card offering issuers higher fees for POS transactions but prohibiting co-branding with other networks.

<sup>13.</sup> The Board previously has determined that ATM network operating rules are an important consideration in assessing the competitive impact of a proposal under the section 4(c)(8) factors. See InfiNet Order: EPS Order.

<sup>14.</sup> See HONOR/Most Order at 132.

<sup>15. &</sup>quot;Subswitching" refers to the routing of transactions between members of the same regional network without accessing that network, and, therefore, without paying the network's switch fee. Typically, this is accomplished by routing the transaction through a third-party processor that provides ATM processing services for both network members.

<sup>16.</sup> The proposed bylaws of H&S provide that the board of directors would consist of 30 members, and this number may not be changed except by the affirmative vote of two-thirds of the directors or shareholders. No more than one director may be an affiliate of or have any material business relationship with any one shareholder, and voting for directors is cumulative. No shareholder may hold more than 19 percent of H&S voting shares. See also HONOR/Most Order at 133 n.21.

<sup>17.</sup> See HONOR/Most Order at 132-33.

sumers in these areas, particularly as consumer travel increases and business activity continues to grow.18

In addition, H&S would offer services to all financial institutions, and smaller financial institutions would have the opportunity to provide their customers with greater access to their deposit accounts. As noted, membership in the H&S networks would enable smaller financial institutions to compete with larger, multistate organizations to retain deposit funds without having to make substantial investments in branch systems or their own proprietary ATM networks.

Consummation of the proposal also would result in other public benefits. The proposal is expected to produce economies of scale, for example, and to reduce average costs for the combined networks.<sup>19</sup> Members of each network also would benefit from the technical expertise and the expanded research and development programs of the other network. Star network members would have access to a broader array of products and services, including card production and website design and maintenance. HONOR network members would benefit from the introduction of a service provided by Star that permits bill payments by telephone without the use of a personal identification num-

For the foregoing reasons, and after careful consideration of all the facts of record, the Board has determined that consummation of the proposal can reasonably be expected to produce public benefits that would outweigh any possible adverse effects under the proper incident to banking standard of section 4(c)(8) of the BHC Act.

#### Conclusion

Based on all the facts of record, the Board has determined that the notices should be, and hereby are, approved. The Board's approval is specifically conditioned on Notificants' compliance with the commitments made in connection with these notices and the conditions referred to in this order. The Board's determination also is subject to all the terms and conditions set forth in Regulation Y, including those in sections 225.7 and 225.25(c) (12 C.F.R. 225.7 and 225.25(c)), and to the Board's authority to require modification or termination of the activities of a bank holding company or any of its subsidiaries that the Board finds necessary to ensure compliance with, or to prevent evasion of, the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder. For purposes of this action, the commitments and conditions shall be deemed to be conditions imposed in writing by the Board in connection with its findings and decision and, as such, may be enforced in proceedings under applicable law.

This proposal shall not be consummated later than three months after the effective date of this order, unless such period is extended for good cause by the Board, or the Federal Reserve Banks of Atlanta, Richmond or San Francisco, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 1, 1999.

Voting for this action: Chairman Greenspan, Vice Chair Rivlin, and Governors Kelley, Meyer, Ferguson, and Gramlich.

> ROBERT DEV. FRIERSON Associate Secretary of the Board

#### Appendix

Asset and Deposit Data for Notificants1

BankAmerica Corporation, with approximately \$594.7 billion in total consolidated assets, is the second largest commercial banking organization in the United States, controlling \$287.6 billion in deposits. BankAmerica Corporation operates subsidiary banks in 23 states and the District of Columbia. BancWest Corporation, with approximately \$8.2 billion in total consolidated assets, is the 63rd largest commercial banking organization in the United States, controlling \$5.9 billion in deposits. BancWest Corporation operates subsidiary banks in five states.

BB&T Corporation, with approximately \$33.9 billion in total consolidated assets, is the 27th largest commercial banking organization in the United States, controlling \$20.6 billion in deposits. BB&T Corporation operates subsidiary banks in four states and the District of Columbia.

First Union Corporation, with approximately \$234.6 billion in total consolidated assets, is the sixth largest commercial banking organization in the United States, controlling \$134 billion in deposits, First Union Corporation operates subsidiary banks in 12 states and the District of Columbia.

SunTrust Banks, Inc., with approximately \$86.6 billion in total consolidated assets, is the 11th largest commercial banking organization in the United States, controlling \$53.3 billion in deposits. SunTrust Banks, Inc., operates subsidiary banks in six states and the District of Columbia.

Wachovia Corporation, with approximately \$65.6 billion in total consolidated assets, is the 17th largest commercial banking organization in the United States, controlling \$37 billion in deposits. Wachovia Corporation operates subsidiary banks in six states.

<sup>18.</sup> See HONOR/Most Order at 134.

<sup>19.</sup> Notificants expect that any network services and ATM processing that are consolidated in the future would result in economies of scale for computer facilities, operations personnel, programming staff, and other support services and would likely reduce the cost of operation of the HONOR and Star networks.

<sup>1.</sup> Asset data are as of September 30, 1998, and deposit data are as of June 30, 1998, and are adjusted to reflect acquisitions consummated after that date.

Zions Bancorporation, with approximately \$12.4 billion in total consolidated assets, is the 53rd largest commercial banking organization in the United States, controlling \$8.1 billion in deposits. Zions Bancorporation operates subsidiary banks in eight states.

Istituto Bancario San Paolo di Torino-Istituto Mobiliare Italiano S.p.A. Turin, Italy

Order Approving Notice to Engage in Nonbanking Activities

Istituto Bancario San Paolo di Torino-Istituto Mobiliare Italiano S.p.A. ("San Paolo-IMI"), a foreign banking organization subject to the provisions of the Bank Holding Company Act ("BHC Act"), has requested the Board's approval to engage through Mabon Securities Corp. ("Mabon") and, in certain cases, through Mabon's wholly owned subsidiary, Cedar Street Securities Corp. ("Cedar Street"), both of New York, New York, in the following nonbanking activities:

- (1) Extending credit and servicing loans, in accordance with section 225.28(b)(1) of Regulation Y (12 C.F.R. 225.28(b)(1));
- (2) Engaging in activities related to extending credit, in accordance with section 225.28(b)(2) of Regulation Y (12 C.F.R. 225.28(b)(2));
- (3) Providing financial and investment advisory services, in accordance with section 225.28(b)(6) of Regulation Y (12 C.F.R. 225.28(b)(6));
- (4) Providing securities brokerage, riskless principal, private placement, futures commission merchant, and other agency transactional services, in accordance with section 225.28(b)(7) of Regulation Y (12 C.F.R 225.28(b)(7));
- (5) Underwriting and dealing in government obligations and money market instruments in which state member banks may underwrite and deal under 12 U.S.C. §§ 335 and 24(7) ("bank-eligible securities"), engaging in investing and trading activities, and buying and selling bullion and related activities, in accordance with section 225.28(b)(8) of Regulation Y (12 C.F.R. 225.28(b)(8)); and
- (6) Underwriting and dealing in, to a limited extent, all types of debt and equity securities, except owner-

1. As a foreign banking organization operating a branch in the United States, San Paolo-IMI is subject to certain provisions of the BHC Act pursuant to section 8(a) of the International Banking Act of 1978. 12 U.S.C. § 3106(a).

ship interests in open-end investment companies ("bank-ineligible securities") through Mabon.<sup>3</sup>

Notice of the proposal, affording interested persons an opportunity to submit comments, has been published (63 Federal Register 67,693 (1998)). The time for filing comments has expired, and the Board has considered the notice and all comments received in light of the factors set forth in section 4(c)(8) of the BHC Act.

San Paolo-IMI, with total consolidated assets of approximately \$200 billion, is the largest banking organization in Italy.4 In the United States, San Paolo-IMI operates a federally licensed branch in New York, New York, and a representative office in Los Angeles, California.5 Mabon engages in securities transactions in the United States on behalf of San Paolo-IMI's European affiliates and provides research and investment management services to both U.S. and foreign investors. Mabon and Cedar Street are and will continue to be broker-dealers registered with the Securities and Exchange Commission ("SEC") under the Securities Exchange Act of 1934 (15 U.S.C. § 78a et seq.) and members of the National Association of Securities Dealers, Inc. ("NASD"). Accordingly, Mabon and Cedar Street are and will continue to be subject to the recordkeeping and reporting obligations, fiduciary standards, and other requirements of the Securities Exchange Act, the SEC, and the NASD.

Underwriting and Dealing in Bank-Ineligible Securities

The Board previously has determined-subject to the framework of prudential limitations established in previous decisions to address the potential for conflicts of interests, unsound banking practices, or other adverse effects-that

<sup>2.</sup> San Paolo-IMI was formed in November 1998 through the merger of Istituto San Paolo di Torino S.p.A., Turin, Italy ("San Paolo"), and Istituto Mobiliare Italiano S.p.A., Rome, Italy ("IMI"). In connection with this merger, San Paolo-IMI received approval under section 4(c)(9) of the BHC Act to retain temporarily the United States subsidiaries of IMI. See Letter dated July 27,1998, from Robert deV. Frierson, Associate Secretary of the Board, to Randal K. Quarles, Esq.

<sup>3.</sup> Cedar Street currently is an inactive subsidiary of Mabon. San Paolo-IMI has indicated that in the future Cedar Street may commence the activities listed above, except underwriting and dealing in bank-ineligible securities. San Paolo-IMI has agreed to consult with the Federal Reserve System before Cedar Street commences any bank-ineligible underwriting and dealing activities so that it can be determined whether an additional notice pursuant to section 4(c)(8) of the BHC Act would be required.

<sup>4.</sup> Asset and ranking data are as of June 30, 1998.

<sup>5.</sup> Compagnia di San Paolo (the "Foundation"), an Italian public law foundation, previously controlled a majority of the voting shares of San Paolo. See Istituto Bancario San Paolo di Torino, S.p.A., 82 Federal Reserve Bulletin 1147 (1996). The Foundation has significantly reduced its ownership interest in San Paolo over time and currently owns approximately 16 percent of the voting shares of San Paolo-IMI. One director and two other representatives of the Foundation also serve on San Paolo-IMI's current 17-member board of directors. Italian law requires that the Foundation terminate its director interlock with San Paolo-IMI by April 15, 1999, and prohibits the Foundation from being involved in the management of San Paolo-IMI after November 18, 1999. The Foundation also has entered into a shareholders' agreement that permits the Foundation to vote only 5 percent of San Paolo-IMI's shares at the next election of San Paolo-IMI's board of directors. San Paolo-IMI has represented that the Foundation will not have the right or ability to independently elect any director to the future boards of directors of San Paolo-IMI. Based on these and all other facts of record, including the limited nature of the continuing business relationships between the Foundation and San Paolo-IMI, the Board has determined that the Foundation is not required to join this notice.

underwriting and dealing in bank-ineligible securities is so closely related to banking as to be a proper incident thereto within the meaning of section 4(c)(8) of the BHC Act.<sup>6</sup> The Board also has determined that underwriting and dealing in bank-ineligible securities is consistent with section 20 of the Glass-Steagall Act (12 U.S.C. § 377), provided that the company engaged in the activity derives no more than 25 percent of its gross revenues from underwriting and dealing in bank-ineligible securities.7

San Paolo-IMI has committed that Mabon will conduct its underwriting and dealing activities using the methods and procedures and subject to the prudential limitations established by the Board in the Section 20 Orders. San Paolo-IMI also has committed that Mabon will conduct its bank-ineligible securities underwriting and dealing subject to the Board's revenue restriction. As a condition of this order, San Paolo-IMI is required to conduct its bank-ineligible securities activities subject to the revenue restrictions and Operating Standards established for section 20 subsidiaries ("Operating Standards").8

#### Other Activities Approved by Regulation

The Board previously has determined that credit and creditrelated activities; financial and investment advisory activities; securities brokerage, riskless principal, private place-

and other agency transactional activities; underwriting and dealing in bank-eligible securities; investing and trading activities; and buying and selling bullion and related activities are all closely related to banking within the meaning of section 4(c)(8) of the BHC Act.9 San Paolo-IMI has committed that it will conduct these activities in accordance with the limitations set forth in Regulation Y and the Board's orders and interpretations relating to each of these activities.

#### Other Considerations

In order to approve the notice, the Board also must determine that performance of the proposed activities is a proper incident to banking, that is, that the proposed activities "can reasonably be expected to produce benefits to the public, such as greater convenience, increased competition, or gains in efficiency, that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices."10 As part of its evaluation of these factors, the Board considers the financial condition and managerial resources of the notificant and its subsidiaries and the effect of the proposed transaction on those resources.11 San Paolo-IMI's capital ratios satisfy applicable riskbased standards under the Basle Accord and are considered equivalent to the capital levels that would be required of a United States banking organization. The Board also has reviewed the capitalization of San Paolo-IMI and Mabon in accordance with the standards set forth in the Section 20 Orders and finds the capitalization of each to be consistent with approval. This determination is based on all the facts of record, including San Paolo-IMI's projections of the volume of Mabon's bank-ineligible underwriting and dealing activities. The Board also has reviewed the managerial resources of San Paolo-IMI and Mabon in light of relevant reports of examination and all the facts of record. Based on the foregoing, the Board has concluded that financial and managerial considerations are consistent with approval of the notice.

The Board also has carefully considered the competitive effects of the proposal. Prior to its merger with IMI, San Paolo did not engage in the United States in the nonbanking activities conducted by Mabon. Furthermore, the Board notes that the markets for the proposed activities are unconcentrated and there are numerous existing and potential competitors. As a result, consummation of the proposal would have a de minimis effect on competition, and the Board has concluded that the proposal would not result in a significantly adverse effect on competition in any relevant market.

The Board expects that continuation of the proposed activities would provide added convenience to the ex-

<sup>6.</sup> See J.P. Morgan & Co., Incorporated, et al., 75 Federal Reserve Bulletin 192 (1989), aff'd sub nom. Securities Industry Ass'n v. Board of Governors of the Federal Reserve System, 900 F.2d 360 (D.C. Cir. 1990); Citicorp, et al., 73 Federal Reserve Bulletin 473 (1987), aff'd sub nom. Securities Industry Ass'n v. Board of Governors of the Federal Reserve System, 839 F.2d 47 (2d Cir.), cert. denied, 486 U.S. 1059 (1988); as modified by Review of Restrictions on Director, Officer and Employee Interlocks, Cross-Marketing Activities, and the Purchase and Sale of Financial Assets Between a Section 20 Subsidiary and an Affiliated Bank or Thrift, 61 Federal Register 57,679 (1996); Amendments to Restrictions in the Board's Section 20 Orders, 62 Federal Register 45,295 (1997); and Clarification to the Board's Section 20 Orders, 63 Federal Register 14,803 (1998) (collectively, "Section 20 Orders").

<sup>7.</sup> Compliance with the revenue limitation shall be calculated in accordance with the methods stated in the Section 20 Orders, as modified by the Order Approving Modifications to the Section 20 Orders, 75 Federal Reserve Bulletin 751 (1989); 10 Percent Revenue Limit on Bank-Ineligible Activities of Subsidiaries of Bank Holding Companies Engaged in Underwriting and Dealing in Securities, 61 Federal Register 48,953 (1996); and Revenue Limit on Bank-Ineligible Activities of Subsidiaries of Bank Holding Companies Engaged in Underwriting and Dealing in Securities, 61 Federal Register 68,750 (1996) (collectively, "Modification Orders"). In light of the fact that Mabon was a going concern on the date of the merger of San Paolo and IMI, the Board believes that allowing Mabon to calculate compliance with the revenue limitation on an annualized basis during the first year after the date that the merger of San Paolo and IMI was consummated and thereafter on a rolling quarterly basis is consistent with the Section 20 Orders. See, e.g., Dresdner Bank AG, 82 Federal Reserve Bulletin 850 (1996); Dauphin Deposit Corporation, 77 Federal Reserve Bulletin 672 (1991).

<sup>8. 12</sup> C.F.R. 225.200. Mabon may provide services that are necessary incidents to the proposed underwriting and dealing activities. Unless Mabon receives specific approval under section 4(c)(8) of the BHC Act to conduct the activities independently, any revenues from the incidental activities must be treated as ineligible revenues subject to the Board's revenue limitation.

<sup>9.</sup> See 12 C.F.R. 225.28(b)(1), (2), (6), (7), and (8).

<sup>10. 12</sup> U.S.C. § 1843(c)(8).

<sup>11.</sup> See 12 C.F.R. 225.26(b); see also The Fuji Bank, Limited, 75 Federal Reserve Bulletin 94 (1989); Bayerische Vereinsbank AG, 73 Federal Reserve Bulletin 155 (1987).

panded customer base of San Paolo-IMI. San Paolo-IMI also has indicated that it intends to expand the product and service offerings of Mabon, thereby increasing competition in the relevant product markets. The Board also has recognized the public benefits of permitting capital markets to operate so that banking organizations may make potentially profitable investments in nonbanking companies and allocate their resources in the manner they believe is most efficient when such investments are consistent, as in this case, with the relevant consideration under the BHC Act. 12

Under the framework and conditions established in this order and the Section 20 Orders, and based on all the facts of record, the Board concludes that the performance of the proposed activities by San Paolo-IMI can reasonably be expected to produce public benefits that outweigh any adverse effects of the proposal. Accordingly, the Board has determined that the performance of the proposed activities by San Paolo-IMI is a proper incident to banking for purposes of section 4(c)(8) of the BHC Act.

#### Conclusion

On the basis of the foregoing and all other facts of record, the Board has determined that the notice should be, and hereby is, approved, subject to all the terms and conditions discussed in this order and in the Section 20 Orders, as modified by the Modification Orders. The Board's approval of the proposed underwriting and dealing activities extends only to activities conducted within the limitations of those orders and this order, including the Board's reservation of authority to establish additional limitations to ensure that Mabon's activities are consistent with safety and soundness, avoidance of conflict of interests, and other relevant considerations under the BHC Act. Underwriting and dealing in any manner other than as approved in this order and the Section 20 Orders (as modified by the Modification Orders), is not within the scope of the Board's approval and is not authorized for Mabon.

The Board's approval of the proposal to underwrite and deal in all types of bank-ineligible securities is conditioned on a determination by the Board that San Paolo-IMI and Mabon have established policies and procedures to ensure

The Board's determination also is subject to all terms and conditions set forth in Regulation Y, including those in sections 225.7 and 225.25(c) (12 C.F.R. 225.7 and 225.25(c)), and to the Board's authority to require modification or termination of the activities of a bank holding company or any of its subsidiaries as the Board finds necessary to ensure compliance with, and prevent evasion of, the BHC Act and the Board's regulations and orders issued thereunder. The Board's decision is specifically conditioned on compliance with all the commitments made in connection with the notice, including the commitments discussed in this order and the conditions set forth in this order and the Board's regulations and orders noted above. The commitments and conditions are deemed to be conditions imposed in writing by the Board in connection with its findings and decision and, as such, may be enforced in proceedings under applicable law.

The proposal shall not be consummated later than three months after the effective date of this order, unless such period is extended for good cause by the Board or by the Federal Reserve Bank of New York, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 1, 1999.

Voting for this action: Chairman Greenspan, Vice Chair Rivlin, and Governors Kelley, Meyer, Ferguson, and Gramlich.

ROBERT DEV. FRIERSON

Associate Secretary of the Board

12. See Banc One Corporation, 84 Federal Reserve Bulletin 553 (1998).

INDEX OF ORDERS ISSUED OR ACTIONS TAKEN BY THE BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM (OCTOBER 1, 1998-DECEMBER 31, 1998)

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CAB Holding, LLC,	The Chinese American Bank,	November 30, 1998	85, 51
Wilmington, Delaware	New York, New York		

compliance with the Operating Standards and the other requirements of this order, the Section 20 Orders, and the Modification Orders, including computer, audit, and accounting systems, internal risk management controls, and the necessary operation and managerial infrastructure for underwriting and dealing in all types of debt and equity securities. San Paolo-IMI proposes to expand the existing bank-ineligible securities activities of Mabon, and has requested a delay in conducting the infrastructure review to allow San Paolo-IMI to develop enhanced policies and procedures for the proposed expanded bank-ineligible securities activities of Mabon. As part of the request, San Paolo-IMI has committed not to expand the scope of Mabon's current bank-ineligible securities activities until the Board determines that a satisfactory infrastructure is in place.

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Cleveland, Ohio	Albany, New York ALBANK, F.S.B.,		
Chinatrust Commercial Bank, Ltd., Taipei, Taiwan	Albany, New York To establish a state-licensed branch in New York, New York	October 5, 1998	84, 1121
City Holding Company Charleston, West Virginia	Horizon Bancorp, Inc., Beckley, West Virginia Bank of Raleigh, Beckley, West Virginia First National Bank in Marlinton, Marlinton, West Virginia Greenbrier Valley National Bank, Lewisburg, West Virginia National Bank of Summers, Hinton, West Virginia The Twentieth Street, Huntington, West Virginia	November 30, 1998	85, 53
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Credit Suisse, Zurich, Switzerland	To establish representative offices in Miami, Florida; New York, New York; and Houston, Texas	November 23, 1998	85, 68
Erste Bank dersterreichischen Sparkassen Aktiengesellschaft, Vienna, Austria	To establish a federally-licensed branch in New York, New York	October 14, 1998	84, 1123
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Popular, Inc., Hato Rey, Puerto Rico Banco Popular de Puerto Rico, Hato Rey, Puerto Rico Popular Transition Bank, Hato Rey, Puerto Rico	Banco Popular, New York, New York, New York	November 16, 1998	85, 59
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U.S. Bancorp, Minneapolis, Minnesota	Northwest Bancshares, Inc., Vancouver. Washington Northwest National Bank, Vancouver, Washington	October 26, 1998	84, 1073
Valley View Bancshares, Inc., Overland Park, Kansas	Paola-Citizens Bancshares, Inc., Paola, Kansas Citizens State Bank, Paola, Kansas	November 30, 1998	85, 64

## APPLICATIONS APPROVED UNDER BANK HOLDING COMPANY ACT By the Secretary of the Board

Recent applications have been approved by the Secretary of the Board as listed below. Copies are available upon request to the Freedom of Information Office, Office of the Secretary, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

#### Section 4

Applicant(s)	Bank(s)	Effective Date
Bank One Corporation, Chicago, Illinois	Themis Capital Corporation, Dallas, Texas	February 11, 1999
Popular, Inc.,	Valley Check Cashers, Inc.,	February 9, 1999
Hato Rey, Puerto Rico Popular International Bank, Inc., Hato Rey, Puerto Rico	San Fernando, California	
Popular North America,		
Mount Laurel, New Jersey		
Popular Cash Express, Orlando, Florida		

## By Federal Reserve Banks

Recent applications have been approved by the Federal Reserve Banks as listed below. Copies are available upon request to the Reserve Banks.

#### Section 3

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Atlantic BancGroup, Inc., Jacksonville Beach, Florida	Oceanside Bank, Jacksonville Beach, Florida	Atlanta	January 29, 1999
Avondale Financial Corp., Chicago, Illinois	Coal City Corporation, Chicago, Illinois Manufacturers Corporation, Chicago, Illinois Manufacturers Bank, Chicago, Illinois	Chicago	February 8, 1999
Cameron Bancshares, Inc., Cameron, Texas Cameron Bancshares of Delaware,	First National Bank in Cameron, Cameron, Texas	Dallas	February 24, 1999
Wilmington, Delaware			
Capital Bancorp, Inc., Delhi, Louisiana	Commercial Capital Bank, Delhi, Louisiana	Dallas	February 3, 1999
Central Bancshares, Inc., Houston, Texas Central Bank, Houston, Texas	Caldwell Bancshares, Incorporated, Caldwell, Texas	Dallas	February 10, 1999
Chelsea Bancshares, Inc., Chelsea, Oklahoma	Bank of Chelsea, Chelsea, Oklahoma	Kansas City	February 16, 1999
Coast Community Bancshares, Inc., Biloxi, Mississippi	Coast Community Bank, Biloxi, Mississippi	Atlanta	February 25, 1999

## Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Community Bancshares of Mississippi, Forest, Mississippi	Coast Community Bancshares, Inc., Biloxi, Mississippi Coast Community Bank, Biloxi, Mississippi	Atlanta	February 25, 1999
Farmers State Bancshares, Inc., Bangor, Wisconsin	Farmers State Bank, Bangor, Wisconsin	Minneapolis	February 18, 1999
First DuPage Bancorp, Inc., Westmont, Illinois	First DuPage Bank, Westmont, Illinois	Chicago	February 2, 1999
First Merchants Corporation, Muncie, Indiana	Jay Financial Corporation, Portland, Indiana The First National Bank of Portland, Portland, Indiana	Chicago	February 2, 1999
First Personal Financial Corp., Orland Park, Illinois	First Personal Bank, Orland Park, Illinois	Chicago	February 24, 1999
Fountain View Bancorp, Inc., Sigourney, Iowa	Keokuk County Bankshares, Inc., Sigourney, Iowa	Chicago	February 4, 1999
Fox River Valley Bancorp. Inc., Appleton, Wisconsin	First Business Bank of the Fox River Valley, Appleton, Wisconsin First Business Bancshares, Inc., Madison, Wisconsin	Chicago	February 3, 1999
Grand Bancorp, Inc., Kingston, New Jersey	Grand Bank, N.A., Kingston, New Jersey	New York	February 3, 1999
Greenville Community Financial Corporation, Greenville, Michigan	Greenville Community Bank, Greenville, Michigan	Chicago	January 28, 1999
Intervest Bancshares Corporation, New York, New York	Intervest National Bank, New York, New York	Atlanta	February 2, 1999
J.R. Montgomery Bancorporation, Lawton, Oklahoma	The Fort Sill National Bank, Fort Sill, Oklahoma	Kansas City	February 10, 1999
LNCB Corporation, Labanon, Ohio	The Lebanon Citizens National Bank, Lebanon, Ohio	Cleveland	February 11, 1999
MemphisFirst Corporation, Memphis, Tennessee	MemphisFirst Community Bank, Memphis, Tennessee	St. Louis	February 25, 1999
Nationwide Bankshares, Inc., West Point, Nebraska	FNB Insurance Agency, Inc., Walthill, Nebraska	Kansas City	February 11, 1999
Pacific Continental Corporation, Eugene, Oregon	Pacific Continental Bank, Eugene, Oregon	San Francisco	February 22, 1999
Regions Financial Corporation, Birmingham, Alabama	Arkansas Banking Company, Jonesboro, Arkansas The Arkansas Bank, Jonesboro, Arkansas The Arkansas Bank, Walnut Ridge, Arkansas The Planters Bank, Osceola, Arkansas The Arkansas Bank, N.A., Batesville, Arkansas	Atlanta	February 25, 1999
Standard Bancshares, Inc., Evergreen Park, Illinois	Norton Capital Corporation, Morris, Illinois Exchange Bank, Gardner, Illinois	Chicago	February 2, 1999

## Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
State National Bancshares, Inc., Lubbock, Texas	Valley Bancorp, Inc., El Paso, Texas Montwood National Bank, El Paso, Texas	Dallas	February 9, 1999
Waukesha Bancshares, Inc., Wauwatosa, Wisconsin	Sunset Bank & Savings, Waukesha, Wisconsin	Chicago	February 17, 1999
Section 4			
Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date
The Bank of New York Company, Inc., New York, New York BNY Capital Markets, Inc., New York, New York	Everen Securities, Inc., Chicago, Illinois Everen Capital Corporation, Chicago, Illinois	New York	February 5, 1999
Community Trust Financial Services Corp., Hiram, Georgia Community Loan Company, Hiram, Georgia	First Family Financial Services of Georgia, Inc., Atlanta, Georgia	Atlanta	February 17, 1999
Fortis (B), Brussels, Belgium Fortis (NL) N.V., Utrecht, The Netherlands	Fortis SA NV, Brussels, Belgium Generale de Banque, Brussels, Belgium Generale (USA) Finance LLC, New York, New York	New York	February 22, 1999
Great Southern Bancorp, Inc., Springfield, Missouri	Gauranty Federal Bancshares, Inc., Springfield, Missouri Guaranty Federal Savings Bank, Springfield, Missouri	St. Louis	February 18, 1999
Merit Holding Corporation, Tucker, Georgia	Source Capital Group I, Inc., Atlanta, Georgia	Atlanta	January 29, 1999
National Westminster Bank, Plc. London, England	To engage <i>de novo</i> in certain data processing and related activities	New York	February 12, 1999
State Street Corporation, Boston, Massachusetts	FutureSource/Bridge LLC, Boston, Massachusetts	Boston	February 25, 1999
Wrightsville Bancshares, Inc., Wrightsville, Georgia	WBS Financial Services, Inc., Wrightsville, Georgia	Atlanta	February 12, 1999
Sections 3 and 4			
Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date
Bay View Capital Corporation, San Mateo, California Bay View Bank, San Mateo, California Bay View Bank, N.A., San Mateo, California	Regent Financial Corporation, San Mateo, California Bay Commercial Finance Group, San Mateo, California	San Francisco	February 2, 1999

#### Sections 3 and 4—Continued

Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date
M&T Bank Corporation. Buffalo, new York	FNB Rochester Corp., Rochester, New York	New York	February 22, 1999
Olympia Financial Corporation, Buffalo, New York	First National Bank of Rochester, Rochester, New York		
Troy Financial Corporation, Troy, New York	The Troy Savings Bank, Troy, new York The Family Investment Services Co., Troy, New York	New York	February 16, 1999
	T.S. Real Property, Inc., Troy, New York		

## APPLICATIONS APPROVED UNDER BANK MERGER ACT By Federal Reserve Banks

Recent applications have been approved by the Federal Reserve Banks as listed below. Copies are available upon request to the Reserve Banks.

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Baylake Bank,	Baylake Bank, N.A.,	Chicago	February 5, 1999
Sturgeon Bay, Wisconsin F&M Bank-Northern Virginia, Fairfax, Virginia	Poy Sippi, Wisconsin Security Bank Corporation, Manassas, Virginia	Richmond	February 17, 1999
First Liberty Bank & Trust, Jermyn, Pennsylvania	NBO National Bank, Olyphant, Pennsylvania	Philadelphia	February 12, 1999
First Virginia Bank-Southwest, Roanoke, Virginia	First Virginia Bank-Clinch Valley, Tazewell, Virginia	Richmond	February 11, 1999
	First Virginia Bank-Piedmont, Lynchburg, Virginia		
	First Virginia Bank-Franklin county, Rocky Mount, Virginia		
Manufacturers and Traders Trust Company, Buffalo, New York	First National Bank of Rochester, Rochester, New York	New York	February 22, 1999

#### PENDING CASES INVOLVING THE BOARD OF GOVERNORS

This list of pending cases does not include suits against the Federal Reserve Banks in which the Board of Governors is not named a party.

Folstad v. Board of Governors, No. 1:99 CV 124 (W.D. Mich., filed February 17, 1999). Freedom of Information Act complaint.

Nelson v. Greenspan, No. 1:99CV00215 (EGS) (D.D.C., filed January 28, 1999). Employment discrimination complaint.

Fraternal Order of Police v. Board of Governors, No. 1:98CV03116 (D.D.C., filed December 22, 1998). Declaratory judgment action challenging Board labor practices.

Inner City Press/Community on the Move v. Board of Governors, No.98-9604 (2d Cir., filed December 3, 1998). Appeal

of district court order dated October 6, 1998, granting summary judgment for the Board in a Freedom of Information Act case.

Attorneys Against American Apartheid v. Board of Governors, No. 98-1483 (D.C. Cir., filed October 21, 1998). Petition for review of denial of reconsideration of a Board order dated August 17, 1998, approving the merger of NationsBank Corporation, Charlotte, North Carolina, and BankAmerica. Corporation, San Francisco, California. On December 7, 1998, the Board filed a motion to dismiss the petition. The court of appeals granted the motion on January 19, 1999.

Independent Bankers Association of America v. Board of Governors, No. 98–1482 (D.C. Cir., filed October 21, 1998). Petition for review of a Board order dated September 23,

1998, conditionally approving the applications of Travelers Group, Inc., New York, New York, to become a bank holding company by acquiring Citicorp, New York. New York, and its bank and nonbank subsidiaries.

Jones v. Board of Governors, No. 98-30138 (5th Cir., filed February 9, 1998). Appeal of district court dismissal of complaint alleging violations of the Fair Housing Act. On November 19, 1998, the court dismissed the appeal.

Cunningham v. Board of Governors, No. 98-1459 (D.C. Cir., filed September 30, 1998). Petition for review of a Board order dated September 23, 1998, conditionally approving the applications of Travelers Group, Inc., New York, New York, to become a bank holding company by acquiring Citicorp, New York, New York, and its bank and nonbank subsidiaries. On December 4, 1998, the Court granted the Board's motion to dismiss the petition.

Clarkson v. Greenspan, No.98-5349 (D.C. Cir., filed July 29, 1998). Appeal of district court order granting Board's motion for summary judgment in a Freedom of Information Act case. On September 14, 1998, the Board filed a motion for summary affirmance of the district court dismissal.

Board of Governors v. Carrasco, No. 98 Civ. 3474 (LAK) (S.D.N.Y., filed May 15, 1998). Action to freeze assets of individual pending administrative adjudication of civil money penalty assessment by the Board. On May 26, 1998, the court issued a preliminary injunction restraining the transfer or disposition of the individual's assets and appointing the Federal Reserve Bank of New York as receiver for those assets.

Board of Governors v. Pharaon, No. 98-6101 (2d Cir., filed May 4, 1998). Appeal and cross-appeal of district court order granting in part and denying in part the Board's motion for summary judgment seeking prejudgment interest and a statutory surcharge in connection with a civil money penalty assessed by the Board. On February 24, 1999, the court granted the Board's appeal and denied the crossappeal, and remanded the matter to the district court for determination of prejudgment interest due to the Board.

Fenili v. Davidson, No. C-98-01568-CW (N.D. California, filed April 17, 1998). Tort and constitutional claim arising out of return of a check. On June 5, 1998, the Board filed its motion to dismiss.

Logan v. Greenspan, No. 1:98CV00049 (D.D.C., filed January 9, 1998). Employment discrimination complaint.

Goldman v. Department of the Treasury, No. 98-9451 (11th Circuit, filed November 10, 1998). Appeal from a District Court order dismissing an action challenging Federal Reserve notes as lawful money.

Kerr v. Department of the Treasury, No. CV-S-97-01877-DWH (D. Nev., filed December 22, 1997). Challenge to income taxation and Federal Reserve notes. On September 3, 1998, a motion to dismiss was filed on behalf of all federal defendants.

Towe v. Board of Governors, No. 97-71143 (9th Cir., filed September 15, 1997). Petition for review of a Board order dated August 18, 1997, prohibiting Edward Towe and Thomas E. Towe from further participation in the banking industry. On February 23, 1999, the court affirmed the Board's order.

Bettersworth v. Board of Governors, No. 97-CA-624 (W.D. Tex., filed August 21, 1997). Privacy Act case.

FINAL ENFORCEMENT DECISION ISSUED BY THE **BOARD OF GOVERNORS** 

In the Matter of Incus Co., Ltd. Tortola, British Virgil Islands And Carlos Hank Rhon An Institution-Affiliated Party of Incus Co., Ltd., and Laredo National Bancshares Laredo, Texas

Docket Nos. 98-038-B-FHC, 98-038-B-I, 98-038-CMP-FHC, 98-038-CMP-I, 98-038-E-I

Determination on Request for Private Hearing

Background

This is an enforcement proceeding brought by the Board of Governors of the Federal Reserve System (the "Board") against Incus Co., Ltd., and Carlos Hank Rhon (the "Respondents") pursuant to the Federal Deposit Insurance Act (the "FDI Act"). Hank Rhon is the registered owner of Incus, an offshore shell bank holding company that controls Laredo National Bancshares ("LNB"). In a Notice of Intent to Prohibit and Notice of Charges and of Hearing (the "Notice") issued December 16, 1998, the Board alleged that Hank Rhon used nominees to secretly acquire additional LNB stock without Board approval, that he transferred significant equity interests in Incus to his father and two business associates in violation of commitments and representations made to the Board, and that he caused Laredo National Bank, LNB's principal subsidiary, to engage in lending and other transactions with affiliates that violated commitments made to the Board. The Notice seeks an order of prohibition against Hank Rhon, a cease and desist order requiring divestiture of Incus's interest in LNB, and significant civil money penalties against both Respondents.

In accordance with section 8(u)(2) of the FDI Act, 12 U.S.C. § 1818(u)(2), the Notice advised the Respondents that any hearing held in this matter would be public, unless the Board determines that an open hearing would be contrary to the public interest. The Notice informed Respondents that they could submit a statement detailing any reasons why the hearing should not be public. On January 11, 1999, Respondents duly filed a motion with the Board seeking a private hearing in this matter. Board Enforcement Counsel opposed the motion.

Respondents make three principal arguments in support of their request for a closed hearing. First, they assert that the safety and soundness of the financial institutions involved could be jeopardized as a result of a public hearing. They note that Hank Rhon is currently the chairman of the

board of LNB and is active in its management, and express concern that the allegations lodged against Hank Rhon "could well affect the public's confidence in the involved institutions." Second, they assert that a public hearing would compromise substantial individual privacy and reputational interests, not only of the Respondents themselves but also of the other individuals whose private dealings with Hank Rhon and Incus would be made part of the public proceedings. Third, they suggest that Mexican and U.S. cross-border investments could be adversely affected by a public hearing. Specifically, they argue that publicizing "private and personal business affairs" could act as a disincentive for foreign investors, with unidentified repercussions in Mexico.

#### Discussion

In 1990, Congress amended the FDI Act to provide that all hearings held on the record in enforcement cases such as this "shall be open to the public, unless the agency, in its discretion, determines that holding an open hearing would be contrary to the public interest." 12 U.S.C. § 1818(u)(2). Simultaneously. Congress required that a transcript of all testimony and documentary evidence be prepared and that the transcripts of all public hearings be made available through the Freedom of Information Act, 12 U.S.C. § 1818(u)(4), provided that the agency may file a document under seal in an administrative proceeding "if disclosure of the document would be contrary to the public interest," 12 U.S.C. § 1818(u)(6), and required agencies to provide Congress with a written report of any determination to close a hearing, 12 U.S.C. § 1818(u)(3).

These amendments, which reversed the prior presumption in favor of closed hearings, reveal a congressional belief that the public benefits of open hearings would generally outweigh the disruptions inherent in them. *In the Matter of Zbinden*, 80 *Federal Reserve Bulletin* 360, 361 (1994). As the Chairman of the Senate Banking Committee observed at the time, publicity is "the greatest disinfectant." 136 Cong. Rec. S17,599 (daily ed. October 27, 1990).

Accordingly, before the Board exercises its discretion to close a hearing, there should be a substantial basis for concluding that the case reflects unusual circumstances that overcome the presumption in favor of open hearings. In general, in light of the congressional requirement that the proceedings be open unless "contrary to the public interest," those circumstances should involve serious safety and soundness concerns flowing from a public hearing. Generalized claims of a possible loss of confidence or a "run on the bank," or claims of impairment of the privacy or reputational interests of respondents and third parties, should not be sufficient to result in a closed hearing. Rather, a party seeking a closed hearing should be required to demonstrate how the effects of this proceeding differ so significantly from those involving other banks in terms of the public interest as to warrant special treatment. See In the Matter of Citizens Bank of Clovis, FDIC-91-406b, 2 FDIC Enf. Dec. (P-H) 8012 (March 2, 1992).

The arguments advanced by Respondents do not meet this standard. Although Respondents speculate that the public's confidence in LNB's subsidiary banks may be adversely affected by an open proceeding, they provide no evidence to support their argument and no basis for the Board to distinguish this case from any other case involving an open institution. The Board has previously rejected such conclusory and speculative arguments as a basis for closing an enforcement hearing. See In the Matter of National Bank of Pakistan, No. 92-065-B-FB (August 20, 1992). Moreover, the Board and other banking agencies have held public enforcement hearings without a serious effect on public confidence in open institutions, including enforcement actions involving the ownership and control of the bank involved. E.g., Interamericas Investments, Ltd., v. Board of Governors of the Federal Reserve System, 111 F.3d 376 (5th Cir. 1997).

Similarly, the privacy interests of the Respondents and third parties do not implicate the "public interest" necessary to justify a closed hearing. As the Board observed in In the Matter of Zbinden, "Enforcement proceedings, by their nature, involve allegations that, if made public, could adversely affect a respondent's reputation or career. Nevertheless, in establishing a statutory presumption in favor of open hearings, Congress implicitly determined that the public benefit from conducting proceedings in the open outweighs the privacy interests of the individuals involved." In the Matter of Zbinden, 80 Federal Reserve Bulletin 361 (1994). As in Zbinden, the Board here "does not believe that the disruptions cited by Respondent[s], which are a normal consequence of such proceedings, are sufficient to overcome the statutory presumption favoring public hearings." Id. at 361-62.1 The same is true for asserted privacy interests of third parties. In the Matter of Interbank Holding Company, et al., No. 96-018-B-HC (August 14, 1996) (rejecting claim that potential harm to third parties justifies closing enforcement hearing).

Respondents have provided no evidentiary support for their final argument, that an open hearing would inhibit Mexican and U.S. cross-border investment. In particular, they offer no reason why Mexicans who are willing to comply with U.S. laws would be reluctant to do so if their dealings were made public. Foreign nationals who invest in regulated industries in the United States are subject to United States laws and are not entitled to special treatment reflecting their differing "business customs and practices." As one federal court put it, the argument that nationality can act as a predicate for different standards for BHC Act liability is "beyond frivolous." *Interamericas Investments, Ltd.*, 111 F.3d at 384.

In short, because Respondents have not shown that an open hearing is contrary to the public interest, the request for a private hearing in this matter must be denied.

Respondents' separate request that all documents related to this proceeding be kept confidential is also denied. As noted above, the FDI Act provides that the Board may file a particular document or part of a document under seal "if disclosure of the document would be contrary to the public interest." 12 U.S.C. § 1818(u)(6). Pursuant to the Board's

Rules of Practice for Hearings, this authority has been delegated to Board Enforcement Counsel, who has the discretion to determine which documents, if any, should be filed under seal. 12 C.F.R. 263.33(b). If Respondents have particular concerns about public disclosure of a specific document or part of a document, they may address these concerns to Board Enforcement Counsel. In the Matter of Zbinden, 80 Federal Reserve Bulletin 362-63 (1994).

By Order of the Board of Governors, this 12th day of February, 1999.

> BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM Jennifer J. Johnson Secretary of the Board

FINAL ENFORCEMENT ORDERS ISSUED BY THE **BOARD OF GOVERNORS** 

Hogi Patrick Hyun Former Employee of BT Singapore

The Federal Reserve Board announced on February 25. 1999, the issuance of a combined Order to Cease and Desist and of Assessment of a Civil Money Penalty against Hogi Patrick Hyun, a former employee of BT Singapore, a wholly owned nonbank subsidiary of Bankers Trust New York Corporation, New York, New York.

Daniel K. Walker Long Beach, California

The Federal Reserve Board announced on February 25, 1999, the issuance of a Consent Order against Daniel K. Walker, senior vice-president, a director, and an institutionaffiliated party of the Farmers and Merchants Bank of Long Beach, Long Beach, California, a state member bank.

Kenneth G. Walker Long Beach, California

The Federal Reserve Board announced on February 25, 1999, the issuance of a Consent Order against Kenneth G. Walker, president, chairman of the board of directors, chief executive officer, and institution-affiliated party of the Farmers and Merchants Bank of Long Beach, Long Beach, California, a state member bank.

Zia New Mexico Bank Tucumcari, New Mexico

The Federal Reserve Board announced on February 11, 1999, the issuance of a Prompt Corrective Action Directive against the Zia New Mexico Bank, Tucumcari, New Mexico.

WRITTEN AGREEMENTS APPROVED BY FEDERAL RESERVE BANKS

First Utah Bancorporation Salt Lake City, Utah

The Federal Reserve Board announced on February 5, 1999, the execution of a Written Agreement by and among First Utah Bancorporation, the First Utah Bank, Premier Data Corporation, all of Salt Lake City, Utah, and the Federal Reserve Bank of San Francisco.

# Financial and Business Statistics

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# Guide to Tabular Presentation

### SYMBOLS AND ABBREVIATIONS

с	Corrected	G-10	Group of Ten
e	Estimated	GNMA	Government National Mortgage Association
n.a.	Not available	GDP	Gross domestic product
p	Preliminary	HUD	Department of Housing and Urban
r	Revised (Notation appears on column heading		Development
	when about half of the figures in that column	IMF	International Monetary Fund
	are changed.)	IO	Interest only
*	Amounts insignificant in terms of the last decimal	<b>IPCs</b>	Individuals, partnerships, and corporations
	place shown in the table (for example, less than	IRA	Individual retirement account
	500,000 when the smallest unit given is millions)	MMDA	Money market deposit account
0	Calculated to be zero	MSA	Metropolitan statistical area
	Cell not applicable	NOW	Negotiable order of withdrawal
ATS	Automatic transfer service	OCD	Other checkable deposit
BIF	Bank insurance fund	OPEC	Organization of Petroleum Exporting Countries
CD	Certificate of deposit	OTS	Office of Thrift Supervision
CMO	Collateralized mortgage obligation	PMI	Private mortgage insurance
CRA	Community Reinvestment Act of 1977	PO	Principal only
FFB	Federal Financing Bank	REIT	Real estate investment trust
FHA	Federal Housing Administration	REMIC	Real estate mortgage investment conduit
FHLBB	Federal Home Loan Bank Board	RP	Repurchase agreement
FHLMC	Federal Home Loan Mortgage Corporation	RTC	Resolution Trust Corporation
FmHA	Farmers Home Administration	SCO	Securitized credit obligation
FNMA	Federal National Mortgage Association	SDR	Special drawing right
FSLIC	Federal Savings and Loan Insurance Corporation	SIC	Standard Industrial Classification
G-7	Group of Seven	VA	Department of Veterans Affairs

### GENERAL INFORMATION

In many of the tables, components do not sum to totals because of rounding.

Minus signs are used to indicate (1) a decrease, (2) a negative

figure, or (3) an outflow.
"U.S. government securities" may include guaranteed issues of U.S. government agencies (the flow of funds figures also

include not fully guaranteed issues) as well as direct obligations of the Treasury.

"State and local government" also includes municipalities, special districts, and other political subdivisions.

### 1.10 RESERVES, MONEY STOCK, LIQUID ASSETS, AND DEBT MEASURES

Percent annual rate of change, seasonally adjusted

	_	199	98 <sup>1</sup>			19	98 <sup>r</sup>		1999
Monctary or credit aggregate	Q1	Q2	Q3	Q4	Sept.	Oct.	Nov.	Dec.	Јап.
Reserves of depository institutions <sup>2</sup> 1 Total. 2 Required 3 Nonborrowed. 4 Monetary base <sup>3</sup>	-1.9	-3.8	-7.4	-1.6	-11.0	-5.4	5.0	9.0	9
	-1.8	-2.5	-9.0	-2.3	-16.1	-2.5	3.8	10.5	.6
	6	-4.3	-8.4	- 4	-10.5	-3.3	7.5	8.1	-3.2
	6.8	-5.3	6.8	8.9	9.8	8.4	8.8	8.3	8.4
Cancepts of money, liquid assets, and debt <sup>4</sup> 5 M1	3.2	1.0	-2.0	5.0	2.8	6.4	9.3	4 6	-3.1
	7.6	7.5	6.9	11.0	12.4	11.6	10.6	10.0	6.1
	10.3	10.1	8.6	13.2	13.1	13.2	14.1	12.2	4.4
	6.2	6.1	6.0	6.4	6.0	6.6	6.9	6.0	n.a.
Nontransaction components 9 In M25	9.1	9.8	9,9	13.0	15.7	13.3	11.0	11.8	9.2
	18.6	17.8	13,5	19.6	15.1	17.5	23.9	18.5	-,4
Time and savings deposits  Commercial banks  11 Savings, including MMDAs. 12 Small time   13 Large time   15 Thrift institutions  14 Savings, including MMDAs. 15 Small time   16 Large time   16 Large time   17 Small time   18 Small time   19 Small time   10 Small time   11 Small time   12 Small time   13 Small time   14 Savings, including MMDAs.	12.8	13.4	15.8	17.6	19 9	15.9	16.4	19.2	11.6
	1.0	.1	.1	.4	.6	4	1.5	-4.2	-8.0
	18.1	16.4	3.5	7.4	.2	1.8	16.1	12.8	21.7
	5.7	10.8	9.0	10.1	8.1	12.5	10.9	10.8	14.5
	5	-4.4	-7.2	-6.9	-4.7	-2.5	-10.9	-6.6	-5.2
	8.6	-4.5	.5	10.4	14.0	15.2	2.7	16.4	26.9
Money market mutuul lunds 17 Retail 18 Institution-only	19.2 20.9	20.9 34.7	19.0 26.6	28.4 41.8	37.0 35.1	29.0 48.5	20.5 42.2	22.3 29.5	23.2 -2.8
Repurchase agreements and Eurodollars  19 Repurchase agreements  20 Eurodollars	22.9	14.5	11.7	16.4	15.9	.4	25.4	34.0	-25.0
	12.0	- 3.3	21.7	7.1	7.0	12.4	1.5	-24.6	-39.2
Debt components <sup>4</sup> 21 Federal	.0	-1.4	-1.5	-2.0	-3.3	-3.1	5	4	n.a.
	8.3	8.6	8.5	9.1	8.9	9.6	9.2	7.9	n.a.

<sup>1.</sup> Unless otherwise noted, rates of change are calculated from average amounts outstanding during preceding month or quarter.

2. Figures incorporate adjustments for discontinuities, or "breaks," associated with

regulatory changes in reserve requirements. (See also table 1.20.)

regulatory changes in reserve requirements. (See also table 1.20.1)

3. The seasonally adjusted, break-adjusted monetary base consists of (1) seasonally adjusted to the seasonally adjusted total reserves (line 1), plus (2) the seasonally adjusted currency component of the money stock, plus (3) (for all quarterly reporters on the "Report of Transaction Accounts, Other Deposits and Vault Cash" and for all weekly reporters whose vault cash exceeds their required reserves) the seasonally adjusted, break-adjusted difference between current vault cash and the amount applied to satisfy current reserve requirements.

4. Composition of the money stock measures and debt is as follows:

M1: (1) currency outside the U.S. Treasury, Federal Reserve Banks, and the vaults of depository institutions, (2) travelers checks of nonbank issuers, (3) demand deposits at all foreign banks and official institutions, less cash items in the process of collection and Federal Reserve float, and (4) other checkable deposits (OCDs), consisting of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institution institutions. withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institutions, credit union share draft accounts, and demand deposits at thrift institutions. Seasonally adjusted M1 is computed by summing currency, travelers checks, demand deposits, and

adjusted M1 is computed by summing currency, travelers checks, demand deposits, and OCDs, each seasonally adjusted separately.

M2: M1 plus (1) savings (including MMDAs), (2) small-denomination time deposits (time deposits—including retail RPs—in amounts of less than \$100,000), and (3) balances in treat money market mutual funds. Excludes individual returement accounts (IRAs) and Keogh balances at depository institutions and money market funds. Seasonally adjusted M2 is calculated by summing savings deposits, small-denomination time deposits, and retail more fund balances, each seasonally adjusted separately, and adding this result to seasonally adjusted.

adjusted M M3: M2 plus (1) large-denomination time deposits (in amounts of \$100,000 or more). (2) balances in institutional money funds. (3) RP liabilities (overnight and term) issued by all

depository institutions, and (4) Eurodollars (overnight and term) held by U.S. residents at foreign branches of U.S. banks worldwide and at all banking offices in the United Kingdom and Canada Excludes amounts held by depository institutions, the U.S. government, money and Canada Extendes another into type operatory institutions. Seasonally adjusted M3 is calculated by summing large time deposits, institutional money fund balances, RP liabilities, and Eurodollars, each seasonally adjusted separately, and adding this result to seasonally adjusted M2.

adjusted M2.

Debt: The debt aggregate is the outstanding credit market debt of the domestic nonfinancial sectors—the federal sector (U.S. government, not including government-sponsored enterprises or federally related mortgage pools) and the nonfederal sectors (state and local governments, households and nonprofit organizations, nonfinancial corporate and nonform noncorporate businesses, and farms). Nonfederal debt consists of mortgages, tax-exempt and corporate bonds, consumer credit, bank loans, commercial paper, and other loans. The data, which are derived from the Federal Reserve Board's flow of funds accounts, are break-adjusted (that is, discontinuities in the data have been smoothed into the series) and south a served future to be deta have been smoothed into the series) and adjusted (mar is, obscommontes) in the data have been shooned into the series; and month-averaged (mat is, the data have been derived by averaging adjacent month-end levels).

5. Sum of (1) savings deposits (including MMDAs), (2) small time deposits, and (3) retail money fund balances, each seasonally adjusted separately.

6. Sum of (1) large time deposits, (2) institutional money fund balances. (3) RP liabilities

(overnight and term) issued by depository institutions, and (4) Eurodollars (overnight and term) issued by depository institutions, and (4) Eurodollars (overnight and term) of U.S. addressees, each seasonally adjusted separately.

7. Small time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All IRA and Keogh account balances at commercial banks and thrift institutions are subtracted from small time deposits.

8. Large time deposits are those issued in amounts of \$100,000 or more, excluding those booked at international banking facilities.

booked at international banking facilities

booked at international panking reasons.

9. Large time deposits at commercial banks less those held by money market funds, depository institutions, the U.S. government, and foreign banks and official institutions. 10. Includes both overnight and term

### 1.11 RESERVES OF DEPOSITORY INSTITUTIONS AND RESERVE BANK CREDIT 1

Millions of dollars

		Average of daily figures			Average	of daily figure	es for week e	nding on date	indicated	
Factor	19	98	1999		1998			19	99	
	Nov.	Dec.	Jan.	Dec. 16	Dec. 23	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27
SUPPLYING RESERVE FUNDS										
1 Reserve Bank credit outstanding	495,325	504,025 <sup>r</sup>	504,486	503,105	504,231 <sup>r</sup>	510,958 <sup>1</sup>	515,752	500,410	505,981	500,962
U.S. government securities <sup>2</sup> Bought outright—System account <sup>3</sup>	451,629 3,391	453,911 7,685	453,333 7,056	454,019 6,909	453,111 8,098	454,191 11,000	452,321 14,991	454,690 3.820	452,818 6,291	452,725 6,281
4 Bought outright 5 Held under repurchase agreements 6 Acceptances	373 3,864 0	346 5,371 0	337 4,670 0	338 6,380 0	338 5,767 0	338 5,570 0	338 8,174 0	3.38 3,256 0	338 6,046 0	337 3,226
Loans to depository institutions Adjustment credit	48 35	90 15	201	25 13	8 16	345 20	24 12	697 6	22	105
9 Extended credit	0 544 35.440	0 1,617 <sup>r</sup> 34,989 <sup>r</sup>	2,313 36,570	575 34,846	0 1,747 <sup>r</sup> 35,147	3,390 <sup>r</sup> 36,103	2.783 37,109	1,624 35,979	4,187 36,275	1,381 36,903
Gold stock     Special drawing rights certificate account     Treasury currency outstanding	11,041 9,200 26,138 <sup>r</sup>	11,041 9,200 26,225 <sup>r</sup>	11,046 9,200 26,296	11,041 9,200 26,217 <sup>r</sup>	11,041 9,200 26,235	11,043 9,200 26,252 <sup>r</sup>	11,046 9,200 26,270	11,046 9,200 26,284	11,046 9,200 26,298	11,046 9,200 26.312
ABSORBING RESERVE FUNDS										
5 Currency in circulation 16 Treasury cash holdings Deposits, other than reserve balances, with	502,704 <sup>r</sup> 92	510,724 <sup>r</sup> 89	510,104 87	507.775 <sup>r</sup> 87	511,453 <sup>r</sup> 84	516.782 <sup>r</sup> 85	516,894 85	511,465 85	508,957 86	506.725 88
Federal Reserve Banks 7 Treasury	5,135	5.923	6.597	6.324	5,434	7,195	5,992	5,423	7,296	6,963
8 Foreign	188 6,867	178 6,850	186 7,618	195 6,703	194 6,977	174 6,852	169 7.044	189 7,892	181 7,468	7,86
0 Other	403 17,476	322 16,935	443 16,711	290 17,113	231 17,197	235 17,152	1,400 16,397	207 16,874	212 16.871	23 16,84
2 Reserve balances with Federal Reserve Banks <sup>4</sup>	8,839 <sup>r</sup>	9,470 <sup>r</sup>	9,281	11,077 <sup>r</sup>	9,136 <sup>r</sup>	8,978 <sup>r</sup>	14.287	4,803	11,452	8,610
	Enc	l-of-month fig	ures			w	ednesday figu	res		-
	Nov.	Dec	Jan.	Dec. 16	Dec. 23	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27
SUPPLYING RESERVE FUNDS						_				
1 Reserve Bank credit outstanding	504,546	522,252 <sup>r</sup>	498,740	503.843	508.064 <sup>r</sup>	517,601	504,136	503,126	505,507	506,92
2 Bought outright—System account <sup>3</sup> Held under repurchase agreements Federal agency obligations	453,991 8,970	452,141 19,674	454,439 4,485	455,035 5,702	454,657 7,845	454,772 15,549	455,645 4,507	456,411 3,700	453,868 6,140	454,533 9,89
4 Bought outright 5 Held under repurchase agreements 6 Acceptances Loans to depository institutions	368 6,172 0	338 10,702 0	336 2,535 0	338 7,181 0	338 5.742 0	338 7,388 0	338 3,353 0	338 4,472 0	338 3,958 0	4,02
7 Adjustment credit	1 15	1 16	55 5	145 14	21 21	1.642 27	103	145	75 3	
9 Extended credit	0 462 34,567	1,636 <sup>r</sup> 37,744 <sup>r</sup>	0 164 36.721	0 729 34,699	4.187 <sup>r</sup> 35.254	873 <sup>r</sup> 37,013	0 4,320 35,864	0 1,938 36,115	4,690 36,435	43: 37.68
2 Gold stock 3 Special drawing rights certificate account	11.041 9,200 26,182 <sup>r</sup>	11,046 9,200 26,270 <sup>r</sup>	11,048 9,200 26,326	11.041 9,200 26,217 <sup>r</sup>	11,041 9,200 26,235 <sup>r</sup>	11,046 9,200 26,252 <sup>r</sup>	11,046 9,200 26,270	11.046 9.200 26,284	11.046 9,200 26,298	11,046 9,200 26,313
ABSORBING RESERVE FUNDS									ļ	
5 Currency in circulation 6 Treasury cash holdings Deposits, other than reserve balances, with Federal Reserve Banks	507,130 <sup>1</sup> 99	517,484 <sup>r</sup> 85	505,457 98	509,911 <sup>r</sup> 84	515,739 <sup>1</sup> 85	518,332 <sup>r</sup> 85	515,176 85	510,269 86	508,616 86	506,824 91
7 Treasury	5,219 211	6,086 167	7,623 234	8,628 170	3,837 175	10,174 166	4,960 170	5,006 214	7. <b>466</b> 177	7,03 16
9 Service-related balances and adjustments	7,211	7,044 <sup>r</sup> 1,605	7,830 246	6,703 263	6,977 175	6,852 164	7,045 162	7,892 200	7,468 206	7.86
21 Other Federal Reserve liabilities and capital 22 Reserve balances with Federal Reserve Banks <sup>4</sup>	16,579 14,182	16,354 19,941	16,269 7,556	16,965 7,578'	16,969 10,583 <sup>r</sup>	16,957 11,371 <sup>7</sup>	16,466 6,588	16,613 9,376	16,626 11,405	16,61

<sup>1.</sup> Amounts of cash held as reserves are shown in table 1.12, line 2.
2. Includes securities loaned—fully guaranteed by U.S. government securities pledged with Federal Reserve Banks—and excludes securities sold and scheduled to be bought back under matched sale—purchase transactions.

Includes compensation that adjusts for the effects of inflation on the principal of inflation-indexed securities.
 Excludes required clearing balances and adjustments to compensate for float.

#### Domestic Financial Statistics ☐ April 1999 A6

### RESERVES AND BORROWINGS Depository Institutions<sup>1</sup>

Millions of dollars

	Prorated monthly averages of biweekly averages								-	
Reserve classification	1996	1996 1997 1998 1998							1999	
	Dec.	Dec.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 Reserve balances with Reserve Banks <sup>2</sup> . 2 Total vault cash <sup>3</sup> . 3 Applied vault cash <sup>4</sup> . 4 Surplus vault cash <sup>5</sup> . 5 Total reserves <sup>6</sup> . 6 Required reserves. 7 Excess reserve balances at Reserve Banks <sup>7</sup> . 8 Total borrowings at Reserve Banks <sup>8</sup> . 9 Seasonal borrowings.	13,395 44,525 37,848 6,678 51,242 49,819 1,423 155 68 0	10,673 44,740 <sup>r</sup> 37,206 7,534 <sup>r</sup> 47,880 46,196 1,683 324 79 0	9,022 <sup>r</sup> 44,305 35,997 8,308 45,019 <sup>r</sup> 43,435 <sup>r</sup> 1,584 <sup>r</sup> 117 15 0	9,646 42,030 <sup>r</sup> 34,954 7,075 <sup>r</sup> 44,600 43,235 1,365 258 215	9,682 42,123 <sup>r</sup> 35,025 7,098 <sup>r</sup> 44,707 43,194 1,513 271 242 0	9,284 42,524 <sup>r</sup> 34,909 7,614 <sup>r</sup> 44,193 42,509 1,684 251 178	9,026 43,268 <sup>r</sup> 35,090 8,178 <sup>r</sup> 44,115 42,544 1,572 174 107 0	8,855 43,104' 35,297 7,807' 44,152 42,527 1,624 84 37 0	9,022 <sup>r</sup> 44,305 35,997 8,308 45,019 <sup>r</sup> 43,435 <sup>r</sup> 1,584 <sup>r</sup> 117 15 0	9,659 45,499 36,674 8,825 46,333 44,801 1,532 206 7 0
		В	weekly avera	ages of daily	figures for tw	o week perio	ds ending on	dates indicate	ed	
	_			1998					1999	
	Oct. 7	Oct. 21	Nov. 4	Nov. 18	Dec. 2	Dec. 16	Dec. 30 <sup>r</sup>	Jan. 13 <sup>r</sup>	Jan. 27	Feb. 10
1 Reserve balances with Reserve Banks <sup>2</sup> . 2 Total vault cash <sup>3</sup> . 3 Applied vault cash <sup>4</sup> . 5 Surplus vault cash <sup>5</sup> . 5 Total reserves <sup>6</sup> . 6 Required reserves. 7 Excess reserve balances at Reserve Banks <sup>7</sup> . 8 Total borrowings at Reserve Banks <sup>8</sup> . 9 Seasonal borrowings. 10 Extended credit <sup>3</sup> .	9,588 42,821 <sup>r</sup> 34,905 7,916 <sup>r</sup> 44,493 42,514 1,978 379 152 0	8,400 43,995 <sup>r</sup> 35,321 8,674 <sup>r</sup> 43,720 42,520 1,200 122 105 0	9,509 42,565' 34,897 7,668' 44,405 42,599 1,806 103 79	8,520 43,080 34,935 8,145 43,455 41,913 1,542 82 40 0	9,028 43,313 35,853 7,460 44,880 43,221 1,659 79 20 0	8,949 43,230 35,273 7,957 44,222 42,917 1,304 26 13 0	9.057 45,470 36,748 8.722 45,805 43,999 1,806 195 18	9.551 45.023 35,911 9,113 45,462 43,240 2,221 370 9	10,025 44,838 36,845 7,993 46,870 45,880 990 68 5	8,728 49,364 38,556 10,808 47,284 46,099 1,184 158 8

<sup>1.</sup> Data in this table also appear in the Board's H.3 (502) weekly statistical release. For

Data in this table also appear in the Board's H.3 (502) weekly statistical release. For ordering address, see inside front cover. Data are not break-adjusted or seasonally adjusted.
 Excludes required clearing balances and adjustments to compensate for float and includes other off-olalnce-sheet "as-of" adjustments.
 Vault cash eligible to satisfy reserve requirements. It includes only vault cash held by those banks and thrifts that are not exempt from reserve requirements. Dates refer to the maintenance periods in which the vault cash can be used to satisfy reserve requirements.
 All vault cash held during the lagged computation period by "bound" institutions (that is, those whose required reserves exceed their vault cash) plus the amount of vault cash applied during the maintenance period by "nonbound" institutions (that is, those whose vault cash exceeds their required reserves) to satisfy current reserve requirements.

<sup>5.</sup> Total vault cash (line 2) less applied vault cash (line 3).
6. Reserve balances with Federal Reserve Banks (line 1) plus applied vault cash (line 3).

<sup>(</sup>line 3).

7. Total reserves (line 5) less required reserves (line 6).

8. Also includes adjustment credit.

9. Consists of borrowing at the discount window under the terms and conditions established for the extended credit program to help depository institutions deal with sustained liquidity pressures. Because there is not the same need to repay such borrowing promptly as with traditional short-term adjustment credit, the money market effect of extended credit is similar to that of nonborrowed reserves.

### 1.14 FEDERAL RESERVE BANK INTEREST RATES

Percent per year

_				
Current	and	previous	level	S

Fadami Danama	Adjustment credit <sup>1</sup>				Seasonal credit <sup>2</sup>		Extended credit <sup>3</sup>			
Federal Reserve Bank	On 3/12/99	Effective date	Previous rate	On 3/12/99	Effective date	Previous rate	On 3/12/99	Effective date	Previous rate	
Boston	4.50	11/18/98 11/17/98 11/17/98 11/19/98 11/18/98 11/18/98	4.75	4.90	3/11/99	4.85	5.40	3/11/99	5.35	
Chicago	<b>y</b> 4.50	11/19/98 11/19/98 11/19/98 11/18/98 11/17/98	<b>4.</b> 75	4.90	3/11/99	4.85	5.40	3/11/99	5.35	

Range of rates for adjustment credit in recent years4

Effective date	Range (or level)—All F.R. Banks	F.R. Bank of N Y	Effective date	Range (or level)—All F.R Banks	F.R. Bank of N Y.	Effective date	Range (or level)—All F.R. Banks	F.R. Bank of N.Y.
In effect Dec. 31, 1977	6	6	1981—Nov. 2	13–14	13	1988—Aug. 9	6-6.5	6.5
1070 1 0			6	13	13	11	6.5	6.5
1978—Jan. 9	6–6.5 6.5	6.5 6.5	Dec 4	12	12	1989—Feb 24	6.5-7	7
May 11	6.5-7	7	1982—July 20	11.5-12	11.5	27	7	ĺ
12	7	7	23	11.5	11.5		•	
July 3	7-7.25	7.25	Aug. 2	11-11.5	11	1990—Dec. 19	6.5	6.5
10	7.25	7.25	3	11	11			
Aug. 21	7.75	7.75	16	10.5	10.5	1991—Feb. 1	6-6.5	6
Sept. 22	8 8–8.5	8 8.5	27	10-10.5 10	10	4	6 5.5–6	5.5
20	8.5	8.5	Oct. 12	9.5–10	9.5	May 2	5.5	5.5
Nov. 1	8.5-9.5	9.5	13	9.5	9.5	Sept. 13	5-5.5	5
3	9.5	9.5	Nov 22	9_9.5	9	17	5	5
			26	9	9	Nov. 6	4.5-5	4.5
1979—July 20	10	10	Dec. 14	8.5-9	9	7	4.5	4.5
Aug. 17	10-10.5	10.5	15	8.5-9	8.5	Dec. 20	3.5-4.5	3.5
20	10.5 10.5-11	10.5	17	8.5	8.5	24	3.5	3.5
Sept. 19	10.5-11		1984—Apr 9	8.5-9	9	1992—July 2	3-3.5	3
Oct. 8	11-12	12	13	9	9	7	3	3
10	12	12	Nov. 21	8.5-9	8.5	,		
			26	8.5	8.5	1994—May 17	3-3.5	3.5
1980—Feb. 15	12-13	13	Dec. 24	8	8	18	3.5	3.5
19	13	13				Aug. 16	3.5-4	4
May 29	12-13	13	1985—May 20	7.5–8	7.5	18	4	4
30	12 11-12	12	24	7.5	7.5	Nov. 15	4-4.75 4.75	4.75 4.75
June 13	11-12	l li	1986—Mar. 7	7–7.5	7	17	4.73	4.73
July 28	10-11	10	10	7-7.3	1 7	1995—Feb. 1	4.75-5.25	5.25
29	10	10	Apr. 21	6.5-7	6.5	9	5.25	5.25
Sept. 26	11	11	23	6.5	6.5			
Nov. 17	12	12	July 11	- 6	6	1996—Jan 31	5.00-5.25	5.00
Dec. 5	12-13	13	Aug. 21	5.5-6	5.5	Feb. 5	5.00	5.00
8,	13	13	22	5.5	5.5	1000 0 . 15	175 500	1.76
1981—May 5	13–14 14	14 14	1987—Sept. 4	5,5-6	6	1998—Oct. 15	4.75-5.00 4.75	4.75 4.75
0	14	14	1987—sept. 4	5.5-0	6	•••••••••••••••••••••••••••••••••••••	4.7.1	7.7.5
					"	1998—Nov 17	4.50-4.75	4.50
						Nov. 19	4.50	4.50
						In effect Mar. 12, 1999	4.50	4.50

J. Available on a short-term basis to help depository institutions meet temporary needs for funds that cannot be met through reasonable alternative sources. The highest rate established

of the Federal Reserve Bank, this time period may be shortened. Beyond this initial period, a flexible rate somewhat above rates charged on market sources of funds is charged. The rate ordinarily is reestablished on the first business day of each two-week reserve maintenance period, but it is never less than the discount rate applicable to adjustment credit plus 50 basis

funds that cannot be met through reasonable alternative sources. The highest rate established for loans to depository institutions may be charged on adjustment credit loans of unusual size that result from a major operating problem at the borrower's facility.

2. Available to help relatively small depository institutions meet regular seasonal needs for funds that arise from a clear pattern of intrayearly movements in their deposits and loans and that cannot be met through special industry lenders. The discount rate on seasonal credit takes into account rates charged by market sources of funds and ordinarily is reestablished on the first business day of each two-week reserve maintenance period; however, it is never less than the discount rate applicable to adjustment credit.

3. May be made available to depository institutions when similar assistance is not reasonably available from other sources, including special industry lenders. Such credit may be provided when exceptional circumstances (including sustained deposit drains, impaired access to money market funds, or sudden deterioration in loan repayment performance) or practices involve only a particular institution, or to meet the needs of institutions experiencing difficulties adjusting to changing market conditions over a longer period (particularly at times of deposit disintermediation). The discount rate applicable to adjustment credit ordinarily is charged on extended-credit loans outstanding less than thirty days; however, at the discretion

For earlier data, see the following publications of the Board of Governors: Banking and Monetary Statistics, 1914–1941, and 1941–1970; and the Annual Statistical Digest, 1970–

In 1980 and 1981, the Federal Reserve applied a surcharge to short-term adjustment-credit borrowings by institutions with deposits of \$500 million or more that had borrowed in successive weeks or in more than four weeks in a calendar quarter. A 3 percent surcharge was successive weeks or in more than four weeks in a catendar quarter. A 3 percent surcharge was in effect from Mar. 17, 1980, through May 7, 1980. A surcharge of 2 percent was reimposed on Nov. 17, 1980; the surcharge was subsequently raised to 3 percent on Dec. 5, 1980, and to 4 percent on May 5, 1981. The surcharge was reduced to 3 percent effective Sept. 22, 1981, and to 2 percent effective Oct. 12, 1981. As of Oct. 1, 1981, the formula for applying the surcharge was changed from a calendar quarter to a moving thirteen-week period. The surcharge was eliminated on Nov. 17, 1981.

#### RESERVE REQUIREMENTS OF DEPOSITORY INSTITUTIONS 1.15

	Requi	rement
Type of deposit	Percentage of deposits	Effective date
Net transaction accounts <sup>2</sup> 1 \$0 million-\$46.5 million <sup>3</sup> 2 More than \$46.5 million <sup>4</sup>	3 10	12/31/98 12/31/98
3 Nonpersonal time deposits <sup>5</sup>	0	12/27/90
4 Eurocurrency liabilities <sup>6</sup> .	0	12/27/90

1. Required reserves must be held in the form of deposits with Federal Reserve Banks or vault cash. Nonmember institutions may maintain reserve balances with a Federal Reserve Bank indirectly, on a pass-through basis, with certain approved institutions. For previous reserve requirements, see earlier editions of the Annual Report or the Federal Reserve Bulletin. Under the Monetary Control Act of 1980, depository institutions include commercial banks, savings banks, savings and loan associations, credit unions, agencies and branches of foreign banks, and Edge Act corporations.

2. Transaction accounts include all deposits against which the account holder is permitted to make withdrawals by negotiable or transferable instruments, payment orders of withdrawal, or telephone or preauthorized transfers for the purpose of making payments to third persons or others. However, accounts subject to the rules that permit no more than six preauthorized, automatic, or other transfers per month (of which no more than three may be by check, draft, debit card, or similar order payable directly to third parties) are savings deposits not transaction accounts.

by check, draft, debit card, or similar order payable directly to third parties) are savings deposits, not transaction accounts.

3. The Monetary Control Act of 1980 requires that the amount of transaction accounts against which the 3 percent reserve requirement applies be modified annually by 80 percent of the percentage change in transaction accounts held by all depository institutions, determined as of June 30 of each year. Effective with the reserve maintenance period beginning December 31, 1998, for depository institutions that report weekly, and with the period beginning January 14, 1999, for institutions that report quarterly, the amount of was decreased from \$47.8 million to \$46.5 million.

Under the Garn-St Germain Depository Institutions Act of 1982, the Board adjusts the amount of reservable jubilities subject to a zero percent reserve requirement each wear for the

amount of reservable liabilities subject to a zero percent reserve requirement each year for the

succeeding calendar year by 80 percent of the percentage increase in the total reservable succeeding calendar year by 80 percent of the percentage increase in the total reservable liabilities of all depository institutions, measured on an annual basis as of June 30. No corresponding adjustment is made in the event of a decrease. The exemption applies only to accounts that would be subject to a 3 percent reserve requirement. Effective with the reserve maintenance period beginning December 31, 1998, for depository institutions that report weekly, and with the period beginning January 14, 1999, for institutions that report quarterly, the exemption was raised from \$4.7 million.

4 The reserve requirement was reduced from 12 percent to 10 percent on Apr. 2, 1992, for institutions that report quarterly.

Apr. 2. 1992. For institutions that report weekly, and on Apr 16, 1992, for institutions that report weekly, the reserve requirement on nonpersonal time deposits with an original maturity of less than 1½ years was reduced from 3 percent to 1½ percent for the maintenance period that began Dec. 13, 1990, and to zero for the maintenance period that began Dec. 27, 1990. For institutions that report quarterly, the reserve requirement on onpersonal time deposits with an original maturity of less than 1½ years was reduced from 3 percent to zero on Jan. 17, 1991.

The reserve requirement on nonpersonal time deposits with an original maturity of  $1\frac{1}{2}$  years or more has been zero since Oct. 6, 1983.

6. The reserve requirement on Eurocurrency liabilities was reduced from 3 percent to zero in the same manner and on the same dates as the reserve requirement on nonpersonal time deposits with an original maturity of less than 11/2 years (see note 5).

### 1.17 FEDERAL RESERVE OPEN MARKET TRANSACTIONS<sup>1</sup>

Millions of dollars

Millions of dollars										
Type of transaction	1996	1997	1998				1998			
and maturity	1996	1997	1998	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U.S. Treasury Securities <sup>2</sup>										
Outright transactions (excluding matched transactions) Teographics										
Treasury bills 1 Gross purchases	9,901	9.147	3,550	0	0	0	0	0	0	0
2 Gross sales 3 Exchanges 4 For new bills 5 Redemptions	0 426,928 426,928	436,257 435,907	450,835 450,835	32,830 32,830 0	40,312 40,312 0	0 34,607 34,607 0	33,140 33,140 33,140	40,712 40,712	0 34,957 34,957	41,393 41,393
Others within one year	0	0	2,000					0	0	
6 Gross purchases. 7 Gross sales	524 0	5.549 0	6,297 0	0 0	0	986 0	1,038 0	741 0	662 0	0
8 Maturity shifts	30,512 -41,394 2,015	41,716 -27,499 1,996	46,062 -49,434 2,676	1,520 -5,084 0	2,638 -2,242 1,311	6,367 8,964 0	2,301 -2,242 0	2,423 -400 602	5,444 -8,093 0	2,539 -2,555 0
One to five years 11 Gross purchases	3,898	19,680	12,901	0	0	535	3,989	725	2,397	0
12 Gross sales	-25,022	0 -37,987	-37,777	- 1,520	-2,638	0 -2,168	-2,301	0 -2,423	0 -4,574	-2.539
14 Exchanges Five to ten years	31,459	20,274	37,154	5,084	1,842	5,828	2,242	0	6,013	2,555
15 Gross purchases		3,849	2,294	0	0	303	351	0	862	0
16 Gross sales	-5,469	0 -1,954	-5,908	0	0	0 -3,411	0	0	0 718	0
18 Exchanges	6,666	5,215	7,439	0	0	1,364	0	400	1,135	0
19 Gross purchases	1,655	5,897	4,884	0	0	1,769	0 0	1,674 0	698 0	0
21 Maturity shifts	-20	-1,775	-2,377	Ö	0	-789	Ó	ŏ	-1,589	ő
22 Exchanges All maturities	3,270	2,360	4,842	0	400	1,772	0	0	945	0
23 Gross purchases 24 Gross sales	17.094	44,122	29,926	0	0	3,593	5,377	3,140	4,619 0	0
25 Redemptions	2,015	1.996	4,676	ŏ	1,311	ŏ	ŏ	602	ŏ	ŏ
Matched transactions										
26 Gross purchases	3,092,399 3,094,769	3.577,954 3.580,274	4,395,430 4,399,330	369.358 370.569	373,285 371,142	346,245 348,318	380,594 382,063	402,581 400,995	358,438 359,256	418,538 420,397
Repurchase agreements										
28 Gross purchases 29 Gross sales	457,568 450,359	810,485 809,268	512,671 514,186	57,098 41,414	52.116 63,531	39,078 38,402	63,924 59,731	40,823 48,672	23,884 19,200	49,296 38,592
30 Net change in U.S. Treasury securities.	19,919	41,022	19,835	14,473	-10.584	2,196	8.101	-3,725	8,484	8,845
FEDERAL AGENCY OBLIGATIONS										
Outright transactions										
31 Gross purchases	0	0	0 25	0	0 0	0 25	0	0	0	0
32 Gross sales 33 Redemptions	409	1,540	322	25	0	50	48	15	20	30
Repurchase agreements										
34 Gross purchases 35 Gross sales	75,354 74,842	160,409 159,369	284,316 276,266	14,548 12,913	11,236 12,341	33,431 30,625	18,486 19,953	51,471 50,032	51,419 48,785	48,815 44,285
36 Net change in federal agency obligations	103	-500	7.703	1.610	-1.105	2.731	-1,515	1,424	2,614	4,500
37 Total net change in System Open Market Account	20,021	40,522	27,538	16,083	-11,689	4,927	6,586	-2,301	11,098	13,345

<sup>1.</sup> Sales, redemptions, and negative figures reduce holdings of the System Open Market Account, all other figures increase such holdings

 $<sup>2. \</sup> Transactions \ exclude \ changes \ in compensation for the \ effects \ of \ inflation \ on \ the \ principal \ of \ inflation-indexed \ securities.$ 

### 1.18 FEDERAL RESERVE BANKS Condition and Federal Reserve Note Statements<sup>1</sup>

Millions of dollars

			Wednesday		<u>,                                      </u>		End of month				
Account	1998		19	999		19	998	1999			
	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27	Nov. 30	Dec. 31	Jan. 31			
	Consolidated condition statement										
ASSETS											
Gold certificate account.     Special drawing rights certificate account.     Coin	11,046 9,200 360	11,046 9,200 353	11,046 9,200 386	11,046 9,200 410	11,046 9,200 439	11,041 9,200 391	11,046 9,200 358	11,048 9,200 459			
Loans 4 To depository institutions 5 Other 6 Acceptances held under repurchase agreements	1.669 0 0	108 0 0	152 0 0	78 0 0	12 0 0	17 0 0	17 0 0	60 0 0			
Federal agency obligations  7 Bought outright  8 Held under repurchase agreements	338 7,388	338 3,353	338 4,472	338 3,958	336 4,027	368 6,172	338 10,702	336 2,535			
9 Total U.S. Treasury securities	470,321	460,152	460,111	460,008	464,429	462,961	471,815	458,924			
10   Bought outright  2	454,772 197,404 187,895 69,474 15,549	455,645 198,277 187,895 69,474 4,507	456,411 199,042 187,895 69,474 3,700	453,868 196,992 187,403 69,474 6,140	454,538 197,662 187,403 69,474 9,891	453,991 196,631 187,888 69,472 8,970	452,141 194,772 187,895 69,474 19,674	454,439 196,948 187,403 70,089 4,485			
15 Total loans and securities	479,716	463,951	465,073	464,382	468,804	469,517	482,872	461,855			
16 Items in process of collection	8,895 1,297	13,060 1,300	10,114 1,300	16,278 1,300	7,289 1,301	2,899 1,294	6,933 1,300	5,325 1,299			
Other assets 18 Denominated in foreign currencies <sup>3</sup>	18,980 16,829	19,776 14,748	19.784 14,995	19,793 15,331	19,802 16,548	18,943 14,456	19,767 16,625	19,235 16,165			
20 Total assets	546,322	533,434	531,897	537,740	534,429	527,740	548,101	524,586			
LIABILITIES 21 Federal Reserve notes	492,524	489.345	484,456	482,814	481,049	481,438	491,657	479,689			
22 Total deposits	29,435	19,062	23,150	27,308	29,985	27,260	34,165	23,682			
23 Depository institutions. 24 U.S. Treasury—General account. 25 Foreign—Official accounts. 26 Other	18,931 10,174 166 164	13,765 4,960 170 162	17,730 5,006 214 200	19,459 7,466 177 206	22,563 7,038 168 217	21,493 5,219 211 337	26,306 6,086 167 1,605	15,577 7,623 234 246			
27 Deferred credit items	7,406 4,464	8,561 4,089	7,678 4,194	10,991 4,226	6,785 4,192	2,463 4,456	5,924 4,450	4,948 4,183			
29 Total liabilities	533,829	521,057	519,478	525,340	522,011	515,617	536,197	512,501			
30 Capital paid in	5,951 5,246 1,296	5,960 5,952 465	5,960 5,952 507	5,964 5,952 484	5,955 5,952 511	5,931 5,205 987	5,952 5,952 0	5,955 5,943 188			
33 Total liabilities and capital accounts	546,322	533,434	531,897	537,740	534,429	527,740	548,101	524,586			
MEMO 34 Marketable U.S. Treasury securities held in custody for foreign and international accounts	594,076	599,947	600,099	605,156	600,443	596,157	594,076	600,443			
				Federal Reserv	e note statemen	t					
35 Federal Reserve notes outstanding (issued to Banks) 36 LESS, Held by Federal Reserve Banks	612,055 119,530 492,524	613,734 124,390 489,345	617,857 133,400 484,456	621,030 138,216 482,814	623,737 142,688 481,049	601,253 119,815 481,438	611,688 120,030 491,657	625,230 145,541 479,689			
Collateral held against notes, net 38 Gold certificate account 39 Special drawing rights certificate account 40 Other eligible assets 41 U.S. Treasury and agency securities.	11.046 9,200 0 472,278	11,046 9,200 0 469,099	11,046 9,200 0 464,211	11,046 9,200 0 462,569	11,046 9,200 0 460,803	11.041 9,200 0 461.197	11,046 9,200 0 471,412	11,048 9,200 0 459,441			
42 Total collateral	492,524	489,345	484,456	482,814	481,049	481,438	491,657	479,689			

<sup>1.</sup> Some of the data in this table also appear in the Board's H.4 I (503) weekly statistical

some of the data in this table also appear in the Board's H.4 I (503) weekly statistical release. For ordering address, see make front cover.
 Includes securities loaned—fully guaranteed by U.S. Treasury securities pledged with Federal Reserve Banks—and includes compensation that adjusts for the effects of inflation on the principal of inflation-indexed securities. Excludes securities sold and scheduled to be bought back under matched sale—purchase transactions.

<sup>3.</sup> Valued monthly at market exchange rates
4. Includes special investment account at the Federal Reserve Bank of Chicago in Treasury bills maturing within ninety days.
5. Includes exchange-translation account reflecting the monthly revaluation at market exchange rates of foreign exchange commitments.

# 1.19 FEDERAL RESERVE BANKS Maturity Distribution of Loan and Security Holding Millions of dollars

			Wednesday	End of month					
Type of holding and maturity	1998 1999						1998		
	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27	Nov. 30	Dec. 31	Jan. 29	
1 Total loans	1,669	108	152	78	12	16	18	143	
2 Within fifteen days <sup>1</sup>	1,668 1	105 4	148 4	78 0	12 0	4 12	18 n.a.	143 0	
4 Total U.S. Treasury securities <sup>2</sup>	465,814	458,877	460,111	457,933	464,429	462,961	467,308	458,924	
5 Within fifteen days 1 6 Sixteen days to ninety days 7 Ninety-one days to one year 8 One year to live years 9 Five years to ten years 10 More than ten years	23,470 97,252 137,252 107,350 44,822 55,668	17,251 102,434 130,973 107,730 44,822 55,669	12,752 103,096 136,043 107,730 44,822 55,669	16,543 98,021 135,438 107,040 45,222 55,669	23,513 97,932 135,053 107,040 45,222 55,669	16,007 100,695 138,427 107,348 44,817 55,666	16,325 99,127 143,635 107,730 44,822 55,668	10,051 110,149 130,178 107,040 45,222 56,284	
If Total federal agency obligations	4,373	2,966	4,810	3,706	4,362	6,540	7,687	2,871	
12 Within fifteen days l 13 Sixteen days to ninety days 14 Ninety-one days to one year 15 One year to five years 16 Five years to ten years 17 More than ten years.	4,035 27 75 61 175 0	2,628 27 75 61 175 0	4,474 25 75 61 175 0	3,370 25 75 61 175 0	4,027 25 81 55 175 0	6,202 2 100 51 185 0	7,349 27 75 61 175 0	2,535 25 81 55 175 0	

<sup>1.</sup> Holdings under repurchase agreements are classified as maturing within fifteen days in accordance with maximum maturity of the agreements.

 $<sup>2\,</sup>$  Includes compensation that adjusts for the effects of inflation on the principal of inflation-indexed securities.

### AGGREGATE RESERVES OF DEPOSITORY INSTITUTIONS AND MONETARY BASE

Billions of dollars, averages of daily figures

	1995	1996	1997	1998				1998				1999
Item	Dec.	Dec.	Dec.	Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
ADJUSTED FOR		_				Seasonall	y adjusted					
CHANGES IN RESERVE REQUIREMENTS <sup>2</sup> 1 Total reserves <sup>3</sup> 2 Nonborrowed reserves <sup>4</sup> 3 Nonborrowed reserves plus extended credit <sup>5</sup> 4 Required reserves 5 Monetary base <sup>6</sup>	56.40 56.14 56.14 55.12 434.03 <sup>r</sup>	50.08 49.93 49.93 48.66 451.60 <sup>f</sup>	46.67 46.35 46.35 44.99 479.39 <sup>r</sup>	44.91 44.79 44.79 43.32 512.99 <sup>r</sup>	45.39 45.14 45.14 43.77 492.40 <sup>r</sup>	44.81 44.56 44.56 43.45 494.62 <sup>r</sup>	45.00 44.73 44.73 43.48 498.17 <sup>r</sup>	44.59 44.33 44.33 42.90 502.24 <sup>r</sup>	44.39 44.21 44.21 42.81 505.77	44.57 44.49 44.49 42.95 509.49 <sup>r</sup>	44.91 44.79 44.79 43.32 512.99 <sup>r</sup>	44.87 44.67 44.67 43.34 516.57
				•	N	lot seasona	illy adjuste	ed		,		
6 Total reserves <sup>7</sup> . 7 Nonborrowed reserves. 8 Nonborrowed reserves plus extended credit <sup>5</sup> . 9 Required reserves <sup>8</sup> . 10 Monetary base <sup>9</sup> .	58.02 57.76 57.76 56.74 439.02 <sup>r</sup>	51.52 51.37 51.37 50.10 456.71	47.97 47.65 47.65 46.29 485.05	45.17 <sup>r</sup> 45.06 45.06 43.59 518.29 <sup>r</sup>	45.17 44.92 44.92 43.55 491.11	44.69 44.43 44.43 43.32 495.28 <sup>r</sup>	44.81 44.54 44.54 43.30 497.49	44.31 44.06 44.06 42.63 500.99°	44.24 44.07 44.07 42.67 504.51	44.29 44.21 44.21 42.67 510.17	45.17 <sup>r</sup> 45.06 45.06 43.59 518.29 <sup>r</sup>	46.33 46.12 46.12 44.80 519.93
NOT ADJUSTED FOR CHANGES IN RESERVE REQUIREMENTS 10												
11 Total reserves 1 12 Nonborrowed reserves 13 Nonborrowed reserves plus extended credit 3 14 Required reserves 1 15 Monetary base 1 16 Excess reserves 1 17 Borrowings from the Federal Reserve	57.90 57.64 57.64 56.62 444.44 <sup>r</sup> 1.28 .26	51.24 51.09 51.09 49.82 463.48 <sup>r</sup> 1.42 .16	47.88 47.56 47.56 46.20 491.86 <sup>r</sup> 1.68 .32	45.02 44.90 <sup>t</sup> 44.90 <sup>f</sup> 43.44 <sup>f</sup> 525.02 <sup>f</sup> 1.58 <sup>f</sup> .12	45.10 44.84 44.84 43.48 497.87 <sup>r</sup> 1.62 .25	44.60 44.34 44.34 43.24 502.13 <sup>r</sup> 1.37 .26	44.71 44.44 44.44 43.19 504.39 <sup>r</sup> 1.51 .27	44.19 43.94 43.94 42.51 507.80 <sup>r</sup> 1.68 .25	44.12 43.94 43.94 42.54 511.36 <sup>r</sup> 1.57	44.15 44.07 44.07 42.53 516.94° 1.62 08	45.02 44.90 <sup>t</sup> 44.90 <sup>t</sup> 43.44 <sup>t</sup> 525.02 <sup>t</sup> 1.58 <sup>t</sup> .12	46.33 46.13 46.13 44.80 527.51 1.53 .21

<sup>1.</sup> Latest monthly and biweekly figures are available from the Board's H.3 (502) weekly statistical release. Historical data starting in 1959 and estimates of the effect on required reserves of changes in reserve requirements are available from the Money and Reserves Projections Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, DC 20551.

2. Figures reflect adjustments for discontinuities, or "breaks," associated with regulatory changes in reserve requirements. (See also table 1.10.)

3. Seasonally adjusted, break-adjusted total reserves equal seasonally adjusted, break-adjusted required reserves (line 4) plus excess reserves (line 16).

4. Seasonally adjusted, break-adjusted nonborrowed reserves equal seasonally adjusted, break-adjusted total reserves (line 1) less total borrowings of depository institutions from the Federal Reserve (line 17).

5. Extended credit consists of borrowing at the discount window under the terms and conditions established for the extended credit program to help depository institutions deal with sustained liquidity pressures. Because there is not the same need to repay such borrowing promptly as with traditional short-term adjustent credit, the money market effect of strated de goald is climble to that of nonborround reserves. of extended credit is similar to that of nonborrowed reserves.

6. The seasonally adjusted, break-adjusted monetary base consists of (1) seasonally adjusted. break-adjusted monetary base consists of (1) seasonally adjusted. break-adjusted total reserves (fine 1), plus (2) the seasonally adjusted currency component of the money stock, plus (3) (for all quarterly reporters on the "Report of Transaction Accounts, Other Deposits and Vault Cash" and for all those weekly reporters whose vault cash exceeds their required reserves) the seasonally adjusted, break-adjusted difference between current walt cash and the amount angular to adjusted. difference between current vault cash and the amount applied to satisfy current reserve

7. Break-adjusted total reserves equal break-adjusted required reserves (line 9) plus excess

- 8. To adjust required reserves for discontinuities that are due to regulatory changes in reserve requirements, a multiplicative procedure is used to estimate what required reserves would have been in past periods had current reserve requirements been in effect. Breakadjusted required reserves include required reserves against transactions deposits and nonpersonal time and savings deposits (but not reservable nondeposit liabilities).
- 9. The break-adjusted monetary base equals (1) break-adjusted total reserves (line 6), plus (2) the (unadjusted) currency component of the money stock, plus (3) (for all quarterly reporters on the "Report of Transaction Accounts, Other Deposits and Vault Cash" and for all those weekly reporters whose vault cash exceeds their required reserves) the break-adjusted difference between current vault cash and the amount applied to satisfy current reserve requirements.
- 10. Reflects actual reserve requirements, including those on nondeposit liabilities, with no adjustments to eliminate the effects of discontinuities associated with regulatory changes in reserve requirements.
- 11. Reserve balances with Federal Reserve Banks plus vault cash used to satisfy reserve requirements.
- 12. The monetary base, not break-adjusted and not seasonally adjusted, consists of (1) total reserves (line 11), plus (2) required clearing balances and adjustments to compensate for float at Federal Reserve Banks, plus (3) the currency component of the money stock, plus (4) (for all quarterly reporters on the "Report of Transaction Accounts, Other Deposits and Vall Cash" and for all those weekly reporters whose vault cash exceeds their required reserves) the difference between current vault cash and the amount applied to satisfy current reserve requirements. Since February 1984, currency and vault cash figures have been measured over computation periods ending on Mondays
  - 13. Unadjusted total reserves (line 11) less unadjusted required reserves (line 14).

## 1.21 MONEY STOCK, LIQUID ASSETS, AND DEBT MEASURES<sup>1</sup>

Billions of dollars, averages of daily figures

Item	1995	1996	1997	1998		1998 <sup>r</sup>		1999
nem	Dec.	Dec. <sup>r</sup>	Dec.	Dec. <sup>1</sup>	Oct.	Nov.	Dec.	Jan.
				Seasonall	y adjusted			
Measures <sup>2</sup> 1 M1	1.126.7	1,081.3	1,074.9	1,093.0	1,080.4	1,088.8	1,093.0	1,090.2
	3.649.1	3,823.9	4,046.6	4,401.5	4,327.0	4,365.1	4,401.5	4,424.0
	4.618.5	4,955.6	5,404.7	6,005.9	5,876.3	5,945.3	6,005.9	6,027.9
	13.695.6	14,424.1	15,167.2	16,128.1	15,956.7	16,048.3	16,128.1	n.a
M1 components 5 Currency 6 Travelers checks <sup>4</sup> 7 Demand deposits <sup>5</sup> 8 Other checkable deposits <sup>6</sup>	372.3	394.1	424.5	459.2	453.3	456.4	459.2	462.6
	8.3	8.0	7.7	7.8	8.3	7.9	7.8	7.8
	389.4	403.0	396.5	377.3	374.7	376.8	377.3	370.7
	356.7	276.2	246.2	248.7	244.2	247.6	248.7	249.2
Nontrapsaction components 9 In M2 10 In M3 only <sup>8</sup>	2,522.4	2,742.6	2,971.8	3,308.4	3,246.6	3,276.3	3,308.4	3,333.8
	969.4	1,131.7	1,358.0	1,604.5	1,549.3	1,580.2	1,604.5	1,604.0
Commercial banks 11 Savings deposits, including MMDAs 12 Small time deposits <sup>9</sup> 13 Large time deposits <sup>10, 11</sup>	775.3	905.2	1,022.9	1,189.8	1,155.3	1,171.1	1,189.8	1,201.3
	575.0	593.7	626.1	626.1	627.5	628.3	626.1	621.9
	346.6	414.8	490.2	548.5	535.5	542.7	548.5	558.4
Thrift institutions 14 Savings deposits, including MMDAs 15 Small time deposits <sup>9</sup> 16 Large time deposits <sup>10</sup>	359.8	367.1	377.3	415.2	407.8	411.5	415.2	420.2
	356.7	353.8	343.2	325.7	330.5	327.5	325.7	324.3
	74.5	78.4	85.9	89.1	87.7	87.9	89.1	91.1
Money market mutual funds	455.5	522.8	602.3	751.6	725.5	737.9	751.6	766.1
17 Retail	255.9	313.3	379.9	516.2	486.7	503.8	516.2	515.0
Repurchase agreements and Eurodollars 19 Repurchase agreements 12 20 Eurodollars 12	198.7	211.3	252.8	297.7	283.5	289.5	297.7	291.5
	93.7	113.9	149.2	153.0	156.0	156.2	153.0	148.0
Debt components 21 Federal debt	3,638.9	3,780.6	3,798.4	3,747.4	3,750.3	3,748.8	3,747.4	n.a
	10,056.7	10,643.5	11,368.8	12,380.8	12,206.4	12,299.5	12,380.8	n.a.
				Not seasona	ally adjusted	,	1	_
Measures <sup>2</sup> 23 M1 24 M2 25 M3 26 Debt	1,152.4	1,104.9	1,097.4	1,115.0	1,076.2	1,094.1	1,115.0	1,097.5
	3,671.7	3,843.7	4,064.8	4,418.3	4.311.8	4,365.5	4,418.3	4,427.4
	4,638.0	4,972.5	5,420.8	6,022.0	5.861.3	5,950.2	6,022.0	6,035.8
	13,697.0	14,424.4	15,166.8	16,128.5	15,918.3	16,030.4	16,128.5	n.a
M1 components 27 Currency 28 Travelers checks <sup>4</sup> 29 Demand deposits <sup>5</sup> 30 Other checkable deposits <sup>6</sup>	376.2	397.9	428.9	464.1	452.6	457.5	464.1	462.4
	8.5	8.3	7.9	8.0	8.2	8.1	8.0	7 9
	407.2	419.9	412.3	392.1	373.2	381.6	392.1	375.3
	360.5	278.8	248.3	250.7	242.2	247.0	250.7	251.9
Nontransaction components 31 ln M2 <sup>7</sup> 32 ln M3 only <sup>8</sup>	2,519.3	2.738.9	2,967.4	3,303.3	3,235.6	3,271.4	3,303.3	3,329 9
	966.4	1,128.8	1,356.0	1,603.8	1,549.5	1,584.6	1,603.8	1,608.4
Commercial banks 33 Savings deposits, including MMDAs 34 Small time deposits <sup>10</sup> 35 Large time deposits <sup>10, 11</sup>	774.1	903.3	1,020.4	1,186.7	1,147.6	1.167.9	1,186.7	1.196.3
	573.8	592.7	625.3	625.5	628.1	628.4	625.5	622.6
	345.8	413.3	487.7	544.9	538.9	544.9	544.9	544.4
Thrift institutions 36 Savings deposits, including MMDAs 37 Small time deposits 38 Large time deposits 0	359.2	366.3	376,4	414.1	405.1	410.4	414.1	418.5
	355.9	353.2	342.8	325.4	330.8	327.6	325.4	324.6
	74.3	78.1	85.4	88.5	88.2	88.3	88.5	88.8
Money market mutual funds	456.1	523.2	602.5	751.6	724.1	737.2	751.6	767.8
39 Retail	257.7	316.0	384.5	523.3	482.9	504.9	523.3	529.3
Repurchase agreements and Eurodollars 41 Repurchase agreements 12 42 Eurodollars 12	193.8	205.7	246.1	290.3	282.6	290.0	290.3	292.9
	94.9	115.7	152.3	156.8	156.8	156.6	156.8	153.1
Debt components 43 Federal debt	3,645.9	3,787.9	3.805.8	3,754.9	3,727.8	3,746.6	3,754.9	n.a.
	10,051 1	10,636.5	11.361.0	12,373.5	12,190.5	12.283.9	12.373.5	n.a.

Footnotes appear on following page.

#### NOTES TO TABLE 1.21

- 1. Latest monthly and weekly figures are available from the Board's H.6 (508) weekly statistical release. Historical data starting in 1959 are available from the Money and Reserves Projections Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, DC 20551.
- Composition of the money stock measures and debt is as follows:
   M1: (1) currency outside the U.S. Treasury, Federal Reserve Banks, and the vaults of depository institutions. (2) travelers checks of nonbank issuers. (3) demand deposits at all commercial banks other than those owed to depository institutions, the U.S. government, and foreign banks and official institutions, less cash items in the process of collection and Federal Toreign banks and omicial institutions, less cash items in the process of collection and Federal Reserve float, and (4) other checkable deposits (OCDs), consisting of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institutions, credit union share draft accounts, and demand deposits at thrift institutions. Seasonally adjusted M1 is computed by summing currency, travelers checks, demand deposits, and OCDs, each seasonally adjusted separately.
- M2: MI plus (1) savings deposits (including MMDAs), (2) small-denomination time deposits (time deposits—including retail RPs—in amounts of less than \$100,000), and (3) balances in retail money market mutual funds. Excludes individual retirement accounts (IRAs) and Keogh balances at depository institutions and money market funds. Seasonally adjusted M2 is calculated by summing savings deposits, small-denomination time deposits, and retail money fund balances, each seasonally adjusted separately, and adding this result to
- and retail money fund balances, each seasonally adjusted separately, and adding this result to easonally adjusted M1.

  M3: M2 plus (1) large-denomination time deposits (in amounts of \$100,000 or more) issued by all depository institutions, (2) balances in institutional money funds, (3) RP liabilities (overnight and term) issued by all depository institutions, and (4) Eurodollars (overnight and term) beld by U.S. residents at foreign branches of U.S. banks worldwide and at all banking offices in the United Kingdom and Canada. Excludes amounts held by depository institutions, the U.S. government, money market funds, and foreign banks and official institutions. Seasonally adjusted M3 is calculated by summing large time deposits, institutional money fund balances, RP liabilities, and Eurodollars, each seasonally adjusted separately, and adding this result to seasonally adjusted M2.

  Debt: The debt aggregate is the outstanding credit market debt of the domestic nonfinancial sectors—the federal sector (U.S. government, not including government-sponsored enter-
- sectors-the federal sector (U.S. government, not including government-sponsored enter-

- prises or federally related mortgage pools) and the nonfederal sectors (state and local governments, households and nonprofit organizations, nonfinancial corporate and nonfarm noncorporate businesses, and farms). Nonfederal debt consists of mortgages, tax-exempt and corporate bonds, consumer credit, bank loans, commercial paper, and other loans. The data, which are derived from the Federal Reserve Board's flow of funds accounts, are breakadjusted (that is, discontinuities in the data have been smoothed into the series) and month-averaged (that is, the data have been derived by averaging adjacent month-end levels).
- 3. Currency outside the U.S. Treasury, Federal Reserve Banks, and vaults of depository institutions.
- Outstanding amount of U.S. dollar-denominated travelers checks of nonbank issuers. Travelers checks issued by depository institutions are included in demand deposits.

  5. Demand deposits at commercial banks and foreign-related institutions other than those
- owed to depository institutions, the U.S. government, and foreign banks and official institu-tions, less cash items in the process of collection and Federal Reserve float.
- Consists of NOW and ATS account balances at all depository institutions, credit union share draft account balances, and demand deposits at thrift institutions.
- 7. Sum of (1) savings deposits (including MMDAs), (2) small time deposits, and (3) retail
- 8. Sum of (1) large time deposits, (2) institutional money fund balances, (3) RP liabilities (overnight and term) issued by depository institutions, and (4) Eurodollars (overnight and term) of U.S. addressees.
- Small time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All IRAs and Keogh accounts at commercial banks and thrift institutions are subtracted from small time deposits.
- 10. Large time deposits are those issued in amounts of \$100,000 or more, excluding those booked at international banking facilities.
- 11. Large time deposits at commercial banks less those held by money market funds, depository institutions, the U.S. government, and foreign banks and official institutions.
- 12. Includes both overnight and term.

### 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities<sup>1</sup>

### A. All commercial banks

Billions of dollars

				Monthly	averages					Wednesda	ıv figures	
Account	1998						_	1999		19	<u> </u>	
	Jan.	July	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec. <sup>r</sup>	Jan.	Jan. 6	Jan. 13	Jan. 20	Jan. 27
						Seasonally	y adjusted					
Assets							_					
Bank credit     Securities in bank credit     U.S. government securities     Other securities     Loans and leases in bank credit <sup>2</sup>	4,155.4 <sup>r</sup>	4,280.5	4,341.6	4,398.9	4,488.3	4,528.2	4,549.1	4,523.1	4,520.3	4,526.9	4,532.4	4,518.7
	1,110.4	1,130.4	1,156.5	1,177.1	1,217.9	1,226.7	1,235.9	1,216.6	1,216.0	1,219.8	1,218.8	1,217.5
	762.9	760.7	771.2	767.4	774.6	791.0	793.1	793.9	794.1	795.1	792.2	796.7
	347.5	369.8	385.3	409.7	443.3	435.7	442.8	422.7	421.8	424.7	426.6	420.8
	3,045.0	3,150.1	3,185.1	3,221.8	3,270.5	3,301.5	3,313.2	3,306.6	3,304.3	3,307.1	3,313.5	3,301.3
6 Commercial and industrial 7 Real estate	864.2	897.7	906.3 <sup>r</sup>	918.5 <sup>r</sup>	939.1	947.2	945.1	942.2	939.8	941.2	944.6	942.8
	1,234.2	1,271.9 <sup>r</sup>	1,281.5 <sup>r</sup>	1,283.7 <sup>r</sup>	1,287.8	1,309.3	1,323.0	1,324.4	1,324.5	1,329.5	1,323.4	1,318.8
	98.0	97.5	97.6	97.9	96.9	97.3	97.2	96.7	96.6	96.6	96.7	96.8
9 Other 10 Consumer 11 Security <sup>3</sup> 12 Other loans and leases	1,136.2	1,174.4 <sup>r</sup>	1,183.8 <sup>r</sup>	1,185.8 <sup>r</sup>	1,190.9	1,212.0	1,225.8	1,227.8	1,227.9	1,233.0	1,226.7	1,222.0
	503.5	496.0 <sup>r</sup>	494.5 <sup>r</sup>	497.4 <sup>r</sup>	496.7	498.7	501.7	503.1	500.2	502.5	504.3	504.5
	117.6	131.9	137.7	142.9	158.9	152.5	151.4	152.7	153.3	150.1	158.3	152.5
	325.6	352.5	365.1 <sup>r</sup>	379.4 <sup>r</sup>	388.1	393.8	392.0	384.1	386.4	383.8	382.9	382.6
13 Interbank loans 14 Cash assets <sup>4</sup> 15 Other assets <sup>5</sup>	201.8	213.2	206.1	219.8	220.3	219.8	214.9	217.0	209.1	213.9	220.0	221.5
	261.2	243.5	251.6	253.3	242.9	249.6	249.9	263.5	258.5	256.8	279.5	262.9
	295.4	312.7	318.1	323.3	322.7	327.1	328.9	333.2	330.4	331.8	337.6	332.4
16 Total assets <sup>6</sup>	4,857.0°	4,992.2	5,060.2	5,137.8°	5,216.5	5,266.7	5,284.7	5,278.8	5,260.4	5,271.3	5,311.5	5 <i>,277.7</i>
Toposits   Transaction   Poposits   Transaction   Poposits   Transaction   Poposits   Transaction   Poposits   Poposits	3,121.1	3,191.2	3,221.7	3,244.2	3,267.9	3,310.9	3,319.2	3,339.4	3,341.1	3,332.4	3,353.7	3,326.3
	682.4	664.7	665.3	675.1 <sup>r</sup>	665.9	665.7	664.7	661.7	647.8	648.7	684.2	672.7
	2,438.7	2,526.5	2,556.4	2,569.2 <sup>r</sup>	2,602.0	2,645.2	2,654.5	2,677.7	2,693.3	2,683.7	2,669.5	2,653.6
	645.9	668.1	680.3	685.8 <sup>r</sup>	697.4	709.0	702.0	713.4	709.8	713.3	715.1	713.3
	1,792.9	1,858.3	1,876.0	1,883.3	1,904.6	1,936.1	1,952.5	1,964.3	1,983.4	1,970.4	1,954.3	1,940.4
	828.1	857.7	859.9	888.8	939.4	978.3	987.4	973.4	965.0	974.5	987.1	977.0
	290.9	295.3	298.1	308.4	318.6	327.9	325.2	321.2	319.9	325.7	320.5	320.6
24 From others 25 Net due to related foreign offices 26 Other liabilities	537.1	562.5	561.9 <sup>r</sup>	580.4	620.8	650.3	662.2	652.2	645.0	648.7	666.6	656,4
	235.0	187.6	203.8	202.7	226.1	218.5	217.1	214.5	212.7	213.6	209.6	213.7
	298.2	322.1	334.9	344.2	358.6	340.3	342.0	341.0	341.0	343.5	347.0	337.6
27 Total liabilities	4,482.4	4,558.6	4,620.4 <sup>r</sup>	4,680.0°	4,792.0	4,847.9	4,865.7	4,868.3	4,859.8	4,864.1	4,897.4	4,854.6
28 Residual (assets less liabilities) <sup>7</sup>	374.6 <sup>r</sup>	433.7	439.8 <sup>r</sup>	457.8 <sup>r</sup>	424.5	418.8	419.0	410.6	400.6	407.3	414.1	423.2
		Г				Not seasona	ally adjusted					
Assets 29 Bank credit 30 Securities in bank credit 31 U.S. government securities 32 Other securities	4,162.4	4,274.4	4,328.0 <sup>r</sup>	4,385.7 <sup>r</sup>	4,491.8	4,536.6	4,559.8	4,532.3	4,544.6	4,539.9	4,536.2	4,514.4
	1,110.7	1,124.8	1,147.9	1,164.9	1,214.2	1,226.3	1,231.0	1,218.9	1,220.7	1,221.2	1,217.6	1,217.1
	759.5	756.8	766.3	762.3	772.0	792.2	791.7	791.3	792.1	793.1	789.2	791.9
	351.2	368.0	381.6	402.6	442.1	434.1	439.4	427.6	428.6	428.0	428.4	425.1
23 Loans and leases in bank credit <sup>2</sup> 24 Commercial and industrial 25 Real estate 26 Revolving home equity 27 Other	3,051.7	3,149.6 <sup>r</sup>	3,180.1 <sup>r</sup>	3,220.9	3,277.7	3,310.3	3,328.8	3,313.4	3,323.9	3,318.7	3,318.6	3,297.4
	861.8	897.3	900.3 <sup>r</sup>	913.0 <sup>r</sup>	937.0	945.8	943.1	939.3	940.5	937.2	940.7	938.1
	1,234.3	1,274.0 <sup>r</sup>	1,285.0 <sup>r</sup>	1,288.6 <sup>r</sup>	1,294.5	1,316.0	1,326.6	1,324.4	1,326.7	1,332.5	1,323.2	1,315.9
	98.2	97.6	97.8	98.6	97.8	98.0	97.5	96.9	97.2	97.0	97.0	96.9
	1,136.1	1,176.4 <sup>r</sup>	1,187.3 <sup>r</sup>	1,190.1 <sup>r</sup>	1,196.8	1,218.0	1,229.1	1,227.5	1,229.5	1,235.6	1,226.3	1,219.1
38         Consumer           39         Security <sup>1</sup> 40         Other loans and leases           41         Interbank loans           42         Cash assets <sup>4</sup> 43         Other assets <sup>5</sup>	510.2	494.1 <sup>r</sup>	496.2 <sup>r</sup>	500.2 <sup>f</sup>	498.5	501.2	508.0	509.9	510.5	510.9	510.7	509.5
	117.8	129.7	133.2	139.5	159.3	153.8	154.3	153.1	152.2	151.6	158.0	152.4
	327.6	354.5 <sup>r</sup>	365.4 <sup>r</sup>	379.5 <sup>f</sup>	388.3	393.6	396.9	386.7	393.9	386.4	386.0	381.4
	208.7	206.8	199.0	214.2	216.4	226.3	224.8	224.0	222.2	224.4	226.4	220.0
	272.1	239.1	239.3	251.2	246.7	258.9	268.2	274.2	274.8	268.2	307.4	257.5
43 Other assets <sup>5</sup>	293.8	314.0	320.0	324.5	321.9	328.2	329.0	331.2	330.2	328.9	334.1	329.2
	<b>4,880.5</b>	<b>4,976.6</b>	<b>5,028.9</b>	<b>5,117.8</b> <sup>r</sup>	<b>5,219.0</b>	<b>5,291.8</b>	<b>5,323.6</b>	<b>5,304.0</b>	5,314.1	<b>5,303.5</b>	<b>5,346.5</b>	<b>5,263.8</b>
Liabilities 45 Deposits	3,127.2	3,183.7	3,211.5 <sup>r</sup>	3,248.4	3,271.7	3,329.4	3,351.2	3,344.3	3,383.1	3,354.2	3,361.3	3,288.2
	694.4	659.8	651,9	670.4 <sup>r</sup>	661.9	676.4	698.4	673.2	687.2	669.3	700.3	653.0
47 Nontransaction 48 Large time 49 Other 50 Borrowings	2,432.8	2,523.8	2,559.6	2,578.0'	2,609.7	2,653.0	2,652.8	2,671.2	2,695.8	2,684.9	2,661.0	2,635.2
	644.1	664.8	679.4	687.6	701.4	715.2	707.2	711.5	708.8	711.9	712.0	711.4
	1,788.7	1,859.0	1,880.2	1,890.5	1,908.3	1,937.8	1,945.6	1,959.7	1,987.0	1,973.0	1,949.0	1,923.8
	834.5	862.1	852.6	892.0'	935.4	974.1	982.5	979.7	955.6	971.1	1,004.6	992.8
51 From banks in the U.S.	294.4	295.4	294.1	307.2	314.5	328.2	329.3	324.8	318.6	327.0	328.0	326.5
52 From others	540.1	566.6	558.6 <sup>r</sup>	584.8	620.8	645.9	653.2	654.9	637.0	644.2	676.6	666.3
53 Net due to related foreign offices	235.6	189.1	203.6	202.3	223.7	216.6	218.2	216.1	212.6	214.5	211.8	219.7
54 Other liabilities	298.2	321.4	334.9	343.9	358.3	341.6	342.9	341.1	340.7	343.2	346.8	338.4
55 Total liabilities	4,495.6	4,556.3	4,602,6	4,686.6	4,789.0	4,861.7	4,894.8	4,881.3	4,891.9	4,883.0	4,924.5	4,839.1
56 Residual (assets less liabilities) <sup>7</sup>	385.0 <sup>r</sup>	420.3	426.2 <sup>r</sup>	431.2 <sup>r</sup>	430.0	430.0	428.9	422.6	422.2	420.5	422.0	424.7
MEMO 57 Revaluation gains on off-balance-sheet items <sup>8</sup>	94.4	92.9 <sup>r</sup>	96.1°	110.4 <sup>r</sup>	130.7	110.6	117.2	111.6	111.3	110.5	112.4	111.1
58 Revaluation losses on off-balance- sheet items <sup>8</sup>	95.9	90.6	96.4 <sup>r</sup>	110.6 <sup>r</sup>	128.0	109.3	115.0	107.6	107.4	107.3	107.7	107.0

# A16 Domestic Financial Statistics April 1999

## 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities 1—Continued

B. Domestically chartered commercial banks

Billions of dollars

			_	Monthly	averages		_			Wednesd	ay figures	
Account	1998		_	19	98			1999		19	199	
	Jan.	July	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec. <sup>r</sup>	Jan.	Jan. 6	Jan. 13	Jan. 20	Jan. 27
						Seasonall	y adjusted					
Assets  1 Bank credit  2 Securities in bank credit  3 U.S. government securities  4 Other securities  5 Loans and leases in bank credit  6 Commercial and industrial  7 Real estate  8 Revolving home equity  9 Other  10 Consumer  11 Security  12 Other loans and leases  13 Interbank loans  14 Cash assets  15 Other assets  15 Other assets	3,580.5 910.8° 679.3 231.4 2,669.8 642.6 1,206.6 98.0 1,108.6 503.5 61.3 255.8 173.5 227.8 254.7	3,708.4 929.3 669.6 259.6 2,779.1 683.6 1,247.9 97.5 1,150.4 496.0 69.9 281.6 192.3 208.5 278.7	3,753.2 944.1 677.1 266.9 2,809.1' 692.2' 1,257.6' 97.6 1,160.0' 494.5' 73.5 291.2' 186.1 217.8 282.4	3,794.3 <sup>r</sup> 961.6 685.2 276.5 2,832.7 700.5 <sup>r</sup> 1,260.1 <sup>r</sup> 97.9 1,162.3 <sup>r</sup> 497.4 <sup>r</sup> 75.2 299.4 <sup>r</sup> 191.4 219.3 285.5	3,863.6 995.9 694.4 301.5 2,867.7 715.3 1,264.5 96.9 1,167.6 496.7 89.3 302.0 194.9 207.6 283.5	3,908.0 1,002.8 710.5 292.2 2,905.3 723.3 1,287.3 97.3 1,190.0 498.7 87.6 308.4 193.3 216.1 290.5	3,948.0 1,019.1 712.1 307.0 2,928.8 727.1 1,302.3 97.2 1,205.1 501.7 85.4 312.3 187.8 216.0 289.8	3,927.6 997.3 709.7 287.6 2,930.3 729.0 1,303.7 96.7 1,207.0 503.1 84.0 310.6 188.8 228.3 295.1	3,930.1 999.2 711.4 287.9 2,930.8 729.2 1,304.0 96.6 1,207.3 500.2 85.7 311.8 184.2 223.4 292.5	3,931.8 1,001.0 711.8 289.2 2,930.8 728.8 1.308.6 96.6 1.212.0 502.5 81.0 309.8 186.9 220.8 293.5	3.934.3 999.4 708.6 290.7 2,934.9 730.2 1,302.8 96.7 1,206.1 504.3 87.4 310.3 189.3 241.7 297.5	3,916.0 994.6 710.0 284.6 2,921.4 728.5 1,298.1 96.8 1,201.4 504.5 82.1 308.2 192.3 229.5 295.8
16 Total assets <sup>6</sup>	4,180.0 <sup>r</sup>	4,330.4	4,382.6	4,433.3	4,492.0	4,550.2	4,583.8	4,582.0	4,572.4	4,575.1	4,605.2	4,576.1
Tabolities  18 Transaction 19 Nontransaction 20 Large time 21 Other 22 Borrowings 23 From banks in the U.S. 24 From others 25 Net due to related foreign offices 26 Other liabilities	2,844.0 670.7 2,173.4 <sup>r</sup> 383.8 1,789.6 678.5 267.2 411.3 90.8 201.2	2.893.6 651.0 2,242.6 385.1 1,857.5 690.1 269.5 420.5 79.8 228.6	2,915.8 653.1 2,262.7 385.1 1,877.7 694.7 276.1 418.6 <sup>r</sup> 93.6 235.5	2,929.7 659.8° 2,270.0 384.2° 1,885.7 709.9° 278.2 431.7° 105.6 240.2	2,949.1 650.7 2,298.3 397.4 1,900.9 753.9 286.6 467.3 116.9 251.2	2,995.6 653.4 2,342.2 410.3 1,932.0 792.7 294.5 498.2 116.3 237.9	3,011.9 654.0 2,357.9 409.0 1,948.9 808.0 296.7 511.3 114.8 241.2	3,023.2 649.3 2,373.9 412.3 1,961.6 797.7 297.1 500.6 115.3 243.8	3,029.8 636.0 2,393.8 414.1 1,979.7 792.6 298.0 494.6 110.9 244.4	3,014.0 636.9 2,377.2 409.9 1,967.2 800.5 301.5 498.9 114.7 245.2	3,035.3 671.5 2,363.8 411.8 1,952.0 806.0 296.2 509.8 111.0 249.7	3,010.5 660.1 2,350.4 412.1 1,938.3 799.4 296.4 503.0 119.2 240.0
27 Total liabilities	3,814.5	3,892.0	3,939.7°	3,985.4	4,071.1	4,142.5	4,175.9	4,180.0	4,177.8	4,174.3	4,201.9	4,169.0
28 Residual (assets less liabilities) <sup>7</sup>	365.4	438.4	443.0	447.9	420.9	407.6	407.9	401.9	394.7	400.8	403.3	407.1
						Not séasona	ally adjusted					
Assets 29 Bank credit 30 Securities in bank credit 31 U.S. government securities 32 Other securities 33 Loans and leases in bank credit 34 Commercial and industrial 35 Real estate 36 Revolving home equity 37 Other 38 Consumer 39 Security³ 40 Other loans and leases 41 Interbank loans 42 Cash assets⁴ 43 Other assets⁴	3,590.9° 916.6 678.0 238.6 2,674.3 639.4 1,206.7 98.2 1,108.5° 510.2 61.4 256.6 180.4 238.7 252.7	3,699.5 920.9 666.1 254.8 2,778.6 683.5 1,250.3' 97.6 1,152.7' 494.1' 68.3 282.4 185.9 204.2 280.3	3,737.2 931.3 671.5 259.8 2,805.9 687.3 <sup>r</sup> 1,261.3 <sup>r</sup> 97.8 1,163.5 <sup>r</sup> 496.2 <sup>r</sup> 69.8 291.3 <sup>r</sup> 179.1 205.5 283.5	3,786.4 952.8 680.1 272.8 2,833.5' 696.1' 1,265.1' 98.6 1,166.5' 500.2' 72.2 300.0' 185.8 217.1 286.7	3,867.8 991.9 691.3 300.6 2,875.9 713.4 1,271.0 97.8 1,173.2 498.5 89.6 303.4 190.9 211.1 283.6	3,924.0 1,007.7 710.8 296.9 2,916.3 722.2 1,293.7 98.0 1,195.7 501.2 89.1 310.1 199.8 224.5 291.1	3,960.2 • 1,018.4 711.0 307.5 2,941.7 724.2 1,305.8 97.5 1,208.3 508.0 87.2 316.6 197.7 232.7 289.2	3,940.7 1,005.8 709.3 296.5 2,934.9 725.2 1,303.6 96.9 1,206.7 509.9 84.2 311.9 195.8 239.1 292.6	3,955.8 1,009.7 711.2 298.5 2,946.1 727.5 1,305.9 97.2 1,208.8 510.5 84.3 317.9 197.2 239.2 291.8	3,948.1 1,007.8 711.2 296.6 2,940.2 723.8 1,311.6 97.0 1,214.6 510.9 82.6 311.4 197.4 232.2 289.9	3,944.2 1,005.9 707.8 298.1 2.938.3 725.8 1,302.6 97.0 1,205.6 510.7 87.0 312.2 195.8 270.0 294.1	3,918.4 1,001.6 708.8 292.7 2,916.8 723.5 1,295.4 96.9 1,198.5 509.5 82.4 306.1 190.8 224.4 292.2
44 Total assets <sup>6</sup>	4,206.4	4,312.4	4,347.9 <sup>r</sup>	4,418.4	4,495.8	4,581.5	4,621.9	4,610.7	4,626.7	4,610.0	4,646.6	4,568.6
Liabilities  45 Deposits 46 Transaction 47 Nontransaction 48 Large time 49 Other 50 Borrowings 51 From banks in the U.S. 52 From others 53 Net due to related foreign offices 54 Other liabilities	2,852.1 682.8 2,169.3 383.1 1,786.2 684.9 270.6 414.2 86.5 201.2	2,887.9 646.0 2,241.9 384.0 1,857.9 694.4 269.7 424.7 84.9 228.6	2,906.9 639.7 2,267.2 387.4 <sup>1</sup> 1,879.8 687.4 272.1 415.3 <sup>1</sup> 96.7 235.5	2,932.3 654.4 2,277.9 <sup>c</sup> 387.7 <sup>c</sup> 1,890.2 713.0 277.0 436.0 <sup>c</sup> 106.8 240.2	2,953.3 646.7 2,306.6 400.8 1,905.8 749.9 282.6 467.3 115.5 251.2	3,015.1 664.1 2,351.1 415.3 1,935.7 788.5 294.8 493.7 113.7 237.9	3,040.7 687.2 2,353.5 409.4 1,944.1 803.1 300.8 502.3 111.3 241.2	3,030.4 660.9 2,369.5 411.3 1,958.2 804.1 300.8 503.3 112.8 243.8	3,073.5 675.2 2,398.3 412.8 1.985.5 783.2 296.7 486.5 106.5 244.4	3,038.5 657.6 2,381.0 409.5 1,971.4 797.1 302.8 494.4 111.6 245.2	3,046.0 687.6 2,358.4 411.0 1,947.4 823.5 303.7 519.8 109.0 249.7	2,973.5 640.8 2,332.7 410.5 1,922.2 815.2 302.4 512.8 118.3 240.0
55 Total liabilities	3,824.8	3,895.8 <sup>r</sup>	3,926.6 <sup>r</sup>	3,992.3	4,069.9	4,155.3	4,196.4	4,191.0	4,207.6	4,192.4	4,228.2	4,147.0
56 Residual (assets less liabilities) <sup>7</sup>	381.7 <sup>r</sup>	416.7	421.4 <sup>r</sup>	426.0°	425.9	426.1	425.5	419.7	419.1	417.6	418.4	421.7
MEMO 57 Revaluation gains on off-balance-sheet items <sup>8</sup> 58 Revaluation losses on off-balance-sheet items <sup>8</sup> 59 Mortgage-backed securities <sup>9</sup>	49.9 52.7 289.9	51.0 50.4 293.0 <sup>r</sup>	51.9 54.2 301.2 <sup>r</sup>	61.7 65.1 313.7	78.7 80.5 336.0	62.7 65.1 346.3	69.1 70.5 345.9	65.7 65.5 342.0	65.4 65.4 346.0	63.8 64.4 343.7	66.7 65.5 338.6	65.8 65.4 338.7

## 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities -- Continued

C. Large domestically chartered commercial banks

Billions of dollars

Assert   2,199.7   2,275.7   2,365.7   2,356.8   2,392.6   2,417.7   2,417					Monthly	averages					Wednesd	ay figures	
Assets   2,199.7   2,275.7   2,306.7   2,336.8   2,392.6   2,412.7   2,413.5   2,499.3   2,417.3   2,421.7   2,306.7   2,306.8   2,306.8   2,306.8   2,306.8   2,417.3   2,417.3   2,421.7   2,306.8   2,306	Account	1998			19	98			1999		19	99	
Abort		Jan.	July	Aug.	Sept.	Oct. <sup>r</sup>	Nov. <sup>r</sup>	Dec. <sup>r</sup>	Jan.	Jan. 6	Jan. 13	Jan. 20	Jan. 27
Bank credit   2,199.7   2,275.9   2,305.7   2,305.8   2,092.6   2,417.2   2,443.7   2,415.5   2,409.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,421.7   2,405.3   2,421.7   2,405.3   2,421.7   2,405.3   2,421.7   2,425.3   2,421.7   2,405.3   2,421.7							Seasonall	y adjusted	,		,		
Bank credit   2,199.7   2,275.9   2,305.7   2,305.8   2,092.6   2,417.2   2,443.7   2,415.5   2,409.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,417.3   2,421.7   2,405.3   2,421.7   2,405.3   2,421.7   2,405.3   2,421.7   2,405.3   2,421.7   2,425.3   2,421.7   2,405.3   2,421.7	Assets						_						
3			2,275.0 <sup>r</sup>	2,305.7	2,336.8 <sup>r</sup>			2,434.7	2,413.5	2,409.3	2,417.3	2,421.7	2,405.7
4 Träding account 337-47 3351-7 33401 34019 3409 310. 366.8 352.7 349.1 347.7 348.1 349.6 00 Oher securities 147.0 166.1 170.9 170.2 200.8 189.3 201.1 180.3 179.8 182.0 183.7 171.7													555.3
5													377.3
6 Other securities													27.6
7 Trading account 696 81.1 83.1 89.5 109.1 92.8 101.7 82.1 80.4 82.7 86.0 81.8 81.8 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5													
8 Investment account	7 Trading account												
9 State and local government   22.5   22.4   22.6   23.2   23.9   24.6   25.0   25.0   25.2   24.9   25.0   10   10   10   10   10   10   10	8 Investment account												96.9
Other   S49   G2.6   G5.1   G6.6   G7.8   T.19   T.44   T.32   T.41   T.44   T.72													25.0
11   Loans and leases in bank credin   1,686   1,773.3   1,778.9   1,879.6   1,819.8   1,835.0   1,878   1,855.0   1,897.2   1,862.8   1,850.1   1,878   1,815.0   1,897.2   1,862.8   1,850.1   1,878   1,815.0   1,897.2   1,862.8   1,850.1   1,878   1,815.0   1,897.2   1,862.8   1,850.1   1,878   1,875.0   1,897.2   1,862.8   1,850.1   1,878   1,875.0   1,878   1,875.0   1,897.2   1,862.8   1,850.1   1,878   1,875.0   1,878   1,875.0   1,879.2   1,862.8   1,850.1   1,878   1,875.0   1,879.2   1,862.8   1,850.1   1,878   1,875.0   1,879.2   1,862.8   1,850.1   1,878   1,875.0   1,879.2   1,862.8   1,850.1   1,878   1,875.0   1,879.2   1,862.8   1,850.1   1,878   1,875.0   1,879.2   1,862.8   1,850.1   1,878   1,875.0   1,879.2   1,862.8   1,850.1   1,878   1,875.0   1,879.2   1,862.8   1,879.2   1,878.2   1,878.2   1,879.2													72.0
13   Bankers acceptances	11 Loans and leases in bank credit*												1,850.4
14													531.2
15   Real estate													1.2
The transfer of the content of the													
17													
18													629.8
Security													307.1
Pederal funds sold to and repurchase agreements with thorser-dealers with broker-dealers with broker-dealers with broker-dealers with broker-dealers with broker-dealers with broker-dealers with order with the first part of the													76.3
with broker-dealers 396 44.9 48.0 50.1 64.7 63.6 62.8 61.7 61.9 59.7 63.1 61.2 10 ther 164.4 190.0 194.4 18.8 18.0 17.3 16.3 16.2 174.4 15.1 18.1 16.1 12.2 State and local government 11.6 11.1 11.5 11.5 11.5 11.6 11.9 11.6 11.6 11.5 11.8 11.6 11.2 11.2 Agricultural 9.9 10.0 10.0 10.0 10.0 9.9 10.0 10.1 10.2 10.2 10.2 10.2 10.2 10.2					1		1						
21					l		l						
22   State and local government   11.6   11.1   11.5   11.5   11.6   11.9   11.6   11.6   11.5   11.8   11.6   11.2   11.5   11.8   11.6   11.5   11.6   11.6   11.5   11.6   11.6   11.5   11.6   11.5   11.6   11.5   1													61.2
repurchase agreements with others	21 Other												
repurchase agreements with others	23 Agricultural												10.2
repurchase agreements with others	24 Federal funds sold to and	,,,	10.0	10.0	10.0	/./	10.0	10.1	10.2	10.2	10.2	10.2	10.2
25 All other loans							1						
26 Lease-financing receivables 85.5 96.3 98.7 100.0 101.4 102.8 105.7 108.2 107.2 107.5 107.7 108.2 27 Interbank loans 122.4 124.0 115.7 117.6 119.0 119.3 120.6 122.0 117.4 120.7 122.3 124.0 122.8 Federal funds sold to and repurchase agreements with commercial banks 81.2 70.1 62.5 64.2 73.6 75.3 73.7 77.9 74.4 76.9 79.5 78. 29 Other 41.2 53.8 53.2 53.4 45.4 44.0 46.9 44.1 43.0 43.8 42.8 46. 30 Cash assets 164.7 143.9 151.3 151.3 141.0 147.9 148.3 158.4 155.5 152.3 169.6 158. 31 Other assets 196.7 215.8 219.3 219.9 215.9 218.2 216.4 220.6 217.1 217.4 223.3 222. 32 Total assets 1,612.5 1,620.6 1,628.3 1,628.7 1,628.7 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,638. 34.0 Transaction 386.6 367.9 369.4 373.1 366.7 368.3 367.4 363.0 355.6 355.3 380.9 366. 35 Nontransaction 1,225.9 1,252.7 1,258.9 1,255.6 1,273.5 1,298.5 1,305.8 1,381.1 1,321.0 1,308.6 1,301.7 1,292. 37 Other 1,006.1 1,038.6 1,043.9 1,045.7 1,052.0 1,068.1 1,075.6 1,078.1 1,080.0 1,006.1 1,038.6 1,043.9 1,045.7 1,052.0 1,068.1 1,075.6 1,078.1 1,080.0 1,006.1 1,038.6 1,043.9 1,045.7 1,052.0 1,068.1 1,075.6 1,078.1 1,080.0 1,008.1 1,072.3 1,067.2 31.0 1,008.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,064.0 1,046.1 1,038.6 1,043.9 1,045.7 1,052.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1,072.3 1,062.0 1,068.1 1,075.6 1,078.1 1,080.0 1,080.8 1													12.1
27   Interbank loans													96.5
28 Federal funds sold to and repurchase agreements with commercial banks													
repurchase agreements with commercial banks		122.4	124.0	115./	117.6	119.0	119.3	120.6	122.0	117.4	120.7	122.3	124.3
Commercial banks							1	i					
99 Other 41.2 53.8 53.2 53.4 45.4 44.0 46.9 44.1 43.0 43.8 42.8 46.30 Cash assets <sup>4</sup> 164.7 143.9 151.3 151.3 141.0 147.9 148.3 158.4 155.5 152.3 169.6 158.31 Other assets <sup>5</sup> 196.7 215.8 219.3 219.9 215.9 218.2 216.4 220.6 217.1 217.4 223.3 222.  32 Total assets <sup>6</sup> 2,645.9 2,720.6 2,754.6 2,788.0 2,880.6 2,860.3 2,882.1 2,876.6 2,861.4 2,869.7 2,899.1 2,873.  Liabilities 33 Deposits 1,612.5 1,620.6 1,628.3 1,628.7 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,663.8 1,682.6 34 Transaction 386.6 367.9 369.4 373.1 366.7 368.3 367.4 363.0 355.6 355.3 380.9 366.3 55.8 1,252.7 1,258.9 1,255.6 1,273.5 1,298.5 1,305.8 1,308.1 1,321.0 1,308.6 1,301.7 1,292.36 Large time 219.8 219.8 216.2 215.0 29.9 215.5 230.4 230.2 230.0 232.0 227.7 229.4 229.3 7 Other 1,006.1 1,036.6 1,043.9 1,045.7 1,052.0 1,068.1 1,075.6 1,078.1 1,089.0 1,080.8 1,072.3 1,092.3 1,092.5 1,093.5		81.2 <sup>r</sup>	70.1	62.5	64.2	73.6	75.3	73.7	77.9	74.4	76.9	79.5	78.5
30 Cash assets <sup>4</sup> 164.7' 143.9' 151.3' 151.3 141.0 147.9 148.3 158.4 155.5 152.3 169.6 158.3 1 Other assets <sup>5</sup> 196.7 215.8' 219.3 219.9' 215.9 218.2 216.4 220.6 217.1 217.4 223.3 222.  32 Total assets <sup>6</sup> 2,645.9' 2,720.6' 2,754.6' 2,788.0' 2,830.6 2,860.3 2,882.1 2,876.6 2,861.4 2,869.7 2,899.1 2,873.  Liabilities  33 Deposits 1,612.5' 1,620.6' 1,628.3' 1,628.7' 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,663.8 1,682.6 1,658.34 Transaction 386.6' 367.9' 369.4' 373.1 366.7 368.3 367.4 363.0 355.6 355.3 380.9 366.35 Nontransaction 1,225.9' 1,252.7' 1,258.9' 1,255.6' 1,273.5 1,298.5 1,305.8 1,308.1 1,321.0 1,308.6 1,301.7 1,292.3 1,242.2 1,242.2 1,243.2 1,243.2 1,243.2 1,243.2 1,243.2 1,243.2 1,243.2 1,243.2 1,243.2 1,243.2 1,243.2 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,243.2 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,243.2 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,243.2 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,243.2 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,243.2 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617.3 1,244.6' 579.6	29 Other	41.2	53.8	53.2	53.4	45.4	44.0	46.9	44.1	43.0	43.8		46.1
22 Total assets <sup>6</sup> 2,645.9 <sup>c</sup> 2,720.6 <sup>c</sup> 2,754.6 <sup>c</sup> 2,788.0 <sup>c</sup> 2,830.6 2,860.3 2,882.1 2,876.6 2,861.4 2,869.7 2,899.1 2,873.  Liabilities 33 Deposits 1,612.5 <sup>c</sup> 1,620.6 <sup>c</sup> 1,628.3 <sup>c</sup> 1,628.7 <sup>c</sup> 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,63.8 1,682.6 1,658.3 34 Transaction 386.6 <sup>c</sup> 367.9 <sup>c</sup> 369.4 <sup>c</sup> 373.1 366.7 368.3 367.4 363.0 355.6 355.3 380.9 366.3 35 Nontransaction 1,225.9 <sup>c</sup> 1,255.0 <sup>c</sup> 1,255.0 <sup>c</sup> 1,273.5 1,298.5 1,305.8 1,308.1 1,321.0 1,308.6 1,301.7 1,292. 37 Other 1,006.1 <sup>c</sup> 1,036.6 <sup>c</sup> 1,043.9 <sup>c</sup> 1,043.9 <sup>c</sup> 1,045.7 <sup>c</sup> 1,052.0 1,068.1 1,075.6 1,078.1 1,089.0 1,080.8 1,072.3 1,062.6 39 From banks in the U.S. 198.3 190.5 197.6 <sup>c</sup> 198.4 203.5 207.7 209.0 214.5 212.3 219.1 213.2 214.6 213.2 214.6 213.2 214.8 213.7 218.8 209.4	30 Cash assets <sup>4</sup>	164.7°											158.6
Liabilities         1,612.5'         1,620.6'         1,628.3'         1,628.7'         1,640.2         1,666.8         1,673.2         1,671.2         1,676.6         1,663.8         1,682.6         1,658.3           34 Transaction         386.6'         367.9'         369.4'         373.1         366.7         368.3         367.4         363.0         355.6         355.3         380.9         366           35 Nontransaction         1,225.9'         1,258.9'         1,258.6'         1,273.5         1,208.5'         1,305.8         1,301.1         1,308.6         1,301.7         1,229.2           36 Large time         219.8'         216.2'         215.0'         209.9'         221.5         230.4         230.2         230.0         232.0         227.7         229.4         229.9'           37 Other         1,006.1'         1,036.6'         1,043.7'         1,045.7'         1,052.0         1,068.1         1,075.6         1,078.1         1,089.0         1,080.8         1,072.3         1,052.0         1,068.1         1,075.6         1,078.1         1,089.0         1,080.8         1,072.3         1,052.0         1,068.1         1,075.6         1,078.1         1,089.0         1,080.8         1,072.3         1,052.0         1,068.1 <td< td=""><td>31 Other assets<sup>5</sup></td><td>196.7</td><td>215.8<sup>r</sup></td><td>219.3</td><td>219.9</td><td>215.9</td><td>218.2</td><td>216.4</td><td>220.6</td><td>217.1</td><td>217.4</td><td>223.3</td><td>222.4</td></td<>	31 Other assets <sup>5</sup>	196.7	215.8 <sup>r</sup>	219.3	219.9	215.9	218.2	216.4	220.6	217.1	217.4	223.3	222.4
33 Deposits 1,612.5' 1,620.6' 1,628.3' 1,628.7' 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,663.8 1,682.6 1,638.3 1,682.6 1,638.3 1,642.3 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,663.8 1,682.6 1,638.3 1,642.	32 Total assets <sup>6</sup>	2,645.9 <sup>r</sup>	2,720.6°	2,754.6°	2,788.0 <sup>r</sup>	2,830.6	2,860.3	2,882.1	2,876.6	2,861.4	2,869.7	2,899.1	2,873.5
33 Deposits 1,612.5' 1,620.6' 1,628.3' 1,628.7' 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,663.8 1,682.6 1,638.3 1,682.6 1,638.3 1,642.3 1,640.2 1,666.8 1,673.2 1,671.2 1,676.6 1,663.8 1,682.6 1,638.3 1,642.	Liabilities												
34         Transaction         386.6'         367.9'         369.4'         373.1         366.7         368.3         367.4         363.0         355.6         355.3         380.9         366           35         Nontransaction         1,225.9'         1,252.9'         1,255.6'         1,273.5         1,298.5         1,301.8         1,321.0         1,308.6         1,301.7         1,292           36         Large time         219.8'         216.2'         215.0'         209.9'         221.5         230.4         230.2         230.0         232.0         227.7         229.4         229.7           37         Other         1,006.1'         1,036.6'         1,043.9'         1,045.7'         1,052.0         1,068.1         1,075.6         1,078.1         1,089.0         1,080.8         1,072.3         1,062.0           38         Borrowings         528.9'         526.7'         531.9'         544.6'         579.6         610.4         621.8         614.6         605.4         617.9         623.2         617           39         From banks in the U.S.         198.3         190.5         197.6'         198.4         203.5         207.7         209.0         214.5         212.3         219.1         213.2 </td <td></td> <td>1,612.5<sup>r</sup></td> <td>1,620.6<sup>r</sup></td> <td>1,628.3<sup>r</sup></td> <td>1,628.7<sup>r</sup></td> <td>1,640.2</td> <td>1,666.8</td> <td>1,673.2</td> <td>1,671.2</td> <td>1,676.6</td> <td>1,663.8</td> <td>1,682.6</td> <td>1,658.3</td>		1,612.5 <sup>r</sup>	1,620.6 <sup>r</sup>	1,628.3 <sup>r</sup>	1,628.7 <sup>r</sup>	1,640.2	1,666.8	1,673.2	1,671.2	1,676.6	1,663.8	1,682.6	1,658.3
36         Large time         219.8°         216.2°         215.0°         209.9°         221.5         230.4         230.2         230.0         232.0         227.7         229.4         229.4           37         Other         1,006.1°         1,036.6°         1,043.9°         1,045.7°         1,052.0         1,068.1         1,075.6         1,078.1         1,089.0         1,080.8         1,072.3         1,062           38         Borrowings         528.9°         526.7°         531.9°         544.6°         579.6         610.4         621.8         614.6         605.4         617.9         623.2         617           39         From banks in the U.S.         198.3         190.5         197.6°         198.4         203.5         207.7         209.0         214.5         212.3         219.1         213.2         214.4           40         From others         330.6°         336.2°         334.3°         346.2         376.1         402.7         412.8         400.1         393.1         398.8         409.9         402.4           41         Net due to related foreign offices         86.5         76.1         89.9         101.8         112.3         112.7         111.2         112.3         107.4	34 Transaction	386.6 <sup>r</sup>	367.9 <sup>r</sup>	369.4 <sup>r</sup>	373.1	366.7	368.3	367.4	363.0	355.6	355.3	380.9	366.1
37         Other         1,006.1°         1,036.6°         1,043.9°         1,045.7°         1,052.0         1,068.1         1,075.6         1,078.1         1,089.0         1,080.8         1,072.3         1,062.3           38         Borrowings         528.9°         526.7°         531.9°         544.6°         579.6         610.4         621.8         614.6         605.4         617.9         623.2         617.           39         From banks in the U.S.         198.3         190.5         197.6°         198.4         203.5         207.7         209.0         214.5         212.3         219.1         213.2         214.           40         From others         330.6°         336.2°         334.3°         346.2         376.1         402.7         412.8         400.1         393.1         398.8         409.9         402.           41         Net due to related foreign offices         86.5         76.1         89.9         101.8         112.3         112.7         111.2         112.3         107.4         111.6         108.3         116.           42         Other liabilities         173.7         198.5         204.9         209.6         219.9         205.8         209.2         212.7         212.8 <td></td> <td>1,292.2</td>													1,292.2
38 Borrowings 528.9 526.7 531.9 544.6 579.6 610.4 621.8 614.6 605.4 617.9 623.2 617. 39 From banks in the U.S. 198.5 197.6 198.4 203.5 207.7 209.0 214.5 212.3 219.1 213.2 214. 40 From others 330.6 336.2 334.3 346.2 376.1 402.7 412.8 400.1 393.1 398.8 409.9 402. 41 Net due to related foreign offices 86.5 76.1 89.9 101.8 112.3 112.7 111.2 112.3 107.4 111.6 108.3 116.4 20 ther liabilities 173.7 198.5 204.9 209.6 219.9 205.8 209.2 212.7 212.8 213.7 218.8 209.													229.7
39 From banks in the U.S.     198.3     199.5     197.6'     198.4     203.5     207.7     209.0     214.5     212.3     219.1     213.2     214.0       40 From others     330.6'     336.2'     334.3'     346.2     376.1     402.7     412.8     400.1     393.1     398.8     409.9     402.4       41 Net due to related foreign offices     86.5     76.1     89.9     101.8     112.3     112.7     111.2     112.3     107.4     111.6     108.3     116       42 Other liabilities     173.7     198.5     204.9     209.6     219.9     205.8     209.2     212.7     212.8     213.7     218.8     209													1,062.5
40 From others 330.6' 336.2' 334.3' 346.2 376.1 402.7 412.8 400.1 393.1 398.8 409.9 402.4 Net due to related foreign offices 86.5 76.1 89.9 101.8 112.3 112.7 111.2 112.3 107.4 111.6 108.3 116.4 Other liabilities 173.7 198.5 204.9 209.6 219.9 205.8 209.2 212.7 212.8 213.7 218.8 209.													
41 Net due to related foreign offices 86.5 76.1 89.9 101.8 112.3 112.7 111.2 112.3 107.4 111.6 108.3 116.4 Other liabilities 173.7 198.5 204.9 209.6 219.9 205.8 209.2 212.7 212.8 213.7 218.8 209													402.6
42 Other liabilities													116.4
43 Total liabilities													209.1
	43 Total liabilities	2,401.6 <sup>r</sup>	2,422.0°	2,454.9 <sup>r</sup>	2,484.8 <sup>r</sup>	2,552.0	2,595.7	2,615,4	2,610.7	2,602.3	2,607.0	2,632.9	2,601.3
44 Residual (assets less liabilities) 7	44 Residual (assets less liabilities)7	244.3 <sup>r</sup>	298.7°	299.7	303.2	278.6	264.6	266.7	266,0	259.1	262.7	266.2	272.1

# A18 Domestic Financial Statistics April 1999

# 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities —Continued

C. Large domestically chartered commercial banks-Continued

	_			Monthly	averages					Wednesda	ay figures	
Account	1998			199	98			1999		19	99	
	Jan.	July	Aug.	Sept.	Oct. <sup>f</sup>	Nov. <sup>r</sup>	Dec.	Jan.	Jan. 6	Jan. 13	Jan. 20	Jan. 27
			,			Not seasona	lly adjusted					
Assets   Assets   Assets   Assets   Assets   Assets   Asset   Asset	2,215.3 <sup>r</sup> 521.0 <sup>r</sup> 366.6 <sup>r</sup> 28.2 338.4 <sup>r</sup> 225.5 <sup>r</sup> 113.0 28.9 55.7 <sup>r</sup> 28.3 154.4 76.3 78.1 22.5 55.6	2,268.0' 514.6' 353.3' 19.9 333.4' 219.0' 114.4' 30.4 52.1 31.9 161.3 77.0 84.3 22.3 62.1	2,290.2' 520.6' 356.6' 21.2 335.4' 225.8' 109.7 29.0 48.9 31.8 164.0 76.8 87.2 22.7 64.6	2,326.7' 539.1' 363.2' 21.9 341.3' 236.4' 104.9' 27.7 44.2 33.0 175.9 86.4 89.4 23.2 66.2	2,396.9 571.7 371.1 21.9 349.1 255.2 93.9 26.1 37.2 30.6 200.7 108.8 91.9 24.0 67.9	2,429,4 577,8 383,3 24,6 358,7 258,2 100,6 27,2 38,2 35,2 194,5 96,8 97,7 24,6 73,1	2,446.5 579.0 377.2 23.6 353.6 353.5 100.1 26.6 38.4 35.2 201.8 101.5 100.4 25.0 75.4	2,432.2 565.7 376.3 25.5 350.8 250.0 100.8 27.4 37.5 35.9 189.4 90.3 99.1 24.9 74.2	2,442.1 567.7 376.7 25.6 351.1 253.6 97.5 25.9 36.6 34.9 191.1 90.2 100.9 25.2 75.6	2,438.1 566.0 376.4 27.3 349.0 251.4 97.7 26.2 36.1 35.4 189.6 89.2 100.4 24.8 75.6	2,436.4 566.3 375.3 26.8 348.5 246.2 102.4 28.7 37.8 35.9 191.0 92.5 98.5 24.9 73.6	2,413.0 563.2 377.2 26.5 350.7 247.3 103.4 28.2 38.7 36.5 186.0 88.6 97.3 24.9 72.4
60 Loans and leases in bank credit <sup>2</sup> 61 Commercial and industrial 62 Bankers acceptances 63 Other 64 Real estate 65 Revolving home equity 66 Other 67 Commercial 68 Consumer 69 Security 70 Federal funds sold to and repurchase agreements	1,694.37 463.07 1.2 461.87 676.77 70.1 369.97 236.67 306.87 56.1	1,753,4° 497,7 1,2 496,5 689,2° 68,9 383,4° 236,9° 294,5° 62,3	1,769.5° 499.6° 1.3 498.3 691.4° 68.9 384.9° 237.6° 297.4° 63.7	1,787.6' 506.0 1.3 504.7' 689.1' 69.4 380.8' 239.0' 300.8' 65.8	1,825.2 521.3 1.3 520.0 690.5 68.6 382.8 239.0 300.5 83.1	1,851.7 528.0 1.3 526.6 703.2 68.4 393.9 240.9 301.5 82.3	1,867.5 527.3 1.3 526.0 708.9 67.8 398.4 242.6 305.7 80.8	1,866.5 528.4 1.3 527.2 706.2 67.7 393.9 244.7 310.6 78.2	1,874.3 530.3 1.3 529.1 708.5 67.7 397.3 243.5 310.3 77.9	1,872.1 527.2 1.3 525.9 714.8 67.7 403.0 244.1 311.6 76.5	1,870.1 528.7 1.3 527.5 705.2 67.7 392.9 244.6 311.3 81.1	1,849.9 527.1 1.2 525.9 697.8 67.7 384.8 245.3 310.0 76.6
with broker-dealers 71 Other 72 State and local government 73 Agricultural 74 Federal funds sold to and	39.6 16.4 11.5 9.9	43.9 18.5 11.1 10.3	45.1 18.6 11.5 10.3	47.6 18.2 11.6 10.3	65.2 17.9 11.7 10.1	65.0 17.3 12.0 10.1	63.7 17.1 11.7 10.1	62.0 16.2 11.6 10.1	60.8 17.2 11.5 10.4	61.2 15.2 11.8 10.2	62.7 18.3 11.6 10.0	61.3 15.3 11.5 10.0
repurchase agreements with others 75 All other loans 76 Lease-financing receivables 77 Interbank loans 78 Federal funds sold to and repurchase agreements	8.0 75.0 87.3 127.8	8.9 83.5 95.8 122.9	10.0 88.2 97.5 113.2 <sup>r</sup>	12.4 92.7 98.9 116.4	12.9 94.1 101.0 116.2	12.4 99.4 102.8 121.4	16.2 100.6 106.0 125.7	12.6 98.2 110.5 127.3	13.9 101.8 109.5 124.1	12.6 97.5 110.0 127.2	12.3 99.7 110.2 128.7	12.1 94.5 110.3 126.7
with commercial banks 79 Other 80 Cash assets <sup>4</sup> 81 Other assets <sup>5</sup> 82 Total assets <sup>6</sup>	85.1 42.7 174.5 196.7	69.4 53.5 140.2 215.8 <sup>r</sup>	60.7 52.5 141.2 <sup>r</sup> 219.3	63.7 52.7 149.8 219.9	71.0 45.2 144.6 215.9	77.0 44.4 154.1 218.2	77.5 48.2 161.7 216.4	81.7 45.5 168.1 220.6	79.5 44.6 167.0 217.1	81.9 45.3 162.8 217.4	83.8 44.8 194.3 223.3 <b>2,945.1</b>	79.5 47.2 156.6 222.4 <b>2,881.4</b>
Liabilities   S   Liabilities	2,677.1° 1,622.0' 396.3' 1,225.6' 1,205.6' 534.4' 201.3 333.1' 82.3 173.7	2,708.9 <sup>c</sup> 1.620.6 <sup>c</sup> 365.7 <sup>c</sup> 1,254.9 <sup>c</sup> 215.0 1,039.8 <sup>c</sup> 531.0 <sup>c</sup> 190.5 340.5 <sup>c</sup> 81.2 198.5	1,625.9 <sup>c</sup> 360.3 <sup>c</sup> 1,265.7 <sup>c</sup> 1,74 <sup>c</sup> 1,048.3 <sup>c</sup> 523.2 <sup>c</sup> 192.7 330.5 <sup>c</sup> 92.9 204.9	1,634.8 <sup>r</sup> 370.0 1,264.7 <sup>r</sup> 213.3 1,051.4 <sup>r</sup> 544.4 <sup>r</sup> 196.1 <sup>r</sup> 348.3 103.0 209.6	2,835.7 1,646.5 364.5 1,282.0 224.9 1,057.1 575.1 200.0 375.1 110.9 219.9	2,885.0 1,680.1 375.0 1,305.1 235.4 1,069.7 606.8 209.1 397.7 110.1 205.8	1,694.7 390.5 1,304.2 230.7 1,073.5 616.2 213.1 403.1 107.7 209.2	1,679.9 372.5 1,307.5 229.0 1,078.5 620.2 217.7 402.4 109.8 212.7	2,912.7 1,711.1 380.8 1,330.2 230.7 1,099.6 601.0 213.3 387.8 103.0 212.8	1,686.0 370.7 1,315.4 227.3 1,088.0 614.5 220.3 394.2 108.5 213.7	1,694.6 344.7 1,299.9 228.6 1,071.3 637.4 219.1 418.2 106.3 218.8	1,636.3 356.5 1,279.8 228.1 1,051.7 629.1 218.9 410.2 115.5 209.1
93 Total liabilities	2,412.4 <sup>r</sup>	2,431.3 <sup>r</sup>	2,447.0°	2,491.8°	2,552.4	2,602.7	2,627.8	2,622.5	2,627.9	2,622.7	2,657.1	2,590.1
94 Residual (assets less liabilities)?  MEMO 95 Revaluation gains on off-balance- sheet items. 96 Revaluation losses on off-balance- sheet items. 97 Mortgage-backed securities. 98 Pass-through securities. 99 CMOs, REMICs, and other mortgage-backed securities. 100 Net unrealized gains (losses) on available-for-sale securities.	264.7 <sup>f</sup> 49.9 52.7 244.8 <sup>f</sup> 164.2 <sup>f</sup> 80.6 <sup>f</sup>	51.0 50.4 242.9 158.0 84.9	51.9 54.2 249.6 <sup>c</sup> 161.3 <sup>r</sup> 88.3 <sup>r</sup>	283.1 <sup>t</sup> 61.7 65.1 260.5 <sup>r</sup> 167.3 <sup>r</sup> 93.2 <sup>r</sup>	283.4 78.7 80.5 280.7 189.5 91.1	62.7 65.1 287.0 196.6 90.3	284.5 69.1 70.5 284.0 194.8 89.2	288.0 65.7 65.5 279.6 191.9 87.7	284.8 65.4 65.4 283.3 194.5 88.8	285.0 63.8 64.4 281.1 192.7 88.4	288.0 66.7 65.5 276.2 189.4 86.8	291.3 65.8 65.4 276.6 191.1 85.4
available-for-sale securities"  101 Offshore credit to U.S. residents  Footpotes appear on p. A21	3.0 35.5	3.5 35.3	3.1 35.6	3.7 36.8	4,4 38.5	3.1 39.1	3.0 38.5	3.0 38.9	3.2 39.3	3.2 39.0	2.8 39.0	2.8 38.2

### 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities<sup>1</sup>—Continued

D. Small domestically chartered commercial banks

Billions of dollars

Account 1998   1998'   1999'   1999	Jan 27
Jan.   July   Aug.   Sept.   Oct   Nov.   Dec.   Jan.   Jan. 6   Jan. 13   Jan. 20	1.510.3 439.3 332.8
Assert    Bank credit   1.380.8   1.433.4   1.447.5   1.457.5   1.471.0   1.495.3   1.513.2   1.514.0   1.520.8   1.514.5   1.512.6     2. Securities in bank credit   397.2   407.6   411.8   414.5   423.1   433.3   441.4   441.6   444.9   444.0   444.0   444.0   444.0     3. U. Sporrmment securities   397.2   407.6   411.8   414.5   423.1   433.3   441.4   441.6   444.9   444.0   444.0   444.0     4. Other securities   84.4   93.5   96.1   97.3   100.7   103.0   100.0   107.2   107.1   108.1   107.2   107.1     5. Lours and leases in bank credit   983.6   1025.8   1385.7   1,043.0   11.47.9   109.21   107.19   107.25   1,075.9   1,071.6   107.2     6. Commercial and industrial   177.2   186.0   189.2   191.6   193.7   195.5   197.4   197.6   197.9   197.6   198.0     7. Real estate   53.0   561.1   560.5   574.3   578.1   584.5   500.0   600.7   600.9   599.7   600.6     8. Revolving borne equity   28.2   28.8   29.0	1.510.3 439.3 332.8
Asserts   1,380.8   1,433.4   1,447.5   1,457.5   1,471.0   1,495.3   1,513.2   1,514.0   1,520.8   1,514.5   1,512.6     Bank credit   397.2   407.4   411.8   414.5   414.5   414.1   433.3   441.4   441.6   444.9   445.0   445.0   440.5     3	439.3 332.8
1 Bank credit	439.3 332.8
Lubilities   1,231.5   1,273.0   1,287.5   1,301.0   1,308.8   1,328.8   1,338.7   1,352.1   1,353.2   1,350.2   1,352.7   18 Transaction   284.1   283.1   283.7   286.6   284.0   285.0   286.6   286.3   280.4   281.6   290.5   19 Nontransaction   947.5   989.9   1,003.8   1,014.4   1,024.8   1,043.8   1,052.1   1,065.8   1,072.8   1,068.6   1,062.1   1,062.1   1,065.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.6   1,062.1   1,067.8   1,072.8   1,068.8   1,072.8   1,068.6   1,062.1   1,062.1   1,067.8	106.5 1,071.1 197.3 600.8 29.2 571.6 197.4 5.8 69.8 67.8 70.9 73.4
17   Deposits   1.231.5   1.273.0   1.287.5   1.301.0   1.308.8   1.328.8   1.338.7   1.352.1   1.353.2   1.350.2   1.352.7   1.8 Transaction   284.1   283.1   283.7   286.6   284.0   285.0   286.6   286.3   280.4   281.6   290.5   19   Nontransaction   947.5   989.9   1.003.8   1.014.4   1.024.8   1.043.8   1.052.1   1.065.8   1.072.8   1.066.6   1.062.1   1.062.1   1.062.8   1.072.8   1.086.6   1.062.1   1.082.1   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.22.4   1.082.2   1.082.	1,702.6
28 Residual (assets less liabilities) <sup>7</sup>   121.1   139.7   143.2   144.6   142.3   143.0   141.1   136.0   135.6   138.1   137.1    Not seasonally adjusted  Assets  29 Bank credit   1.375.6   1.431.5   1.447.0   1.459.7   1.470.8   1.494.6   1.513.7   1.508.6   1.513.7   1.510.0   1.507.8   30 Securities in bank credit   395.6   406.3   410.7   413.8   420.1   430.0   439.4   440.1   442.0   441.9   439.6	1,352.2 294.0 1,058.2 182.4 875.8 181.9 81.5 100.4 2.8 30.8
Assets 29 Bank credit	1,567.7
Assets 29 Bank credit	134.9
29 Bank credit	
32 Other securities   842   93.5   95.8   96.9   99.9   102.5   105.6   107.1   107.5   107.0   107.0     33 Loans and leases in bank credit   980.0   1.025.2   1.036.3   1.045.9   1.050.7   1.064.6   1.074.3   1.068.4   1.071.8   1.068.1   1.068.2     34 Commercial and industrial   176.4   185.8   187.7   190.1   192.0   194.3   196.8   96.8   197.2   196.6   197.0     35 Real estate   530.0   561.1   569.9   576.0   580.5   590.5   596.9   597.4   597.4   596.8   597.4     36 Revolving home equity   28.1   28.7   28.9   29.2   29.1   29.6   29.6   29.3   29.4   29.3   29.3     37 Other   501.9   532.4   541.0   546.8   551.4   560.9   567.3   568.1   568.0   567.5   568.1     38 Consumer   203.4   199.6   198.8   199.4   198.0   199.7   202.2   199.4   200.1   199.3   199.4     39 Security   5.3   60   61   63   65   67   64   60   63   61   60     40 Other loans and leases   64.9   72.7   73.8   74.2   73.7   73.4   72.0   68.9   70.7   69.3   68.5     41 Interbank loans   52.5   63.0   65.9   69.5   74.8   78.4   72.0   68.5   73.1   70.2   67.1     42 Cash assets   64.2   64.0   64.3   67.2   66.8   67.8   72.9   72.8   72.0   74.8   72.4   70.8	1,505.4 438.4 331.7 106.7 1,067.0 1,067.0 196.4 597.6 29.2 568.3 199.5 5.8 67.8 64.1 67.8 69.8
44 Total assets <sup>6</sup>	1,687.2
Liabilities 45 Deposits 1,230.1 1,267.4 1,281.0 1,297.6 1,306.8 1,335.1 1,346.0 1,350.4 1,362.4 1,352.5 1,351.4 46 Transaction 286.4 280.4 279.5 284.4 282.2 289.1 296.7 288.4 294.4 286.9 292.9 47 Nontransaction 48 Large time 164.0 168.9 170.1 174.3 175.9 179.9 178.7 182.3 182.1 182.2 182.4 49 Other 779.7 818.1 831.5 838.8 848.8 866.1 870.6 879.7 885.9 883.4 876.2 50 Borrowings 150.5 163.4 164.2 168.6 174.7 181.8 186.9 183.9 182.2 182.6 180.2 15 1 From banks in the U.S. 69.3 79.2 79.4 81.0 82.6 85.7 87.7 83.0 83.4 82.5 184.0 100.1 101.6 53 Net due to related foreign offices 4.2 3.7 3.7 3.7 3.7 4.7 3.6 3.6 3.6 3.0 3.5 3.1 2.7 54 Other liabilities 1,412.4 1,464.5 1,479.6 1,500.5 1,517.6 1,552.6 1,568.6 1,568.5 1,579.7 1,569.7 1,571.1	1,337.2 284.3 1,052.9 182.4 870.5 186.1 83.5 102.6 2.8 30.8
55 Total liabilities	130.4
56 Residual (assets less habilities) 11/0 139.0 142.2 143.0 142.5 143.8 141.0 131.7 134.3 152.6 130.4 MEMO 57 Mongage-backed securities 4 45.1 50.1 51.6 53.2 55.3 59.3 61.9 62.5 62.7 62.4	62.1

# A20 Domestic Financial Statistics ☐ April 1999

# 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities<sup>1</sup>—Continued

E. Foreign-related institutions

Billions of dollars

				Monthly	averages					Wednesd	ay figures	
Account	1998			19	98			1999		19	99	
	Jan.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Jan. 6	Jan. 13	Jan. 20	Jan. 27
						Seasonall	y adjusted					
Assets  Bank credit  Securities in bank credit  Securities in bank credit  U.S. government securities  Other securities  Loans and leases in bank credit  Commercial and industrial  Real estate  Security <sup>3</sup> Other loans and leases  I Cash assets <sup>4</sup> Other assets <sup>5</sup>	574.9 199.6 83.5 116.1 375.2 221.6 27.6 56.3 69.8 28.3 33.4 40.7	572.1 201.1 91.0 110.1 371.0 214.1 23.9 62.0 70.9 21.0 35.0 34.1	588.4 212.4 94.1 118.4 376.0 214.1 23.9 64.2 73.9 20.0 33.8 35.7	604.6 215.4 82.2 133.2 389.2 218.0 23.6 67.6 80.0 28.4 34.0 37.9	624.8° 222.0° 80.2 141.8° 402.8 223.8 23.3 69.6 86.1 25.4 35.4 39.2	620.2 <sup>r</sup> 223.9 80.5 143.4 396.3 <sup>r</sup> 223.9 22.0 65.0 85.4 26.5 33.5 36.6	601.2 <sup>r</sup> 216.8 <sup>r</sup> 81.0 135.8 <sup>r</sup> 384.4 218.0 20.7 66.0 79.7 27.1 33.9 39.1	595.6 219.3 84.1 135.1 376.3 213.2 20.8 68.8 73.5 28.2 35.2 38.1	590.2 216.8 82.8 134.0 373.4 210.6 20.6 67.6 74.6 25.0 35.1 38.0	595.1 218.8 83.2 135.5 376.4 212.5 20.9 69.0 73.9 27.0 36.0 38.3	598.1 219.4 83.6 135.9 378.6 214.4 20.7 71.0 72.6 30.7 37.8 40.1	602.7 222.8 86.6 136.2 379.9 214.4 20.7 70.5 74.4 29.2 33.4 36.6
13 Total assets <sup>6</sup>	677.0	661.9	677.6	704.6	724.5	716.5°	701.0 <sup>r</sup>	696.9	688.0	696.2	706.3	701.7
Liabilities   14 Deposits   15 Transaction   16 Nontransaction   17 Borrowings   18 From banks in the U.S.   19 From others   20 Net due to related foreign offices   21 Other liabilities   19 Deposits   21 Other liabilities   19 Deposits   22 Other liabilities   19 Deposits   22 Other liabilities   19 Deposits   25 Deposits   26 Deposits   27 Depos	277.1 11.7 265.4 149.6 23.8 125.8 144.3 96.9	297.6 13.7 283.9 167.7 25.8 141.9 107.8 93.5	305.9 12.3 293.6 165.2 21.9 143.3 110.2 99.3	314.5 15.3 299.2 178.9 30.2 148.8 97.1 104.0	318.9 15.2 303.7 185.5 32.0 153.5 109.1 107.4 <sup>r</sup>	315.2 <sup>f</sup> 12.3 302.9 <sup>f</sup> 185.6 33.4 152.2 102.2 <sup>f</sup> 102.3	307.3 10.7 296.6 179.4 28.5 150.9 102.3 100.8	316.2 12.4 303.8 175.6 24.0 151.6 99.2 97.2	311.3 11.8 299.5 172.4 21.9 150.5 101.8 96.6	318.4 11.9 306.5 174.0 24.2 149.8 99.0 98.3	318.4 12.8 305.6 181.1 24.3 156.8 98.7 97.3	315.8 12.6 303.2 177.6 24.2 153.5 94.5 97.6
22 Total liabilities	667.9	666.6	680.7	694.6	720.9 <sup>r</sup>	705.4°	689.8	688.3	682.0	689.7	695.5	685.6
23 Residual (assets less liabilities) <sup>7</sup>	9.1	4.7	-3.1	10.0	3.6	11.1	11.2	8.6	5.9	6.5	10.8	16.1
						Not seasona	ally adjusted					
Assets  24 Bank credit  25 Securities in bank credit  26 U.S. government securities  27 Trading account  28 Investment account  29 Other securities  30 Trading account  31 Investment account  32 Loans and leases in bank credit  33 Commercial and industrial  34 Real estate  35 Security  36 Other loans and leases  37 Interbank loans  38 Cash assets  39 Other assets  39 Other assets  30 Other assets	571.5 194.1 81.5 14.7 66.8 112.6 70.4 <sup>4</sup> 42.2 377.5 222.4 27.6 56.4 71.0 28.3 33.4 41.1	574.9 203.9 90.7 25.3 <sup>r</sup> 65.4 <sup>r</sup> 113.2 70.7 <sup>r</sup> 42.5 <sup>r</sup> 371.1 213.9 23.7 61.4 72.1 21.0 34.8 33.7	590.8 216.6 94.8 31.0° 63.8° 121.7 76.5° 45.2° 374.3 213.0 23.7 63.4 74.2 20.0 33.8 36.5	599.3 212.0 82.2 20.6f 61.6f 129.8 84.8f 45.0f 387.3 216.9 23.5 67.4 79.5 28.4 34.1 37.9	624.1° 222.3° 80.8 16.7° 64.1° 141.5 91.8° 49.8° 401.8° 223.7 23.5 69.7 84.8 25.4 35.7 38.3	612.6° 218.6° 81.4 14.4° 67.0° 137.2° 84.3° 52.8° 394.0 223.6° 22.3 64.7 83.5° 26.5 34.4 37.0	\$99.7° 212.6 80.7 15.6 65.2 131.9 79.6 52.3 387.0 218.9 20.8 67.1 80.3 27.1 35.5 39.8	591.6 213.1 82.0 17.9 64.1 131.1 79.8 51.3 378.5 214.1 20.8 68.8 74.8 28.2 35.1 38.6	588.8 211.0 80.9 16.8 64.1 130.1 77.5 52.6 377.8 213.0 20.7 68.0 76.1 25.0 35.5 38.3	591.8 213.3 81.9 17.9 64.0 131.4 79.6 51.8 378.5 213.5 21.0 69.0 75.0 27.0 36.0 39.0	592.0 211.7 81.3 16.9 64.5 130.4 78.7 51.7 380.3 20.7 71.0 73.7 30.7 37.4 40.0	596.0 215.5 83.1 19.7 63.4 132.4 82.4 50.0 380.5 214.6 20.6 70.0 75.3 29.2 33.1 37.0
40 Total assets <sup>6</sup>	674.1	664.2	680.9	699.4	723.2 <sup>r</sup>	710.3 <sup>r</sup>	701.8°	693.3	687.4	693.5	699.9	695.1
Liabilities	275.1 11.6 263.5 149.6 23.8 125.8 149.1 97.0	295.8 13.8 282.0 167.7 25.8 141.9 104.2 92.8	304.6 12.2 292.4 165.2 21.9 143.3 106.9 99.3	316.1 15.9 300.1 178.9 30.2 148.8 95.6 103.7	318.4 15.2 303.1 185.5 32.0 153.5 108.1 107.1	314.2 <sup>r</sup> 12.3 302.0 185.6 33.4 152.2 102.9 <sup>r</sup> 103.7 <sup>r</sup>	310.5 11.2 299.3 179.4 28.5 150.9 106.9 101.7	314.0 12.3 301.7 175.6 24.0 151.6 103.4 97.3	309.6 12.0 297.6 172.4 21.9 150.5 106.1 96.3	315.7 11.8 303.9 174.0 24.2 149.8 103.0 98.0	315.3 12.7 302.6 181.1 24.3 156.8 102.8 97.1	314.7 12.2 302.5 177.6 24.2 153.5 101.4 98.4
49 Total liabilities	670.8	660.5	676.0	694.3	719.1 <sup>r</sup>	706.4°	698,4	690.3	684.3	690.6	696.3	692.1
50 Residual (assets less liabilities) <sup>7</sup>	3.3	3.6	4.9	5.2	4.1	3.9	3.3	3.0	3.1	2.9	3.6	3.0
51 Revaluation gains on off-balance-sheet items <sup>8</sup>	44.5 43.2	41.9 <sup>r</sup> 40.2	44.2 <sup>r</sup> 42.2 <sup>r</sup>	48.7 <sup>r</sup> 45.4 <sup>r</sup>	52.0 <sup>r</sup> 47.6 <sup>r</sup>	47.9 <sup>r</sup> 44.2 <sup>r</sup>	48.1 44.5	46.0 42.1	45.9 42.0	46.7 42.9	45.7 42.2	45.4 41.6

#### NOTES TO TABLE 1.26

NOTE. Tables 1.26, 1.27, and 1.28 have been revised to reflect changes in the Board's H.8 statistical release, "Assets and Liabilities of Commercial Banks in the United States." Table 1.27, "Assets and Liabilities of Large Weekly Reporting Commercial Banks," and table 1.28, "Large Weekly Reporting U.S. Branches and Agencies of Foreign Banks," are no longer being published in the Bulletin. Instead, abbreviated balance sheets for both large and small domestically chartered banks have been included in table 1.26, parts C and D. Data are both merger-adjusted and break-adjusted. In addition, data from large weekly reporting U.S. branches and agencies of foreign banks have been replaced by balance sheet estimates of all foreign-related institutions and are included in table 1.26, part E. These data are break-

The not-seasonally-adjusted data for all tables now contain additional balance sheet items, which were available as of October 2, 1996.

1. Covers the following types of institutions in the fifty states and the District of

Columbia: domestically chartered commercial banks that submit a weekly report of condition columbia, connectically chartered commercial banks (small domestic), other domestically chartered commercial banks (small domestic); branches and agencies of foreign banks, and Edge Act and agreement corporations (foreign-related institutions). Excludes International Banking Facilities. Data are Wednesday values or proratta averages of Wednesday values. Large domestic banks constitute a universe; data for small domestic banks and foreign-related institutions are estimates based on weekly samples and on quarter-end condition reports. Data are adjusted for breaks caused by reclassifications of assets and habilities.

The data for large and small domestic banks presented on pp. A17–19 are adjusted to remove the estimated effects of mergers between these two groups. The adjustment for mergers changes past levels to make them comparable with current levels. Estimated quantities of balance sheet items acquired in mergers are removed from past data for the bank

group that contained the acquired bank and put into past data for the group containing the acquiring bank. Balance sheet data for acquired banks are obtained from Call Reports, and a ratio procedure is used to adjust past levels.

- Excludes federal funds sold to, reverse RPs with, and loans made to commercial banks in the United States, all of which are included in "Interbank loans."
- 3. Consists of reverse RPs with brokers and dealers and loans to purchase and carry securities.
- Includes vault cash, cash items in process of collection, balances due from depository institutions, and balances due from Federal Reserve Banks.
- 5. Excludes the due-from position with related foreign offices, which is included in "Net due to related foreign offices
- 6 Excludes unearned income, reserves for losses on loans and leases, and reserves for transfer risk. Loans are reported gross of these items.
- 7. This balancing item is not intended as a measure of equity capital for use in capital adequacy analysis. On a seasonally adjusted basis this item reflects any differences in the seasonal patterns estimated for total assets and total liabilities.
- Fair value of derivative contracts (interest rate, foreign excha equity contracts) in a gain/loss position, as determined under FASB Interpretation No. 39.

  9. Includes mortgage-backed securities issued by U.S. government agencies, U.S.
- government-sponsored enterprises, and private entities.

  10. Difference between fair value and historical cost for securities classified as available-for-sale under FASB Statement No. 115. Data are reported net of tax effects. Data shown are restated to include an estimate of these tax effects.
- 11. Mainly commercial and industrial loans but also includes an unknown amount of credit extended to other than nonfinancial businesses.

### 1.32 COMMERCIAL PAPER AND BANKERS DOLLAR ACCEPTANCES OUTSTANDING

#### A. Commercial Paper

Millions of dollars, seasonally adjusted, end of period

		Year	ending Dece	mber		1998						
Item	1994 Dec.	1995 Dec.	1996 Dec.	1997 Dec.	1998 Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1 All issuers	555,075	595,382	674,904	775,371	966,699	1,091,554	1,102,307	1,119,816	1,152,337	1,150,213	1,159,027	
Financial companies <sup>1</sup>												
2 Dealer-placed paper <sup>2</sup> , total	218,947 180,389	223,038 207,701	275,815 210,829	361,147 229,662	513,307 252,536	597,193 276,476	616,382 266,022	606,355 281,927	639,571 271,526	627,170 289,184	621,246 304,545	
4 Nonfinancial companies <sup>4</sup>	155,739	164,643	188,260	184,563	200,857	217,885	219,904	231,534	241,239	233,859	233,236	

Institutions engaged primarily in commercial, savings, and mortgage banking; sales, personal, and mortgage financing; factoring, finance leasing, and other business lending; insurance underwriting; and other investment activities.
 Includes all financial-company paper sold by dealers in the open market.

### B. Bankers Dollar Acceptances<sup>1</sup>

Millions of dollars, not seasonally adjusted, year ending September<sup>2</sup>

Item	1995	1996	1997	1998
1 Total amount of reporting banks' acceptances in existence	29,242	25,832	25,774	14,363
Amount of other banks' eligible acceptances held by reporting banks	1.249 10,516	709 7,770	736 6,862	523 4,884
(included in item 1)	11,373	9,361	10,467	5,413

<sup>1.</sup> Includes eligible, dollar-denominated bankers acceptances legally payable in the United States. Eligible acceptances are those that are eligible for discount by Federal Reserve Banks: that is, those acceptances that meet the criteria of Paragraph 7 of Section 13 of the Federal Reserve Act (12 U.S.C. §372).

### 1.33 PRIME RATE CHARGED BY BANKS Short-Term Business Loans<sup>1</sup>

Percent per year

Date of change	Rate	Period	Average rate	Period	Average rate	Period	Average rate
1996—Jan. 1	8.50 8.25 8.50 8.25 8.00 7.75	1996 1997 1998  1996—Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	8.27 8.44 8.35 8.50 8.25 8.25 8.25 8.25 8.25 8.25 8.25 8.25	1997—Jan. Peb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	8.25 8.25 8.30 8.50 8.50 8.50 8.50 8.50 8.50 8.50 8.5	1998—Jan. Peb. Mar. Apr. Apr. May June July Aug. Sept. Oct. Nov. Dec. 1999—Jan.	8.50 8.50 8.50 8.50 8.50 8.50 8.50 8.50

<sup>1.</sup> The prime rate is one of several base rates that banks use to price short-term business loans. The table shows the date on which a new rate came to be the predominant one quoted by a majority of the twenty-five largest banks by asset size, based on the most recent Call

Report. Data in this table also appear in the Board's H.15 (519) weekly and G.13 (415) monthly statistical releases. For ordering address, see inside front cover.

As reported by financial companies that place their paper directly with investors.
 Includes public utilities and firms engaged primarily in such activities as communications, construction, manufacturing, mining, wholesale and retail trade, transportation, and

<sup>2.</sup> Data on bankers dollar acceptances are gathered from approximately 65 institutions; includes U.S. chartered commerical banks (domestic and foreign offices), U.S. branches and agencies of foreign banks, and Edge and agreement corporations. The reporting group is revised every year.

### 1.35 INTEREST RATES Money and Capital Markets

Percent per year; figures are averages of business day data unless otherwise noted

					1998		1999		199	9, week end	ling	
Item	1996	1997	1998	Oct.	Nov.	Dec.	Jan.	Jan. 1	Jan. 8	Jan. 15	Jan. 22	Jan. 29
Money Market Instruments												
1 Federal funds <sup>1,2,3</sup>	5.30	5,46	5.35	5.07	4.83	4.68	4.63	4.48	4.30	4.75	4.64	4.66
	5.02	5.00	4.92	4.86	4.63	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Commercial paper <sup>3,5,6</sup> Nonfinancial												
3 1-month	n.a.	5.57	5.40	5.14	5.00	5.24	4.80	5.24	4.81	4.81	4.78	4.79
4 2-month	n.a.	5.57	5.38	5.08	5.14	5.12	4.78	5.02	4.80	4.79	4.77	4.76
5 3-month	n.a.	5.56	5.34	5.04	5.06	5.00	4.77	4.95	4.78	4.79	4.76	4.75
Financial 6 1-month	n.a.	5.59	5.42	5.18	5.04	5.31	4.83	5.21	4.85	4.85	4.80	4.81
	n.a.	5.59	5.40	5.12	5.19	5.13	4.81	5.04	4.84	4.84	4.79	4.77
	n.a.	5.60	5.37	5.09	5.15	5.04	4.81	5.02	4.84	4.84	4.79	4.78
Commercial paper (historical) <sup>3,5,7</sup>   9   1-month	5.43	5.54	n.a.	п.а.	n.a.	n.a.	п.а.	n.a.	n.a.	n.a.	n.a.	n.a.
	5.41	5.58	n.a.	п.а.	n.a.	n.a.	п.а.	n.a.	n.a.	n.a.	n.a.	n.a.
	5.42	5.62	n.a.	п.а.	n.a.	n.a.	п.а.	n.a.	n.a.	n.a.	n.a.	n.a.
Finance paper, directly placed (historical) 3.5.8 12 1-month	5.31	5.44	n.a.	n.a.	n.a.	n.a.	n.a.	п.а.	n.a.	n.a.	n.a.	n.a.
	5.29	5.48	n.a.	n.a.	n.a.	n.a.	n.a.	п.а.	n.a.	n.a.	n.a.	n.a.
	5.21	5.48	n.a.	n.a.	n.a.	n.a.	n.a.	п.а.	n.a.	n.a.	n.a.	n.a.
Bankers acceptances3.5.9           15         3-month           16         6-month	5.31	5.54	5.39	5.12	5.15	5.08	4.80	5.14	4.85	4.80	4.76	4.78
	5.31	5.57	5.30	4.88	4.92	4.91	4.73	4.99	4.78	4.73	4.68	4.72
Certificates of deposit, secondary marker <sup>3,10</sup> 17 1-month 18 3-month 19 6-month	5.35	5.54	5.49	5.24	5.16	5.47	4.89	5.29	4.94	4.90	4.86	4.86
	5.39	5.62	5.47	5.21	5.24	5.14	4.89	5.09	4.93	4.91	4.87	4.86
	5.47	5.73	5.44	4.99	5.07	5.01	4.90	5.03	4.93	4.92	4.88	4.87
20 Eurodollar deposits, 3-month <sup>3,11</sup>	5.38	5.61	5.45	5.17	5.21	5.13	4.88	5.06	4.93	4.90	4.84	4.83
U.S. Treasury bills Secondary market 3.5 21 3-month 22 6-month 23 1-year Auction high 3.5.12	5.01	5.06	4.78	3.96	4.41	4.39	4.34	4,44	4.36	4.35	4.26	4.35
	5.08	5.18	4.83	4.05	4.42	4.40	4.33	4,45	4.38	4.33	4.30	4.30
	5.22	5.32	4.80	3.95	4.33	4.32	4.31	4,38	4.35	4.30	4.29	4.30
24 3-month	5.02	5.07	4.81	4.08	4.44	4.42	4.34	4.52	4.38	4.39	4.28	4.31
25 6-month	5.09	5.18	4.85	4.15	4.43	4.43	4.36	4.53	4.42	4.41	4.31	4.28
26 1-year	5.23	5.36	4.85	4.06	4.40	4.31	4.34	n.a.	4.34	n.a.	n.a.	n.a.
U.S. TREASURY NOTES AND BONDS												
Constant maturities 13 27	5.52	5.63	5.05	4.12	4.53	4.52	4.51	4.59	4.55	4.51	4.49	4.51
	5.84	5.99	5.13	4.09	4.54	4.51	4.62	4.61	4.64	4.61	4.63	4.59
	5.99	6.10	5.14	4.18	4.57	4.48	4.61	4.60	4.63	4.61	4.62	4.58
	6.18	6.22	5.15	4.18	4.54	4.45	4.60	4.59	4.63	4.61	4.60	4.56
	6.34	6.33	5.28	4.46	4.78	4.65	4.80	4.75	4.81	4.83	4.80	4.74
	6.44	6.35	5.26	4.53	4.83	4.65	4.72	4.70	4.76	4.75	4.70	4.67
	6.83	6.69	5.72	5.30	5.48	5.36	5.45	5.42	5.47	5.49	5.44	5.39
	6.71	6.61	5.58	5.01	5.25	5.06	5.16	5.12	5.20	5.17	5.14	5.12
Composite 35 More than 10 years (long-term)	6.80	6.67	5.69	5.24	5.43	5.29	5.39	5.36	5.42	5.43	5.38	5.32
STATE AND LOCAL NOTES AND BONDS												}
Moody's series <sup>14</sup> 36 Aaa 37 Baa 38 Bond Buyer series <sup>15</sup>	5.52	5.32	4.93	4.76	4.87	4.83	4.85	4.86	4.89	4.91	4.85	4.75
	5.79	5.50	5.14	5.10	5.15	5.17	5.21	5.19	5.21	5.21	5.22	5.19
	5.76	5.52	5.09	4.93	5.03	4.98	5.01	5.00	5.05	5.02	5.01	4.96
CORPORATE BONDS										1		
39 Seasoned issues, all industries 16	7.66	7.54	6.87	6.77	6.87	6.72	6.76	6.77	6.81	6.78	6.74	6.71
Rating group 40 Aaa 41 Aa 42 A 43 Baa	7.37	7.27	6.53	6.37	6.41	6.22	6.24	6.26	6.28	6.26	6.22	6.19
	7.55	7.48	6.80	6.70	6.79	6.65	6.68	6.68	6.73	6.71	6.66	6.63
	7.69	7.54	6.93	6.85	6.95	6.80	6.84	6.83	6.88	6.86	6.82	6.79
	8.05	7.87	7.22	7.18	7.34	7.23	7.29	7.27	7.34	7.30	7.27	7.24
MEMO Dividend-price ratio <sup>17</sup> 44 Common stocks	2.19	1.77	1.49	1.59	1.43	1.37	1.30	1.33	1.27	1.31	1.29	1.31

- 1. The daily effective federal funds rate is a weighted average of rates on trades through
- 1. The daily effective federal funds rate is a weighted average of rates on trades through New York brokers.
  2. Weekly figures are averages of seven calendar days ending on Wednesday of the current week; monthly figures include each calendar day in the month.
  3. Annualized using a 360-day year or bank interest.
  4. Rate for the Federal Reserve Bank of New York.
  5. Quoted on a discount basis.
  6. Interest rates interpolated from data on certain commercial paper trades settled by the

- Depository Trust Company. The trades represent sales of commercial paper by dealers or direct issuers to investors (that is, the offer side). See Board's Commercial Paper Web pages
- direct issuers to investors (that is, the offer side). See Board's Commercial Paper Web pages (http://www.federalreserve.gov/releases/cp) for more information.

  7. An average of offering rates on commercial paper for firms whose bond rating is AA or the equivalent. Series ended August 29, 1997.

  8. An average of offering rates on paper directly placed by finance companies. Series ended August 29, 1997.

  9. Representative closing yields for acceptances of the highest-rated money center banks.

  10. An average of dealer offering rates on nationally traded certificates of deposit.
- 11. Bid rates for Eurodollar deposits collected around 9:30 a.m. Eastern time. Data are for
- 11. Bid rates for Eurodoilar deposits collected around 9:30 a.m. Eastern time. Data are for indication purposes only.

  12. Auction date for daily data; weekly and monthly averages computed on an issue-date basis. On or after October 28, 1998, data are stop yields from uniform-price auctions. Before that, they are weighted average yields from multiple-price auctions.

  13. Yields on actively traded issues adjusted to constant maturities. Source: U.S. Department of the Torogovern.
- ment of the Treasury.
- General obligation bonds based on Thursday figures; Moody's Investors Service.
   State and local government general obligation bonds maturing in twenty years are used in compiling this index. The twenty-bond index has a rating roughly equivalent to Moodys' A1 rating. Based on Thursday figures.

  16. Daily figures from Moody's Investors Service. Based on yields to maturity on selected
- long-term bonds.

  17. Standard & Poor's corporate series. Common stock ratio is based on the 500 stocks in

the price index.

NOTE. Some of the data in this table also appear in the Board's H.15 (519) weekly and G.13 (415) monthly statistical releases. For ordering address, see inside front cover.

#### Domestic Financial Statistics ☐ April 1999 A24

### STOCK MARKET Selected Statistics

							19	998				1999
Indicator	1996	1997	1998	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
<del></del>				Pri	ces and trad	ing volume	(averages o	f daily figur	es)			
Common stock prices (indexes)  1 New York Stock Exchange (Dec. 31, 1965 = 50)  2 Industrial  3 Transportation  4 Utility  5 Finance.	357.98 453.57 327.30 126.36 303.94	456.99 574.97 415.08 143.87 424.84	550.65 684.35 468.61 190.52 516.65	574.46 712.39 505.02 198.25 551.28	569.76 731.01 492.98 188.26 548.57	586.39 718.54 503.89 189.95 579.67	539.16 665.66 441.36 186.24 511.22	506.56 629.51 408.75 186.17 454.28	511.49 636.62 396.61 195.09 448.12	564.26 704.46 442.95 206.29 501.45	576.05 717.14 456.70 215.57 510.31	595.43 741.43 479.72 224.75 523.38
6 Standard & Poor's Corporation (1941-43 = 10) <sup>2</sup>	670.49	873.43	1,085.50	1,108.42	1,108.39	1,156.58	1,074.62	1,020.64	1,032.47	1,144,43	1,190.05	1,248.77
7 American Stock Exchange (Aug. 31, 1973 = 50) <sup>3</sup>	570.86	628.34	682.69	735.02	704.59	724.83	655.67	621.48	607.16	667.60	660.76	704.22
Volume of trading (thousands of shares)  8 New York Stock Exchange  9 American Stock Exchange	409,740 22,567	523,254 24,390	666,534 28,870	569,239 27,004	605,576 25,447	639,744 26,473	712,710 32,721	790,238 33,331	808,816 31,946	668,932 27,266	680,397 28,756	847,135 31,015
				Custome	er financing	(millions of	f dollars, en	d-of-period	balances)			
10 Margin credit at broker-dealers <sup>4</sup>	97,400	126,090	140,980	143,600	147,700	154,370	147,800	137,540	130,160	139,710	140,980	153,240
Free credit balances at brokers <sup>5</sup> 11 Margin accounts <sup>6</sup> 12 Cash accounts	22,540 40,430	31,410 52,160	40,250 62,450	26,200 47,770	29.840 51.205	31,820 53,780	38,460 53,850	41,970 54,240	43,500 54,610	40,620 56,170	40,250 62,450	36,880 59,600
				Margin r	equirements	(percent of	market valu	ue and effec	tive date) <sup>7</sup>			
	Mar. 1	1. 1968	June 1	3, 1968	May 6	5, 1970	Dec (	5, 197 <b>]</b>	Nov. 2	4, 1972	Jan. 3	, 1974
13 Margin stocks 14 Convertible bonds 15 Short sales	:	70 50 70	(	80 60 80	\ :	65 50 65		55 50 55		65 50 65		50 50 50

<sup>1.</sup> Daily data on prices are available upon request to the Board of Governors. For ordering address, see inside front cover.

6. Series initiated in June 1984.

<sup>2.</sup> In July 1976 a financial group, composed of banks and insurance companies, was added to the group of stocks on which the index is based. The index is now based on 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and

<sup>3.</sup> On July 5, 1983, the American Stock Exchange rebased its index, effectively cutting previous readings in half.

<sup>4.</sup> Since July 1983, under the revised Regulation T, margin credit at broker-dealers has included credit extended against stocks, convertible bonds, stocks acquired through the exercise of subscription rights, corporate bonds, and government securities. Separate reporting of data for margin stocks, convertible bonds, and subscription issues was discontinued in

April 1984.

5. Free credit balances are amounts in accounts with no unfulfilled commitments to brokers and are subject to withdrawal by customers on demand.

<sup>6.</sup> Series initiated in June 1984.
7. Margin requirements, stated in regulations adopted by the Board of Governors pursuant to the Securities Exchange Act of 1934, limit the amount of credit that can be used to purchase and carry "margin securities" (as defined in the regulations) when such credit is collateralized by securities. Margin requirements on securities are the difference between the market value (100 percent) and the maximum loan value of collateral as prescribed by the Board. Regulation T was adopted effective Oct. 15, 1934; Regulation U, effective May 1, 1936; and Regulation Ot, effective May 1, 1936; and Regulation Ot, effective May 1, 1971. On Jan. 1, 1977, the Board of Governors for the first time established in Regulation T the initial margin required for writing options on securities, setting it at 30 percent of the current market value of the stock underlying the option. On Sept. 30, 1985, the Board changed the required initial margin, allowing it to be the same as the option maintenance margin required by the appropriate exchange or self-regulatory organization; such maintenance margin rules must be approved by the Securities and Exchange Commission.

must be approved by the Securities and Exchange Commission.

### 1.38 FEDERAL FISCAL AND FINANCING OPERATIONS

Millions of dollars

		Fiscal year				Calend	ar year		
Type of account or operation	1004	1997	1998r			1998			1999
	1996	1997	1998	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
U.S. budger <sup>1</sup> 1 Receipts, total  2 On-budget.  3 Off-budget.  4 Outlays, total.  5 On-budget  6 Off-budget  7 Surplus or deficit (-), total.  8 On-budget  9 Off-budget	1,085,570	1,579,292 1,187,302 391,990 1,601,235 1,290,609 310,626 -21,943 -103,307 81,364	1,721,798 1,305,999 415,799 1,652,552 1,335,948 316,604 69,246 -29,949 99,195	111,741 79,135 32,606 122,907 92,555 30,352 -11,166 -13,420 2,254	180,936 149,726 31,210 142,725 107,900 34,814 38,222 41,826 -3,604	119,974 90,064 29,910 152,436 123,687 28,749 -32,462 -33,623 1,161	113,978 81,836 32,142 131,095 100,078 31,017 -17,117 -18,242 1,125	178,646 143,337 35,309 184,056 149,401 34,655 -5,410 -6,064 654	171,722 129,921 41,801 101,386 102,489 -1,103 70,336 27,432 42,904
Source of financing (total) 10 Borrowing from the public	129,712 -6.276 -15,986	38,171 604 -16,832	-51,049 4,743 -22,940	33,989 -362 -22,461	-46,413 -2,451 10,642	15,330 2,661 14,471	22,364 20,335 -25,582	-5,390 -1,621 12,421	-31,249 -39,567 480
MEMO	44,225 7,700 36,525	43,621 7,692 35,930	38,878 4,952 33,926	36,427 6,704 29,722	38,878 4,952 33,926	36,217 4,440 31,776	15,882 5,219 10,663	17,503 6,086 11,417	57,070 7,623 49,446

net gain or loss for U.S. currency valuation adjustment; net gain or loss for IMF loan-valuation adjustment; and profit on sale of gold.

SOURCE. Monthly totals: U.S. Department of the Treasury, Monthly Treasury Statement of Receipts and Outlays of the U.S. Government; fiscal year totals: U.S. Office of Management and Budget, Budget of the U.S. Government.

Since 1990, off-budget items have been the social security trust funds (federal old-age survivors insurance and federal disability insurance) and the U.S. Postal Service.
 Includes special drawing rights (SDRs); reserve position on the U.S. quota in the International Monetary Fund (IMF); loans to the IMF; other cash and monetary assets: accrued interest payable to the public; allocations of SDRs; deposit funds; miscellaneous liability (including checks outstanding) and asset accounts; seigniorage; increment on gold:

#### A26 Domestic Financial Statistics ☐ April 1999

### 1.39 U.S. BUDGET RECEIPTS AND OUTLAYS1

Millions of dollars

	Fisca	l year				Calendar year		_	
Source or type	1997	1998	19	97	19	98	19	98	1999
	1997	1998	HI	H2	ні	H2	Nov.	Dec.	Jan.
RECEIPTS									
1 All sources	1,579,292	1,721,798	845,527	773,812	922,632	824,998	113,978	178,646	171,722
2 Individual income taxes, net. 3 Withheld 4 Nonwithheld 5 Refunds Corporation income taxes	737,466	828,586	400,436	354,072	447,514	392,332	51,341	75,988	99,857
	580,207	646,483	292,252	306,865	316,309	339,144	52,530	69,628	58,527
	250,753	281,527	191.050	58,069	219,136	65,204	2,214	7,094	42.324
	93,560	99,476	82,926	10,869	87,989	12,032	3,404	734	994
6 Gross receipts 7 Refunds 8 Social insurance taxes and contributions, net 9 Employment taxes and contributions <sup>2</sup> 10 Unemployment insurance 11 Other net receipts <sup>3</sup>	204,493	213,249	106,451	104,659	109,353	104,163	4,805	45,123	7,185
	22,198	24,593	9,635	10,135	14,220	14,250	1,364	2,749	2,055
	539,371	571,831	288,251	260,795	312,713	268,466	45,926	48,601	54,928
	506,751	540,014	268,357	247,794	293,520	256,142	42,940	47,869	53,725
	28,202	27,484	17,709	10,724	17,080	10,121	2,655	315	867
	4,418	4,333	2,184	2,280	2,112	2,202	331	417	337
12 Excise taxes. 13 Customs deposits 14 Estate and gift taxes. 15 Miscellaneous receipts <sup>4</sup>	56,924	57,673	28,084	31,133	29,922	33,366	6,021	5,446	4 806
	17,928	18,297	8,619	9,679	8,546	9,838	1,380	1,472	1,286
	19,845	24,076	10,477	10,262	12,971	12,359	2,132	2,239	2,206
	25,465	32,658	12,866	13,348	15,837	18,735	3,738	2,527	3,509
OUTLAYS									
16 All types	1,601,235	1,652,552	797,418	824,370	815,886	877,026	131,095	184,056	101,386
17 National defense. 18 International affairs. 19 General science, space, and technology. 20 Energy. 21 Natural resources and environment. 22 Agriculture.	270,473	268,456	132,698	140,873	129,351	140,196	18,173	27,178	19,270
	15,228	13,109	5,740	9,420	4,610	8,296	4,924	822	1,179
	17,174	18,219	8,938	10.040	9,426	10,142	1,558	1,918	1,398
	1,483	1,270	803	411	957	699	-218	151	-107
	21,369	22,396	9,628	11,106	10,051	12,671	2,080	2,545	1,458
	9,032	12,206	1,465	10,590	2,387	16,757	5,620	3,238	3,939
23 Commerce and housing credit 24 Transportation 25 Community and regional development 26 Education, training, employment, and	-14,624	1,014	-7,575	-3,526	-2,483	4,046	-701	-1,821	745
	40,767	40,332	16,847	20,414	16,196	20,834	3,447	3,400	2.558
	11,005	9,720	5,678	5,749	4,863	6,972	1,405	1,505	709
social services.  27 Health 28 Social security and Medicare 29 Income security	53,008	54,919	25,080	26,851	25,928	27,245	4,111	5,465	5.136
	123,843	131,440	61,809	63,552	65,053	67,836	10,477	11,757	10,984
	555,273	572,047	278,863	283,109	286,305	316,809	43,728	79,633	15,248
	230,886	233,202	124.034	106,353	125,196	109,481	14,644	21,945	17,349
30 Veterans benefits and services 31 Administration of justice 32 General government 33 Net interest 34 Undistributed offsetting receipts <sup>6</sup>	39,313	41,781	17,697	22,077	19,615	22,750	1,841	5,305	1,828
	20,197	22,832	10,670	10,212	11,287	12,041	2,067	2,132	2,090
	12,768	13,444	6,623	7,302	6,139	9,079	1,418	2,198	188
	244,013	243,359	122,655	122,620	122,345	116,954	19,350	20,029	19,947
	-49,973	-47,194	-24,235	-22,795	-21,340	-25,795	-2,828	-3,343	2,530

<sup>1.</sup> Functional details do not sum to total outlays for calendar year data because revisions to monthly totals have not been distributed among functions. Fiscal year total for receipts and outlays do not correspond to calendar year data because revisions from the *Budget* have not been fully distributed across months.

2. Old-age, disability, and hospital insurance, and railroad retirement accounts.

3. Federal employee retirement contributions and civil service retirement and disability fund.

4. Deposits of earnings by Federal Reserve Banks and other miscellaneous receipts.
5. Includes interest received by trust funds.
6. Rents and royalties for the outer continental shelf, U.S. government contributions for employee retirement, and certain asset sales.
SOURCE Fiscal year totals: U.S. Office of Management and Budget, Budget of the U.S. Government, Fiscal Year 2000: monthly and half-year totals: U.S. Department of the Treasury, Monthly Treasury Statement of Reccipts and Outlays of the U.S. Government.

### 1.40 FEDERAL DEBT SUBJECT TO STATUTORY LIMITATION

Billions of dollars, end of month

	1996		19	97			19	998	
Item	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31
Federal debt outstanding	5,357	5,415	5,410	5,446	5,536	5,573	5,578	5,556	5,643
2 Public debt securities 3 Held by public 4 Held by agencies	5,323 3,826 1,497	5,381 3,874 1,507	5,376 3,805 1,572	5,413 3,815 1,599	5,502 3,847 1,656	5,542 3,872 1,670	5.548 3,790 1,758	5,526 3,761 1,766	5,614 n.a. n.a.
5 Agency securities 6 Held by public 7 Held by agencies	34 27 8	34 26 8	34 26 7	33 26 7	34 27 7	31 26 5	30 26 4	29 26 4	29 n.a. n.a.
8 Debt subject to statutory limit	5,237	5,294	5,290	5,328	5,417	5,457	5,460	5,440	5,530
9 Public debt securities	5,237 0	5,294 0	5,290 0	5,328 0	5,416 0	5,456 0	5,460 0	5,439 0	5,530 0
MEMO 11 Statutory debt limit	5,500	5,500	5,500	5,950	5,950	5,950	5,950	5,950	5,950

<sup>1.</sup> Consists of guaranteed debt of U.S. Treasury and other federal agencies, specified participation certificates, notes to international lending organizations, and District of Columbia stadium bonds.

SOURCE U.S. Department of the Treasury, Monthly Statement of the Public Debt of the United States and Treasury Bulletin.

## GROSS PUBLIC DEBT OF U.S. TREASURY Types and Ownership

Billions of dollars, end of period

7	1005	1006	1007	1000		19	98	
Type and holder	1995	1996	1997	1998	Qı	Q2	Q3	Q4
Total gross public debt	4,988.7	5,323.2	5,502.4	5,614.2	5,542.4	5,547.9	5,526.2	5,614.2
By type   2   Interest-bearing   3   Marketable   4   Bills   5   Notes   5   Notes   6   Bonds   7   Inflation-indexed notes and bonds   8   Nonmarketable   9   State and local government series   10   Foreign issues   11   Government   12   Public   13   Savings bonds and notes   14   Government account series   15   Nor-interest-bearing   16   Nor-interest-bearing   17   Nor-interest-bearing   17   Nor-interest-bearing   17   Nor-interest-bearing   17   Nor-interest-bearing   18   Nor-interest-be	4,964.4 3.307.2 760.7 2,010.3 521.2 n.a. 1,657.2 104.5 40.8 .0 181.9 1,299.6 24.3	5,317.2 3,459.7 777.4 2,112.3 555.0 n.a. 1,857.5 101.3 37.4 47.4 1,505.9 6.0	5,494.9 3,456.8 715.4 2,106.1 \$87.3 33.0 2,038.1 124.1 36.2 36.2 36.2 1,666.7 7.5	5,605.4 3,355.5 691.0 1,960.7 621.2 50.6 2,249.9 165.3 34.3 34.3 34.3 1,80.3 1,840.0 8.8	5.535.3 3,467.1 720.1 2,091.9 598.7 41.5 2,068.2 139.1 35.4 36.4 0 181.2 1,681.5	5,540.2 3,369.5 641.1 2,064.6 598.7 50.1 2,170.7 155.0 36.0 36.0 36.0 180.7 1,769.1	5,518.7 3.331.0 637.7 2,009.1 610.4 41.9 2,187.7 164.4 35.1 35.1 35.1 0 180.8 1,777.3	5.605.4 3,355.5 691.0 1,960.7 621.2 50.6 2,249.9 165.3 34.3 0 180.3 1,840.0 8.8
By holder 5 16 U.S. Treasury and other federal agencies and trust funds 17 Federal Reserve Banks 18 Private investors 19 Commercial banks 20 Money market funds 21 Insurance companies 22 Other companies 23 State and local treasuries 6,7 Individuals 24 Savings bonds 25 Other securities 26 Foreign and international 6,7 27 Other miscellaneous investors 7,9 28	1,304.5 391.0 3,294.9 278.7 71.5 241.5 228.8 469.6 185.0 162.7 862.2 794.9	1,497.2 410.9 3,411.2 261.8 91.6 214.1 258.5 482.5 187.0 169.6 1.135.6 610.5	1,655.7 451.9 3,393.4 269.8 88.9 224.9 265.0 493.0 186.5 168.4 1.278.0 418.8	n.a.	1,670.4 400.0 3,430.7 278.6 84.8 182.2 268.1 444.8 186.3 165.8 1,240.3 579.8	1,757.6 458.4 3,330.6 263.7 82.7 185.0 267.2 464.7 186.0 165.0 1,248.6 467.7	1,765.6 458.1 3,301.0 260.0 84.2 188.0 271.4 469.0 186.0 166.4 1,217.2 458.9	n.a.

<sup>1.</sup> The U.S. Treasury first issued inflation-indexed securities during the first quarter of 1997.

2. Includes (not shown separately) securities issued to the Rural Electrification Administra-

tion, depository bonds, retirement plan bonds, and individual retirement bonds.

3 Nonmarketable series denominated in dollars, and series denominated in foreign cur-

Nonmarketable series denominated in official series denominated in foreign currency held by foreigners.
 Held almost entirely by U.S. Treasury and other federal agencies and trust funds.
 Data for Federal Reserve Banks and U.S. government agencies and trust funds are actual holdings; data for other groups are Treasury estimates.
 Includes state and local pension funds.

<sup>7.</sup> In March 1996, in a redefinition of series, fully defeased debt backed by nonmarketable federal securities was removed from "Other miscellaneous investors" and added to "State and local treasuries." The data shown here have been revised accordingly.

8. Consists of investments of foreign balances and international accounts in the United

<sup>9</sup> Includes savings and loan associations, nonprofit institutions, credit unions, mutual savings banks, corporate pension trust funds, dealers and brokers, certain U.S. Treasury deposit accounts, and federally sponsored agencies
SOURCE, U.S. Treasury Department, data by type of security, Monthly Statement of the Public Debt of the United States; data by holder, Treasury Bulletin.

### 1.42 U.S. GOVERNMENT SECURITIES DEALERS Transactions<sup>1</sup>

Millions of dollars, daily averages

		1998			199	8, week end	ling			1999. we	ek ending	
Item	Oct.	Nov.	Dec.	Dec. 2	Dec. 9	Dec. 16	Dec. 23	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27
OUTRIGHT TRANSACTIONS <sup>2</sup>												
By type of security 1 U.S. Treasury bills	30,362	35,010	30,397	39,754	35,490	31,544	22,028	27,504	33,896	33,260	36,190	26.287
Coupon securities, by maturity 2 Five years or less 3 More than five years 4 Inflation-indexed	131,248 94,390 1,497	111,370 73,238 602	76,147 47,464 415	93,540 61,330 259	97,507 59,804 386	78,916 52,035 239	61,226 40,259 236	56,767 25,372 157	72,845 59,579 3,681	118,962 86,526 1,200	104,193 65,107 814	96,151 59,782 1,188
Federal agency 5 Discount notes	46,265	43,274	38,998	40,902	41,600	38,054	36,437	36,404	50,075	41,964	44,280	38,565
6 One year or less	700	856	716	693	454	975	953	254	1,443	1,252	993	866
or equal to five years  8 More than five years  9 Mortgage-backed	4,864 4,640 92,708	3,461 3,894 68,053	3,491 <sup>r</sup> 2,413 59,167	4.599 2,048 62,512	6,101 2,896 99,250	2,720 2,230 63,416	2,527 2,378 37,763	1,616 1,377 24,278	4,396 5,965 77,398	5,894 4,790 122,401	8,140 2,150 61,252	5.777 3,425 72,919
By type of counterparty With interdealer broker 10 U.S. Treasury 11 Federal agency 12 Mortgage-backed With other 13 U.S. Treasury 14 Federal agency 15 Mortgage-backed	146,311 3,478 31,293 111,185 52,991 61,415	121,806 2,223 22,926 98,413 49,261 45,127	84,186 2,193 20,854 70,237 43,424 <sup>r</sup> 38,314	104,774 2,327 20,633 90,109 45,914 41,879	107,472 3,568 34,264 85,715 47,483 64,986	91,709 1,806 23,038 71,025 42,172 40,379	65,449 1,517 14,505 58,300 40,778 23,259	56,682 1,390 8,562 53,118 38,260 15,716	92,672 3,582 24,238 77,329 58,297 53,160	132,703 4,185 36,511 107,245 49,715 85,891	117,858 4,001 17,826 88,445 51,561 43,425	103,225 3,347 22,547 80,182 45,285 50,372
Futures Transactions <sup>3</sup>												
By type of deliverable security  16 U.S. Treasury bills	0	50	108	34	80	166	n.a.	n.a.	n.a.	0	n.a.	n.a.
17 Five years or less 18 More than five years 19 Inflation-indexed Federal agency	3,296 19,467 0	3,281 16,164 0	2,731 10,292 0	4,526 14,928 0	2,717 12,523 0	2,936 11,200 0	2,718 8,845 0	1,820 5,211 0	1,901 12,874 0	2,933 21,370 0	2,153 14,667 0	1,844 13,964 0
20 Discount notes	0	0	0	0	0	0	0	0	0	0	0	0
One year or less	0	0	0	0	0	0	0	0	0	0	0	0
or equal to five years  More than five years  Mortgage-backed	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
OPTIONS TRANSACTIONS <sup>4</sup>												
By type of underlying security 25 U.S. Treasury bills	0	0	0	0	0	0	0	0	o	0	0	0
26 Five years or less	1.685 8,125 0	1,145 5,621 0	934 3,004 0	1,209 4,418 0	684 3,474 0	1,242 3,189 0	864 2,737 0	733 1,471 0	1,241 4,366 0	1,632 5,064 0	1,818 4,433 0	2,054 4,867 0
29 Discount notes	0	0	0	0	0	0	0	0	0	0	0	0
30 One year or less	0	0	0	0	0	0	0	0	0	0	0	0
or equal to five years	0 0 862	0 0 912	0 0 806	0 0 822	0 0 1,258	0 0 781	0 0 326	0 0 743	0 0 1,287	0 0 1,242	0 0 2,319	0 0 674

<sup>1.</sup> Transactions are market purchases and sales of securities as reported to the Federal 1. Transactions are market purchases and sales of securine as a reported to the Federal Reserve Bank of New York by the U.S. government securities dealers on its published list of primary dealers. Monthly averages are based on the number of trading days in the month. Transactions are assumed to be evenly distributed among the trading days of the report week. Immediate, forward, and futures transactions are reported at principal value, which does not include accrued interest; options transactions are reported at the face value of the underlying

Forward transactions are agreements made in the over-the-counter market that specify delayed delivery. Forward contracts for U.S. Treasury securities and federal agency debt securities are included when the time to delivery is more than five business days. Forward contracts for mortgage-backed agency securities are included when the time to delivery is more than thirty business days.

3. Futures transactions are standardized agreements arranged on an exchange. All futures transactions are included regardless of time to delivery.

4. Options transactions are purchases or sales of put and call options, whether arranged on an organized exchange or in the over-the-counter market, and include options on futures contracts on U.S. Treasury and federal agency securities.

NOTE. "n.a." indicates that data are not published because of insufficient activity.

securities.

Dealers report cumulative transactions for each week ending Wednesday.

2. Outright transactions include immediate and forward transactions. Immediate delivery refers to purchases or sales of securities (other than mortgage-backed federal agency securities) for which delivery is scheduled in five business days or less and "when-issued" securities that settle on the issue date of offering. Transactions for immediate delivery of mortgage-backed agency securities include purchases and sales for which delivery is scheduled in thirty business days or less. Stripped securities are reported at market value by maturity of coupon or corpus.

## 1.43 U.S. GOVERNMENT SECURITIES DEALERS Positions and Financing<sup>1</sup>

Millions of dollars

Millions of dollars		****									
Item		1998				98, week end				99, week end	
	Oct.	Nov.	Dec.	Dec. 2	Dec. 9	Dec. 16	Dec. 23	Dec. 30	Jan. 6	Jan. 13	Jan. 20
						Positions <sup>2</sup>					
NET OUTRIGHT POSITIONS <sup>3</sup>											
By type of security 1 U.S. Treasury bills Coupon securities, by maturity	-9,335	-6,782	-4,551	2,294	4,374	-11,472	-9,773	~4,368	2,991	4,374	88
2 Five years or less 3 More than five years 4 Inflation-indexed	1,196 6,412 2,705	558 7,272 1.798	-5,388 3,180 1,186	-2,286 5,717 1,517	-5,282 4,007 1,241	-7,691 3,512 1,089	-5,142 3,304 1,104	-4,058 1,075 1,099	-7,257 3,875 1,999	-9,810 2,353 2,020	-9,523 -1,570 2,015
Federal agency 5 Discount notes	18,395	17,666	20,788	17,333	21,969	22.540	22,223	17,475	20,326	20,409	16,352
6 One year or less	1,870	2,188	2,075	2,251	1,958	2,297	1,895	2,000	2,780	2,726	2,832
or equal to five years 8 More than five years 9 Mortgage-backed	5,119 6,797 48,954	3,208 5,584 37,219	3,093 3,499 38,689	3,396 4,866 33,233	4,026 5,302 41,692	4,415 4,338 39,932	2,257 1,964 37,331	1,647 1,839 37,624	2,665 4,621 36,834	3,578 3,873 24,444	4,664 4,622 20,520
NET FUTURES POSITIONS <sup>4</sup> By type of deliverable security											
10 U.S. Treasury bills	n.a.	271	507	551	495	n.a.	n.a.	n,a.	n.a.	n.a.	n.a.
11 Five years or less	-9,070 -24,562 0	-4,399 -27,583	-4.012 -24,757 0	-6,203 -26,539 0	-5,845 -26,034 0	-4,215 -26,745 0	-2,998 -23,356	-2,852 -22,324 0	-598 -25,164 0	-490 -20,011 0	-716 -18,637 0
Federal agency 14 Discount notes	0	0	0	0	0	0	0	0	0	0	0
Coupon securities, by maturity 15 One year or less	0	0	0	0	0	0	0	0	0	0	0
or equal to five years  17 More than five years  18 Mortgage-backed	0 0 0	0 0 0	0 0 0	0 0	0 0 0						
NET OPTIONS POSITIONS											
By type of deliverable security 19 U.S. Treasury bills	0	0	0	0	0	0	0	0	0	0	0
Coupon securities, by maturity 20 Five years or less 21 More than five years 22 Inflation-indexed	-1,301 -3.788 n.a.	-2,128 -1,602 n.a.	-3,155 -1,387 0	-2,418 -752 0	-2,535 -721 0	-3,260 -1,275 0	-3,928 -1,858 0	-3,282 -1,624 0	-1,935 -3,135 0	-58 -1,569 0	$^{838}_{-323}$
Federal agency 23 Discount notes	0	0	0	0	0	0	0	0	0	0	0
24 One year or less	0	0	0	0	0	0	0	0	0	0	0
or equal to five years 26 More than five years 27 Morgage-backed	0 n.a. 3,160	0 n.a. 2,380	0 п.а. 1,213	0 n.a. 1,458	n.a. 479	0 n.a. 1,087	0 n.a. 1,815	0 n.a. 1,286	n.a. 2,032	0 n.a. 3,064	0 n.a. 3,736
						Financing <sup>5</sup>			_		
Reverse repurchase agreements 28 Overnight and continuing	278,468 847,663	240,639 780,552	242,653 807,304	248,942 730,585	250,409 778,286	265,083 814,651	226,311 850,670	228,433 820,439	232,698 716,925	231,128 789,354	249,350 804,992
Securities borrowed 30 Overnight and continuing	234,431 109,805	210,066 107,922	205,654 112,684	209,357 109,554	206,947 110,517	205,544 111,511	203,289 112,705	204,256 117,152	216,303 110,907	221,630 104,063	226,469 105,938
Securities received as pledge 32 Overnight and continuing	2,851	3,174 63	2,952 67	3,186 67	2,816 67	3,203 n.a.	3,304 n.a.	2,478 n.a.	2,537 n.a.	2,480 n.a.	2,537 n.a.
Repurchase agreements 34 Overnight and continuing	666,957 777,445	588,736 709,894	608,988 713,037	614,567 634,759	612,649 685,047	646,524 705,563	598,564 758,512	576,474 738,282	610,018 622,805	620,080 668,796	674,334 702,050
Securities loaned 36 Overnight and continuing	8,157 3,947	8,943 4,008	9,369 3,567	9,424 3,904	9,863 4,409	9,803 3,763	7,669 2,434	9,987 n.a.	10,325 n.a.	9,871 n.a.	10,455 n.a.
Securities pledged 38 Overnight and continuing 39 Term	53,861 5,112	46,851 3,556	47,565 5,075	42,728 4,576	45,538 4.610	48,618 5,279	48,429 5,207	48,920 5,287	48,513 5,483	47,819 5,777	48.445 5,725
Collateralized loans 40 Total	21.841	23,528	21,850	24,391	22,408	26,182	20,734	18,012	17,205	17,062	16,285

securities are included when the time to delivery is more than five business days. Forward contracts for mortgage-backed agency securities are included when the time to delivery is more than thirty business days.

<sup>1.</sup> Data for positions and financing are obtained from reports submitted to the Federal Reserve Bank of New York by the U.S. government securities dealers on its published list of primary dealers. Weekly figures are close-of-business Wednesday data. Positions for calendar days of the report week are assumed to be constant. Monthly averages are based on the number of calendar days in the month.

2. Securities positions are reported at market value.

3. Net outright positions include immediate and forward positions. Net immediate positions include securities purchased or sold (other than mortgage-backed agency securities) that have been delivered or are scheduled to be delivered in five business days or less and "when-issued" securities that settle on the issue date of offering. Net immediate positions for mortgage-backed agency securities include securities purchased or sold that have been delivered or are scheduled to be delivered in thirty business days or less.

Forward positions reflect agreements made in the over-the-counter market that specify delayed delivery. Forward contracts for U.S. Treasury securities and federal agency debt

More than thirty business days.

4. Futures positions reflect standardized agreements arranged on an exchange. All futures positions are included regardless of time to delivery.

5. Overnight financing refers to agreements made on one business day that mature on the next business day; continuing contracts are agreements that remain in effect for more than one business day but have no specific maturity and can be terminated without advance notice by either party, term agreements have a fixed maturity of more than one business day. Financing data are reported in terms of actual funds paid or received, including accrued interest.

NOTE. "n.a" indicates that data are not published because of insufficient activity.

### FEDERAL AND FEDERALLY SPONSORED CREDIT AGENCIES Debt Outstanding

Millions of dollars, end of period

-							1998		
Agency	1994	1995	1996	1997	July	Aug.	Sept.	Oct.	Nov.
1 Federal and federally sponsored agencies	738,928	844,611	925,823	1,022,609	n.a.	n.a.	1,172,575	n.a.	n.a.
2 Federal agencies. 3 Defense Department	39,186 6 3,455 116	37,347 6 2,050 97	29,380 6 1,447 84	27,792 6 552 102	26,990 6 n.a. 156	26,668 6 n.a. 155	26,691 6 n.a. 174	26,350 6 n.a. 188	26,315 6 n.a. 205
participation <sup>5</sup> 7 Postal Service <sup>6</sup> 8 Tennessee Valley Authority 9 United States Railway Association <sup>6</sup>	n.a. 8,073 27,536 n.a.	п.а. 5,765 29,429 п.а.	n.a. n.a. 27,853 n.a.	n.a. n.a. 27,786 п.а.	n.a. n.a. 26,984 n.a.	n.a. n.a. 26,507 n.a.	п.а. п.а. 26,685 п.а.	n.a. n.a. 26,344 n.a.	n.a. n.a. 26,309 n.a.
10 Federally sponsored agencies? 11 Federal Home Loan Banks 12 Federal Home Loan Mortgage Corporation 13 Federal National Mortgage Association 14 Farm Credit Banks 15 Student Loan Marketing Association 16 Financing Corporation 10 17 Farm Credit Financial Assistance Corporation 11 18 Resolution Funding Corporation 12	699,742 205,817 93,279 257,230 53,175 50,335 8,170 1,261 29,996	807,264 243,194 119,961 299,174 57,379 47,529 8,170 1,261 29,996	896.443 263.404 156,980 331,270 60,053 44,763 8,170 1,261 29,996	994,817 313,919 169,200 369,774 63,517 37,717 8,170 1,261 29,996	1,090,715 328,009 208,800 415,229 64,528 33,270 8,170 1,261 29,996	1.103,596 334,494 213,800 423,188 57,910 33,350 8,170 1,261 29,996	1,145,884 343,188 232,994 430,582 64,332 33,760 8,170 1,261 29,996	n.a. 367,274 246,708 431,300 60,720 n.a. 8,170 1,261 29,996	n.a. 373,755 267,890 446,377 66,086 n.a. 8,170 1,261 29,996
MEMO 19 Federal Financing Bank debt <sup>13</sup>	103,817	78,681	58,172	49,090	42,610	42,396	45,955	44,952	44,824
Lending to federal and federally sponsored agencies 20 Export-Import Bank <sup>3</sup> 21 Postal Service <sup>6</sup> 22 Student Loan Marketing Association 23 Tennessee Valley Authority 24 United States Railway Association <sup>6</sup>	3,449 8,073 n.a. 3,200 n.a.	2,044 5,765 n.a. 3,200 n.a.	1,431 n.a. n.a. n.a. n.a. n.a.	552 n.a. n.a. n.a. n.a.	n.a.	n.a.	n.a. ↓	<b>↑</b> n.a. ↓	n.a. ↓
Other lending <sup>14</sup> 25 Farmers Home Administration. 26 Rural Electrification Administration 27 Other.	33,719 17,392 37,984	21,015 17,144 29,513	18,325 16,702 21,714	13,530 14,898 20,110	10,900 14,126 17,584	9,756 14,284 18,356	9,500 14,166 22,289	9,500 14,191 21,261	9,500 14,199 21,125

<sup>1.</sup> Consists of mortgages assumed by the Defense Department between 1957 and 1963 nder family housing and homeowners assistance programs.

2. Includes participation certificates reclassified as debt beginning Oct. 1, 1976.

10. The Financing Corporation, established in August 1987 to recapitalize the Federal

Includes participation certificates reclassified as debt beginning Oct. 1, 1976.
 On-budget since Sept. 30, 1976.
 Consists of debentures issued in payment of Federal Housing Administration insurance claims. Once issued, these securities may be sold privately on the securities market.
 Certificates of participation issued before fiscal year 1969 by the Government National Mortgage Association acting as trustee for the Farmers Home Administration, the Department of Health, Education, and Welfare, the Department of Housing and Urban Development, the Small Business Administration, and the Veterans Administration.
 Off-budget.
 Includes outstanding noncontingent liabilities: notes, bonds, and debentures. Includes Federal Agricultural Mortgage Corporation, therefore details do not sum to total. Some data are estimated.

are estimated.

8. Excludes borrowing by the Farm Credit Financial Assistance Corporation, which is

shown on line 17.

9. Before late 1982, the association obtained financing through the Federal Financing Bank (FFB). Borrowing excludes that obtained from the FFB, which is shown on line 22.

<sup>10.</sup> The Financing Corporation, established in August 1987 to recapitalize the Federal Savings and Loan Insurance Corporation, undertook its first borrowing in October 1987.

11. The Farm Credit Financial Assistance Corporation, established in January 1988 to provide assistance to the Farm Credit System, undertook its first borrowing in July 1988.

12. The Resolution Funding Corporation, established by the Financial Institutions Reform, Recovery, and Enforcement Act of 1989, undertook its first borrowing in October 1989.

13. The FFB, which began operations in 1974, is authorized to purchase or sell obligations issued, sold, or guaranteed by other federal agencies. Because FFB incurs debt solely for the purpose of lending to other agencies, its debt is not included in the main portion of the table to avoid double counting.

14. Includes FFB purchases of agency assets and guaranteed loans; the latter are loans guaranteed by numerous agencies, with the amounts guaranteed by any one agency generally being small. The Farmers Home Administration entry consists exclusively of agency assets, whereas the Rural Electrification Administration entry consists of both agency assets, whereas the Rural Electrification Administration entry consists of both agency assets,

whereas the Rural Electrification Administration entry consists of both agency assets and guaranteed loans.

## 1.45 NEW SECURITY ISSUES Tax-Exempt State and Local Governments

Millions of dollars

Type of issue or issuer,	100/	1007	1000				1998		_		1999
or use	1996	1997	1998	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
l All issues, new and refunding 1	171,222	214,694	262,342	29,665	22,599	20,344	17,526	19,528	19,325	24,288	16,926
By type of issue 2 General obligation 3 Revenue	60,409 110,813	69,934 134,989	87,015 175,327	10,135 19,530	6,515 16,084	5,812 14.532	5,619 11,907	6,791 12,737	5,433 13,892	8,632 15,656	6,925 10,001
By type of issuer 4 State 5 Special district or statutory authority <sup>2</sup> 6 Municipality, county, or township	13,651 113,228 44,343	18,237 134,919 70,558	23,506 178,421 60,173	2,809 18,099 7,220	1,972 16,244 5,673	1,483 14,233 4,628	1,280 12,490 3,756	1,865 12,924 4,739	778 13,473 5,073	2,561 15,937 5,790	318 12,929 3,679
7 Issues for new capital	112,298	135,519	160,568	19,341	15,895	11,258	9,106	12,736	12,452	14,517	11,917
By use of proceeds 8 Education 9 Transportation 10 Utilities and conservation 11 Social welfare 12 Industrial aid 13 Other purposes	26,851 12,324 9,791 24,583 6,287 32,462	31,860 13,951 12,219 27,794 6,667 35,095	36,904 19,926 21,037 n.a. 8,594 42,450	4,911 2,962 2,368 n.a. 563 5,279	2,733 3,677 795 n.a. 1,002 4,674	2,435 1,982 1,179 n.a. 709 2,764	2,041 918 831 n.a. 315 2,726	2,605 1,598 2,785 n.a. 471 3,359	2.353 806 2,225 n.a. 638 3,242	2,766 1,800 984 n.a. 1,376 4,477	2,936 1,706 672 n.a. 452 4,439

Par amounts of long-term issues based on date of sale.
 Includes school districts.

SOURCE. Securities Data Company beginning January 1990; Investment Dealer's Digest before then.

### 1.46 NEW SECURITY ISSUES U.S. Corporations

Millions of dollars

Type of issue, offering,	1006	1005					19	98			
or issuer	1996	1997	1998	May	June	July	Aug.	Sept.	Oct.	Nov.r	Dec.
1 All issues <sup>1</sup>	n.a.	n.a.	n.a.	84,449	109,687	77,750	60,708	85,833	70,907	104,288	73,001
2 Bonds <sup>2</sup>	n.a.	n.a.	n.a.	70,313	93,243	68,133	57,145	81,352	62,692	95,910	65,140
By type of offering 3 Public, domestic 4 Private placement, domestic 5 Sold abroad	465,489 n.a. 83,433	537,880 n.a. 103,188	n.a. n.a. n.a.	56,965 7,600 5,748	78,280 7,600 7,363	54,266 7,600 6,267	45,745 7,600 3,800	71,134 7,600 2,618	48,256 7,600 6,837	80,556 7,600 7,754	54,279 7,600 3,261
By industry group 6 Nonfinancial	n.a. 429,157	n.a. 510,953	n.a. n.a.	20,456 49,857	24,444 68,799	24,821 43,313	20,399 36,746	16,562 64,790	16,632 46,060	31,911 63,999	20,400 44,741
8 Stocks <sup>2</sup>	122,006	117,880	126,577	14,700	17,111	9,772	3,725	4,640	8,655	8,902	8,492
By type of offering 9 Public	122,006 n.a.	117,880 n.a.	126,577 n.a.	14,700 n.a.	17,111 n.a.	9,772 n.a.	3,725 n.a.	4,640 n.a.	8,655 n.a.	8,902 n.a.	8,492 n.a.
By industry group 11 Nonfinancial	80,460 41,546	60,386 57,494	73,944 52,633	9,271 5,429	10,248 6,863	6,390 3,382	2,560 1,165	2,266 2,374	5,879 2,776	6,145 2,757	7,390 1,102

Figures represent gross proceeds of issues maturing in more than one year; they are the
principal amount or number of units calculated by multiplying by the offering price. Figures
exclude secondary offerings, employee stock plans, investment companies other than closedend, intracorporate transactions, and Yankee bonds. Stock data include ownership securities
issued by limited partnerships.

Monthly data cover only public offerings.
 Monthly data are not available.
 SOURCE. Beginning July 1993, Securities Data Company and the Board of Governors of the Federal Reserve System.

### 1.47 OPEN-END INVESTMENT COMPANIES Net Sales and Assets<sup>1</sup>

Millions of dollars

						1998				1999
[tem	1997	1998 <sup>r</sup>	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Sales of own shares <sup>2</sup>	1,190,900	1,461,430	122,288	134,801	111,587	118,478	116,471	112,627	140,700	160,486
2 Redemptions of own shares	918,728 272.172	1,217,022 244,408	97,899 24,389	107,368 27,433	118,812 -7,225	107.049 11.429	108,838 7,633	89,702 22,925	134,289 6,412	135,683 24,802
4 Assets <sup>4</sup>	3,409,315	4,173,531	3,986,952	3,957,093	3,479,401	3,625,841	3,804,591	4,002,089	4,173,531	4,301,012
5 Cash <sup>5</sup>	174,154 3,235,161	191,393 3,982,138	199,135 3,787,817	195,966 3,761,127	194,435 3,284,967	211,253 3,414,588	210,026 3,594,565	207,422 3,794,667	191,393 3,982,138	203,663 4,097,349

<sup>1.</sup> Data include stock, hybrid, and bond mutual funds and exclude money market mutual

### 1.48 CORPORATE PROFITS AND THEIR DISTRIBUTION

Billions of dollars: quarterly data at seasonally adjusted annual rates

	1004	1007	1000		19	97			19	98	
Account	1996	1997	1998	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4
1 Profits with inventory valuation and capital consumption adjustment 2 Profits before taxes. 3 Profits-tax hability. 4 Profits after taxes. 5 Dividends. 6 Undistributed profits	750.4	817.9	n.a.	794.3	815.5	840.9	820.8	829.2	820.6	827.0	n.a.
	680.2	734.4	n.a.	712.4	729.8	758.9	736.4	719.1	723.5	720.5	n.a.
	226.1	246.1	n.a.	238.8	241.9	254.2	249.3	239.9	241.6	243.2	n.a.
	454.1	488.3	n.a.	473.6	487.8	504.7	487.1	479.2	481.8	477.3	n.a.
	261.9	275.1	279.2	274.1	274.7	275.1	276.4	277.3	278.1	279.0	282.3
	192.3	213.2	n.a.	199.5	213.2	229.5	210.6	201.8	203.7	198.3	n.a.
7 Inventory valuation	-12	6.9	n.a.	8.1	10.3	4.8	4.3	25.3	7.8	11.7	n.a.
	714	76.6	92.2	73.8	75.5	77.2	80.1	84.9	89.4	94.8	99.7

SOURCE, U.S. Department of Commerce, Survey of Current Business.

### DOMESTIC FINANCE COMPANIES Assets and Liabilities<sup>1</sup>

Billions of dollars, end of period; not seasonally adjusted

					19	997	1998			
Account	1994	1995	1996	Q1	Q2	Q3	Q4	QI	Q2	Q3
ASSETS										
1 Accounts receivable, gross <sup>2</sup> 2 Consumer 3 Business 4 Real estate	543.7 201.9 274.9 66.9	607.0 233.0 301.6 72.4	637.1 244.9 309.5 82.7	648.0 249.4 315.2 83.4	651.6 255.1 311.7 84.8	660.5 254.5 319.5 86.4	663.3 256.8 318.5 87.9	667.2 251.7 325.9 89.6	676.0 251.3 334.9 89.9	688.6 254.9 335.1 98.5
5 LESS: Reserves for unearned income. 6 Reserves for losses.	52.9 11.3	60.7 12.8	55.6 13.1	51.3 12.8	57.2 13.3	54.6 12.7	52.7 13.0	52.1 13.1	53.2 13.2	52.4 13.2
7 Accounts receivable, net	479.5 216.8	533.5 250.9	568.3 290.0	583.9 289.6	581.2 306.8	593.1 289.1	597.6 312.4	601.9 329.7	609.6 340.1	622.9 313.7
9 Total assets	696.3	784.4	858.3	873.4	887.9	882.3	910.0	931.6	949.7	936.6
LIABILITIES AND CAPITAL										
10 Bank loans	14.8 171.6	15.3 168.6	19.7 177.6	18.4 185.3	18.8 193.7	20.4 189.6	24.1 201.5	22.0 211.7	22.3 225.9	24.9 226.9
Debt 12 Owed to parent 13 Not elsewhere classified 14 All other liabilities 15 Capital, surplus, and undivided profits	41.8 247.4 146.2 74.6	51.1 300.0 163.6 85.9	60.3 332.5 174.7 93.5	61.0 324.6 189.2 94.9	60.0 345.3 171.4 98.7	61.6 322.8 190.1 97.9	64.7 328.8 189.6 101.3	64.6 338.2 193.1 102.1	60.0 348.7 188.9 103.9	58.3 337.6 185.4 103.6
16 Total liabilities and capital	696.3	784.4	858.3	873.4	887.9	882.3	910.0	931.6	949.7	936.6

<sup>1.</sup> Includes finance company subsidiaries of bank holding companies but not of retailers and banks. Data are amounts carried on the balance sheets of finance companies; securitized pools are not shown, as they are not on the books.

funds.

2. Excludes reinvestment of net income dividends and capital gains distributions and share

issue of conversions from one fund to another in the same group.

3. Excludes sales and redemptions resulting from transfers of shares into or out of money market mutual funds within the same fund family.

<sup>4.</sup> Market value at end of period, less current liabilities.

<sup>4.</sup> Water value a first or period, less certain fractions.
5. Includes all U.S. Treasury securities and other short-term debt securities.
SOURCE. Investment Company Institute. Data based on reports of membership, which comprises substantially all open—end investment companies registered with the Securities and Exchange Commission. Data reflect underwritings of newly formed companies after their initial offering of securities.

<sup>2.</sup> Before deduction for unearned income and losses.

### 1.52 DOMESTIC FINANCE COMPANIES Owned and Managed Receivables<sup>1</sup>

Billions of dollars, amounts outstanding

			1998							
Type of credit	1996	1997	1998	July	Aug.	Sept.	Oct.	Nov.	Dec.	
	Seasonally adjusted									
l Total	761.9	809.8	885.1	840.6	846.4	853.5	867.2	872.7	885.1	
2 Consumer. 3 Real estate. 4 Business.	307 7 111.9 342.4	327.7 121.1 361.0	356.2 135.3 393.6	336.6 125.2 378.7	339.1 128.1 379.2	343.9 128.8 380.7	351.7 132.3 383.2	353.8 134.3 384.7	356.2 135.3 393.6	
	Not seasonally adjusted									
5 Total	769.7	818.1	894.3	835.2	842.6	850.0	865.5	874.4	894.3	
6 Consumer. 7 Motor vehicles loans. 8 Motor vehicle leases. 9 Revolving. 10 Other. Securitized assets. 11 Motor vehicle leases. 12 Motor vehicle leases. 13 Revolving. 14 Other. 15 Real estate. 16 One- to four-family. 17 Other. 18 Securitized real estate assets. 19 One- to four-family. 10 One- to four-family.	310.6 86.7 92.5 32.5 33.2 36.8 8.7 0.0 20.1 111.9 52.1 30.5	330.9 87.0 96.8 38.6 34.4 44.3 10.8 0.0 19.0 121.1 59.0 28.9 33.0	359.8 103.1 93.0 36.0 33.2 54.8 14.7 6.7 18.1 135.3 75.1 31.1	338.5 91.7 97.3 29.6 35.0 50.2 10.8 5.3 18.5 125.2 65.9 28.5	340.5 95.3 96.9 30.2 34.7 49.2 10.7 5.3 18.2 128.1 68.6 28.7 30.7	344.9 96.2 94.9 29.3 34.6 51.8 14.2 5.3 18.8 128.8 68.4 30.1	351.2 97.6 94.6 34.6 34.6 51.6 14.4 5.3 18.6 132.3 72.2 30.2 29.8	353.9 99.0 94.4 34.7 34.6 53.4 14.2 5.3 18.4 134.3 74.1 30.7	359.8 103.1 93.0 36.0 33.2 54.8 14.7 6.7 18.1 135.3 75.1 31.1 29.0	
19	0.4 347.2 67.1 25.1 33.0 9.0 194.8 59.9 134.9 47.6	0.2 366.1 63.5 25.6 27.7 10.2 203.9 51.5 152.3 51.1	0.1 399.2 74.9 29.3 33.5 12.1 221.4 51.9 169.5 59.2	0.1 371.5 61.1 29.2 21.0 10.9 212.8 51.6 161.2 54.5	0.1 374.0 62.5 29.6 22.0 10.9 212.0 51.8 160.2 57.0	0.1 376.2 65.5 30.0 24.2 11.3 210.8 47.9 162.9 58.9	0.1 382.0 68.5 30.4 27.0 11.1 211.5 47.2 164.3 59.6	0.1 386.3 70.9 29.4 30.3 11.2 212.0 47.8 164.2 60.4	0.1 399.2 74.9 29.3 33.5 12.1 221.4 51.9 169.5 59.2	
29	24.0 2.7 21.3 0.0 11.3 4.7 6.6 2.4	33.0 2.4 30.5 0.0 10.7 4.2 6.5 4.0	27.0 2.3 24.7 0.0 11.5 5.2 6.3 5.3	26.3 2.2 24.1 0.0 11.5 5.1 6.4 5.4	25.9 2.1 23.8 0.0 11.4 4.9 6.4 5.2	24.5 2.0 22.5 0.0 11.3 4.9 6.4 5.3	25.0 1.9 23.2 0.0 12.0 5.6 6.4 5.2	25.8 2.4 23.4 0.0 11.8 5.4 6.4 5.3	27.0 2.3 24.7 0.0 11.5 5.2 6.3 5.3	

NOTE. This table has been revised to incorporate several changes resulting from the benchmarking of finance company receivables to the June 1996 Survey of Finance Companies. In that benchmark survey, and in the monthly surveys that have followed, more detailed breakdowns have been obtained for some components. In addition, previously unavailable data on securifized real estate loans are now included in this table. The new information has resulted in some reclassification of receivables among the three major categories (consumer, real estate, and business) and in discontinuities in some component series between May and June 1996.

Includes finance company subsidiaries of bank holding companies but not of retailers and banks. Data in this table also appear in the Board's G.20 (422) monthly statistical release. For ordering address, see inside front cover.

1. Owned receivables are those carried on the balance sheet of the institution. Managed receivables are outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator. Data are shown

before deductions for unearned income and losses. Components may not sum to totals because of rounding.

2. Excludes revolving credit reported as held by depository institutions that are subsidiar-

- ies of finance companies.

  3. Includes personal cash loans, mobile home loans, and loans to purchase other types of consumer goods such as appliances, apparel, boats, and recreation vehicles.

  4. Outstanding balances of pools upon which securities have been issued; these balances are no longer carned on the balance sheets of the loan originator.
- 5. Credit arising from transactions between manufacturers and dealers, that is, floor plan financing.
- 6. Includes loans on commercial accounts receivable, factored commercial accounts, and receivable dealer capital; small loans used primarily for business or farm purposes; and wholesale and lease paper for mobile homes, campers, and travel trailers.

#### Domestic Financial Statistics ☐ April 1999 A34

### 1.53 MORTGAGE MARKETS Mortgages on New Homes

Millions of dollars except as noted

Item	1996	1007	1998	1998						
		1997		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	Terms and yields in primary and secondary markets									
PRIMARY MARKETS	· ·									
Terms <sup>1</sup> 1 Purchase price (thousands of dollars) 2 Amount of loan (thousands of dollars) 3 Loan-to-price ratio (percent) 4 Maturity (years) 5 Fees and charges (percent of loan amount) <sup>2</sup>	182.4 139.2 78.2 27.2 1.21	180.1 140.3 80.4 28.2 1.02	195.2 151.1 80.0 28.4 0.89	208.7 160.1 78.7 28.5 0.90	191.5 150.4 81.3 28.6 0.87	192.7 150.8 80.9 28.7 0.85	201.4 155.8 79.8 28.6 0.86	192.1 148.1 79.5 28.3 0.76	206.0 159.0 79.4 28.7 0.98	202.3 153.3 78.0 28.4 1.01
Yield (percent per year) 6 Contract rate '.' 7 Effective rate '.' 8 Contract rate (HUD series) <sup>4</sup>	7.56 7.77 8.03	7.57 7.73 7.76	6.95 7.08 7.00	6.99 7.13 7.05	6.95 7.09 6.86	6.85 6.98 6.64	6.72 6.85 6.86	6.68 6.80 6.84	6.80 6.94 6.83	6.81 6.96 6.80
SECONDARY MARKETS										
Yield (percent per year) 9 FHA mongages (Section 203) <sup>5</sup>	8.19 7.48	7.89 7.26	7.04 6.43	7,05 6.48	7.03 6.42	6.53 6.05	7.07 6.10	7.02 6.25	7.06 6.18	7.08 6.18
	Activity in secondary markets									
FEDERAL NATIONAL MORTGAGE ASSOCIATION										
Mortgage holdings (end of period) 11 Total 12 FHA/VA insured 13 Conventional	287,052 30,592 256,460	316,678 31,925 284,753	414,515 33,770 380,745	359,827 33,036 326,791	366,890 32,929 333,961	375,665 32,903 342,762	386,452 32,814 353,638	399,804 33,420 366,384	414,515 33,770 380,745	418,323 33,483 384,840
14 Mortgage transactions purchased (during period)	68,618	70,465	188,448	17,326	14,316	15,681	18,967	23,557	26,222	14,005
Mortgage commitments (during period) 15 Issued  16 To sell  18	65,859 130	69,965 1,298	193,795 1,880	13,217 419	17,016 233	16,282 249	30,551 393	17,994 0	16,803 434	20,754
FEDERAL HOME LOAN MORTGAGE CORPORATION										
Mortgage holdings (end of period) <sup>8</sup>   17   Total	137,755 220 137,535	164,421 177 164.244	255,010 <sup>r</sup> 785 <sup>r</sup> 254,225 <sup>r</sup>	202,582 456 202,126	206,856 489 206,367	216.521 569 215,952	231,458 569 230,889	242,270 602 241,668	255,010 <sup>r</sup> 785 <sup>r</sup> 254,225 <sup>t</sup>	257,062 387 256,675
Mortgage transactions (during period) 20 Purchases	125,103 119,702	117,401 114,258	267,402 250,565	22,605 22,263	21,507 20,634	25,366 24,294	20.629 19,472	23,986 22,660	34,299 28,024	27,672 31,422
22 Mortgage commitments contracted (during period) $^9 \dots$	128,995	120,089	281,899	23,528	24,694	23,375	25,025	28,903	29,703	23,900

Weighted averages based on sample surveys of mortgages originated by major institu-tional lender groups for purchase of newly built homes; compiled by the Federal Housing Finance Board in cooperation with the Federal Deposit Insurance Corporation.
 Includes all fees, commissions, discounts, and "points" paid (by the borrower or the seller) to obtain a loan.

Average effective interest rate on loans closed for purchase of newly built homes.
 Average effective interest rate on loans closed for purchase of newly built homes.
 Average contract rate on new commitments for conventional first mortgages; from U.S. Department of Housing and Urban Development (HUD). Based on transactions on the first

- 6. Average net yields to investors on fully modified pass-through securities backed by mortgages and guaranteed by the Government National Mortgage Association (GNMA), assuming prepayment in twelve years on pools of thirty-year mortgages insured by the Federal Housing Administration or guaranteed by the Department of Veterans Affairs.
  7. Does not include standby commitments issued, but includes standby commitments converted.
- converted.

Department of Frousing and original Development (1100). Based on Management and day of the subsequent month.

5. Average gross yield on thirty-year, minimum-downpayment first mortgages insured by the Federal Housing Administration (FHA) for immediate delivery in the private secondary market. Based on transactions on first day of subsequent month.

converted.

8. Includes participation loans as well as whole loans.

9. Includes conventional and government-underwritten loans. The Federal Home Loan Motgage Corporation's mortgage commitments and mortgage transactions include activity under mortgage securities swap programs, whereas the corresponding data for FNMA exclude swap activity.

### 1.54 MORTGAGE DEBT OUTSTANDING1

Millions of dollars, end of period

				19	97	1998			
Type of holder and property	1994	1995	1996	Q3	Q4	QI	Q2	Q3 <sup>p</sup>	
1 All holders	4,392,794	4,602.654	4,929,422	5,180,913	5,279,327	5,379,351	5,502,583	5,642,865	
By type of property 2 One- to four-family residences 3 Multifamily residences 4 Nonfarm, nonresidential 5 Farm	3,355,485 271,748 682,590 82,971	3,529,403 281,592 707,098 84,561	3,761,017 300,559 780,713 87,134	3,956,813 308,417 825,922 89,760	4,029,268 314,585 845,057 90,417	4.101,294 320,229 866,402 91,425	4,192,363 326,532 890,708 92,980	4,297,628 332,922 918,020 94,295	
By type of holder 6 Major financial institutions 7 Commercial banks 8 One- to four-family 9 Multifamily 10 Nonfarm, nonresidential 11 Farm 12 Savings institutions 13 One- to four-family 14 Multifamily 15 Nonfarm, nonresidential 16 Farm 17 Life insurance companies 18 One- to four-family 19 Multifamily 19 Multifamily 19 Nonfarm, nonresidential 20 Nonfarm, nonresidential 21 Farm	1,819,806 1,012,711 615,861 39,346 334,953 22,551 596,191 477,626 64,343 53,933 289 210,904 7,018 23,902 170,421 9,563	1,894,420 1,090,189 669,434 43,837 353,088 23,830 596,763 482,253 61,987 52,135 288 207,468 27,316 23,435 167,095 9,622	1,979,114 1,145,389 698,508 46,675 375,322 24,883 628,335 513,712 61,570 52,723 331 205,390 6,772 23,197 165,399 10,022	2,068,002 1,227,131 752,323 49,166 398,841 26,801 631,444 519,364 60,348 51,187 346 209,426 7,080 23,615 168,374 10,358	2.086,764 1.244,151 762,556 50,642 403,975 26,978 631,822 520,672 59,543 51,252 7,186 23,755 169,377 10,473	2,119,323 1,270,076 779,954 51,790 410,876 27,456 637,012 527,036 59,074 50,532 369 212,235 7,321 23,902 170,423 10,589	2.124,305 1.280,778 784,957 52,175 415,329 28,316 629,882 520,276 58,704 50,519 383 213,645 7,488 24,038 171,393 10,726	2,144,075 1,295,721 784,958 53,049 429,032 28,682 633,281 525,174 56,631 51,078 308 215,073 7,629 24,181 10,851	
22 Federal and related agencies 23 Government National Mortgage Association 24 One- to four-family 25 Multifamily 26 Farmers Home Administration* 27 One- to four-family 28 Multifamily 29 Nonfarm, nonresidential 30 Farm 31 Federal Housing and Veterans' Administrations 32 One- to four-family 33 Multifamily 34 Resolution Trust Corporation 35 One- to four-family 36 Multifamily 37 Nonfarm, nonresidential 38 Farm 39 Federal Deposit Insurance Corporation 40 One- to four-family 41 Multifamily 42 Nonfarm, nonresidential 43 Farm 44 Federal National Mortgage Association 45 One- to four-family 46 Multifamily 47 Federal National Mortgage Association 48 One- to four-family 49 Farm 49 Federal Home Loan Mortgage Corporation 50 Federal Home Loan Mortgage Corporation 51 One- to four-family	315.580 6 6 6 6 7 11.319 5,670 6,694 10,964 4,753 6,211 10,428 5,200 2,859 2,369 0 7,821 1,049 1,595 5,177 0 174,312 158,766 15,546 28,555 1,671 26.885 41,712 38.885 2,830	306,774 2 2 0 41,791 17,705 11.617 6,248 6,221 9,809 1,864 691 647 525 0 4,303 492 428 3,383 0 176,824 161,665 15,159 28,428 1,673 26,755 39,901 3,852	300,935 2 2 0 41,596 17,303 11,685 6,841 3,524 2,719 0 0 0 0 2,431 365 413 1,653 0 174,555 160,751 13,805 29,602 1,742 27,860 41,758 41,758	291,410 7 7 9 41,332 17,458 11,713 7,246 4,916 3,462 1,437 2,025 0 0 0 1,476 221 251 1,004 0 168,458 150,363 12,095 30,346 1,786 28,560 40,953 5,376	292.581 8 8 8 41,195 17.253 11,720 7.370 4,852 3,821 1,767 2,054 0 0 0 0 724 109 123 492 0 167,722 156,245 11,477 30,657 1,804 28,853 48,454 42,629 5,825 5,825	293,499  8  8  8  40,972  17.160  11.714  7.369  4.779  3.694  2.053  0  0  0  786  118  134  0  155.876  10.794  31,905  1,824  29,181  50,364  41,440  5,924	294,547 8 8 8 40,921 17,959 11,722 7,497 4,644 3,631 1,610 2,021 0 0 0 564 85 96 384 0 167,202 156,769 10,433 31,352 1,845 29,507 50,889 44,597 6,272	294,307 7 7 7 0 40,907 11,736 7,566 4,579 3,448 1,593 1,855 0 0 0 482 322 82 328 0 166,248 150,208 10,035 32,009 1,883 30,126 51,211 44,254 6,957	
53 Mortgage pools or trusts 5 54 Government National Mortgage Association 55 One- to four-family 56 Multifamily 57 Federal Home Loan Mortgage Corporation 58 One- to four-lamily 60 Federal National Mortgage Association 61 One- to four-family 62 Multifamily 63 Farmers Home Administration 4 64 One- to four-family 65 Multifamily 66 Nonfarm, nonresidential 67 Farm 68 Private mortgage conduits 69 One- to four-family 5 70 Multifamily 71 Nonfarm, nonresidential 72 Farm	1,730,004 450,934 441,198 9,736 490,851 487,725	1,863,210 472,283 461,438 10,845 515,051 512,238 2,813 582,959 569,724 13,235 11 2 0 5 4 292,906 227,800 15,584 49,522 0	2.064,882 506,340 494,158 12,182 554,260 551,513 2.747 650,780 0 0 0 0 3 353,210 17,570 3 0 0 0 0 21,967 69,633 0	2,202,549 529,867 516,217 13,650 569,920 567,340 2,580 690,919 670,677 20,242 2 0 0 0 0 2,411,841 299,400 25,655 86,786	2.272.999 536.810 523.156 13.654 579.385 576.846 2.539 709.582 0 0 0 0 21.601 21.601 21.601 21.601 29.264 99.955 0	2.330,674 533,011 519,152 13,859 583,144 580,715 2,429 730,832 708,125 22,707 2 0 0 0 0 483,685 33,477 113,384	2.442,603 537,586 523,243 14,343 609,791 607,469 2.322 761,359 737,631 23,728 2 0 0 0 0 2 533,865 364,316 38,144 131,405 0	2,548,050 541,431 526,934 14,497 635,726 633,124 2,602 798,460 0 0 0 2 572,431 391,736 40,893 139,802 0	
73   Individuals and others   7   74   One- to four-family   75   Multifamily   76   Nonfarm, nonresidential   77   Farm   77   78   79   79   79   79   79   79	527,404 368,366 69,611 72,445 16,983	538,251 371,789 73,524 75,097 17,841	584,491 375,798 81,282 109,143 18,268	618,951 405,988 81,702 112,485 18,777	626,984 413,057 82,387 112,636 18,904	635,855 421,100 82,372 113,283 19,100	641,129 425,010 82,535 114,182 19,402	656,433 436,052 82,921 117,803 19,657	

Multifamily debt refers to loans on structures of five or more units.
 Includes loans held by nondeposit trust companies but not loans held by bank trust

Includes loans held by nondeposit trust companies but not loans held by bank trust departments.
 Includes savings banks and savings and loan associations.
 FmHA-guaranteed securities sold to the Federal Financing Bank were reallocated from FmHA mortgage pools to FmHA mortgage holdings in 1986.Q4 because of accounting changes by the Farmers Home Administration.
 Outstanding principal balances of mortgage-backed securities insured or guaranteed by the agency indicated.

<sup>6.</sup> Includes securitized home equity Joans.
7. Other holders include mortgage companies, real estate investment trusts, state and local credit agencies, state and local retirement funds, noninsured pension funds, credit unions, and finance companies.

SOURCE, Based on data from various institutional and government sources. Separation of nonfarm mortgage debt by type of property, if not reported directly, and interpolations and extrapolations, when required for some quarters, are estimated in part by the Federal Reserve. Line 69 from Inside Mortgage Securities and other sources

#### A36 Domestic Financial Statistics ☐ April 1999

#### 1.55 CONSUMER CREDIT<sup>1</sup>

Miliions of dollars, amounts outstanding, end of period

						19	98		
Holder and type of credit	1996	1997	1998	July	Aug.	Sept.	Oct.	Nov.	Dec.
				Se	asonally adjust	ed			
1 Total	1,181,913	1,233,099	1,308,376	1,269,844	1,277,412	1,285,346	1,297,171	1,301,122 <sup>r</sup>	1,308,376
2 Automobile 3 Revolving. 4 Other <sup>2</sup> .	392,321 499,486 290,105	413,369 531,140 288,590	447,181 558,592 302,603	428,121 543,612 298,111	432,240 548,747 296,425	434,964 552,462 297,920	436,966 557,093 303,113	441,342 <sup>r</sup> 556,404 <sup>r</sup> 303,376 <sup>r</sup>	447,181 558,592 302,603
				Not	seasonally adju	sted			
5 Total	1,211,590	1,264,103	1,340,919	1,262,958	1,277,611	1,288,362	1,299,809	1,309,001 <sup>r</sup>	1,340,919
By major holder 6 Commercial banks 7 Finance companies 8 Credit unions 9 Savings institutions 10 Nonfinancial business <sup>3</sup> 11 Pools of securitized assets <sup>4</sup>	526,769 152,391 144,148 44,711 77,745 265,826	512,563 160,022 152,362 47,172 78,927 313,057	513,558 172,406 157,066 52,284 74,894 370,711	491,507 156,366 153,735 48,989 65,478 346,883	498,219 160,151 154,146 49,648 66,004 349,443	497,860 160,078 155,167 50,307 65,557 359,393	501,982 166,861 156,043 50,966 65,949 358,008	500,383 168,262 156,521 <sup>r</sup> 51,625 66,632 365,578	513,558 172,406 157,066 52,284 74,894 370,711
By major type of credit <sup>5</sup> 12 Automobile	395,609 157,047 86,690 51,719	416,962 155,254 87,015 64,950	451,138 157,928 103,115 72,955	429,723 153,203 91,741 72,470	434,924 155,508 95,257 70,766	438,965 156,287 96,183 72,146	442,255 156,788 97,637 71,788	445,467 <sup>r</sup> 157,126 98,954 72,582	451,138 157,928 103,115 72,955
16 Revolving 17 Commercial banks 18 Finance companies 19 Nonfinancial business <sup>3</sup> 20 Pools of securitized assets <sup>4</sup>	522,860 228,615 32,493 44,901 188,712	555,858 219,826 38,608 44,966 221,465	584,516 207,838 36,047 39,193 270,594	537,349 197,646 29,605 33,807 246,635	545,564 200,424 30,155 34,009 251,165	549,786 197,615 29,312 33,743 259,348	555,456 199,234 34,597 33,762 258,139	559,080 <sup>r</sup> 195,377 34,696 33,787 265,311	584,516 207,838 36,047 39,193 270,594
21 Other 22 Commercial banks 23 Finance companies 24 Nonfinancial business <sup>1</sup> 25 Pools of securitized assets <sup>4</sup>	293,121 141,107 33,208 32,844 25,395	291,283 137,483 34,399 33,961 26,642	305,265 147,792 33,244 35,701 27,162	295,886 140,658 35,020 31,671 27,778	297,123 142,287 34,739 31,995 27,512	299,611 143,958 34,583 31,814 27,899	302,098 145,960 34,627 32,187 28,081	304,454 <sup>r</sup> 147,880 34,612 32,845 27,685	305,265 147,792 33,244 35,701 27,162

<sup>1.</sup> The Board's series on amounts of credit covers most short- and intermediate-term credit

#### TERMS OF CONSUMER CREDIT<sup>1</sup>

Percent per year except as noted

	1006	4007	4000				1998			
Item	1996	1997	1998	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
INTEREST RATES							_			
Commercial banks <sup>2</sup> 1 48-month new car	9.05	9.02	8.72	n.a.	n.a.	8.71	n.a.	n.a.	8.62	n.a.
	13.54	13.90	13.74	n.a.	n.a.	13.45	n.a.	n.a.	13.75	n.a.
Credit card plan 3 All accounts	15.63 15.50	15.77 15.57	15.71 15.63	n.a. n.a.	n.a. n.a.	15.83 15.85	n.a. n.a.	n.a. n.a.	15.69 15.72	п.а.
Auto finance companies 5 New car	9.84	7.12	6.30	6.02	6.23	6.00	5.92	6.33	6.79	6.43
	13.53	13.27	12.64	12.63	12.51	12.68	12.65	12.58	12.41	12.31
OTHER TERMS <sup>3</sup>	ı			ļ						
Maturity (months) 7 New car	51.6	54.1	52.1	50.9	51.7	53.0	53.1	53.1	52.8	52.2
	51.4	51.0	53.5	54.0	54.1	54.1	54.2	54.2	54.3	54.2
Loan-to-value ratio 9 New car	91	92	92	91	92	93	93	92	91	91
	100	99	99	100	100	101	101	100	100	100
Amount financed (dollars)  11 New car	16,987	18,077	19,083	18,878	19,084	19,068	19,028	19,199	19,590	19,734
	12,182	12,281	12,691	12,698	12,733	12,407	12,731	12,914	13,112	13,202

<sup>1.</sup> The Board's series on amounts of credit covers most short- and intermediate-term credit extended to individuals. Data in this table also appear in the Board's G.19 (421) monthly statistical release. For ordering address, see inside front cover.

<sup>1.</sup> The Board's series on amounts of rectuit covers most snort- and intermediate-term credit extended to individuals. Data in this table also appear in the Board's G.19 (421) monthly statistical release. For ordering address, see inside front cover.

2. Comprises mobile home loans and all other loans that are not included in automobile or revolving credit, such as loans for education, boats, trailers, or vacations. These loans may be secured or unsecured.

<sup>3.</sup> Includes retailers and gasoline companies.
4. Outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator.
5. Totals include estimates for certain holders for which only consumer credit totals are available.

Data are available for only the second month of each quarter.
 At auto finance companies.

#### 1.57 FUNDS RAISED IN U.S. CREDIT MARKETS<sup>1</sup>

Billions of dollars; quarterly data at seasonally adjusted annual rates

							1997			19	98 <sup>r</sup>	
Transaction category or sector	1993	1994	1995	1996	1997	Q2	Q3	Q4	Qι	Q2	Q3	Q4
			_			Nonfinanc	ial sectors					
Total net borrowing by domestic nonfinancial sectors	587.1°	577.1′	703.4 <sup>r</sup>	720.3°	736.9 <sup>r</sup>	612.0°	826.5°	858.3 <sup>r</sup>	904.7	925.4	855.5	1,118.3
By sector and instrument 2 Federal government 3 Treasury securities 4 Budget agency securities and mortgages	256.1 248.3 7.8	155.9 155.7 .2	144.4 142.9 1.5	145.0 146.6 -1.6	23.1 23.2 1	-43.5 -43.8 .2	30.3 31.2 9	40.8 39.0 1.7	-30.0 -27.6 -2.4	-70.9 -69.4 -1.4	-136.5 -136.1 4	26.9 14.7 12.2
5 Nonfederal	331.0 <sup>r</sup>	421.3 <sup>t</sup>	558.91	575.3'	713.8 <sup>r</sup>	655.6 <sup>r</sup>	796.2	817.5 <sup>r</sup>	934.7	996.2	991.9	1,091.4
By instrument Commercial paper Municipal securities and loans Corporate bonds Bank loans n.e.c. Mortgages Home Multifamily residential Commercial Farm Consumer credit	10.0 74.8 75.2 6.4 -18.9 122.9 <sup>t</sup> 156.1 <sup>t</sup> -4.7 <sup>r</sup> -29.6 <sup>r</sup> 1.0 60.7	21.4 -35.9 23.3 75.2 34.0 178.4 <sup>r</sup> 179.7 <sup>c</sup> .5 <sup>r</sup> -4.1 <sup>r</sup> 2.2 124.9	18.1 -48.2 73.3 101.4 <sup>t</sup> 67.2 208.t <sup>f</sup> 176.0 <sup>t</sup> 9.7 <sup>t</sup> 20.9 <sup>t</sup> 1.6 138.9	9 2.6 72.5 63.0° 36.4° 313.0° 256.4° 17.1° 36.9° 2.6 88.8	13.7 71.4 90.7 106.3 <sup>r</sup> 66.2 <sup>t</sup> 312.9 <sup>r</sup> 243.0 <sup>t</sup> 15.1 <sup>r</sup> 51.6 <sup>r</sup> 3.2 <sup>t</sup> 52.5	20.3 59.6 86.1 114.1 <sup>r</sup> 20.8 295.2 <sup>r</sup> 211.7 <sup>r</sup> 18.9 <sup>r</sup> 60.1 <sup>r</sup> 4.5 <sup>r</sup> 59.5	14.5 88.9 122.9 29.0' 78.1' 412.5' 334.0' 14.7' 60.3' 3.5f 50.3	12.8 103.2 74.4 138.6 <sup>r</sup> 142.3 <sup>r</sup> 308.4 <sup>r</sup> 208.6 <sup>r</sup> 27.0 <sup>r</sup> 69.9 <sup>r</sup> 2.9 <sup>r</sup> 37.8	51.1 116.7 157.2 - 2.8 84.3 471.3 372.8 28.3 66.8 3.4 57.0	3.8 100.1 160.8 185.3 34.6 446.8 320.3 31.1 89.4 6.0 64.8	85.6 83.6 87.1 125.8 73.5 453.0 361.5 12.4 74.5 4.6 83.4	-43.0 87.0 123.8 144.0 117.0 596.0 453.3 14.3 123.7 4.7 66.6
By borrowing sector	207.7 <sup>r</sup> 57.2 <sup>r</sup> 51.4 <sup>r</sup> 3.2 2.6 66.2	312.6° 155.0° 147.4° 3.3 4.4 -46.2	345.4 <sup>r</sup> 265.0 <sup>r</sup> 231.5 <sup>r</sup> 30.6 <sup>r</sup> 2.9 ~51.5	359.8 <sup>t</sup> 222.3 <sup>r</sup> 170.7 <sup>t</sup> 46.8 <sup>t</sup> 4.8 -6.8	333.6' 324.1' 257.9' 59.9' 6.2' 56.1	328.0° 285.1° 214.1° 64.7° 6.4° 42.5	368.4° 355.2° 283.8° 66.7° 4.7° 72.6	302.1 <sup>1</sup> 423.1 <sup>r</sup> 341.7 <sup>r</sup> 72.1 <sup>r</sup> 9.2 <sup>r</sup> 92.3	437.5 402.9 321.1 74.5 7.3 94.3	457.2 460.1 357.3 95.7 7.2 78.9	452.7 466.6 374.6 85.9 6.1 72.6	592.7 423.3 318.7 98.8 5.8 75.4
23 Foreign net borrowing in United States 24 Commercial paper 25 Bonds 26 Bank loans n.e.c. 27 Other loans and advances 28 Total domestic plus foreign	69.8 -9.6 82.9 .7 -4.2 <b>656.9</b> <sup>r</sup>	-14.0 -26.1 12.2 1.4 -1.5 563.1°	71.1 13.5 49.7 8.5 5	76.9 11.3 55.8 9.1 .8 797.3 <sup>r</sup>	56.9 3.7 46.7 8.5 -2.0 <b>793.8</b> <sup>r</sup>	61.7 10.4 38.7 11.5 1.2 673.7	92.5 -11.6 100.3 -7.3 -3.5 <b>919.0</b> <sup>r</sup>	42.3 .7 32.4 15.7 -6.5 <b>900.5</b> <sup>r</sup>	67.8 55.3 14.3 5.2 -7.0 972.5	85.9 -25.5 107.5 8.4 -4.4 1,011.3	-28.0 6.2 -35.3 3.6 -2.4 827.5	-38.0 -4.7 -32.9 9.9 -10.3 <b>1,080.3</b>
						Financia	l sectors		<u> </u>			
29 Total net borrowing by financial sectors	294.4	468.4	456.2°	552.1 <sup>r</sup>	652.8 <sup>r</sup>	667.9 <sup>r</sup>	601.9 <sup>r</sup>	993.2°	936.4	994.9	1,061.5	1,471.3
By instrument 30 Federal government-related 31 Government-sponsored enterprise securities 32 Mortgage pool securities 33 Loans from U.S. government	165.3 80.6 84.7 .0	287.5 176.9 115.4 -4.8	204.1 105.9 98.2 .0	231.5 90.4 141.1 .0	212.8 98.4 114.4	286.2 198.1 88.1 .0	161.0 46.4 114.6 0	298.1 157.9 140.3 .0	227.3 142.5 84.8 .0	413.4 166.4 247.0 .0	561.6 294.0 267.5 .0	785.7 614.5 171.2 .0
34 Private 35 Open market paper 36 Corporate bonds 37 Bank loans n.e.c. 38 Other loans and advances 39 Mortgages	129.1 -5.5 123.1 -14.4 22.4 3.6	180.9 40.5 121.8 -13.7 22.6 9.8	252.1° 42.7 196.7 4.8° 3.4 4.6°	320.7 <sup>1</sup> 92.2 175.5 <sup>1</sup> 20.0 <sup>1</sup> 27.9 5.0 <sup>1</sup>	440.0 <sup>r</sup> 166.7 208.2 <sup>r</sup> 13.4 <sup>r</sup> 35.6 16.2 <sup>r</sup>	381.7 <sup>r</sup> 77.0 228.1 <sup>t</sup> - 2.0 <sup>r</sup> 63.0 15.5 <sup>t</sup>	440.9 <sup>r</sup> 168.8 202.3 <sup>r</sup> 25.9 <sup>r</sup> 37.5 6.5 <sup>r</sup>	695.0 <sup>t</sup> 244.2 337.8 <sup>t</sup> 26.1 <sup>t</sup> 61.7 25.2 <sup>t</sup>	709.1 237.4 340.5 78.6 32.7 19.8	581.5 134.8 376.9 -21 1 76.0 14.8	499.9 141.0 178.3 62.0 82.3 36.3	685.7 130.7 337.2 -16.3 173.7 60.3
By borrowing sector 40 Commercial banking 41 Savings institutions 42 Credit unions 43 Life insurance companies 44 Government-sponsored enterprises 45 Federally related mortgage pools 46 Issuers of asset-backed securities (ABSs) 47 Finance companies 48 Mortgage companies 48 Mortgage companies 49 Real estate investment trusts (REITs) 50 Brokers and dealers 51 Funding corporations	13.4 11.3 .2 .2 80.6 84.7 83.6 -1.4 .0 3.4 12.0 6.3	20.1 12.8 2 3 172.1 115.4 72.9 48.7 -11.5 13.7 .5 23.1	22.5 2.6 - 1 1 105.9 98.2 141.1 50.2 .4 5.6 <sup>r</sup> -5.0 34.9	13.0 25.5 1 1 90.4 141.1 153.6 45.9 12.4 7.0° -2.0 64.1	46.1 19.7 1 .2 98.4 114.4 204.4 48.7 -4.7' 36.8' 8.1 80.7	76.4 31.9 .2 .1 198.1 88.1 120.7 120.5 -12.2 30.6° 34.9 -21.5	32.5 22.3 2 46.4 114.6 226.2 8.9 11.4 <sup>1</sup> 30.8 <sup>r</sup> -6.9 115.3 <sup>t</sup>	61.0 41.7 .3 -3 157.9 140.3 385.1 59.6 -17.4' 58.9' 7.0 99.2	83.5 10.6 5 0 142.5 84.8 282.1 80.1 49.2 66.2 -1.0 137.9	80.0 31.2 -2.2 6 166.4 247.0 368.1 101.8 -48.0 62.1 20.0 -33.3	61.7 63.7 1.0 1.6 294.0 267.5 293.5 -14.0 2.0 82.8 -2.6 10.1	66.5 106.8 4 1.8 614.5 171.2 324.2 76.8 2.0 50.0 12.3 44.9

#### A38 Domestic Financial Statistics April 1999

#### 1.57 FUNDS RAISED IN U.S. CREDIT MARKETS1—Continued

							1997			19	98 <sup>r</sup>	
Transaction category or sector	1993	1994	1995	1996	1997	Q2	Q3	Q4	Q1	Q2	Q3	Q4
						All s	ectors					
52 Total net borrowing, all sectors	951.4 <sup>r</sup>	1,031.6 <sup>r</sup>	1,230.7°	1,349.4 <sup>r</sup>	1,446.6 <sup>r</sup>	1,341.5°	1,521.0°	1,893.7°	1,908.9	2,006.2	1,889.0	2,551.6
53 Open market paper 54 U.S. government securities 55 Municipal securities 56 Corporate and foreign bonds 57 Bank loans n.e.c. 58 Other loans and advances 59 Mortgages 60 Consumer credit	281.2 -7.2 8	35.7 448.1 -35.9 157.3 62.9 50.3 188.2 <sup>r</sup> 124.9	74.3 348.5 -48.2 319.6 114.7 70.2 212.7 <sup>r</sup> 138.9	102.6 376.5 2.6 303.8 <sup>r</sup> 92.1 65.1 <sup>r</sup> 318.0 <sup>r</sup> 88.8	184.1 235.9 71.4 345.7 <sup>r</sup> 128.2 <sup>r</sup> 99.8 <sup>r</sup> 329.1 <sup>r</sup> 52.5	107.7 242.6 59.6 352.9° 123.6 85.0 310.7° 59.5	171.7 191.3 88.9 425.5 <sup>r</sup> 62.2 112.1 <sup>r</sup> 419.0 <sup>r</sup> 50.3	257.7 338.9 103.2 444.6 <sup>r</sup> 180.5 <sup>r</sup> 197.5 <sup>r</sup> 333.6 <sup>r</sup> 37.8	343.8 197.3 116.7 512.0 81.0 110.0 491.1 57.0	113.1 342.5 100.1 645.3 172.7 106.1 461.6 64.8	232.7 425.1 83.6 230.1 191.4 153.4 489.4 83.4	83.0 812.5 87.0 428.1 137.5 280.5 656.3 66.6
				Funds	aised thro	ugh mutual	funds and	corporate	equities			
61 Total net issues	429.7	125.2	144.3 <sup>r</sup>	234.2	186.4°	173.9 <sup>r</sup>	239.4 <sup>r</sup>	157.7°	213.9	267.8	-118.1	24.8
62 Corporate equities 63 Nonfinancial corporations 64 Foreign shares purchased by U.S. residents 65 Financial corporations 66 Mutual fund shares	137.7 21.3 63.4 53.0 292.0	24.6 -44.9 48.1 21.4 100.6	-3.1° -58.3 50.4 4.8° 147.4	-3.4 -64.2 60.0 .8 237.6	-78.8 <sup>r</sup> -114.4 41.3 -5.6 <sup>r</sup> 265.1	-76.2 <sup>r</sup> -100.0 54.4 -30.6 <sup>r</sup> 250.1	-60.5° -124.0 64.3 8° 299.9	-103.3 <sup>r</sup> -143.3 3 40.3 <sup>r</sup> 261.0	-107.5 -139.2 13.6 18.2 321.4	-115.9 -129.1 4.0 9.2 383.7	-319.0 -308.4 -32.9 22.2 200.9	-171.4 -474.4 319.1 -16.1 196.2

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables F.2 through F.4. For ordering address, see inside front cover.

#### 1.58 SUMMARY OF FINANCIAL TRANSACTIONS<sup>1</sup>

Billions of dollars except as noted; quarterly data at seasonally adjusted annual rates

			100.5	1005	1005		1997			19	98 <sup>r</sup>	
Transaction category or sector	1993	1994	1995	1996	1997	Q2	Q3	Q4	QI	Q2	Q3	Q4
NET LENDING IN CREDIT MARKETS <sup>2</sup>	0.04 45			4.240.41		4 2 44 FF	4 05	4 000 =				
1 Total net lending in credit markets	951.4 <sup>r</sup>	1,031.6 <sup>r</sup>	1,230.7	1,349.4 <sup>r</sup>	1,446.6 <sup>r</sup>	1,341.5 <sup>r</sup>	1,521.0 <sup>r</sup>	1,893.7°	1,908.9	2,006.2	1,889.0	2,551.6
2 Domestic nonfederal nonfinancial sectors 3 Household 4 Nonfinancial corporate business 5 Nonfarm noncorporate business 6 State and local governments 7 Federal government 8 Rest of the world 9 Financial sectors 10 Monetary authority 11 Commercial banking 12 U.Schartered banks 13 Foreign banking offices in United States 14 Bank holding companies 15 Banks in U.Saffiliated areas 16 Savings institutions 17 Credit unions 18 Bank personal trusts and estates 19 Life insurance companies 20 Other insurance companies 21 Private pension funds 22 State and local government retirement funds 23 Money market mutual funds 24 Mutual funds 25 Closed-end funds 26 Government-sponsored enterprises 27 Federally related mortgage pools 28 Asset-backed securities issuers (ABSs) 29 Finance companies 31 Real estate investment trusts (REITs) 32 Brokers and dealers 33 Funding corporations	40.4° -2° 9.1 -1.1 32.6 -18.4 129.3 800.0° 36.2 149.6 -9.8 2.4 23.3 21.7 9.5 100.4° 22.7 20.4 159.5 20.0 87.8 84.7 81.0 -20.9 .0 6 14.8 -35.1°	237.7° 274.4° 17.7° .6 -55.0 -27.5   132.3 132.3 13.5 163.4 148.1 11.2 9 3.3 6.7 28.1 72.0° 24.9 46.1° 22.3 30.0 -7.1 -3.7 117.8 115.4 65.8 48.3 -24.0 4.7 -44.2 -44.2	-95.6' -1.1' -8.8' 4.7' -91.4' -1.2' -273.9' 1,052.5' 12.7' -265.9' 186.5' 75.4' -3.3' 100.0' -8.3' 100.0' -8.3' 100.0' -8.3' 100.0' -8.3' 100.0' -8.3' 100.0' -8.3' 100.0' -8.3' 100.0' -8.3' -8.4' -9.1' -8.2' -8.3' -9.3' -9.3' -9.3' -9.3' -9.3' -9.3'	-17.7 <sup>r</sup> -18.4 <sup>r</sup> 20.0 4.4 -23.7 -7.7 417.3 <sup>r</sup> 187.5 119.6 63.3 3.9 .7 19.9 25.5 -7.7 69.6 <sup>r</sup> 22.5 52.3 <sup>r</sup> 45.9 88.8 48.9 4.7 84.2 <sup>r</sup> 141.1 123.4 18.4 18.4 2.2 3.8 <sup>r</sup> -15.7 24.0 <sup>r</sup>	-106.7f -124.0f 14.8 2.7 -124.0f 14.9 310.1f 1,238.3f 38.3 324.3 3274.9 40.2 5.4 3.7 -4.7 16.8 7.6 94.3f 25.2 5.80.9 -3.4 94.3f 114.4 166.0 21.9 -9.1f 8.8f 14.9f 58.4f	-56.5r -72.2r -28.7 -27.41.8 5.7 308.5r 1,083.8r 42.9 290.0 286.7 -3.6 5.1 1.8 23.8 25.2 10.7 171.3r 28.0 61.6r 34.6 26.1 190.0 -3.4 118.9r 88.1 105.9 9 -24.4 8.4r -17.4r 2.8r	-155.3° -148.7° 2.8 -41.0 3.3 402.9 1.270.0° 22.9 226.2 220.7 4.6 -5.0 5.8 -35.3 13.6 7.3 92.9° 32.0 64.6° 79.1 121.5 108.0 -3.4 55.6° 114.6 163.7 68.3 82.9 7.2° 18.0° 7.2° 18.0° 7.3 13.6	36.4° 8.2° -2.6 2.99 9.0 208.7° 1,639.7° 52.9 464.9 386.2 58.2 19.4 1.1 -2.0 7.7 8.8 34.1° 34.7 79.5° 144.2 61.8 -3.4 158.5° 140.3 332.2 -21.3 -93.6° 71.7° 71.7° 141.4°	-218.5 -227.5 13.2 3.0 -7.3 15.5 238.6 1,873.3 27.4 292.9 260.5 11.6 15.3 5.5 10.1 16.5 2.4 4 95.7 23.4 95.7 23.4 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2	404.7 310.1 -45.6 3.2 137.1 12.8 314.2 1,274.5 7.7 136.1 130.5 18.1 -17.6 5.1 -1.8 22.7 3.1 66.5 -1.5 130.1 60.6 200.1 152.6 -2.4 4247.0 337.0 27.1 -56.4 9.3 -1.8 9.3 -1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	7.8 -137.1 23.3 3.3 118.3 13.9 58.6 1.808.7 48.3 242.6 286.7 -53.1 6.0 2.9 33.9 20.5 2.0 87.8 -7.7 95.5 50.9 247.5 93.5 -2.4 250.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 4.5 248.0 79.7 79.7 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	-173.8 -174.4 -11.0 3.4 8.2 10.7 385.1 2,329.6 554.6 569.7 -24.1 101.1 28.1 3.9 9 136.6 3.0 174.4 75.1 356.4 49.6 6.0 -10.0 -1
RELATION OF LIABILITIES TO FINANCIAL ASSETS			_		_	_	_	_				
34 Net flows through credit markets	951.4 <sup>r</sup>	1,031.6 <sup>r</sup>	1,230.7	1,349.4 <sup>r</sup>	1,446.6 <sup>r</sup>	1,341.5°	1,521.0 <sup>r</sup>	1,893.7°	1,908.9	2,006.2	1,889.0	2,551.6
Other financial sources 35 Official foreign exchange 36 Special drawing rights certificates 37 Treasury currency 38 Foreign deposits 39 Net interbank transactions 40 Checkable deposits and currency 41 Small time and savings deposits 42 Large time deposits 43 Money market fund shares 43 Money market fund shares 44 Security repurchase agreements 45 Corporate equities 46 Mutual fund shares 47 Trade payables 48 Security credit 49 Life insurance reserves 50 Pension fund reserves 51 Taxes payable 52 Investment in bank personal trusts 53 Noncorporate proprietors' equity 54 Miscellaneous	.8 .0 .4 -18.5 50.5 117.3 -70.3 -23.5 20.2 71.3 137.7 292.0 52.2 61.4 37.1 <sup>t</sup> 267.4 <sup>t</sup> 11.4 .9 25.9 <sup>t</sup> 340.9 <sup>t</sup>	-5.8 .0 .7 52.9 89.8 -9.7 -39.9 19.6 43.3 78.2 24.6 100.6 94.0 -1.1 35.5° 258.9° 2.6 17.8 50.3° 248.3°	8.8 2.2 .6 35.3 9.9 -12.7 96.6 65.6 142.3 110.5 <sup>r</sup> -3.1 <sup>r</sup> 147.4 101.5 26.7 45.8 <sup>r</sup> 228.5 <sup>r</sup> 6.2 4.0 62.1 <sup>r</sup> 459.0 <sup>r</sup>	-6.351 85.9 -51.6 15.8 97.2 114.0 145.8 41.4 -3.4 -3.7.6 76.9 52.4 44.5 16.2 -8.6 43.3 448.8	775 .0 107.4 -19.7' 41.5 97.1 122.5 157.6 120.9' -78.8' 265.1 99.2' 111.0' 54.3' 306.9' 14.6 75.0 25.1' 568.9'	4 .0 .2 23.9 50.6 34.0 174.7 98.9 202.9 <sup>2</sup> -76.2 <sup>r</sup> 250.1 48.7 <sup>r</sup> 124.4 <sup>r</sup> 326.5 <sup>r</sup> 14.1 71.8 39.6 <sup>r</sup>	2.4 .0 1.3 116.1 -25.0 -38.4 47.0 188.4 226.2 115.5 -60.5 299.9 136.1 -30.1 -63.9 337.3 30.1 -63.9 337.3 53.3 30.1 53.3 30.8 38.7 554.3	17.5 .0 -1.9 103.0 79.8 <sup>r</sup> 71.9 155.9 70.7 147.8 117.9 <sup>r</sup> -103.3 <sup>r</sup> 261.0 151.9 <sup>r</sup> 116.8 <sup>r</sup> 37.4 <sup>r</sup> 300.3 <sup>r</sup> -7.7 <sup>r</sup> 78.4 -26.8 <sup>r</sup> 404.1 <sup>r</sup>	1.0 .0 .3 -45.3 -107.1 65.6 154.9 186.2 248.0 259.5 321.4 88.5 349.3 261.5 9.7 50.3 20.2 1,206.6	8.1 .0 .2 89.0 46.6 109.3 36.2 -16.5 186.4 -115.9 383.7 4.9 128.3 38.3 284.9 -2.7 57.5 -8.7 224.8	11.4 .0 1.7 87.3 14.3 -61.7 115.2 81.5 400.7 228.6 -319.0 200.9 81.4 179.6 31.7 278.0 34.0 47.8 -43.1 637.4	8.6 .0 -2.3 36.8 -103.3 81.3 303.6 -153.4 +171.4 196.2 77.4 -71.0 49.0 352.6 -5.7 67.1 15.8 556.8
55 Total financial sources	2,326.3 <sup>r</sup>	2,093.3°	2,767.8 <sup>r</sup>	2,942.6°	3,515.4 <sup>r</sup>	3,255.0 <sup>r</sup>	3,726.3 <sup>r</sup>	3,868.4 <sup>r</sup>	4,737.4	3,347.3	3,896.7	4,221.6
Liabilities not identified as assets (-) 55 Treasury currency 57 Foreign deposits 58 Net interbank liabilities 59 Security repurchase agreements 60 Taxes payable 61 Miscellaneous	2 -5.7 4.2 46.4 15.8 -169.5	2 43.0 -2.7 69.4 16.6 -155.9	5 25.1 -3.1 17.5 <sup>r</sup> 21.1 -198.5 <sup>r</sup>	9 59.4 3.3 .6 <sup>r</sup> 20.4 61.0 <sup>r</sup>	6 107.4 -19.9 65.3 <sup>r</sup> 17.2 -228.4 <sup>r</sup>	5 10.7 -26.7 168.9 <sup>r</sup> 29.3 -396.1 <sup>r</sup>	.7 93.8 -50.0 23.9 <sup>r</sup> 15.2 <sup>r</sup> -42.4 <sup>r</sup>	-2.4 148.3 -33.0 190.8 <sup>r</sup> 5.0 <sup>r</sup> -550.3 <sup>r</sup>	2 -94.6 30.7 115.2 6.8 95.0	3 148.3 11.4 -175.3 5.0 -75.8	1.1 69.2 19.4 90.5 25.8 -105.0	-3.0 31.3 -48.4 .7 8 -79.1
Floats not included in assets (-) 62 Federal government checkable deposits 63 Other checkable deposits 64 Trade credit	-1.5 -1.3 -4.0	-4.8 -2.8 1.5	-6.0 -3.8 -11.7	.5 -4.0 -26.7 <sup>r</sup>	-2.7 -3.9 21.5	-8.3 -4.3 -58.7	10.0 -3.0 72.6	-7.9 -5.0 81.9 <sup>r</sup>	7.5 -4.0 10.4	-41.7 -3.0 -110.7	24.1 -3.2 -58.0	20.4 -2.1 -30.8
65 Total identified to sectors as assets	2,442.0°	2,129.3 <sup>r</sup>	2,927.7°	2,957.6°	3,559.5°	3,540.7°	3,605.4 <sup>r</sup>	4,040.9 <sup>r</sup>	4,570.6	3,589.6	3,832.9	4,333.5

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables F.1 and F.5. For ordering address, see inside front cover.

<sup>2.</sup> Excludes corporate equities and mutual fund shares.

### A40 Domestic Financial Statistics April 1999

#### 1.59 SUMMARY OF CREDIT MARKET DEBT OUTSTANDING<sup>1</sup>

						1997		<del></del>	199	98 <sup>1</sup>	
Transaction category or sector	1994	1995	1996	1997	Q2	Q3	Q4	Q1	Q2	Q3	Q4
					Nor	ifinancial sec	tors				
1 Total credit market debt owed by domestic nonfinancial sectors	13,018.6 <sup>r</sup>	13,721.9 <sup>r</sup>	14,442.3 <sup>r</sup>	15,177.6 <sup>r</sup>	14,721.3 <sup>r</sup>	14,924.5 <sup>r</sup>	15,177.6 <sup>r</sup>	15,405.6	15,598.7	15,809.8	16,130.1
By sector and instrument 2 Federal government 3 Treasury securities 4 Budget agency securities and mortgages	3,492.3 3,465.6 26.7	3,636.7 3,608.5 28.2	3,781.8 3,755.1 26.6	3,804.9 3,778.3 26.5	3,760.6 3,734.3 26.3	3,771.2 3,745.1 26.1	3,804.9 3,778.3 26.5	3,830.8 3,804.8 25.9	3,749.0 3,723.4 25.6	3,720.2 3,694.7 25.5	3,752.2 3,723.7 28.5
5 Nonfederal	9,526.31	10.085.2 <sup>r</sup>	10,660.5 <sup>r</sup>	11.372.7 <sup>1</sup>	10,960.7°	11,153.3 <sup>r</sup>	11,372.7	11,574.9	11,849.8	12,089.6	12,377.8
By instrument Commercial paper Municipal securities and loans Corporate bonds Bank loans n.e.c. Other loans and advances Montgages Home Multifamily residential Commercial Farm Consumer credit	139.2 1,341.7 1,253.0 759.9 669.6 4,378.9 3,357.0 269.5 669.5 83.0 983.9	157.4 1.293.5 1,326.3 861.3' 736.9 4.587.0' 3.533.0' 279.2' 690.3' 84.6 1,122.8	156.4 1,296.0 1,398.8 924.3 <sup>r</sup> 773.2 <sup>r</sup> 4,900.1 <sup>t</sup> 3,755.7 <sup>r</sup> 300.0 <sup>r</sup> 757.2 <sup>r</sup> 87.1 1,211.6	168.6 1,367.5 1,489.5 1,030.7 <sup>r</sup> 839.5 <sup>t</sup> 5,212.9 <sup>r</sup> 3,998.8 <sup>r</sup> 315.1 <sup>r</sup> 808.8 <sup>r</sup> 90.3 <sup>r</sup> 1,264.1	179.3 1.326.8 1.440.2 995.9' 788.5 5.024.9' 3.855.3' 304.6' 776.3' 88.7 1,205.0	176.6 1.340.2 1,470.9 995.2 <sup>r</sup> 802.9 5,140.7 <sup>r</sup> 3,951.5 <sup>r</sup> 308.3 <sup>r</sup> 791.3 <sup>r</sup> 89.6 <sup>r</sup> 1,226.7	168.6 1,367.5 1,489.5 1,030.7 <sup>r</sup> 839.5 <sup>r</sup> 5,212.9 <sup>r</sup> 3,998.8 <sup>r</sup> 315.1 <sup>r</sup> 808.8 <sup>r</sup> 90.3 <sup>r</sup> 1,264.1	193.1 1,397.1 1,528.8 1,032.0 866.1 5.321.8 4.083.0 322.1 825.5 91.2 1,236.0	202.5 1,429.3 1,569.0 1,084.4 873.5 5,434.4 4,164.0 329.9 847.9 92.6 1,256.8	216.9 1.439.9 1,590.8 1.107.1 886.1 5,561.5 4.268.1 333.0 866.5 93.8 1,287.4	193.0 1,464.3 1,621.8 1,143.7 916.8 5,704.7 4,375.7 336.6 897.4 95.0 1,333.6
By borrowing sector	4,454.0 <sup>r</sup> 3,950.6 <sup>r</sup> 2,686.6 <sup>r</sup> 1,121.8 142.2 1,121.7	4,804.3 <sup>r</sup> 4,210.7 <sup>r</sup> 2,913.2 <sup>r</sup> 1,152.4 <sup>r</sup> 145.1 1,070.2	5,135.4 <sup>r</sup> 4,461.7 <sup>r</sup> 3,112.6 <sup>r</sup> 1,199.2 <sup>r</sup> 149.9 1,063.4	5,471.7° 4,781.6° 3.366.4° 1,259.1° 156.1° 1,119.5	5,261.2 <sup>r</sup> 4,613.5 <sup>3</sup> 3,235.6 <sup>r</sup> 1,224.4 <sup>r</sup> 153.5 <sup>r</sup> 1,086.1	5,373.0 <sup>f</sup> 4,684.8 <sup>f</sup> 3,289.1 <sup>f</sup> 1,240.4 <sup>f</sup> 155.2 <sup>f</sup> 1,095.5	5,471.7 <sup>t</sup> 4,781.6 <sup>t</sup> 3,366.4 <sup>t</sup> 1,259.1 <sup>t</sup> 156.1 <sup>t</sup> 1,119.5	5,529.3 4,901.2 3,468.3 1,277.8 155.1 1,144.3	5,651.4 5,027.6 3,565.3 1,301.6 160.6 1,170.8	5,786.2 5,124.7 3,639.7 1,322.5 162.5 1,178.8	5,958,3 5,219,8 3,709,3 1,347,8 162,7 1,199,8
23 Foreign credit market debt held in United States	370.8	441.9	518.8	569.6	539.2	557.7	569.6	584.1	606.6	600.2	591.6
24 Commercial paper	42.7 242.3 26.1 59.8	56.2 291.9 34.6 59.3	67.5 347.7 43.7 60.0	65.1 394.4 52.1 58.0	71.3 361.2 46.4 60.3	64.3 386.3 48.2 58.9	65.1 394.4 52.1 58.0	76.7 398.0 53.4 55.9	71.4 424.9 55.5 54.8	74.0 416.0 56.4 53.8	72.9 407.8 58.9 52.0
28 Total credit market debt owed by nonfinancial sectors, domestic and foreign	13,389,4 <sup>r</sup>	14,163.8 <sup>r</sup>	14,961.1 <sup>r</sup>	15,747.2 <sup>r</sup>	15,260.5 <sup>r</sup>	15,482.2 <sup>r</sup>	15,747.2 <sup>r</sup>	15,989.7	16,205.3	16,410.0	16,721.7
					F	inancial secto.	rs				
29 Total credit market debt owed by financial sectors	3,822.2	4,281.0 <sup>r</sup>	4,833.2 <sup>r</sup>	5,452.9 <sup>r</sup>	5,086.3°	5,208.3°	5,452.9 <sup>r</sup>	5,682.0	5,935.5	6,205.7	6,568.9
By instrument 30 Federal government-related 31 Government-sponsored enterprise securities 32 Mortgage pool securities 33 Loans from U.S. government 34 Private 35 Open market paper 36 Corporate bonds 37 Bank loans n.e.c. 38 Other loans and advances 39 Mortgages	2,172.7 700.6 1,472.1 .0 1,649.5 441.6 1,008.8 48.9 131.6 18.7	2,376.8 806.5 1,570.3 .0 1,904.2 <sup>r</sup> 486.9 1,205.4 53.7 <sup>r</sup> 135.0 23.3 <sup>r</sup>	2,608.3 896.9 1,711.4 .0 2,224.9 <sup>r</sup> 579.1 1,380.9 <sup>r</sup> 73.7 <sup>r</sup> 162.9 28.3 <sup>r</sup>	2.821.0 995.3 1.825.8 .0 2.631.9' 745.7 1.556.1' 87.1' 198.5 44.5'	2,706.2 944.2 1,762.1 .0 2,380.1 <sup>r</sup> 642.5 1,453.9 <sup>r</sup> 73.5 <sup>r</sup> 173.7 36.6 <sup>r</sup>	2,746.5 955.8 1,790.7 .0 2,461.8 <sup>r</sup> 684.7 1,476.2 <sup>r</sup> 79.7 <sup>r</sup> 183.0 38.2	2,821.0 995.3 1,825.8 .0 2,631.9 <sup>r</sup> 745.7 1,556.1 <sup>r</sup> 87.1 <sup>r</sup> 198.5 44.5 <sup>r</sup>	2,877.9 1,030.9 1,847.0 .0 2,804.1 804.9 1,637.0 106.1 206.6 49.4	2,981.2 1,072.5 1,908.7 .0 2,954.3 838.9 1,735.7 101.0 225.6 53.2	3,121.6 1,146.0 1,975.6 .0 3,084.2 874.2 1,785.4 116.1 246.2 62.2	3,318.0 1,299.6 2,018.4 .0 3,250.9 906.7 1,864.4 112.9 289.6 77.3
By borrowing sector  40 Commercial banks  41 Bank holding companies  42 Savings institutions  43 Credit unions  44 Life insurance companies  45 Government-sponsored enterprises  46 Federally related mortgage pools  47 Issuers of asset-backed securities (ABSs)  48 Brokers and dealers  49 Finance companies  50 Mortgage companies  51 Real estate investment trusts (REITs)  52 Funding corporations	94.5 133.6 112.4 .5 .6 700.6 1,472.1 579.0 34.3 433.7 18.7 31.1 211.0	102.6 148.0 115.0 .4 .5 806.5 1,570.3 720.1 29.3 483.9 19.1 36.7 <sup>7</sup> 248.6	113.6 150.0 140.5 .4 1.6 896.9 1,711.4 873.8 27.3 529.8 31.5 43.7 312.7	140.6 168.6 160.3 .6 1.8 995.3 1,825.8 1,089.3 35.3 554.5 26.8° 80.4° 373.7°	125.7 160.5 144.3 4 1.8 944.2 1.762.1 917.9 35.3 557.8 28.3 58.0 350.0	130.0 164.0 149.8 .5 1.9 955.8 1.790.7 989.0 33.6 532.7 31.2 <sup>r</sup> 65.7 <sup>r</sup> 363.4	140.6 168.6 160.3 .6 1.8 995.3 1,825.8 1,089.3 354.5 26.8 <sup>r</sup> 80.4 <sup>r</sup> 373.7 <sup>r</sup>	148.7 181.2 162.9 .7 1.8 1.030.9 1,847.0 1,154.1 35.1 37.1 97.0 411.6	159.6 190.5 170.7 .8 1.6 1,072.5 1,908.7 1,243.9 40.1 596.9 27.1 112.5 410.5	169.6 196.1 186.6 1.0 2.0 1,146.0 1,975.6 1,321.2 39.4 27.6 133.2 417.9	188.7 193.5 213.3 1.1 2.5 1,299.6 2,018.4 1,406.2 42.5 615.6 28.1 145.7 413.6
		<del></del>	Γ	T	,	All sectors	I	•			
53 Total credit market debt, domestic and foreign 54 Open market paper 55 U.S. government securities 56 Municipal securities 57 Corporate and foreign bonds 58 Bank loans n.e.c. 59 Other loans and advances 60 Mortgages 61 Consumer credit	17,211.6 <sup>r</sup> 623.5 5,665.0 1,341.7 2,504.0 834.9 860.9 4,397.6 <sup>r</sup> 983.9	700.4 6.013.6 1,293.5 2,823.6 949.6 931.1 4,610.4 <sup>r</sup> 1,122.8	803.0 6,390.0 1,296.0 3,127.5 <sup>r</sup> 1,041.7 996.2 <sup>r</sup> 4,928.4 <sup>r</sup> 1,211.6	21,200.2 <sup>r</sup> 979.4 6,625.9 1,367.5 3,440.1 <sup>r</sup> 1.169.8 <sup>r</sup> 1.095.9 <sup>r</sup> 5,257.4 <sup>r</sup> 1,264.1	20,346.8 <sup>r</sup> 893.1 6,466.8 1,326.8 3,255.3 <sup>r</sup> 1,115.8 1,022.4 <sup>r</sup> 5,061.5 <sup>r</sup> 1,205.0	20,690.5 <sup>r</sup> 925.7 6.517.7 1.340.2 3.333.4 <sup>r</sup> 1.123.1 1,044.9 5,178 9 <sup>r</sup> 1.226.7	21,200.2 <sup>r</sup> 979.4 6.625.9 1,367.5 3,440.1 <sup>r</sup> 1,169.8 <sup>r</sup> 1,095.9 <sup>r</sup> 5,257.4 <sup>r</sup> 1,264.1	21,671.7 1,074.8 6.708.6 1,397.1 3,563.9 1,191.5 1,128.7 5,371.2 1,236.0	22,140.8 1,112.7 6,730.2 1,429.3 3,729.6 1,240.9 1,153.9 5,487.5 1,256.8	22,615,8 1,165,1 6,841,8 1,439,9 3,792,2 1,279,7 1,186,1 5,623,7 1,287,4	23,290.6 1,172.6 7,070.2 1,464.3 3,893.9 1,315.5 1,258.4 5,782.0 1,333.6

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables L.2 through L.4. For ordering address, see inside front cover.

#### 1.60 SUMMARY OF FINANCIAL ASSETS AND LIABILITIES<sup>1</sup>

Billions of dollars except as noted, end of period

	1004	1005	1000	1007		1997			199	98 <sup>r</sup>	
Transaction category or sector	1994	1995	1996	1997	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CREDIT MARKET DEBT OUTSTANDING <sup>2</sup>											
1 Total credit market assets	17,211.6 <sup>r</sup>	18,444.9 <sup>r</sup>	19,794.3 <sup>r</sup>	21,200.2 <sup>r</sup>	20,346.8 <sup>r</sup>	20,690.5 <sup>r</sup>	21,200.2 <sup>r</sup>	21,671.7	22,140.8	22,615.8	23,290.6
1 Total credit market assets  2 Domestic nonfederal nonfinancial sectors  3 Household  4 Nonfinancial corporate business  5 Nonfarm noncorporate business  6 State and local governments  7 Federal government  8 Rest of the world  9 Financial sectors  10 Monetary authority  11 Commercial banking  12 U.Schartered banks  13 Foreign banking offices in United States  14 Bank holding companies  15 Banks in U.Saffiliated areas  16 Savings institutions  17 Credit unions  18 Bank personal trusts and estates  19 Life insurance companies  20 Other insurance companies  21 Private pension funds  22 State and local government retirement funds  23 Money market mutual funds  4 Mutual funds  25 Closed-end funds  26 Government-sponsored enterprises  7 Federally related mortgage pools  28 Asset-backed securities issuers (ABSs)  9 Finance companies  Mortgage companies  Mortgage companies  Mortgage companies  Mortgage companies  Mortgage companies  10 Real estate investment trusts (REITs)	3,035,9° 1,979,2° 289,2 37,6° 1,979,2° 239,4° 1,216,0° 12,756,3° 368,2° 3,254,3° 3,254,3° 3,254,3° 3,254,3° 2,254,3° 2,254,3° 3,254,3° 2,254,3° 2,254,3° 3,254,3° 3,254,3° 3,254,3° 3,254,3° 18.8° 246,8° 246,6° 455,8° 445,5° 146,4° 455,8° 455,8° 466,9° 455,8° 455,8° 455,0° 1718,8° 86,0° 663,3° 1,472,1° 541,7° 476,2° 36,5° 13,3° 3,5° 13,3° 13,3° 1,5° 13,3° 13,3° 1,5° 13,3	2,899.1° 1,937.8° 2,899.1° 1,937.8° 2,804.42.3 6,303.2 1,530.3 3,808.8 3,520.1 13,812.3° 3,808.8 3,520.1 12.6 18.0 33.4 913.3 263.0 239.7 1,587.5° 468.7 771.3 96.4 750.0° 1,570.3 661.0 33.0 15.5° 233.0	19,794.3° 2,921.5° 1,968.9° 291.0 46.7 614.8 195.5 1,933.8° 1,753.8 475.8 475.8 475.8 422.0 34.1 933.2 288.5 232.0 1,657.0° 491.2 769.2° 529.2 634.3 820.2 101.1 807.9° 1,711.4 784.4 544.5 41.2 19.3°	21,200.2° 2,764.8° 1,794.9° 305.8° 49.5° 614.6° 200.4 2,259.0° 431.4 4,031.9 4,031.9 305.3 305.3 239.5 1,751.3° 515.3 834.7° 565.8 721.9 901.1 97.7 902.2° 1,825.8 950.4 32.1° 43.4 40.3	2.801.5° 1.853.2° 281.4° 48.0 618.9° 197.3 2.095.0 15.252.9° 412.4° 3.856.8 3.295.2 501.8 23.8 36.1 937.8 299.9 235.5 1.723.7° 1.723.7° 656.3 99.4 848.6° 1.762.1 818.9 99.4 848.6° 1.762.1 818.9 99.4 848.6° 1.762.1 818.9 99.4 848.6° 1.762.1 818.9 819.9 1.762.1 819.9 819.	2,744.2' 1,798.4' 290.4 48.7 606.6 198.2 2,196.4 15,551.8' 412.7 3,912.9 3,351.9 501.0 303.9 237.3 1,746.7' 506.6 814.8' 562.0 678.7 890.4 98.5 862.5' 1,790.7 861.3 564.4 55.5.7'	21,200.2*  2.764.8* 1.794.9* 305.8* 49.5* 614.6* 6200.4* 2.259.0* 431.4* 4.031.9 4.031.9 27.4 37.8 928.5 305.3 239.5 1,751.3* 515.3 834.7* 565.8 721.9 907.7 902.2* 1,825.8 950.4 32.1*	21,671.7 2,706.9 1,756.5 289.6 50.2 610.6 204.3 2,324.0 16,436.5 433.8 4,093.3 3,505.1 517.9 31.2 39.2 931.0 306.7 240.1 1,779.1 521.1 853.4 582.5 775.0 939.3 97.1 942.9 1,847.0 1,000.4 68.8 31.5	22,140.8  2,766.5 1,787.4 280.1 51.0 648.0 207.5 2,401.2 16,765.6 440.3 4,136.4 3,543.6 525.6 40.4 930.6 315.1 240.9 977.6 96.5 978.5 1,998.7 1,082.4 579.0 32.7 33.8	22,615.8 2.785.4 1.770.3 287.7 51.8 675.5 210.9 2.416.4 17.203.0 446.5 4.195.7 3.616.2 510.1 28.3 41.1 939.0 320.8 24.1817.6 518.9 909.8 613.1 8.17.6 518.9 909.8 613.1 95.9 1,003.4 95.9 1,003.4 95.9 1,003.4 95.9 1,003.4 95.9 1,003.3 33.8	23,290.6 2.771.3 1.737.7 302.3 52.7 678.7 213.6 2.508.1 17,797.5 452.5 4,337.0 3.761.1 504.2 26.5 45.2 964.3 327.2 242.4 1.847.9 519.6 953.4 632.9 95.4 1,141.3 2.018.4 1,225.6 630.2 35.3 30.7
32 Brokers and dealers 33 Funding corporations  RELATION OF LIABILITIES TO FINANCIAL ASSETS	93.3 107.5	183.4 86.3 <sup>r</sup>	167.7 110.3 <sup>r</sup>	182.6' 164.0'	160.2 <sup>r</sup> 130.0 <sup>r</sup>	164.7° 133.4°	182.6 <sup>r</sup> 164.0 <sup>r</sup>	244.0 199.5	198.3 196.2	217.5 189.0	159.9 194.6
34 Total credit market debt	17,211.6 <sup>r</sup>	18,444.9 <sup>r</sup>	19,794.3 <sup>r</sup>	21,200.2 <sup>r</sup>	20,346.8 <sup>r</sup>	20,690.5°	21,200.2 <sup>r</sup>	21,671.7	22,140.8	22,615.8	23,290.6
Other liabilities 35 Official foreign exchange 36 Special drawing rights certificates 37 Treasury currency 38 Foreign deposits 39 Net interbank liabilities 40 Checkable deposits and currency 41 Small time and savings deposits 42 Large time deposits 43 Money market fund shares 44 Security repurchase agreements 45 Mutual fund shares 46 Security credit 47 Life insurance reserves 48 Pension fund reserves 49 Trade payables 50 Taxes payable 51 Investment in bank personal trusts 52 Miscellaneous	53.2 8.0 17.6 373.9 280.1 1,242.0 2,183.2 411.2 602.9 549.5 1,477.3 279.0 520.3' 5,057.5' 1,140.6 101.4 699.4 5,326.6'	63.7 10.2 18.2 418.8 290.7 1.229.3 2.279.7 476.3 660.0° 1.852.8 305.7 566.2° 5.821.1° 1.242.2 107.6 803.0 5.693.7°	53.7 9.7 18.3 516.1 240.8 1,245.1 2,377.0 590.9 891.1 701.5' 2,342.4 358.1 610.6' 6,567.8' 1,319.0 123.8 871.7 6,012.0'	48.9 9.2 18.3 619.4 219.4 <sup>7</sup> 1.286.6 2,474.1 713.4 1.048.7 822.4 <sup>7</sup> 2.989.4 469.1 <sup>7</sup> 665.0 <sup>7</sup> 7.680.9 <sup>9</sup> 1.418.2 <sup>7</sup> 1.38.3 <sup>8</sup> 1.082.8 6,461.5 <sup>7</sup>	46.7 9.2 18.4 568.8 197.5' 1.265.3 2.432.3 646.7 952.4 768.0' 2.717.5 414.3' 639.6' 1.319.8 133.9 982.9 6.258.4'	46.1 9.2 18.7 597.8 189.0' 1,234.2 2,438.8 696.1 1,005.1 797.7' 2,973.6 431.8' 655.6' 7,556.3' 1,353.5' 143.1' 1,058.9 6,449.8'	48.9 9.2 18.3 619.4 219.4° 1.286.6 2.474.1 713.4 1.048.7 822.4° 2.989.4 469.1° 665.0° 7.680.9° 1.418.2° 1.38.3° 1.082.8 6.461.5°	48.2 9.2 18.4 608.1 182.4 1.259.4 2.525.2 760.9 1,130.7 891.0 3,340.2 505.3 677.3 8,246.8 1,497.5 1,179.3 6,746.4	50.1 9.2 18.4 630.4 197.8 1.321.0 2.530.8 75.40 1,153.7 861.5 3,439.0 540.6 686.9 8,349.4 1,414.6 1,207.2 6,784.3	54.5 9.2 18.8 652.2 196.3 1.282.7 2.554.4 776.5 1.249.7 919.8 3.151.9 579.0 694.8 7.810.4 1.434.8 151.7 1,112.4 7,042.9	60.1 9.2 18.3 661.4 184.0 1.335.2 2.629.1 805.0 1.334.2 877.7 3.626.1 569.6 707.0 8,770.1 1.481.3 147.2 1.291.0 6.848.0
53 Total liabilities	37,535.5 <sup>r</sup>	41,029.9 <sup>r</sup>	44,643.8 <sup>r</sup>	49,365.7 <sup>r</sup>	46,888.0°	48,346.0 <sup>r</sup>	49,365.7°	51,357.4	52,230.9	52,307.5	54,644.9
Financial assets not included in liabilities (+) 54 Gold and special drawing rights 55 Corporate equities 56 Household equity in noncorporate business	21.1 6,237.9 3,370.5	22.1 8,331.3 3,578.3	21.4 10,062.4 3,776.1 <sup>r</sup>	21.1 12,776.0 4,097.4 <sup>r</sup>	21.1 11,627.0 3,964.4 <sup>r</sup>	21.0 12,649.4 4,030.7 <sup>r</sup>	21.1 12,776.0 4,097.4 <sup>r</sup>	21.2 14,397.6 4,108.8	21.0 14,556.1 4,136.2	21.2 12,758.4 4,153.7	21.6 15,437.7 4,164.4
54 Gold and special drawing rights	6,237.9	22.1 8,331.3	10,062.4	12,776.0	11,627.0	12,649.4	12,776.0	14,397.6	14,556.1	12,758.4	15,437.7 4,164.4 -7.9 573.0 -27.0
54 Gold and special drawing rights 55 Corporate equities 56 Household equity in noncorporate business  Liabilities not identified as assets (-) 57 Treasury currency 58 Foreign deposits 59 Net interbank transactions 60 Security repurchase agreements 61 Taxes payable	6,237.9 3,370.5° -5,4 325.4 -6.5 67.8 48.8	22.1 8,331.3 3,578.3 <sup>r</sup> -5.8 360.2 -9.0 85.3 <sup>r</sup> 62.4	10,062.4 3,776.1 <sup>r</sup> -6.7 431.2 -10.6 86.0 <sup>r</sup> 76.9	-7.3 534.5 -32.2 151.2 <sup>r</sup> 91.4 <sup>r</sup>	11,627.0 3,964.4 <sup>r</sup> -6.9 478.1 -8.1 96.6 <sup>r</sup> 77.6	12,649.4 4,030.7 <sup>r</sup> -6.7 501.5 -22.1 113.1 <sup>r</sup> 87.9 <sup>r</sup>	12,776.0 4,097.4 <sup>r</sup> -7.3 534.5 -32.2 151.2 <sup>r</sup> 91.4 <sup>r</sup>	14,397.6 4,108.8 -7.4 510.8 -21.2 183.5 87.4	14,556.1 4,136.2 -7.4 547.9 -17.1 134.4 92.6	12,758.4 4,153.7 -7.2 565.2 -15.4 167.4 98.8	15,437.7 4,164.4 7.9 573.0 27.0 159.0 97.7

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables L.1 and L.5. For ordering address, see inside front cover.

<sup>2.</sup> Excludes corporate equities and mutual fund shares.

#### 2.10 NONFINANCIAL BUSINESS ACTIVITY Selected Measures

Monthly data seasonally adjusted, and indexes 1992=100, except as noted

	1004	1007	1000				19	98				1999
Measure	1996	1997	1998	May	June	July	Aug.	Sept.	Oct. <sup>r</sup>	Nov.	Dec.	Jan.
Industrial production	119.5	126.8	131.4	131.9	130.6	130.5	132.4	131.9	132.4	132.3	132.5°	132.5
Market groupings 2 Products, total 3 Final, total 4 Consumer goods 5 Equipment 6 Intermediate 7 Materials	114.4 115.5 111.3 122.7 110.9 127.8	119.6 121.1 114.1 133.9 115.2 138.2	123.6 <sup>r</sup> 125.5 <sup>r</sup> 115.2 <sup>r</sup> 144.1 <sup>r</sup> 118.0 <sup>r</sup> 144.0	124.5 126.6 116.8 144.2 118.2 143.6	123.6 125.5 115.1 144.1 118.0 141.8	123.3 124.7 114.0 143.9 119.1 141.9	124.9 126.8 116.1 146.0 119.1 144.4	124.1 126.0 114.8 146.2 118.3 144.4	124.9 126.7 115.2 147.5 119.0 144.5	124.5 126.3 115.1 146.4 119.1 144.8	124.7 <sup>r</sup> 126.2 <sup>f</sup> 115.4 <sup>f</sup> 145.5 <sup>r</sup> 120.2 <sup>r</sup> 145.2 <sup>r</sup>	124.6 126.0 115.4 145.0 120.4 145.3
Industry groupings 8 Manufacturing	121.4	129.7	135.1	135.4	133.7	133.6	135.7	135.2	136.1	136.4	136.6 <sup>t</sup>	136.7
9 Capacity utilization, manufacturing (percent) <sup>2</sup>	81.4	82.0	80.8 <sup>r</sup>	81.6	80.2	79.8	80.7	80.1	80.3	80.1	79.9	79.6
10 Construction contracts <sup>3</sup>	130.9	142.6 <sup>r</sup>	151.0°	153.0 <sup>r</sup>	152.0 <sup>r</sup>	155.0 <sup>r</sup>	154.0	150.0 <sup>r</sup>	148.0	152.0	153.0 <sup>r</sup>	147.0
11 Nonagricultural employment, total 12 Goods-producing, total 13 Manufacturing, total 14 Manufacturing, production workers 15 Service-producing 16 Personal income, total 17 Wages and salary disbursements 18 Manufacturing 19 Disposable personal income 20 Retail sales 2	117.3 2.4 97.4 98.6 123.1 165.2 159.8 135.7 164.0 159.6	120.3 2.4 98.2 99.6 126.5 174.5 171.2 144.7 171.7 166.9	123.4 2.3 98.5 99.6 130.1 183.2 182.6 151.1 178.6 175.3	123.2 102.5 99.0 100.1 129.7 182.2 181.5 151.5 177.5 175.8	123.3 102.6 98.9 99.9 130.0 182.7 181.8 150.5 177.9 176.0	123.5 101.9 97.9 98.4 130.4 183.4 182.8 149.6 178.7 174.8	123.8 102.4 98.4 99.1 130.6 184.2 184.1 151.3 179.4 174.9	123.9 102.3 98.4 99.3 130.9 184.8 184.6 152.1 179.9 175.6	124.1 102.2 98.1 99.0 131.1 185.5 185.6 151.7 180.7 177.7	124.4 102.1 97.8 98.6 131.5 186.3 186.6 151.4 181.4 178.9	124.7 102.4 97.7 98.5 131.8 187.3 187.5 151.8 182.3 180.7	124.9 102.4 97.6 98.5 132.1 n.a. n.a. n.a.
Prices <sup>6</sup> 21 Consumer (1982–84=100)	156.9 131.3	160.5 131.8	163.0 130.7	162.8 130.6	163.0 130.7	163.2 131.0	163.4 130.7	163.6 130.6	164.0 131.4	164.0 130.8	163.9 131.0	164.3 131.5

<sup>1.</sup> Data in this table appear in the Board's G.17 (419) monthly statistical release. The data are also available on the Board's web site, http://www.federalreserve.gov/releases/g17. The latest historical revision of the industrial production index and the capacity utilization rates was released in November 1998. The recent annual revision is described in an article in the was released in November 1998. The recent annual revision is described in an article in the Januay 1999 issue of the *Bulletin*. For a description of the methods of estimating industrial production and capacity utilization, see "Industrial Production and Capacity Utilization: Historical Revision and Recent Developments," *Federal Reserve Bulletin*, vol. 83 (February 1997), pp. 67–92, and the references cited therein For details about the construction individual industrial production series, see "Industrial Production: 1989 Developments and Historical Revision," *Federal Reserve Bulletin*, vol. 76 (April 1990), pp. 187–204.

2. Ratio of index of production to index of capacity. Based on data from the Federal Reserve, DRI McGraw-Hill, U.S. Department of Commerce, and other sources.

- 3. Index of dollar value of total construction contracts, including residential, nonresidential, and heavy engineering, from McGraw-Hill Information Systems Company, F.W. Dodge
- 4. Based on data from U.S. Department of Labor. Employment and Earnings. Series covers
- employees only, excluding personnel in the armed forces.

  5. Based on data from U.S. Department of Commerce. Survey of Current Business.

  6. Based on data not seasonally adjusted. Seasonally adjusted data for changes in the price indexes can be obtained from the U.S. Department of Labor. Bureau of Labor Statistics, Monthly Labor Review.

NOTE. Basic data (not indexes) for series mentioned in notes 4 and 5, and indexes for series mentioned in notes 3 and 6, can also be found in the Survey of Current Business

#### 2.11 LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

Thousands of persons; monthly data seasonally adjusted

Character	1996	1997	1998				1998				1999
Category	1990	1997	1996	June	July	Aug.	Sept.	Oct.	Nov <sup>r</sup>	Dec.	Jan.
HOUSEHOLD SURVEY DATA											
1 Civilian labor force <sup>2</sup>	133,943	136,297	137,673	137,498	137,407	137,481	138,081	138,116	138,193	138,547	139,347
2 Nonagricultural industries <sup>3</sup>	123,264 3,443	126,159 3,399	128,085 3,378	127,890 3,363	127,753 3,423	127,772 3,492	128,348 3,470	128,300 3,558	128,765 3,348	129,304 3,222	130,097 3,299
4 Number	7,236 5.4	6,739 4.9	6,210 4.5	6,245 4.5	6,231 4.5	6,217 4.5	6,263 4.5	6,258 4.5	6,080 4.4	6.021 4.3	5,950 4.3
ESTABLISHMENT SURVEY DATA											
6 Nonagricultural payroll employment <sup>4</sup>	119,608	122,690	125,833	125,751	125,869	126,191	126,363	126,527	126,804	127,102	127,347
7 Manufacturing 8 Mining	18,495 580 5,418 6,253 28,079 6,911 34,454 19,419	18,657 592 5,686 6,395 28,659 7,091 36,040 19,570	18,716 575 5,965 6,551 29,299 7,341 37,525 19,862	18,780 578 5,946 6,538 29,269 7,333 37,494 19,813	18,594 571 5,970 6,550 29,374 7,370 37,614 19,826	18,693 571 5,989 6,570 29,383 7,372 37,691 19,922	18,692 568 5,981 6,579 29,454 7,393 37,768 19,928	18,633 564 6,012 6,595 29,453 7,417 37,905 19,948	18,573 560 6,051 6,604 29,549 7,441 38,040 19,986	18,557 555 6,150 6,629 29,595 7,459 38,137 20,020	18,544 546 6,165 6,651 29,653 7,481 38,251 20,056

<sup>1.</sup> Beginning January 1994, reflects redesign of current population survey and population controls from the  $1990 \ \text{census}$ .

Persons sixteen years of age and older, including Resident Armed Forces. Monthly
figures are based on sample data collected during the calendar week that contains the twelfth
day; annual data are averages of monthly figures. By definition, seasonality does not exist in

population figures.

3. Includes self-employed, unpaid family, and domestic service workers

<sup>4</sup> Includes all full- and part-time employees who worked during, or received pay for, the pay period that includes the twelfth day of the month; excludes proprietors, self-employed persons, household and unpaid family workers, and members of the armed forces. Data are adjusted to the March 1992 benchmark, and only seasonally adjusted data are available at this

SOURCE. Based on data from U.S. Department of Labor, Employment and Earnings

#### 2.12 OUTPUT, CAPACITY, AND CAPACITY UTILIZATION1

Seasonally adjusted

			19	998			19	998			19	98	
Series		Qı	Q2	Q3	Q4 <sup>1</sup>	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4'
			Output (1	992=100)		Capa	city (percer	nt of 1992 o	utput)	Capa	city utilizati	on rate (pe	rcent) <sup>2</sup>
1 Total industry		130.4	131.3	131.6	132.4	157.6	159.6	161.5	163.5	82.7	82.3	81.5	81.0
2 Manufacturing		133.8	134.7	134.8	136.4	163.5	165.8	168.1	170.3	81.8	81.2	80.2	80.1
3 Primary processing <sup>3</sup>		121.2 140.1	121.J 141.4	120.2 142.1	120.3 144.5	143.0 173.5	144.0 176.4	145.1 179.2	146.1 182.0	84.8 80.8	84.1 80.2	82.9 79.3	82.3 79.4
5 Durable goods. 6 Lumber and products. 7 Primary metals. 8 Iron and steel. 9 Nonferrous. 10 Industrial machinery and equipmer Electrical machinery. 12 Motor vehicles and parts. 13 Aerospace and miscellaneous transportation equipment 14 Nondurable goods. 15 Textile mill products. 16 Paper and products. 17 Chemicals and products. 18 Plastics materials. 19 Petroleum products. 20 Mining. 20 Mining. 21 Utilities. 22 Electric.	1t	154.4 115.6 128.2 128.3 128.0 194.1 278.2 140.8 102.7 112.7 113.6 115.5 116.8 127.3 111.6	156.1 116.4 125.3 124.0 127.0 203.0 282.8 135.3 106.1 112.7 113.0 116.9 127.5 112.0 105.3 115.6 118.3	157.9 117.7 122.4 118.7 126.8 207.9 292.7 137.2 106.6 111.3 112.1 115.0 114.4 128.4 112.7	161.2 119.0 119.6 112.7 127.2 212.2 2304.5 148.6 105.5 111.4 111.1 114.0 112.3 101.2 114.0 117.3	190.2 142.0 140.8 140.9 140.4 226.5 351.2 182.8 127.0 135.8 134.8 134.8 147.1 139.4 116.2 119.7 125.9 123.5	193.9 143.0 142.8 140.8 234.7 366.6 183.9 127.5 136.6 134.9 140.7 116.5 119.9 126.2 123.8	197.5 143.9 143.2 144.6 141.3 242.9 381.6 184.9 128.0 137.5 135.1 132.5 148.9 141.9 116.8	201.2 144.9 144.4 146.5 141.7 251.6 396.7 186.0 128.5 138.4 135.2 133.4 149.7 143.2 117.1 120.5 126.7 124.3	81.2 81.4 91.0 91.0 91.2 85.7 79.2 77.0 80.8 83.1 84.3 88.5 79.4 91.3 96.1 91.3	80.5 81.4 88.3 86.9 90.1 86.5 77.1 73.6 83.2 82.5 83.9 90.6 90.6 90.6 90.6	79.9 81.8 85.5 82.1 89.7 85.6 76.7 74.2 83.3 80.9 83.0 86.8 90.5 96.5 96.5	80.1 82.1 82.8 76.9 90.3 84.3 76.8 79.9 82.1 80.5 82.2 85.5 75.9 90.8 95.9 84.0 89.9 94.4
	1973	1975	Previou	is cycle <sup>5</sup>	Latest	cycle <sup>6</sup>	1998			1998			1999
	High	Low	High	Low	High	Low	Jan.	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec.	Jan. <sup>P</sup>
						Capacity ut	tilization ra	te (percent)	2				
1 Total industry	89.2	72.6	87.3	71.1	85.4	78.1	83.0	82.0	81.3	81.3	80.9	80.8	80.5
2 Manufacturing	88.5	70.5	86.9	69.0	85.7	76.6	82.2	80.7	80.1	80.3	80.1	79.9	79.6
3 Primary processing <sup>3</sup>	91.2 87.2	68.2 71.8	88.1 86.7	66.2 70.4	88.9 84.2	77.7 76.1	85.2 81.0	83.1 79.9	82.1 79.5	82.4 79.6	82.3 79.5	82.4 79.1	82.1 78.8
5 Durable goods 6 Lumber and products. 7 Primary metals. 8 Iron and steel. 9 Nonferrous 10 Industrial machinery and	89.2 88.7 100.2 105.8 90.8	68.9 61.2 65.9 66.6 59.8	87.7 87.9 94.2 95.8 91.1	63.9 60.8 45.1 37.0 60.1	84.6 93.6 92.7 95.2 89.3	73.1 75.5 73.7 71.8 74.2	81.4 81.3 92.1 91.9 92.4	80.9 82.3 86.9 84.7 89.7	80.3 81.1 83.7 78.1 90.6	80.6 81.6 83.7 78.4 90.4	80.1 81.5 82.1 74.9 91.1	79.7 83.1 82.7 77.4 89.3	79.5 83.4 82.1 76.8 88.7
equipment  Electrical machinery  Motor vehicles and parts  Aerospace and miscellaneous transportation equipment	96.0 89.2 93.4 78.4	74.3 64.7 51.3	93.2 89.4 95.0 81.9	64.0 71.6 45.5 66.6	85.4 84.0 89.1 87.3	72.3 75.0 55.9 79.2	85.7 80.2 77.8 79.5	85.2 76.2 83.4 83.5	84.5 77.0 80.9 82.6	84.9 77.2 80.9 83.3	84.3 76.9 80.0 82.1	83.8 76.2 78.8 80.9	83.1 76.3 79.1 80.0
14 Nondurable goods.	87.8 91.4 97.1 87.6 102.0 96.7	71.7 60.0 69.2 69.7 50.6 81.1	87.5 91.2 96.1 84.6 90.9 90.0	76.4 72.3 80.6 69.9 63.4 66.8	87.3 90.4 93.5 86.2 97.0 88.5	80.7 77.7 85.0 79.3 74.8 85.1	83.5 85.3 88.8 79.7 93.4 95.8	80.9 82.8 87.0 76.7 92.9 97.7	80.2 82.3 85.7 75.9 87.1 94.7	80.3 83.2 86.7 75.7 89.1 94.4	80.6 82.3 84.2 76.3 94.1 96.3	80.5 81.1 85.5 75.8 89.1 97.0	80.3 81.2 85.7 75.8 89.6 97.4
20 Mining . 21 Utilities . 22 Electric .	94.3 96.2 99.0	88.2 82.9 82.7	96.0 89.1 88.2	80.3 75.9 78.9	88.0 92.6 95.0	87.0 83.4 87.1	90.0 87.2 90.2	86.3 95.1 97.8	85.2 95.0 98.8	84.7 92.0 96.9	84.2 87.9 92.2	83.1 90.0 94.1	81.6 90.1 93.7

<sup>1.</sup> Data in this table appear in the Board's G.17 (419) monthly statistical release. The data are also available on the Board's web site, http://www.federalreserve.gov/releases/g17. The latest historical revision of the industrial production index and the capacity utilization rates was released in November 1998. The recent annual revision is described in an article in the January 1999 issue of the Bulletin. For a description of the methods of estimating industrial production and capacity utilization, see "Industrial Production and Capacity Utilization; Historical Revision and Recent Developments," Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67–92, and the references cited therein. For details about the construction of individual industrial production series, see "Industrial Production: 1989 Developments and Historical Revision," Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187–204.

2. Capacity utilization is calculated as the ratio of the Federal Reserve's seasonally adjusted index of industrial production to the corresponding index of capacity.

<sup>3.</sup> Primary processing includes textiles; lumber; paper; industrial clavin als; synthetic materials; fertilizer materials; petroleum products; rubber and plastics; stone, clay, and glass; primary metals; and fabricated metals.

4. Advanced processing includes foods; tobacco; apparel; furniture and fixtures; printing and publishing; chemical products such as drugs and tolletries; agricultural chemicals; leather and products; machinery; transportation equipment; instruments; and miscellaneous manufactures. tures.

Monthly highs, 1978–80; monthly lows, 1982.
 Monthly highs, 1988–89; monthly lows, 1990–91.

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# 2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value<sup>1</sup> Monthly data seasonally adjusted

_	· · · · · · · · · · · · · · · · · · ·	1992 pro-	1998	1998			-			1998			-			1999
	Group	por- tion	avg.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec.	Jan. <sup>p</sup>
									Index	(1992 =	100)					
	MAJOR MARKETS															
1	Total index	100.0	131.4	130.3	130.2	130.7	131.3	131.9	130.6	130.5	132.4	131.9	132.4	132.3	132.5	132.5
2 3 4 5 6 7 8 9 10 11	Products Final products Consumer goods, total Durable consumer goods Automotive products. Autos and trucks Autos, consumer Trucks, consumer Auto parts and allied goods Other Appliances, televisions, and air	60.5 46.3 29.1 6.1 2.6 1.7 .9 .7 .9	123.6 125.5 115.2 135.8 132.9 137.8 109.2 166.2 124.9 138.0	122.6 124.5 116.0 135.1 133.0 141.0 115.1 166.1 120.5 136.7	122.5 124.2 115.2 134.5 131.5 138.6 104.8 170.5 120.3 136.9	123.2 125.3 115.8 135.9 132.7 138.9 106.5 169.8 122.7 138.5	124.0 126.2 116.4 136.9 134.6 141.3 107.4 173.8 123.7 138.8	124.5 126.6 116.8 138.3 136.8 143.5 108.4 177.1 126.0 139.4	123.6 125.5 115.1 130.7 121.7 118.2 93.8 142.2 125.4 137.8	123.3 124.7 114.0 124.6 107.3 92.8 75.8 110.0 125.6 138.7	124.9 126.8 116.1 140.1 141.7 151.4 124.4 178.9 127.6 138.5	124.1 126.0 114.8 137.4 136.4 143.4 128.3 161.1 125.9 138.0	124.9 126.7 115.2 140.5 141.1 150.6 119.9 181.0 127.4 139.7	124.5 126.3 115.1 139.9 139.6 149.1 113.7 183.2 125.9 139.9	124.7 126.2 115.4 139.6 139.1 147.7 115.5 179.0 126.8 139.7	124.6 126.0 115.4 140.0 140.0 149.4 111.7 185.2 126.6 139.8
13 14 15 16 17 18 19 20 21 22	conditioners Carpeting and furniture. Miscellaneous home goods. Nondurable consumer goods Foods and tobacco Clothing Chemical products Paper products. Energy Fuels Residential utilities	1.0 .8 1.6 23.0 10.3 2.4 4.5 2.9 2.9 .8 2.1	206.1 117.1 115.1 110.2 109.0 97.8 120.6 105.8 112.7 110.5 113.2	195.5 119.2 115.6 111.3 110.4 100.7 121.3 109.2 109.1 111.0 107.6	197.9 115.8 116.8 110.5 110.1 99.3 121.2 107.7 106.5 110.4 104.0	203.8 114.3 118.3 110.8 109.1 100.4 121.3 106.3 113.2 111.2 113.7	203.4 115.9 118.2 111.4 110.2 99.9 123.2 106.2 111.5 111.6 111.0	202.7 119.1 117.9 111.5 110.8 98.8 122.5 105.7 112.5 110.9 112.9	199.9 117.0 117.1 111.2 108.5 98.8 122.8 105.3 118.2 111.4 121.2	207.8 117.3 115.9 111.2 108.5 98.4 122.2 106.3 118.4 112.9 120.7	209.4 116.7 115.3 110.3 107.5 97.7 119.0 106.6 120.1 112.1 123.7	209.9 116.3 114.5 109.3 106.9 97.1 118.0 105.9 116.8 108.3 120.7	215.2 120.3 113.6 109.1 108.0 95.4 117.2 105.2 115.0 108.4 117.8	222.3 117.7 113.0 109.1 109.6 94.5 119.2 104.1 107.8 109.1 106.5	224.1 114.4 113.8 109.6 109.6 94.3 120.0 103.4 111.1 109.5 111.3	224.7 117.8 111.9 109.5 109.6 93.0 120.2 102.2 112.4 112.2 111.9
23 24 25 26 27 28 29 30 31 32 33	Equipment Business equipment Information processing and related Computer and office equipment Industrial Transit Autos and trucks Other Defense and space equipment Oil and gas well drilling Manufactured homes.	17.2 13.2 5.4 1.1 4.0 2.5 1.2 1.3 3.3 .6	144.1 163.5 209.9 646.3 140.0 133.7 124.6 138.9 75.7 134.7 149.2	139.5 156.3 195.3 520.3 138.4 126.0 126.2 137.7 76.2 153.9 147.1	140.3 157.0 199.2 547.4 136.6 126.8 120.9 136.9 76.3 157.4 149.6	142.4 160.1 202.3 584.9 139.4 130.3 121.6 139.8 75.9 155.7 148.0	143.6 162.2 206.0 601.5 139.4 133.6 123.4 140.8 75.9 147.6 148.0	144.2 163.1 209.2 620.6 138.1 135.5 125.1 139.6 76.0 147.1 149.0	144.1 163.6 210.3 638.6 142.9 128.2 108.6 141.7 75.8 136.7 146.1	143.9 163.5 211.8 654.6 144.2 121.9 91.7 146.6 76.1 131.9 151.1	146.0 166.6 213.1 671.6 142.3 141.6 136.9 132.6 76.5 127.7 145.7	146.2 167.4 217.3 693.6 139.5 140.1 135.6 140.9 75.5 123.4 147.8	147.5 169.0 219.0 716.7 141.6 141.6 136.1 141.1 76.4 119.4 150.9	146.4 168.0 219.5 746.7 139.8 140.4 136.4 138.5 75.5 115.2 154.6	145.5 168.0 221.1 761.7 141.2 139.1 136.3 132.7 74.1 103.2 156.6	145.0 167.7 222.1 784.6 140.4 138.0 135.8 132.7 73.0 99.2 157.5
34 35 36	Intermediate products, total  Construction supplies  Business supplies	14.2 5.3 8.9	118.0 127.1 112.7	117.0 125.5 112.0	117.1 125.7 112.1	116.9 124.7 112.2	117.3 125.4 112.5	118.2 126.6 113.3	118.0 126.1 113.2	119.1 128.5 113.6	119.1 128.0 113.8	118.3 126.9 113.3	119.0 128.4 113.5	119.1 129.1 113.2	120.2 130.3 114.3	120.4 130.3 114.5
37 38 39 40 41 42 43 44 45 46 47 48 49 50	Materials Durable goods materials Durable consumer parts Equipment parts Other Basic metal materials Nondurable goods materials Textile materials Paper materials Chemical materials Chemical materials Other Energy materials Primary energy Converted fuel materials.  SPECIAL AGGREGATES	39.5 20.8 4.0 7.6 9.2 3.1 8.9 1.1 1.8 3.9 2.1 9.7 6.3 3.3	144.0 176.4 144.0 277.4 129.0 121.3 113.4 109.3 115.8 114.1 111.5 103.7 101.4	142.6 173.6 143.1 263.4 130.7 126.1 114.8 109.9 117.2 117.2 110.0 103.0 101.6 105.8	142.5 173.5 144.2 264.5 129.7 125.9 114.9 111.1 117.0 116.5 111.4 102.4 105.6	142.7 173.7 143.7 265.8 129.7 123.7 114.2 110.6 116.3 115.6 111.0 103.7 101.0	143.1 174.5 144.4 266.9 130.3 123.5 114.4 110.5 116.3 116.2 110.9 103.8 101.3 108.6	143.6 175.4 147.9 268.6 129.6 123.0 114.1 111.0 115.5 115.6 111.2 104.3 101.0	141.8 171.7 131.9 271.0 128.3 120.1 113.9 110.2 117.3 114.8 10.6 104.8 101.8	141.9 171.8 129.7 274.1 128.1 120.2 114.1 110.1 117.3 114.6 111.7 104.8 102.9 108.6	144.4 177.4 149.6 278.0 128.3 121.9 113.1 107.7 116.4 113.6 111.6 104.4 101.2 110.7	144.4 177.7 147.7 282.7 127.7 118.2 112.0 107.6 115.0 111.8 111.5 105.2 102.3 110.9	144.5 178.8 146.2 287.0 128.4 118.3 111.7 108.8 115.8 111.1 110.4 103.7 102.6 106.1	144.8 180.0 145.6 290.3 129.3 117.4 111.9 106.8 112.7 112.2 113.1 102.2 100.6 105.3	145.2 180.6 144.4 293.2 129.6 117.6 111.3 106.2 113.1 109.8 115.0 103.4 101.5	145.3 181.4 143.9 298.0 129.2 117.0 111.1 105.6 114.0 109.4 114.3 102.4 29.9 107.4
	Total excluding autos and trucks	97.1 95.1	131.3 130.8	130.2 129.7	130.2 129.7	130.7 130.3	131.3 130.9	131.8 131.3	131.2 131.2	131.6 131.7	132.1 131.3	131.7 131.0	132.1 131.5	132.0 131.5	132.3 131.9	132.2 131.8
53 54	Total excluding computer and office equipment Consumer goods excluding autos and trucks Consumer goods excluding energy	98.2 27.4 26.2	127.1 114.0 115.6	126.7 114.7 116.8	126.4 113.9 116.2	126.7 114.5 116.1	127.3 115.1 117.0	127.7 115.3 117.3	126.4 114.8 114.7	126.2 114.9 113.5	128.0 114.3 115.7	127.4 113.2 114.6	127.8 113.4 115.3	127.5 113.3 116.0	127.7 113.7 115.9	127.6 113.6 115.8
56	Business equipment excluding autos and trucks	12.0	167.9	159.7	161.1	164.6	166.7	167.4	170.0	171.8	169.9	171.0	172.7	171.5	171.5	171.3
	Business equipment excluding computer and office equipment	12.1 29.8	142.4 156.6	138.8 155.0	138.7 155.0	140.8 154.9	142.3 155.5	142.6 156.0	142.7 153.4	142.2 153.6	144.8 156.9	145.1 156.7	146.2 157.3	144.5 158.1	144.1 158.3	143.4 158.7

		1992		1998					_	1998						1999
Group	SIC code	pro- por- tion	1998 avg.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. <sup>r</sup>	Nov.	Dec.	Jan. <sup>p</sup>
									Index	(1992 =	100)					
Major Industries					_											
59 Total index		100.0	131.4	130.3	130.2	130.7	131.3	131.9	130.6	130.5	132.4	131.9	132.4	132.3	132.5	132.5
60 Manufacturing	• • • •	85.4 26.5 58.9	135.1 120.6 142.1	133.8 121.6 139.8	133.7 121.1 140.0	134.1 121.0 140.6	134.9 121.5 141.6	135.4 121.4 142.3	133.7 120.2 140.4	133.6 120.7 139.9	135.7 120.6 143.3	135.2 119.3 143.2	136.1 120.1 144.2	136.4 120.2 144.7	136.6 120.6 144.7	136.7 120.5 144.9
63 Durable goods	24 25	45.0 2.0 1.4	157.5 117.0 121.5	153.9 115.2 119.4	154.0 116.2 118.6	155.2 115.3 121.5	156.2 116.1 121.0	157.2 116.4 120.6	154.8 116.7 122.0	154.4 117.5 120.8	159.8 118.5 120.1	159.6 117.0 121.6	161.2 118.0 124.5	161.0 118.2 123.7	161.4 120.7 123.6	161.6 121.4 124.8
66 Stone, clay, and glass products. 67 Primary metals. 68 Iron and steel. 69 Raw steel. 70 Nonferrous. 71 Fabricated metal products. 72 Industrial machinery and	32 33 331,2 331PT 333-6,9 34	2.1 3.1 1.7 .1 1.4 5.0	126.1 123.9 121.0 115.7 127.2 127.2	124.6 129.2 128.9 122.5 129.7 127.6	124.0 128.1 128.2 123.3 128.0 126.6	124.5 127.1 127.7 120.0 126.4 127.2	124.0 127.5 126.7 122.4 128.4 127.8	124.5 126.5 125.5 121.9 127.6 128.7	123.5 122.1 119.8 116.0 124.9 128.0	125.4 122.6 120.2 118.3 125.4 127.8	127.0 124.4 122.5 120.3 126.7 126.3	126.6 120.1 113.4 112.6 128.1 126.2	128.3 120.6 114.4 109.7 128.0 126.9	130.4 118.6 109.7 100.2 129.2 127.5	130.2 119.7 113.9 102.0 126.6 128.3	130.4 119.1 113.4 103.0 126.0 127.5
equipment.  Computer and office equipment.  Electrical machinery.  Transportation equipment.  Motor vehicles and parts.  Autos and light trucks.  Aerospace and miscellaneous	357 36 37 371 371PT	8.0 1.8 7.3 9.5 4.9 2.6	203.8 649.4 291.8 123.0 141.1 128.5	526.3 277.7 121.3 141.9 132.0	192.3 552.6 278.5 121.5 140.4 128.2	198.4 589.6 278.2 122.3 140.0 128.8	200.6 605.4 280.8 123.3 140.8 130.9	202.5 623.9 282.0 125.2 144.1 132.7	205.8 641.4 285.5 114.2 121.1 110.1	209.0 657.0 289.4 108.2 107.6 86.9	207.0 673.6 290.8 130.3 154.2 142.0	207.7 695.5 297.7 127.6 149.9 136.5	211.2 718.5 302.4 128.4 150.2 140.4	748.4 304.9 127.0 148.8 138.1	213.4 763.5 306.3 125.3 146.8 137.3	213.8 786.4 310.3 125.0 147.5 137.9
transportation equipment	372-6,9 38 39	4.6 5.4 1.3	104.9 113.0 117.6	100.9 111.5 119.7	102.6 112.5 119.9	104.5 112.8 120.0	105.7 113.0 120.1	106.3 113.8 119.1	106.3 112.4 118.5	107.1 112.6 118.5	106.9 113.0 117.7	105.8 114.2 117.0	106.9 114.6 115.9	105.5 114.1 114.0	104.1 114.4 115.0	103.0 114.3 113.8
81 Nondurable goods 82 Foods 83 Tobacco products 84 Textile mill products 85 Apparel products 86 Paper and products 87 Printing and publishing 88 Chemicals and products 89 Petroleum products 90 Rubber and plastic products	20 21 22 23 26 27 28 29 30 31	40.4 9.4 1.6 1.8 2.2 3.6 6.7 9.9 1.4 3.5	111.9 109.6 106.0 112.6 99.2 114.9 105.1 115.4 112.1 132.6 75.3	113.1 110.5 110.1 115.0 102.5 115.7 106.4 117.0 111.2 131.0 77.3	112.8 109.9 112.7 113.2 101.1 115.9 106.4 116.7 110.5 131.1 78.3	112.4 109.7 105.3 112.6 101.6 115.0 105.4 116.6 113.0 131.4 77.9	113.0 110.3 109.8 113.3 101.0 115.2 105.5 117.7 112.8 133.2 76.3	113.0 110.7 111.5 114.5 100.4 115.0 105.6 116.9 111.5 133.1 75.8	112.0 109.2 104.7 112.0 100.5 114.9 105.5 116.2 111.6 132.4 74.5	112.1 109.0 106.0 113.2 100.1 115.9 105.4 115.7 113.4 132.7 75.3	111.3 107.9 107.0 111.8 99.2 115.3 104.9 114.3 114.1 132.2 74.0	110.6 107.7 104.2 111.2 98.3 113.9 104.6 113.3 110.7 132.6 73.5	110.9 109.1 101.9 112.4 97.3 115.4 104.2 113.1 110.4 133.4 72.8	111.6 111.3 99.8 111.2 95.5 112.3 105.4 114.2 112.8 135.0 73.9	111.6 111.2 100.1 109.7 95.2 114.4 105.2 113.7 113.7 135.5 73.2	111.6 111.7 96.9 109.8 94.4 114.8 104.8 113.8 114.2 135.1 71.5
92 Mining	10 12 13 14	6.9 .5 1.0 4.8 .6	104.1 110.5 109.7 99.8 124.3	107.6 110.9 112.4 103.6 127.5	107.5 123.2 104.3 104.6 123.1	105.8 109.3 103.4 104.0 120.0	105.7 106.9 107.2 102.9 123.3	105.4 108.5 106.0 102.4 124.4	104.7 108.0 110.4 100.4 125.6	104.6 105.7 112.8 100.0 125.4	103.7 109.0 109.7 99.2 124.3	102.4 106.4 115.8 96.8 120.3	102.0 113.6 110.8 96.8 118.8	101.4 112.2 108.6 95.2 128.2	100.3 112.2 114.5 92.8 124.4	98.5 110.4 102.0 93.0 124.8
99 Gas	491,493PT 492,493PT	7.7 6.2 1.6	114.3 117.4 103.0	109.8 111.4 102.2	109.0 111.2 99.3	114.0 115.7 106.3	112.8 115.2 102.0	115.2 118.9 98.3	118.7 121.0 108.4	118.3 119.8 111.7	120.2 121.2 115.7	120.3 122.6 109.7	116.5 120.3 98.7	111.4 114.6 96.5	114.1 117.0 100.6	114.3 116.6 103.9
SPECIAL AGGREGATES  100 Manufacturing excluding motor vehicles and parts  101 Manufacturing excluding computer and office equipment		80.5 83.6	134.7	133.4	133.4	133.8	134.6	134.9 130.6	134.5	135.1	134.6	134.4	135.3	135.8	136.1	136.1
102 Computers, communications equipment, and semiconductors		5.9	515.6	459.3	467.6	473.4	482.7	490.7	502.9	511.8	522.5	538.3	552.1	564.1	572.4	585.4
computers and semiconductors		81.1	120.1	120.3	120.1	120.2	120.9	121.1	119.2	118.9	120.6	119.9	120.4	120.4	120.4	120.1
equipment, and semiconductors		79.5	118.5	118.8	118.5	118.7	119.3	119.5	117.5	117.2	119.0	118.1	118.7	118.8	118.8	118.6
						Gross v	alue (billi	ons of 19	92 dollars	s, annual 1	rates)		1			
Major Markets																
105 Products, total		2,001.9	2,481.4	2,462.9	2,456.2	2,474.5	2,489.8	2,498.5	2,470.3	2,454.6	2,525.1	2,501.0	2,519.7	2,514.5	2,520.4	2,524.8
106 Final		1,552.1 1,049.6 502.5 449.9	1,952.2 1,210.0 744.3 530.7	1,935.8 1,220.1 718.2 528.0	1,928.6 1,210.8 720.6 528.3	1,948.1 1,218.7 732.5 527.6	1,961.6 1,224.8 739.9 529.7	1,966.1 1,225.2 744.2 533.6	1,938.2 1,201.8 740.1 532.6	1,915.6 1,185.0 734.3 538.4	1,985.9 1,227.4 762.5 540.3	1,966.4 1,208.2 762.7 535.7		1,977.1 1,216.9 764.5 538.5	1,976.9 1,219.4 761.7 544.0	1,224.8 759.6

<sup>1.</sup> Data in this table appear in the Board's G.17 (419) monthly statistical release. The data are also available on the Board's web site, http://www.federalreserve.gov/releases/g17. The latest historical revision of the industrial production index and the capacity utilization rates was released in November 1998. The recent annual revision is described in an article in the January 1999 issue of the Bulletin. For a description of the methods of estimating industrial production and capacity utilization: see "Industrial Production and Capacity Utilization:

Historical Revision and Recent Developments," Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67–92, and the references cited therein. For details about the construction of individual industrial production series, see "Industrial Production: 1989 Developments and Historical Revision," Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187–204.

2. Standard industrial classification.

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#### 2.14 HOUSING AND CONSTRUCTION

Monthly figures at seasonally adjusted annual rates except as noted

Monthly lightes at seasonarry a			з слосрі и										
	1004	1007	1000					19	98				
Item	1996	1997	1998	Маг.	Apr.	May	June	July	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec.
				Private r	esidential re	eal estate ac	tivity (thou	sands of ur	its except	as noted)			
New Units													
Permits authorized.  One-family Two-family or more  Started  One-family Two-family or more  Under construction at end of period  Two-family Two-family or more  One-family Two-family or more  Completed  One-family Two-family Two-fa	1,426 1,070 356 1,477 1,161 316 820 584 235 1,405 1,123 283 361	1,441 1,062 379 1,474 1,134 340 834 570 264 1,407 1,122 285 354	1,604 1,184 421 1,616 1,271 345 936 638 298 1,474 1,157 318 372	1,569 1,136 433 1,583 <sup>r</sup> 1,234 <sup>r</sup> 911 616 295 1,486 1,130 356 374	1,517 1,145 372 1,542 <sup>r</sup> 1,235 <sup>r</sup> 307 <sup>r</sup> 911 619 292 1,509 1,198 311 370	1,543 1,152 391 1,541 1,221 320 917 627 290 1,458 1,112 346 374	1,517 1,128 389 1,626 <sup>r</sup> 1,274 <sup>r</sup> 352 <sup>r</sup> 930 639 291 1,484 1,166 318 362	1,581 1,173 408 1,719 <sup>r</sup> 1,306 <sup>r</sup> 413 <sup>r</sup> 937 643 294 1,549 1,225 324 380	1,618 1,180 438 1,615 <sup>r</sup> 1,264 <sup>r</sup> 351 <sup>r</sup> 940 645 295 1,515 1,178 337 368	1,544 1,164 380 1,576 <sup>r</sup> 1,251 <sup>r</sup> 325 <sup>r</sup> 948 650 298 1,466 1,185 281 369	1,690 1,198 492 1,698 1,298 400 969 658 311 1,441 1,155 286 352	1,656 1,238 418 1,654 1,375 279 972 666 306 1,602 1,253 349 389	1,729 1,306 423 1,738 1,378 360 1,001 690 311 1,408 1,132 276 382
Merchant builder activity in one-family units  14 Number sold	757 326	804 287	888 303	836 285	892 286	892 287	919 287	877 284	839 285	845 <sup>r</sup> 290 <sup>r</sup>	907 293	1,015 293	978 297
Price of units sold (thousands of dollars)  16 Median	140.0 166.4	146.0 176.2	151.6 181.3	152.0 178.9	148.0 176.7	153.2 183.5	148.0 175.9	149.9 179.8	154.9 186.5	155.0 <sup>r</sup> 182.7 <sup>r</sup>	151.0 181.2	150.0 175.6	151.3 182.2
EXISTING UNITS (one-family)													
18 Number sold	4,087	4,215	4,785	4,890	4,770	4,830	4,740	4,910	4,730	4,690	4,770	4,880	5,030
Price of units sold (thousands of dollars) <sup>2</sup> 19 Median	118.2 145.5	124.1 154.2	130.6 162.9	127.1 157.2	128.2 159.7	130.5 162.3	134.0 169.2	133.8 168.4	132.9 165.9	131.2 162.9	130.7 161.8	131.7 163.9	130.6 163.0
					Value	of new cons	struction (m	illions of d	ollars) <sup>3</sup>				
Construction			- "										
21 Total put in place	581,813	618,051	655,922	639,913	645,974	635,396	650,341	658,673	663,300	670,133	670,218	676,694	688,529
22 Private         23 Residential         24 Nonresidential         25 Industrial buildings         26 Commercial buildings         27 Other buildings         28 Public utilities and other	444,743 255,570 189,173 32,563 75,722 30,637 50,252	470,969 265,536 205,433 31,417 83,727 37,382 52,906	509,608 296,142 213,466 30,267 88,178 38,116 56,905	494,333 286,045 208,288 31,474 83,981 37,812 55,021	500,078 289,666 210,412 31,457 86,064 39,168 53,723	496,495 288,003 208,492 29,642 86,321 37,678 54,851	503,592 291,907 211,685 30,067 88,480 37,334 55,804	511,514 299,300 212,214 28,616 88,310 37,406 57,882	516,601 300,612 215,989 32,302 86,243 38,305 59,139	521,050 304,993 216,057 30,300 87,553 38,309 59,895	525,106 306,090 219,016 29,246 91,042 37,536 61,192	530,662 310,297 220,365 30,087 93,564 37,689 59,025	537,161 315,338 221,823 28,025 96,619 39,307 57,872
29 Public           30 Military           31 Highway           32 Conservation and development           33 Other	137,070 2,639 41,326 5,926 87,179	147,082 2,625 45,246 5,628 93,583	146,314 2,730 45,129 5,527 92,928	145,580 2,818 45,559 5,488 91,715	145,896 2,850 46,175 4,985 91,886	138,901 2,471 42,030 5,146 89,254	146,749 2,659 44,541 5,989 93,560	147,159 3,325 43,809 5,475 94,550	146,699 3,187 44,291 5,442 93,779	149,083 2,325 45,719 5,904 95,135	2,577 45,563 5,143 91,829	146,031 2,522 44,145 5,513 93,851	151,368 2,639 48,083 5,652 94,994

SOURCE. Bureau of the Census estimates for all series except (1) mobile homes, which are private, domestic shipments as reported by the Manufactured Housing Institute and seasonally adjusted by the Census Bureau, and (2) sales and prices of existing units, which are published by the National Association of Realtors. All back and current figures are available from the originating agency. Permit authorizations are those reported to the Census Bureau from 19,000 jurisdictions beginning in 1994.

Not at annual rates.
 Not seasonally adjusted.
 Recent data on value of new construction may not be strictly comparable with data for previous periods because of changes by the Bureau of the Census in its estimating techniques. For a description of these changes, see Construction Reports (C-30-76-5), issued by the Census Bureau in July 1976.

#### 2.15 CONSUMER AND PRODUCER PRICES

Percentage changes based on seasonally adjusted data except as noted

	Change months	from 12 earlier	Cha	ange from 3 (annua	months ear d rate)	lier			Index			
Item	1998	1999		19	98 <sup>r</sup>			19	98	_	1999	level, Jan. 1999 <sup>1</sup>
	Jan.	Jan.	Mar.	June	Sept.	Dec	Sept.	Oct.	Nov.	Dec.	Jan.	
CONSUMER PRICES <sup>2</sup> (1982–84=100)												
l All items	1.6	1.7	.7	2.2	1.5	2.0	.1°	.2	.2	.1	.1	164.3
2 Food . 3 Energy items . 4 All items less food and energy . 5 Commodities . 6 Services .	2.2 -6.5 2.2 .4 3.0	2.3 -7.4 2.4 1.2 2.8	1.3 -17.2 2.4 .0 3.5	2.3 -3.4 2.6 1.7 2.8	2.5 -9.0 2.3 1.1 3.0	2.8 -5.1 2.5 2.5 2.5	-1.2 <sup>r</sup> -21 .3	.5 <sup>r</sup> .1 <sup>r</sup> .2 .1 <sup>r</sup> .2	3 <sup>r</sup> 1 <sup>r</sup> 1	-1.1 <sup>r</sup> -1.1 <sup>r</sup> .3 .6 .2	.5 2 .1 .0 .2	163.6 98.1 175.3 143.7 193.2
PRODUCER PRICES (1982=100)												
7 Finished goods. 8 Consumer foods. 9 Consumer energy. 10 Other consumer goods. 11 Capital equipment	-1.7 7 -10.4 .4 8	.9 1.9 -7.5 4.0 1	-2.7 9 -25.5 4.2 .0	3 6 -3.1 1.4 -1.2	.6 1.8 -9.2 3.0 .9	1.5 3 - 10.4 8.0 .3	.2 .2 4 <sup>r</sup> .3 <sup>r</sup> .3	.2 .4 1.1 <sup>r</sup> .0 1 <sup>r</sup>	2 4 <sup>r</sup> -1.5 <sup>r</sup> .1	.4 .0° -2.3 1.8° .0°	.5 1.6 1.8 1 1	131.5 135.6 71.7 151.6 137.7
Intermediate materials 12 Excluding foods and feeds	-1.5 .l	-2.4 -1.6	-4.1 9	-1.6 -1.2	-2.2 -1.8	-3.8 -2.4	2 3 <sup>r</sup>	2 2 <sup>r</sup>	3 <sup>r</sup> 2	5 <sup>r</sup> 2	.1 2	121.5 132.1
Crude materials 14 Foods. 15 Energy. 16 Other	-6.0 -37.3 -3.9	-3.7 -16.7 -14.5	-14.6 -53.5 -12.4	-3.3 -14.6 -5.8	-19.6 -25.3 -19.9	-6.2 -1.3 -24.6	9 <sup>r</sup> -3.6 <sup>r</sup> -1.2 <sup>r</sup>	2.9 <sup>r</sup> 5.1 <sup>r</sup> -2.7	3 <sup>r</sup> .0 -2.7 <sup>r</sup>	-4.1 <sup>r</sup> -5.2 -1.6 <sup>r</sup>	5.1 .6 .2	101.6 62.4 128.7

Not seasonally adjusted.
 Figures for consumer prices are for all urban consumers and reflect a rental-equivalence measure of homeownership.

SOURCE, U.S. Department of Labor, Bureau of Labor Statistics.

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#### 2.16 GROSS DOMESTIC PRODUCT AND INCOME

Billions of current dollars except as noted; quarterly data at seasonally adjusted annual rates

				1997		19	98	
Account	1996	1997	1998	Q4	QI	Q2	Q3	Q4
GROSS DOMESTIC PRODUCT								
1 Total	7.661.6	8,110.9	8,508.9	8,254.5	8,384.2	8,440.6	8,537.9	8,672.8
By source 2 Personal consumption expenditures 3 Durable goods 4 Nondurable goods 5 Services	5,215.7	5,493.7	5,806.0	5.593.2	5,676.5	5,773.7	5.846.7	5,927.1
	643.3	673.0	723.5	682.2	705.1	720.1	718.9	749.8
	1,539.2	1,600.6	1,662.0	1,613.2	1,633.1	1.655.2	1.670.0	1,689.5
	3,033.2	3,220.1	3,420.5	3.297.8	3,338.2	3.398.4	3.457.7	3,487.8
6 Gross private domestic investment 7 Fixed investment 8 Nonresidential 9 Structures 10 Producers' durable equipment 11 Residential structures	1.134.9	1,256.0	1,369.2	1,292.0	1,366.6	1.345.0	1,364,4	1,400.9
	1,099.8	1,188.6	1,308.8	1,220.1	1,271.1	1.305.8	1,307,5	1,350.9
	787.9	860.7	939.4	882.8	921.3	941.9	931,6	962.9
	216.9	240.2	246.8	246.4	245.0	245.4	246,2	250.6
	571.0	620.5	692.6	636.4	676.3	696.6	685,4	712.3
	311.8	327.9	369.4	337.4	349.8	363.8	375,8	388.1
12 Change in business inventories	32.1	67.4	60.4	71.9	95.5	39,2	57.0	50.0
	24.5	63.1	53.7	66.9	90.5	31,5	49.3	43.3
14 Net exports of goods and services 15 Exports 16 Imports	-91.2	-93,4	-154.1	98.8	-123.7	- 159.3	-165.5	-167.8
	873.8	965,4	958.5	988.6	973.3	949.6	936.2	975.1
	965.0	1,058,8	1.112.6	1.087.4	1,097.1	1,108.9	1,101.7	1.142.9
17 Government consumption expenditures and gross investment	1,405.2	1,454.6	1.487.8	1,468.1	1,464.9	1.481.2	1,492.3	1.512.6
	518.4	520.2	520.7	520.1	511.6	520.7	519.4	531.0
	886.8	934.4	967.1	947.9	953.3	960.4	972.9	981.6
By major type of product 20 Final sales, total 21 Goods 22 Durable 23 Nondurable 24 Services 25 Structures	7,629.5	8,043.5	8,448.5	8,182.6	8,288.7	8.401.3	8,480.9	8.622.8
	2,780.3	2,911.2	3,041.4	2,948.7	3,005.8	3.025.3	3,029.0	3.105.6
	1,228.8	1,310.1	1,389.3	1.334.3	1,376.9	1,380.8	1,373.0	1,426.5
	1,551.6	1,601.0	1,652.1	1,614.4	1,628.8	1.644.4	1,655.9	1,679.1
	4,179.5	4,414.1	4,641.0	4,501.2	4,538.4	4.619.5	4,678.5	4,727.7
	669.7	718.3	766.1	732.7	744.6	756.6	773.5	789.6
26 Change in business inventories 27 Durable goods 28 Nondurable goods	32.1	67.4	60.4	71.9	95.5	39.2	57.0	50.0
	20.8	33.6	25.8	34.0	49.9	4.5	19.5	29.4
	11.4	33.8	34.6	37.9	45.6	34.7	37.5	20.5
MEMO 29 Total GDP in chained 1992 dollars	6,994.8	7,269.8	7,549.9	7,364.6	7,464.7	7,498.6	7,566.5	7,670.0
National Income								
30 Total	6,256.0	6,646.5	n.a.	6,767.9	6.875.0	6.945.5	7,032.3	n.a.
31 Compensation of employees       32 Wages and salaries       33 Government and government enterprises       34 Other       35 Supplement to wages and salaries       36 Employer contributions for social insurance       37 Other labor income	4,409.0	4,687.2	4,980,3	4,798,0	4,882,8	4,945.2	5.011.6	5.081.8
	3,640.4	3,893.6	4,153,2	3,993.6	4,065,9	4,121.6	4.181.1	4,244.1
	640.9	664.2	689,5	671.4	679,5	685.8	692.7	700.1
	2,999.5	3,229.4	3,463,7	3,322.2	3,386,4	3,435.8	3,488.4	3,543.9
	768.6	793.7	827,1	804.4	816,8	823.5	830.5	837.7
	381.7	400.7	420,2	407.4	414,1	417.9	422.1	426.7
	387.0	392.9	406,9	397.0	402,8	405.7	408.4	411.0
38 Proprietors' income <sup>1</sup> 39 Business and professional <sup>1</sup> 40 Farm <sup>1</sup>	527.7	551.2	575.5	558.0	564.2	571.7	576.1	590.0
	488.8	515.8	548.4	526.6	536.8	544.0	550.9	561.7
	38.9	35.5	27.1	31.4	27.4	27.7	25.2	28.3
41 Rental income of persons <sup>2</sup>	150.2	158.2	162.0	158.8	158.3	161 0	163.6	165.0
42 Corporate profits 43 Profits before tax 54 Historicary valuation adjustment 45 Capital consumption adjustment 45 Capital consumption adjustment	750.4	817.9	n.a.	820.8	829.2	820.6	827.0	n.a
	680.2	734.4	n.a.	736.4	719.1	723.5	720.5	n.a.
	1.2	6.9	n.a	4.3	25.3	7.8	11.7	n.a.
	71.4	76.6	92.2	80.1	84.9	89.4	94.8	99.7
46 Net interest	418.6	432.0	n.a.	432.4	440.5	447.1	454.0	n.a.

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

<sup>3.</sup> For after-tax profits, dividends, and the like, see table 148. SOURCE, U.S. Department of Commerce, Survey of Current Business.

#### 2.17 PERSONAL INCOME AND SAVING

Billions of current dollars except as noted; quarterly data at seasonally adjusted annual rates

				1997		19	98	
Account	1996	1997	1998	Q4	Q1	Q2	Q3	Q4
PERSONAL INCOME AND SAVING								
1 Total personal income	6,425.2	6,784.0	7,123.6	6,904.9	7,003.9	7,081.9	7,160.8	7,247.9
2 Wage and salary disbursements 3 Commodity-producing industries 4 Manufacturing 5 Distributive industries 6 Service industries 7 Government and government enterprises	3,631.1 909.0 674.6 823.3 1,257.9 640.9	3,889.8 975.0 719.5 879.8 1,370.8 664.2	4,149.2 1,026.9 751.5 938.5 1,494.3 689.5	3,989.9 1,003.7 741.3 904.5 1,410.2 671.4	4,061.9 1,019.0 750.4 918.9 1,444.5 679.5	4,117.6 1,023.2 750.8 932.2 1,476.4 685.8	4,177.1 1,028.0 750.9 945.8 1,510.6 692.7	4,240.0 1,037.3 753.9 957.1 1,545.5 700.1
8 Other labor income 9 Proprietors' income! 10 Business and professional! 11 Farm! 12 Rental income of persons? 13 Dividends 14 Personal interest income 15 Transfer payments 16 Old-age survivors, disability, and health insurance benefits	387.0 527.7 488.8 38.9 150.2 248.2 719.4 1,068.0 538.0	392.9 551.2 515.8 35.5 158.2 260.3 747.3 1,110.4 565.9	406.9 575.5 548.4 27.1 162.0 263.1 764.9 1,149.5 586.7	397.0 558.0 526.6 31.4 158.8 261.3 753.0 1,120.5 572.2	402.8 564.2 536.8 27.4 158.3 261.6 757.0 1,139.0 581.6	405.7 571.7 544.0 27.7 161.0 262.1 763.0 1,145.8 585.0	408.4 576.1 550.9 25.2 163.6 263.0 769.2 1,152.9 589.0	411.0 590.0 561.7 28.3 165.0 265.7 770.2 1,160.2 591.3
17 LESS: Personal contributions for social insurance	306.3	326.2	347.4	333.6	340.9	345.1	349.5	354.2
18 EQUALS: Personal income	6,425.2	6,784.0	7,123.6	6,904.9	7,003.9	7,081.9	7,160.8	7,247.9
19 LESS: Personal tax and nontax payments	890.5	989.0	1,098.1	1,025.5	1.066.8	1,092.9	1,108.4	1,124.3
20 EQUALS: Disposable personal income	5,534.7	5,795.1	6,025.5	5,879.4	5,937.1	5,988.9	6,052.4	6,123.6
21 LESS: Personal outlays	5,376.2	5,674.1	5,998.1	5,781.2	5,864.0	5,963.3	6,039.8	6,125.4
22 EQUALS: Personal saving	158.5	121.0	27.4	98.2	73.0	25.6	12.6	-1.8
MEMO Per capita (chained 1992 dollars) 23 Gross domestic product 24 Personal consumption expenditures 25 Disposable personal income	26,335.8 17,893.1 18,989.0 2.9	27,136.2 18,340.9 <sup>r</sup> 19,349.0	27,942.0 19,064.4 19,785.0	27,398.2 18,530.5 19,478.0	27,718.8 18,771.1 19,632.0	27,783.0 19,007.8 19,719.0	27,972.1 19,156.3 19,829.0	28,292.1 19,320.5 19,958.0
26 Saving rate (percent)	2.9	2.1	.5	1.7	1.2	.4	.2	.0
GROSS SAVING	4 0			1 420 0	1 402 5	1 440 5	1 454 5	
27 Gross saving	1,274.5	1,406.3	n.a.	1,428.0	1,482.5	1,448.5	1,474.5	n.a.
28 Gross private saving	1,114.5	1.141.6	n.a.	1,131.6	1,130.1	1,079.0	1,078.7	n.a.
29 Personal saving 30 Undistributed corporate profits <sup>1</sup> 31 Corporate inventory valuation adjustment	158.5 262.4 -1.2	121.0 296.7 6.9	27.4 n.a. n.a.	98.2 295.0 4.3	73.0 312.0 25.3	25.6 300.9 7.8	12.6 304.8 11.7	—1.8 n.a. n.a.
Capital consumption allowances 32 Corporate	452.0 232.3	477.3 242.8	500.7 252.6	487.7 247.0	492.5 248.6	497.8 250.7	503.1 254.2	509.4 257.2
34 Gross government saving 35 Federal 36 Consumption of fixed capital 37 Current surplus or deficit (-), national accounts. 38 State and local 39 Consumption of fixed capital 40 Current surplus or deficit (-), national accounts.	160.0 -39.6 70.6 -110.3 199.7 77.1 122.6	264.7 49.5 70.6 -21.1 215.2 81.1 134.1	n.a. n.a. 69.7 n.a. n.a. 85.0 n.a.	296.4 72.3 70.2 2.2 224.1 82.7 141.4	352.4 128.7 69.9 58.8 223.7 83.5 140.2	369.4 143.9 69.5 74.4 225.6 84.3 141.3	395.7 161.6 69.6 92.0 234.2 85.4 148.7	n.a. n.a. 69.7 n.a. n.a. 86.6 n.a.
41 Gross investment	1,242.3	1,350.5	n.a.	1,360.7	1,428.4	1,362.7	1,372.5	n.a.
42 Gross private domestic investment 43 Gross government investment 44 Net foreign investment	1,131.9 229.7 -119.2	1,256.0 235.4 -140.9	1,369.2 237.4 n.a.	1,292.0 236.5 -167.8	1,366.6 237.4 -175.6	1,345.0 232.5 -214.8	1,364.4 239.7 -231.6	1,400.9 239.9 n.a.
45 Statistical discrepancy	-32.2	-55.8	n.a.	-67.3	-54.1	-85.7	-102.0	n.a.
1 With inventory valuation and capital consumption adjustments		Sou	nes IIC D	artment of Cor				

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

SOURCE. U.S. Department of Commerce, Survey of Current Business,

#### 3.10 U.S. INTERNATIONAL TRANSACTIONS Summary

Millions of dollars; quarterly data seasonally adjusted except as noted

				19	97		1998	
Item credits or debits	1995	1996	1997	Q3	Q4	Q1	Q2	Q3
1 Balance on current account 2 Merchandise trade balance <sup>2</sup> 3 Merchandise exports 4 Merchandise imports 5 Military transactions, net 6 Other service transactions, net 7 Investment income, net 8 U.S. government grants 9 U.S. government pensions and other transfers 10 Private remittances and other transfers	-115,254 -173,729 575,845 -749,574 4,769 69,069 19,275 -11,170 -3,433 -20,035	-134,915 -191,337 611,983 -803,320 4,684 78,079 14,236 -15,023 -4,442 -21,112	-155,215 -197,954 679,325 -877,279 6,781 80,967 -5,318 -12,090 -4,193 -23,408	- 38,094 - 49,296 172,302 - 221,598 1,945 20,246 - 1,544 - 2,362 - 1,056 - 6,027	-45,043 -49,839 174,284 -224,123 1,103 20,277 -4,247 -5,213 -1,069 -6,055	-46,735 -55,698 171,469 -227,167 1,527 19,164 -2,248 -2,266 -1,126 -6,088	-56,690 -64,443 164,821 -229,264 1,043 19,529 -3,377 -2,063 -1,126 -6,253	-61,299 -64,360 163,560 -227,920 1,101 17,504 -5,460 -2,582 -1,132 -6,370
11 Change in U.S. government assets other than official reserve assets, net (increase, -)	- 589	-708	174	436	29	-388	-433	194
12 Change in U.S. official reserve assets (increase, -) 13 Gold 14 Special drawing rights (SDRs) 15 Reserve position in International Monetary Fund 16 Foreign currencies	-9,742 0 -808 -2,466 -6,468	6,668 0 370 -1,280 7,578	-1,010 0 -350 -3,575 2,915	-730 0 -139 -463 -128	-4,524 0 -150 -4,221 -153	-444 0 -182 -85 -177	- 1,945 0 72 -1,031 -986	-2,026 0 188 -2,078 -136
17 Change in U.S. private assets abroad (increase) 18 Bank-reported claims 19 Nonbank-reported claims 20 U.S. purchases of foreign securities, net 21 U.S. direct investments abroad, net	-317,122 -75,108 -45,286 -100,074 -96,654	-374,761 -91,555 -86,333 -115,801 -81,072	-477,666 -147,439 -120,403 -87,981 -121,843	-123,023 -29,577 -24,791 -41,167 -27,488	-118,946 -27,539 -47,907 -8,030 -35,470	-44,816 3,074 -6,596 -6,973 -34,321	-107,409 -24,615 -14,327 -27,878 -40,589	-46,220 -28,335 -16,970 -21,243
22 Change in foreign official assets in United States (increase, +) 23 U.S. Treasury securities 24 Other U.S. government obligations 25 Other U.S. government liabilities <sup>4</sup> 26 Other U.S. liabilities reported by U.S. banks <sup>4</sup> 27 Other foreign official assets <sup>5</sup>	109,768 68,977 3,735 -217 34,008 3,265	127,344 115,671 5,008 -362 5,704 1,323	15.817 -7,270 4,334 -2,521 21,928 -654	21,258 6,686 2,667 -1,167 12,439 633	-26,979 -24,578 86 -244 -3,250 1,007	11,324 11,336 2,610 -1,059 -607 -956	-10.274 -20,318 254 -422 9,380 832	-46,370 -32,811 1,906 -414 -12,607 -2,444
28 Change in foreign private assets in United States (increase, +). 29 U.S. bank-reported liabilities 3 30 U.S. nonbank-reported liabilities 3 1 Foreign private purchases of U.S. Treasury securities, net 32 31 U.S. currency flows 33 32 Foreign purchases of other U.S. securities, net 4 33 Foreign direct investments in United States, net 5 34	355,681 30,176 59,637 99,548 12,300 96,367 57,653	436,013 16,478 39,404 154,996 17,362 130,151 77,622	717,624 148,059 107,779 146,710 24,782 196,845 93,449	160,180 12.606 26,275 35,432 6,576 60,327 18,964	247,470 89,643 47,390 35,301 9,900 36,783 28,453	84,205 -50,497 32,707 -1,701 746 77,019 25,931	175,133 37,670 18,040 26,916 2,349 71,017 19,141	159,232 82,680  -257 7,277 22,938 27,065
35 Allocation of special drawing rights 36 Discrepancy 37 Due to seasonal adjustment 38 Before seasonal adjustment	-22,742 -22,742	-59,641 -59,641	0 -99,724 99,724	0 -20,027 -10,018 -10,009	0 -52,007 3,528 -55,535	0 -3,146 6,217 -9,363	0 1,618 1,474 144	-3,511 -10,760 7,249
MEMO Changes in official assets 39 U.S. official reserve assets (increase, -) 40 Foreign official assets in United States, excluding line 25 (increase, +1)	-9,742 109,985	6.668 127,706	-1,010 18,338	-730 22,425	-4,524 -26,735	-444 12,383	-1,945 -9,852	-2,026 -45,956
41 Change in Organization of Petroleum Exporting Countries official assets in United States (part of line 22)	4,239	14,911	10,822	3.031	-1,282	-968	-494	- 12.013

4. Associated primarily with military sales contracts and other transactions arranged with or through foreign official agencies.

5. Consists of investments in U.S. corporate stocks and in debt securities of private corporations and state and local governments.

SOURCE, U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Partiers.

Seasonal factors are not calculated for lines 12–16, 18–20, 22–34, and 38–40
 Data are on an international accounts basis. The data differ from the Census basis data, shown in table 3.11, for reasons of coverage and timing. Military exports are excluded from merchandise trade data and are included in line 5.
 Reporting banks include all types of depository institutions as well as some brokers and dealers.

Business.

#### 3.11 U.S. FOREIGN TRADE

Millions of dollars; monthly data seasonally adjusted

	1004	1007	1000				1998			
ltem	1996 <sup>r</sup>	1997 <sup>r</sup>	1998	June <sup>r</sup>	July <sup>r</sup>	Aug.	Sept. <sup>r</sup>	Oct."	Nov.	Dec. <sup>p</sup>
1 Goods and services, balance 2 Merchandise 3 Services	-108,574	-110,207	-168,587	-14,325	-15,028	-16,785	-14,481	-13,700	-15,257	13,786
	-191,337	-197,955	-247,985	-20,642	-21,140	-22,846	-20,913	-20,279	-21,668	20,328
	82,763	87,748	79,398	6,317	6,112	6,061	6,432	6,579	6,411	
4 Goods and services, exports 5 Merchandise 6 Services	850,775	937,593	931,315	76,132	74,902	74,895	77,374	80,126	78,958	78,496
	611,983	679,325	671,055	54.674	53,733	53,769	55,912	58,246	57,110	56.552
	238,792	258,268	260,260	21,458	21,169	21,126	21,462	21,880	21,848	21,944
7 Goods and services, imports 8 Merchandise 9 Services	-959,349	-1,047,799	-1,099,902	-90,457	-89,930	-91,680	-91,855	-93,826	-94,215	92,282
	-803,320	-877,279	-919,040	-75,316	-74,873	-76,615	-76,825	-78,525	-78,778	76,880
	-156,029	-170,520	-180,862	-15,141	-15,057	-15,065	-15,030	-15,301	-15,437	15,402

<sup>1.</sup> Data show monthly values consistent with quarterly figures in the U.S. balance of

SOURCE. FT900, U.S. Department of Commerce. Bureau of the Census and Bureau of

#### 3.12 U.S. RESERVE ASSETS

Millions of dollars, end of period

	1005	1996	1007				1998				1999
Asset	1995	1996	1997	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>
l Total	85,832	75,090	69,954	71,161	72,264	73,544	75,66	79,183	77,683	81,755	80,675
Gold stock, including Exchange     Stabilization Fund     Special drawing rights     Reserve position in International Monetary     Fund     Foreign currencies	11,050 11.037 14,649 49,096	11,049 10,312 15,435 38,294	11,050 10,027 18,071 30,809	11,047 10.001 18,945 31,168	11,046 9,586 20,780 30,852	11,046 9,891 21,161 31,446	11,044 10,106 21,644 32,882	11,041 10,379 22,278 35,485	11,041 10,393 22.049 34,200	11,041 10,603 24,111 36,001	11,046 10,465 24,129 35,035

#### 3.13 FOREIGN OFFICIAL ASSETS HELD AT FEDERAL RESERVE BANKS<sup>1</sup>

	1005	100/	1007				1998				1999
Asset	1995	1996	1997	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>
! Deposits	386	167	457	200	161	161	347	154	211	167	233
Held in custody 2 U.S. Treasury securities <sup>2</sup> 3 Earmarked gold <sup>1</sup>	522.170 11.702	638,049 11,197	620,885 10,763	616,569 10,617	613,893 10,586	588,337 10,510	578,403 10,457	588,768 10,403	608,060 10,355	607,574 10,343	612,670 10,343

<sup>1.</sup> Excludes deposits and U.S. Treasury securities held for international and regional

<sup>1.</sup> Gold held "under earmark" at Federal Reserve Banks for foreign and international accounts is not included in the gold stock of the United States; see table 3.13, line 3. Gold stock is valued at \$42.22 per fine troy ounce.

2. Special drawing rights (SDRs) are valued according to a technique adopted by the International Monetary Fund (IMF) in July 1974, Values are based on a weighted average of exchange rates for the currencies of member countries. From July 1974 through December 1980, sixteen currencies were used: since January 1981, five currencies have been used. U.S.

SDR holdings and reserve positions in the IMF also have been valued on this basis since July

<sup>1974.
3.</sup> Includes allocations of SDRs by the International Monetary Fund on Jan. 1 of the year indicated, as follows: 1970—\$867 million; 1971—\$717 million; 1972—\$710 million; 1979—\$1,139 million; 1980—\$1,152 million; 1981—\$1,093 million; plus net transactions in SDRs.

<sup>4.</sup> Valued at current market exchange rates.

organizations.

2. Marketable U.S. Treasury bills, notes, and bonds and nonmarketable U.S. Treasury securities, in each case measured at face (not market) value.

<sup>3.</sup> Held in foreign and international accounts and valued at \$42.22 per tine troy ounce; not included in the gold stock of the United States.

#### 3.15 SELECTED U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS

Millions of dollars, end of period

						1998			
Item	1996	1997	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
l Total	758,624	778,596	781,205	775,372	760,864	735,121	747,243 <sup>r</sup>	753,706°	759,061
By type 2 Liabilities reported by banks in the United States <sup>2</sup> 3 U.S. Treasury bills and certificates <sup>3</sup> U.S. Treasury bonds and notes 4 Marketable 5 Nonmarketable <sup>4</sup> 6 U.S. securities other than U.S. Treasury securities <sup>5</sup>	113,098 198,921 379,497 5,968 61,140	135,384 148,301 423,456 5,994 65,461	144,235 134,324 428,216 6,229 68,201	142,375 131,089 428,685 6,269 66,954	144,120 130,398 411,765 6,311 68,270	131,551 128,146 401,461 6,350 67,613	134,822 <sup>r</sup> 128,598 410,462 5,997 67,364	125,265 <sup>r</sup> 133,702 422,305 6,035 66,399	122,947 134,152 427,579 6,067 68,316
By area 7 Europe 7 Europe 8 Canada 9 Latin America and Caribbean 10 Asia 11 Africa 12 Other countries	257,915 21,295 80,623 385,484 7,379 5,926	263,221 18,749 97,616 382,363 10,118 6,527	264,718 19,396 100,924 378,113 11,555 6,497	270,355 19,963 100,901 367,687 11,904 4,560	266,600 16,387 98,480 363,902 11,501 3,992	258,234 16,170 79,838 365,631 11,721 3,525	270.630 <sup>r</sup> 17,216 78,143 <sup>r</sup> 367,784 <sup>r</sup> 11,113 2,355	271,960 <sup>r</sup> 19,457 77,433 <sup>r</sup> 371,578 <sup>r</sup> 10,221 3,055	266,558 19,287 80,004 380,459 10,196 2,555

<sup>1.</sup> Includes the Bank for International Settlements.

Venezuela, beginning December 1990, 30-year maturity issue; Argentina, beginning April

#### 3.16 LIABILITIES TO, AND CLAIMS ON, FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in Foreign Currencies

Town	1004	1005	1006	1997		1998		
Item	1994	1995	1996	Dec.	Mar.	June	Sept.	
1 Banks' liabilities	89,258 60,711 19,661 41,050 10,878	109,713 74,016 22,696 51,320 6,145	103,383 66,018 22,467 43,551 10,978	117,524 83,038 28,661 54,377 8,191	100,638 82,209 28,127 54,082 7,926	87,889 68,286 27,387 40,899 7,354	93,815 67,813 27,293 40,520 8,453	

<sup>1.</sup> Data on claims exclude foreign currencies held by U.S. monetary authorities.

Principally demand deposits, time deposits, bankers acceptances, commercial paper, negotiable time certificates of deposit, and borrowings under repurchase agreements.
 Includes nonmarketable certificates of indebtedness and Treasury bills issued to official institutions of foreign countries.

<sup>4.</sup> Excludes notes issued to foreign official nonreserve agencies. Includes current value of zero-coupon Treasury bond issues to foreign governments as follows: Mexico, beginning March 1988, 20-year maturity issue and beginning March 1990, 30-year maturity issue;

<sup>1993, 30-</sup>year maturity issue.

5. Debt securities of U.S. government corporations and federally sponsored agencies, and

S. Corporate stocks and bonds.

SOURCE. Based on U.S. Department of the Treasury data and on data reported to the department by banks (including Federal Reserve Banks) and securities dealers in the United States, and on the 1989 benchmark survey of foreign portfolio investment in the United

<sup>2.</sup> Assets owned by customers of the reporting bank located in the United States that represent claims on foreigners held by reporting banks for the accounts of the domestic customers.

#### 3.17 LIABILITIES TO FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. dollars

	-						1998			
ltem	1996	1997	1998	June	July	Aug.	Sept.	Oct. <sup>t</sup>	Nov.	Dec.p
By HOLDER AND TYPE OF LIABILITY		_								
1 Total, all foreigners	1,162,148	1,283,787	1,344,175	1,288,032	1,306,155	1,341,295	1,350,292	1,371,998	1,346,154	1,344,175
2 Banks' own habilities 3 Demand deposits 4 Time deposits 5 Other 6 Own foreign offices	758,998	883,740	884,504	884,734	896,972	928,182	917,008	911,258	880,616	884,504
	27,034	32,104	29,275	36,246	30,928	33,038	33,547	32,071	32,104	29,275
	186,910	198,546	151,444	186,686	188,056	183,556	174,173	158,664	149,746	151,444
	143,540	168,011	140,022	183,402	192,536	190,542	165,205	153,269	143,341	140,022
	401,544	485,079	563,763	478,400	485,452	521,046	544,083	567,254	555,425	563,763
7 Banks' custodial habitimes'	403,150	400,047	459,671	403,298	409,183	413,113	433,284	460,740	465,538	459,671
	236,874	193,239	183,393	169,225	164,274	162,235	160,598	168,764	182,917	183,393
instruments <sup>2</sup>	72.011	93,641	139,615	112,598	117,433	123,378	142,169	151,239	142,399	139,615
	94.265	113,167	136,663	121,475	127,476	127,500	130,517	140,737	140,222	136,663
11 Nonmonetary international and regional organizations   12   Banks' own liabilities   13   Demand deposits   14   Time deposits   15   Other   15   Other   16   Other   17   Other   17   Other   18   Other   18   Other   19   Other   1	13,972	11,690	11,810	14,103	14,314	15,188	15,215	12,810	13,207	11,810
	13,355	11,486	10,827	13,441	12,188	13,684	13,862	11,644	12,267	10,827
	29	16	72	226	19	59	408	97	234	72
	5,784	5,466	5,878	6,784	6,354	6,252	5,763	5,418	5,802	5,878
	7,542	6,004	4,877	6,431	5,815	7,373	7,691	6,129	6,231	4,877
16 Banks' custodial habilities	617	204	983	662	2,126	1,504	1,353	1,166	940	983
	352	69	636	338	349	490	435	509	570	636
instruments <sup>7</sup> 19 Other	265	133	347	322	1,777	1,012	818	657	370	347
	0	2	0	2	0	2	100	0	0	0
20 Official institutions <sup>9</sup> 21 Banks' own liabilities 22 Demand deposits 23 Time deposits <sup>2</sup> 24 Other <sup>3</sup>	312,019	283,685	257,099	278,559	273.464	274,518	259,697	263,420	258,967	257,099
	79,406	102,028	78,704	102,392	102.275	101,608	85,310	84,826	79,450	78,704
	1.511	2,314	2,786	2,582	3,560	3,456	3,607	3,325	2,744	2,786
	33,336	41,396	28,677	36,044	36,333	35,578	28,076	26,148	25,659	28,677
	44,559	58,318	47,241	63,766	62,382	62,574	53,627	55,353	51,047	47,241
25 Banks' custodial ltabilities 5 26 U.S. Treasury bills and certificates 6 27 Other negotiable and readily transferable	232,613	181,657	178,395	176,167	171,189	172,910	174,387	178,594	179,517	178,395
	198,921	148,301	134,152	134,324	131,089	130,398	128,146	128,598	133,702	134,152
instruments <sup>7</sup> 28 Other	33,266	33,151	43,569	41,180	39,792	41,759	45,684	49,691	45,346	43,569
	426	205	674	663	308	753	557	305	469	674
29 Banks         Banks           30 Banks         own liabilities           31 Unaffiliated foreign banks           32 Demand deposits           33 Time deposits           34 Other           35 Own foreign offices <sup>4</sup>	694,835	816.007	884,810	809,091	824,652	852,890	876,463	898,909	885,634	884,810
	562,898	642.207	677,224	632,872	643,722	673,127	687,824	690,862	673,486	677,224
	161,354	157.128	113,461	154,472	158,270	152,081	143,741	123,608	118,061	113,461
	13,692	17,527	14,105	20,772	15,097	16,063	15,799	15,802	15,119	14,105
	89,765	83,433	46,273	75,231	78,252	74,201	71,259	56,193	51,352	46,273
	57,897	56,168	53,083	58,469	64,921	61,817	56,683	51,613	51,590	53,083
	401,544	485,079	563,763	478,400	485,452	521,046	544,083	567,254	555,425	563,763
36 Banks' custodial habilities <sup>5</sup>	131,937	173,800	207,586	176,219	180,930	179,763	188,639	208.047	212,148	207,586
	23,106	31,915	35,466	25,337	22,929	20,696	21,563	27.556	35,213	35,466
instruments <sup>7</sup> 39 Other	17.027	35,393	44,574	38,122	39,203	40,180	44,807	48,240	44,999	44,574
	91.804	106,492	127,546	112,760	118,798	118,887	122,269	132,251	131,936	127,546
40 Other foreigners 41 Banks' own liabilities 42 Demand deposits 43 Time deposits 44 Other	141,322	172,405	190,456	186,279	193,725	198,699	198,917	196,859	188,346	190,456
	103,339	128,019	117,749	136,029	138,787	139,763	130,012	123,926	115,413	117,749
	11,802	12,247	12,312	12,666	12,252	13,460	13,733	12,847	14,007	12,312
	58,025	68,251	70,616	68,627	67,117	67,525	69,075	70,905	66,933	70,616
	33,512	47,521	34,821	54,736	59,418	58,778	47,204	40,174	34,473	34,821
45 Banks' custodial liabilities <sup>5</sup> . 46 U.S. Freasury bills and certificates <sup>6</sup> 47 Other negotiable and readily transferable	37,983	44,386	72,707	50.250	54,938	58,936	68,905	72,933	72,933	72,707
	14,495	12,954	13,139	9,226	9,907	10,651	10,454	12,101	13,432	13,139
mstruments <sup>7</sup> 48 Other	21,453	24,964	51,125	32,974	36,661	40,427	50,860	52,651	51,684	51,125
	2,035	6,468	8,443	8,050	8,370	7,858	7,591	8,181	7,817	8,443
MEMO 49 Negotiable time certificates of deposit in custody for foreigners	14.573	16,083	26,969	21,229	22,847	25,867	27,391	29,933	28,793	26,969

<sup>1.</sup> Reporting banks include all types of depository institutions as well as some brokers and dealers. Excludes bonds and notes of maturities longer than one year.

2. Excludes negotiable time certificates of deposit, which are included in "Other negotiable and readily transferable instruments."

3. Includes borrowing under repurchase agreements.

4. For U.S. banks, includes amounts owed to own foreign branches and foreign subsidiaries consolidated in quarterly Consolidated Reports of Condition filed with bank regulatory agencies. For agencies, branches, and majority-owned subsidiaries of foreign banks, consists principally of amounts owed to the head office or parent foreign bank, and to foreign branches, agencies, or wholly owned subsidiaries of the head office or parent foreign bank.

5. Financial claims on residents of the United States, other than long-term securities, held by or through reporting banks for foreign customers.

by or through reporting banks for foreign customers.

<sup>6.</sup> Includes nonmarketable certificates of indebtedness and Treasury bills issued to official institutions of foreign countries.

7. Principally bankers acceptances, commercial paper, and negotiable time certificates of

Principally bankers acceptances, commercial paper, and negotiable time certificates of deposit.
 Principally the International Bank for Reconstruction and Development, the Inter-American Development Bank, and the Asian Development Bank. Excludes "holdings of dollars" of the International Monetary Fund.

 Proreign central banks, foreign central governments, and the Bank for International Settlements.

<sup>10.</sup> Excludes central banks, which are included in "Official institutions."

#### 3.17 LIABILITIES TO FOREIGNERS Reported by Banks in the United States 1—Continued

	1005	100=	1000				1998			
ltem	1996	1997	1998	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>p</sup>
AREA										
50 Total, all foreigners	1,162,148	1,283,787	1,344,175	1,288,032	1,306,155	1,341,295	1,350,292	1,371,998 <sup>r</sup>	1,346,154 <sup>r</sup>	1.344,175
51 Foreign countries	1,148,176	1,272,097	1,332,365	1,273,929	1,291,841	1,326,107	1,335,077	1,359,188 <sup>r</sup>	1,332,947	1,332,365
52 Europe 53 Austria 54 Belgium and Luxembourg 55 Denmark 56 Finland 57 France 58 Germany 59 Greece 60 Italy 61 Netherlands 62 Norway 63 Portugal 64 Russia	376,590 5,128 24,084 2,565 1,958 35,078 24,660 1,835 10,946 11,110 1,288 3,562 7,623	420,432 2,717 41,007 1,514 2,246 46,607 23,737 1,552 11,378 7,385 317 2,262 7,968	426,980 3.181 42.819 1,430 1,862 44,630 21.357 2.066 7,104 10,760 710 3,235 2,442	402,103 2,268 35,454 1,989 1,438 46,162 25,470 2,429 11,509 6,845 607 2,334 4,654	431,783 2,602 33,845 2,013 1,211 47,140 23,730 2,784 11,114 7,097 1,179 2,823 6,398	457,537 2,671 35,086 2,128 1,350 48,328 28,751 10,625 9,239 1,469 2,424 2,718	450,587 3,137 33,934 1,578 1,181 50,405 25,811 2,544 9,183 8,066 688 2,292 3,085	451,350 <sup>1</sup> 2,799 39,911 1,813 1,193 47,348 22,024 <sup>1</sup> 2,901 7,124 7,251 <sup>r</sup> 1,149 2,377 3,735	449,567° 2,824° 42,014 1,675 1,706 48,169° 22,606° 2,444 6,378 9,298 797 2,400 2,698	426,980 3,181 42,819 1,430 1,862 44,630 21,357 2,066 7,104 10,760 710 3,235 2,442
65 Spain 66 Sweden 67 Switzerland 68 Turkey 69 United Kingdom 70 Yugoslavia <sup>11</sup> 71 Other Europe and other former U.S.S.R. <sup>12</sup> 72 Canada	17,707 1,623 44,538 6,738 153,420 206 22,521 38,920	18,989 1,628 39,023 4,054 181,904 239 25,905 28,341	15,775 3,027 50,654 4,286 181,540 258 29,844 30,212	11,649 3,148 38,986 4,894 176,703 234 25,330 28,864	12,079 2,198 44,676 5,077 196,859 322 28,636	14,283 1,769 39,362 4,317 219,197 242 30,637 27,844	20,485 3,285 48,393 4,264 204,915 253 27,088 28,701	26,569 3,257 47,332 4,105 202,5367 362 27,564 31,278	27,017 <sup>r</sup> 3,857 50,167 3,842 195,099 <sup>r</sup> 271 26,305 29,249 <sup>r</sup>	15,775 3,027 50,654 4,286 181,540 258 29,844 30,212
73 Latin America and Caribbean 74 Argentina 75 Bahamas 76 Bermuda 77 Brazil 78 British West Indies 79 Chile 80 Colombia 81 Cuba 82 Ecuador 83 Guatemala 84 Jamaica 85 Mexico 86 Netherlands Antilles 87 Panama 88 Pen 89 Uruguay 90 Venezuela 91 Other 92 Asia China 93 Mannland 94 Taiwan 95 Hong Kong 1ndia 97 Indonesia	13,877 88,895 5,527 27,701 251,465 3,256 2,915 3,256 628 31,240 6,099 834 1,890 17,363 8,670 249,083 30,438 15,995 18,789 3,930 2,298	536,393 20,199 112,217 6,911 31,037 276,418 4,072 3,652 66 2,078 1,494 450 33,972 5,085 4,241 893 2,382 21,601 9,625 269,379 18,252 11,840 17,722 4,567 3,554 4,628 11,840	554,526 19,012 118,050 6,841 15,790 302,011 5,008 4,615 62 1,572 1,331 5,019 3,7,143 5,019 3,860 4,445 19,887 10,501 12,708 20,820 5,228 8,288 7,749	568.228 18.502 116.435 7.769 35.345 295.321 4.356 4.805 63 3 1.616 1.363 3.9255 1.982 20.442 20.442 21.558 11.619 19.720 4.821 3.8848 6.095	564,055 21,010 115,309 7,216 34,292 290,009 4,987 4,023 63 1,772 1,273 519 38,554 8,922 3,596 9,84 4,2097 19,492 9,937 247,952 18,919 11,333 15,826 4,678 3,938 5,969	556,699 21,655 113,543 7,332 27,824 291,098 4,726 4,102 62 1,608 1,237 5,50 38,087 8,340 3,675 900 2,091 20,125 9,744 266,480 18,506 11,290 18,349 6,437 5,651	561,502 18.384 124,249 7.920 18.453 298,697 5,725 62 1.540 1.241 35.681 8.588 3.826 19,180 9,821 275,745 18.523 12.080 16,627 5,144 5,470 5,984 5,984 5,984 12,540 12,540 12,540 12,540 13,568 14,540 14,540 15,540 16,627 5,144 5,470 5,984 5,470 5,988	575.837' 17.706 128.893 7.247 17.308 310,058' 5.598 4.888 577 1.679 1.232 578 38.058 6.255' 3.793 799 2.223 19,662 9.803 284,441' 15.814' 12.802' 16,508 5.337 5.671 4.781	545,251' 18,892 115,598 7,241 13,370' 298,260' 4,778' 4,124' 63 1,510' 1,204' 524 36,720' 6,009' 3,774' 814 2,199 19,631' 10,540 293,584' 13,784' 12,361' 16,739 5,089 6,247 8,106	554,526 19,012 118,050 6,844 15,790 302,011 5,008 4,615 62 1,572 1,331 5,019 3,860 8,40 2,445 19,887 10,501 305,633 13,040 12,708 20,820 5,288 8,288 7,749
98   Israel	6,051 117,316 5,949 3,378 10,912 16,285 17,742 8,116 2,012 112 458 10 2,626 2,898	143,401 13,060 3,250 6,501 14,959 25,992 10,347 1,663 138 2,158 10 3,060 3,318	168,162 12,454 3,324 7,360 15,123 31,347 8,907 1,339 97 1,517 5 3,088 2,861	118,669 13,269 3,418 7,148 13,829 30,418 10,735 1,523 84 2,642 5 3,552 2,929	123.167 12.713 2.609 6.780 13.902 28.118 10.788 1.319 74 2.446 7 3.893 3.049	3,290 131,376 12,493 2,777 7,869 14,532 31,904 10,562 1,459 76 2,428 35 3,684 2,880	142.767 12.971 2.712 6.664 16.627 30,176 11,098 1.616 88 2,658 6 3.727 3,003	4,781 156,340 <sup>r</sup> 12,505 <sup>t</sup> 2,539 7,134 14,718 30,292 9,749 1,288 2,358 7 3,291 2,727	8,889 1,498	168.162 12.454 3.324 7.360 15.123 31,347 8.907 1.339 97 1.517 5 3.088 2.861
112 Other	7,938 6,479 1,459 13,972 12,099 1,339 534	7,205 6,304 901 11,690 10,517 424 749	6,107 4,969 1,138 11,810 9,998 794 1,018	9,587 8,510 1,077 14,103 12,548 694 861	7,737 6,490 1,247 14,314 11,220 750 2,344	6,985 5,931 1,054 15,188 12,825 721 1,642	7,444 6,427 1,017 15,215 12,782 803 1,630	6,533 5,372 1,161 12,810 <sup>r</sup> 10,519 <sup>r</sup> 1,008 1,283	6,407 5,180 1,227 13,207 <sup>1</sup> 11,298 <sup>1</sup> 598 1,311	6,107 4,969 1,138 11,810 9,998 794 1,018

<sup>11.</sup> Since December 1992, has excluded Bosnia. Croatia, and Slovenia.
12. Includes the Bank for International Settlements. Since December 1992, has included all parts of the former U.S.S.R. (except Russia), and Bosnia. Croatia. and Slovenia.
13. Comprises Bahrain. Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia. and United Arab Emirates (Frucial States).
14. Comprises Algeria. Gabon, Libya, and Nigeria.

<sup>15.</sup> Principally the International Bank for Reconstruction and Development. Excludes "holdings of dollars" of the International Monetary Fund.

16. Principally the Inter-American Development Bank.

17. Asian, African, Middle Eastern, and European regional organizations, except the Bank for International Settlements, which is included in "Other Europe."

#### 3.18 BANKS' OWN CLAIMS ON FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

	100		1000				1998			
Area or country	1996	1997	1998	June	July	Aug.	Sept.	Oct.	Nov.	Dec.P
1 Total, all foreigners	599,925	708,225	737,207	727,960	740,227	764.878	768,427	749,543 <sup>r</sup>	756,099 <sup>r</sup>	737,207
2 Foreign countries	597,321	705,762	733,589	725,045	735,817	760,488	763,105	744,153 <sup>r</sup>	751,861 <sup>r</sup>	733,589
3 Europe 4 Austria 5 Belgium and Luxembourg 6 Denmark 7 Finkind 8 France 9 Germany 10 Greece 11 Italy 12 Netherlands 13 Norway	165,769 1,662 6,727 492 971 15,246 8,472 568 6,457 7,117 808	199,880 1,354 6,641 980 1,233 16,239 12,676 402 6,230 6,141 555	234,477 1,043 7,187 2,584 1,070 15,251 15,922 575 7,283 5,733 827	223.277 1,259 7,782 1,198 1,146 15,474 15,751 364 6,435 5,763 680	229,928 1,892 8,459 933 1,032 14,421 11,327 450 6,345 5,642 553	227,688 1,856 6,779 1,374 1,161 17,314 12,029 530 8,617 4,321 1,110	234,967 1,849 8,200 1,059 1,073 17,077 15,375 373 6,510 4,803 640	224,661 2,358 <sup>r</sup> 9,245 <sup>r</sup> 1,768 1,149 16,307 15,121 415 7,153 5,230 662	228,922 <sup>r</sup> 2,311 7,409 2,524 1,050 <sup>r</sup> 18,881 <sup>r</sup> 17,997 510 6,544 <sup>r</sup> 5,686 385	234,477 1,043 7,187 2,584 1,070 15,251 15,922 575 7,283 5,733 827
13   Norway	418 1,669 3,211 1,739 19,798 1,109 85,234 115 3,956	777 1,248 2,942 1,854 28,846 1,558 103,143 52 7,009	694 775 5,736 4,223 46,942 1,981 106,713 53 9,885	888 1,057 5,560 3,069 34,970 2,414 109,755 53 9,659	1.156 1.345 6.424 4.553 49,359 2,010 104.397 79 9,551	725 1,209 5,225 4,456 49,258 1,990 99,174 53 10,507	975 920 7,980 4,319 55,798 1,900 97,436 53 8,627	885 883 6.051 4,508 43,337 1,848 98,746 53 8,942	679 760 5,234 5,087 45,858 1,915 97,072 53 8,967	694 775 5,736 4,223 46,942 1,981 106,713 53 9,885
23 Canada	26,436	27.189	47,212	32,701	36,007	41,402	41,165	37,316	44,830 <sup>r</sup>	47,212
24 Latin America and Caribbean         25 Argentina         26 Bahamas         27 Bermuda         28 Brazil         29 British West Indies         30 Chile         31 Colombia         32 Cuba	274,153 7,400 71,871 4,129 17,259 105,510 5,136 6,247	343,730 8,924 89,379 8,782 21,696 145,471 7,913 6,945	343,496 9,518 97,906 4,908 16,222 153,138 8,312 6,493 0	365.814 8,518 77,595 9,452 24,552 176,825 8,497 7,102 0	359,277 8,421 78,770 10.622 24,187 166,203 8,434 6,914	379,383 8,724 77,875 9,629 23,530 192,334 8,307 6,905	373.237 8,777 86.867 10.610 19.073 182,757 8,345 6,813 0	368,394 9,087 88,923 6,585 17,644 183,122 8,549 6,764	368,212' 9,225 91,171 5,702 17,801' 179,223' 8,824' 6,639	343,496 9,518 97,906 4,908 16,222 153,138 8,312 6,493
33         Ecuador           34         Guatemata           35         Jamarca           36         Mexico           37         Netherlands Antilles           38         Panama           39         Peru           40         Uruguay           41         Venezuela           42         Other	1,031 620 345 18,425 25,209 2,786 2,720 589 1,702 3,174	1.311 886 424 19,428 17,838 4,364 3,491 629 2,129 4,120	1,399 1,126 333 21,126 6,779 3,614 3,260 1,126 3,103 5,133	1,430 932 320 20,371 14,294 4,233 3,965 959 2,495 4,274	1.649 911 335 20,062 16,278 4,308 4,009 1,154 2,436 4,584	1.518 950 318 20,078 12,939 4,157 4,061 1,055 2,649 4.354	1,458 1.166 305 20,677 10,294 4,226 3,829 955 2,638 4,447	1,444 947 330 22,039 7,323 4,011 3,706 958 2,689 4,273	1,351 <sup>r</sup> 1,483 299 22,483 7,696 3,864 <sup>r</sup> 3,618 <sup>r</sup> 1,040 2,788 5,005	1,399 1,126 333 21,126 6,779 3,614 3,260 1,126 3,103 5,133
43 Asia	122,478	125,092	98,656	94,825	100,187	102,382	104,614	104,781 <sup>r</sup>	100,759 <sup>r</sup>	98,656
Mainland	1,401 1,894 12,802 1,946 1,762 633 59,967 18,901 1,697 2,679 10,424 8,372	1.579 922 13,991 2.200 2,651 768 59,549 18,162 1,689 2,259 10,790 10,532	1,311 1,042 9,069 1,468 1,951 1,166 46,712 8,003 1,471 1,835 16,269 8,359	1,989 836 12,870 1,972 2,098 954 43,005 11,027 1,541 1,889 8,448 8,196	1,679 585 11,045 1,822 2,010 1,116 45,566 12,863 1,244 1,820 11,207 9,230	2,703 651 13,821 1,878 2,031 898 44,822 11,508 1,259 1,883 12,136 8,792	1,380 1,031 10,548 1,823 2,108 941 52,213 9,823 1,280 2,129 12,681 8,657	2.275 1.079 8.244 1.582 2.044 <sup>4</sup> 1,504 52.904 9.733 1.128 1.952 13.531 8,805	2,488' 957 8,238 1,533 2,069' 916' 48,406 8,947' 1,619 1,884 15,079 8,623	1,311 1,042 9,069 1,468 1,951 1,166 46,712 8,003 1,471 1,835 16,269 8,359
56 Africa   57   Egypt   58   Morocco   59   South Africa   60   Zaire   61   Oil-exporting countries   62   Other   63   Other   64   Other   65   Other   65   Other   65   Other   66   Other   66   Other   67   Other   67	2,776 247 524 584 0 420 1,001	3,530 247 511 805 0 1.212 755	3,122 257 372 643 0 936 914	2,484 283 430 653 0 308 810	3,497 294 471 630 0 1,331 771	3,262 279 426 653 0 1,046 858	3,012 272 390 694 0 787 869	2,785 322 405 665 0 533 860	2.611 259 390 704 0 454 804	3,122 257 372 643 0 936 914
63 Other	5,709 4,577 1,132	6,341 5,300 1,041	6,626 6,167 459	5,944 5,438 506	6,921 6,067 854	6,371 5,999 372	6,110 5,783 327	6,216 5,809 407	6,527 6,008 519	6,626 6,167 459
66. Nonmonetary international and regional organizations $^{6}\dots$	2.604	2,463	3,618	2.915	4,410	4,390	5,322	5,390	4,238	3,618

Reporting banks include all types of depository institutions as well as some brokers and dealers.
 Since December 1992, has excluded Bosnia, Croatia, and Slovenia.
 Includes the Bank for International Settlements. Since December 1992, has included all parts of the former U.S.S.R. (except Russia), and Bosnia, Croatia, and Slovenia

<sup>4.</sup> Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia. and United Arab Emirates (Trucial States).

5. Comprises Algeria. Gabon, Libya, and Nigeria.

6. Excludes the Bank for International Settlements, which is included in "Other Europe."

#### 3.19 BANKS' OWN AND DOMESTIC CUSTOMERS' CLAIMS ON FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

Millions of dollars, end of period

							1998			
Type of claim	1996	996 1997 1998 June July Aug.		Sept.	Oet. <sup>r</sup>	Nov.	Dec. <sup>p</sup>			
Total	743,919	852,852		880,836			926,478	,		
2 Banks' claims 3 Foreign public borrowers 4 Own foreign offices 5 Unaffiliated foreign banks 6 Deposits 7 Other 8 All other foreigners	599,925 22,216 341,574 113,682 33,826 79,856 122,453	708,225 20,581 431,685 109,230 30,995 78,235 146,729	737,207 23,543 486,840 105,566 28,454 77,112 121,258	727,960 27,780 435,201 107,832 22,843 84,989 157,147	740,227 35,635 446,536 101,956 23,283 78,673 156,100	764.878 29,758 466,019 106.034 24.593 81,441 163.067	768.427 26.377 486.452 108.972 30.426 78.546 146.626	749,543 28,164 476,973 109,140 26,713 82,427 135,266	756,099 25,993 487,630 117,919 34,149 83,770 124,557	737,207 23,543 486,840 105,566 28,454 77,112 121,258
9 Claims of banks' domestic customers <sup>3</sup> 10 Deposits	143,994 77,657	144,627 73,110		152,876 86,008			158,051 89,602			
instruments <sup>4</sup>	51,207 15,130	53,967 17,550		52,171 14,697			53,512 14,937			
MEMO 13 Customer hability on acceptances	10,388	9,624	-	6,599			6,068			
14 Dollar deposits in banks abroad, reported by nonbanking business enterprises in the United States	39,661	33,816 <sup>r</sup>	39,978	24,4021	31,927 <sup>r</sup>	28.436 <sup>r</sup>	25,082	34,265	32.888	39,978

principally of amounts due from the head office or parent foreign bank, and from foreign branches, agencies, or wholly owned subsidiaries of the head office or parent foreign bank.

3. Assets held by reporting banks in the accounts of their domestic customes.

4. Principally negotiable time certificates of deposit, bankers acceptances, and commercial

#### BANKS' OWN CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

				1997		1998	
Maturity, by borrower and area <sup>2</sup>	1994 1995 1996		Dec	Mar	June	Sept	
1 Total	202,282	224,932	258,106	276,550	285,570	292,747	281,085
By borrower  2 Maturity of one year or less 3 Foreign public borrowers 4 All other foreigners 5 Maturity of more than one year 6 Foreign public borrowers 7 All other foreigners	170,411 15,435 154,976 31,871 7,838 24,033	178,857 14,095 163,862 46,075 7,522 38,553	211.859 15.411 196.448 46.247 6.790 39.457	205,781 12,081 193,700 70,769 8,499 62,270	214,779 16,965 197,814 70,791 11,265 59,526	211,347 16,997 194,350 81,400 10,647 70,753	208,392 14,613 193,779 72,693 10,875 61,818
By area Maturity of one year or less  Europe 9 Canada 10 Latin America and Caribbean 11 Asia 12 Africa	56,381 6,690 59,583 40,567 1,379	55,622 6,751 72,504 40,296 1,295	55,690 8,339 103,254 38,078 1,316	58,294 9,917 97,207 33,964 2,211	69,150 9,297 101,070 28,751 2,227	73,787 8,766 99,611 23,570 1,116	69,010 8,953 99,650 22,330 1,762
13 All other <sup>3</sup> Maturity of more than one year 14 Europe 15 Canada 16 Latin America and Caribbean 17 Asia 18 Africa 19 All other <sup>3</sup>	5.811 4,358 3,505 15,717 5,323 1,583 1,385	2,389 4,995 2,751 27,681 7,941 1,421 1,286	5,182 6,965 2,645 24,943 9,392 1,361 941	4,188 13,240 2,525 42,049 10,235 1,236 1,484	4.284 15.118 2.765 39,363 10,786 1.254 1.505	15,606 2,571 47,969 12,589 1,259 1,406	6.687 15.381 2.982 39.134 12.122 1.170 1.904

<sup>1.</sup> Reporting banks include all types of depository institutions as well as some brokers and dealers

For banks' claims, data are monthly; for claims of banks' domestic customers, data are for quarter ending with month indicated.

Reporting banks include all types of depository institution as well as some brokers and dealers.

2. For US banks, includes amounts due from own foreign branches and foreign subsidiaries consolidated in quarterly Consolidated Reports of Condition filed with bank regulatory agencies. For agencies, branches, and majority-owned subsidiaries of foreign banks, consists.

paper.

5. Includes demand and time deposits and negotiable and nonnegotiable certificates of deposit denominated in U.S. dollars issued by banks abroad.

Maturity is time remaining until maturity.
 Includes nonmonetary international and regional organizations.

_				19	96		19	97			1998	
	Area or country	1994	1995	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.
ı	Fotal	499.5	551.9	586.2	645.3	647.6	678.8	711.0	726.0	739.1	746.6	723.0°
2 3 4 5 6 7 8 9 10	G-10 countries and Switzerland Belgium and Luxembourg. France. Germany. Italy Netherlands Sweden. Switzerland United Kingdom Canada Japan	191.2 7.2 19.1 24.7 11.8 3.6 2.7 5.1 85.8 10.0 21.1	206.0 13.6 19.4 27.3 11.5 3.7 2.7 6.7 82.4 10.3 28.5	220.0 11.3 17.4 33.9 15.2 5.9 3.0 6.3 90.5 14.8 21.7	228.3 11.7 16.6 29.8 16.0 4.0 2.6 5.3 104.7 14.0 23.7	231.4 14.1 19.7 32.1 14.4 4.5 3.4 6.0 99.2 16.3 21.7	250.0 9.4 17.9 34.1 20.2 6.4 3.6 5.4 110.6 15.7 26.8	247.8 11.4 20.2 34.7 19.3 7.2 4.1 4.8 108.3 15.1 22.6	242.8 11.0 15.4 28.6 15.5 6.2 3.3 7.2 113.4 13.7 28.6	249.0 11.2 15.5 25.5 19.7 7.3 4.8 5.6 120.1 13.5 25.8	275.0 13.1 20.5 28.7 19.5 8.3 3.1 6.9 134.8 16.5 23.7	258.5 10.9 19.9 28.9 17.9' 8.1' 2.1 7.4 125.1' 15.5 22.7
13 C 14 15 16 17 18 19 20 21 22 23 24	Austrialized countries Austria Denmark Finland Greece Norway Portugal Spain Turkey Other Western Europe South Africa. Australia	45.7 1.1 1.3 .9 4.5 2.0 1.2 13.6 1.6 3.2 1.0 15.4	50.2 .9 2.6 .8 5.7 3.2 1.3 11.6 1.9 4.7 1.2 16.4	62.1 1.0 1.7 .6 6.1 3.0 1.4 16.1 2.8 4.8 1.7 22.8	65.7 1.1 1.5 .8 6.7 8.0 .9 13.2 2.7 4.7 2.0 24.0	66.4 1.9 1.7 .7 6.3 5.3 1.0 14.4 2.8 6.3 1.9 24.4	71.7 1.5 2.8 1.4 6.1 4.7 1.1 15.4 3.4 5.5 1.9 27.8	73.8 1.7 3.7 1.9 6.2 4.6 1.4 13.9 4.4 6.1 1.9 28.0	64.5 1.5 2.4 1.3 5.1 3.6 9 11.7 4.5 8.2 2.2 23.1	74.3 1.7 2.0 1.5 6.1 4.0 .7 16.5 4.9 9.9 3.7 23.2	72.0 1.9 2.1 1.4 5.8 3.4 1.3 15.1 6.5 9.6 5.0 20.0	71.4 <sup>r</sup> 2.1 2.8 1.6 5.7 3.3 1.0 17.5 <sup>r</sup> 5.2 10.3 <sup>r</sup> 3.7 18.2
25 26 27 28 29 30	DPEC <sup>2</sup> Ecuador Venezuela Indonesia Middle East countries African countries	24.1 .5 3.7 3.8 15.3 .9	22.1 .7 2.7 4.8 13.3 .6	19.2 .9 2.3 5.4 10.2	19.7 1.1 2.4 5.2 10.7	21.8 1.1 1.9 4.9 13.2	22.3 .9 2.1 5.6 12.5 1.2	22.9 1.2 2.2 6.5 11.8 1.1	26.0 1.3 2.5 6.7 14.4 1.2	25.7 1.3 3.3 5.5 14.3 1.4	25.3 1.2 3.2 5.1 15.5 .3	25.8 1.2 3.1 4.7 16.1 .8
31	Non-OPEC developing countries	96.0	112.6	124.4	130.3	128.1	140.6	137.0	138.7	147.4	144.4	138.2 <sup>r</sup>
32 33 34 35 36 37 38	Latin America           Argentina           Brazil           Chile           Colombia           Mexico           Peru           Other	11.2 8.4 6.1 2.6 18.4 .5 2.7	12.9 13.7 6.8 2.9 17.3 .8 2.8	15.0 17.8 6.6 3.1 16.3 1.3 3.0	14.3 20.7 7.0 4.1 16.2 1.6 3.3	14.3 22.0 6.8 3.7 17.2 1.6 3.4	16.4 27.3 7.6 3.3 16.6 1.4 3.4	17.1 26.1 8.0 3.4 16.4 1.8 3.6	18.4 28.6 8.7 3.4 17.4 2.0 4.1	19.3 32.4 9.0 3.3 17.7 2.1 4.0	20.2 29.9 9.1 3.6 17.9 2.2 4.4	22.3 23.4 8.5 3.4 18.4 2.2 4.6
39 40 41 42 43 44 45 46 47	Asia China Mainland Taiwan India Israel. Korea (South) Malaysia. Philippines Thailand Other Asia	1.1 9.2 4.2 .4 16.2 3.1 3.3 2.1 4.7	1.8 9.4 4.4 .5 19.1 4.4 4.1 4.9 4.5	2.6 10.4 3.8 .5 21.9 5.5 5.4 4.8	2.5 10.3 4.3 .5 21.5 6.0 5.8 5.7 4.1	2.7 10.5 4.9 .6 14.6 6.5 6.0 6.8 4.3	3.6 10.6 5.3 8 16.3 6.4 7.0 7.3 4.7	4.3 9.7 4.9 1.0 16.2 5.6 5.7 6.2 4.5	3.2 9.0 4.9 .7 15.6 5.1 5.7 5.4 4.3	4.2 11.7 5.0 .7 16.2 4.5 5.0 5.5 4.2	3.9 11.3 4.9 .9 14.5 4.7 5.4 4.9 3.7	2.8 12.1 5.3 .9 12.9 5.0 4.7 5.3 3.1
48 49 50 51	Africa Egypt Morocco Zaire Other Africa <sup>3</sup>	.3 .6 .0 .8	.4 .7 .0 .9	.6 .7 .0 1.0	.7 .7 .1 .9	.9 .6 .0	1.1 .7 .0 .9	.9 .7 .0 .9	.9 .6 .0 .8	1.0 .6 .0 1.1	1.5 .6 .0 .8	1.7 .5 .0 1.1
52 53 54	Gastern Europe.  Russia <sup>4</sup> Other	2.7 .8 1.9	4.2 1.0 3.2	5.3 1.8 3.5	6.9 3.7 3.2	8.9 3.5 5.4	7.1 4.2 2.9	9.8 5.1 4.7	9.1 5.1 4.0	12.0 7.5 4.6	10.9 6.8 4.1	6.0 2.8 3.2
56 57 58 59 60 61 62 63 64	Offshore banking centers.  Bahamas. Bermuda. Cayman Islands and other British West Indies Netherlands Antilles Panama* Lebanon Hong Kong, China. Singapore Other* Miscellaneous and unallocated?	72.9 10.2 8.4 21.4 1.6 1.3 .1 20.0 10.1 .1 66.9	99.2 11.0 6.3 32.4 10.3 1.4 .1 25.0 13.1 .1 57.6	105.2 14.2 4.0 32.0 11.7 1.7 .1 26.0 15.5 .1	134.7 20.3 4.5 37.2 26.1 2.0 .1 27.9 16.7 .1 59.6	131.3 20.9 6.7 32.8 19.9 2.0 .1 30.8 17.9 .1 59.6	129.6 16.1 7.9 35.1 15.8 2.6 .1 35.2 16.7 .3 57.6	138.9 19.8 9.8 45.7 21.7 2.1 .1 27.2 12.7 .1 80.8	145.7 29.9 9.8 43.4 14.6 3.1 .1 32.2 12.7 .1 99.1	129.3 29.2 9.0 24.9 14.0 3.2 .1 33.8 15.0 .1	123.5 22.7 9.3 33.9 10.5 3.3 .1 30.0 13.5 .2 95.6	118.6 <sup>r</sup> 28.9 <sup>r</sup> 10.4 27.4 6.0 4.0 .2 30.6 11.1 .2 104.5 <sup>r</sup>

<sup>1.</sup> The banking offices covered by these data include U.S. offices and foreign branches of U.S. banks, including U.S. banks that are subsidiaries of foreign banks. Offices not covered include U.S. agencies and branches of foreign banks. Beginning March 1994, the data include large foreign subsidiaries of U.S. banks. The data also include other types of U.S. depository institutions as well as some types of brokers and dealers. To eliminate duplication, the data are adjusted to exclude the claims on foreign branches held by a U.S. office or another foreign branch of the same banking institution.

These data are on a gross claims basis and do not necessarily reflect the ultimate country risk or exposure of U.S. banks. More complete data on the country risk exposure of U.S. banks are available in the quarterly Country Exposure Lending Survey published by the Federal Financial Institutions Examination Council.

Organization of Petroleum Exporting Countries, shown individually; other members of OPEC (Algeria, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, and United Arab Emirates); and Bahrain and Oman (not formally members of OPEC).
 Excludes Liberia. Beginning March 1994 includes Namibia.
 As of December 1992, excludes other republics of the former Soviet Union.
 Includes Canal Zone.

Hictories Canal Zone.
 Foreign branch claims only.
 Includes New Zealand, Liberia, and international and regional organizations.

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#### 3.22 LIABILITIES TO UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States

					1997			1998	
Type of liability, and area or country	1994	1995	1996'	June	Sept.	Dec.	Mar.	June	Sept.
1 Total	54,309	46,448	61,782	56,445 <sup>r</sup>	55,891	60,037 <sup>r</sup>	58,040	51,370°	49,215
2 Payable in dollars	38,298	33,903	39,542	38,651	39,746	41,956 <sup>r</sup>	42,258	39,963 <sup>r</sup>	38,346
	16,011	12,545	22,240	17,794 <sup>r</sup>	16,145	18,081 <sup>r</sup>	15,782	11,407 <sup>r</sup>	10,869
By type 4 Financial liabilities 5 Payable in dollars 6 Payable in foreign currencies	32,954	24,241	33,049	28,207 <sup>t</sup>	26,461	29,532 <sup>t</sup>	28,050	22,322	19,331
	18,818	12,903	11,913	11,442	11,487	13,043 <sup>r</sup>	13,568	11,988	9,812
	14,136	11,338	21,136	16,765 <sup>t</sup>	14,974	16,489 <sup>t</sup>	14,482	10,334	9,519
7 Commercial liabilities 8 Trade payables 9 Advance receipts and other liabilities	21,355	22,207	28,733	28,238	29,430	30,505	29,990	29,048 <sup>r</sup>	29,884
	10,005	11,013	12,720	11,040	10,885	10,904	10,107	9,537 <sup>r</sup>	10,276
	11,350	11,194	16.013	17,198	18,545	19,601	19,883	19,511	19,608
10 Payable in dollars	19,480	21,000	27,629	27,209	28,259	28,913	28,690	27,975 <sup>1</sup>	28,534
	1,875	1,207	1,104	1,029	1,171	1,592	1,300	1,073 <sup>1</sup>	1,350
By area or country Financial liabilities 12 Europe 13 Belgium and Luxembourg 14 France 15 Germany 16 Netherlands 17 Switzerland 18 United Kingdom	21,703	15,622	23,179	18,474 <sup>t</sup>	18,019	19,657 <sup>r</sup>	20,307	15,468	12,905
	495	369	632	238	89	186	127	75	150
	1,727	999	1,091	1,280	1,334	1,684	1,795	1,699	1,457
	1,961	1,974	1,834	1,765	1,730	2,018	2,578	2,441	2,167
	552	466	556	466	507	494	472	484	417
	688	895	699	591	645	776	345	189	179
	15,543	10,138	17,161	12,912 <sup>r</sup>	12,165	12,737 <sup>r</sup>	13,145	8,765	6,610
19 Canada	629	632	1.401	1.616	651	2,392	1,045	539	389
20 Latin America and Caribbean 21 Bahamas 22 Bermuda 23 Brazil 24 British West Indies 25 Mexico 26 Venezuela	2,034 101 80 207 998 0 5	1,783 59 147 57 866 12 2	1,668 236 50 78 1,030 17	1,285 124 55 97 775 15	1,067 10 64 52 669 76	1,386 141 229 143 604 26	965 17 86 91 517 21	1,320 6 49 76 845 51	1,351 1 73 154 834 23
27 Asia	8,403	5,988	6,423	6,248	6,239	5,394	5,024	4,315	4,005
	7,314	5,436	5,869	5,668	5,725	5,085	4,767	3,869	3,754
	35	27	25	39	23	32	23	0	0
30 Africa	135	150	38	29	33	60	33	29	31
	123	122	0	0	0	0	0	0	0
32 All other <sup>3</sup>	50	66	340	555	452	643	676	651	650
Commercial liabilities	6,773 241 728 604 722 327 2,444	7,700 331 481 767 500 413 3,568	9,767 479 680 1,002 766 624 4,303	8,683 736 708 845 288 429 3,818	9,343 703 782 945 452 400 3,829	10,228 666 764 1,274 439 375 4,086	9,951 565 840 1,068 443 407 4,041	9,924 <sup>r</sup> 557 612 <sup>r</sup> 1,219 <sup>r</sup> 485 <sup>r</sup> 3,743 <sup>r</sup>	10,947 623 740 1,408 440 507 4,286
40 Canada	1,037	1,040	1,090	1,136	1,150	1,175	1,347	1.206	1,504
41         Latin America and Caribbean           42         Bahamas           43         Bermuda           44         Brazil           45         British West Indies           46         Mexico           47         Venezuela	1,857	1,740	2,574	2,500	2,224	2,176	2,051	2.285 <sup>r</sup>	1,840
	19	1	63	33	38	16	27	14	48
	345	205	297	397	180	203	174	209	168
	161	98	196	225	233	220	249	246	256
	23	56	14	26	23	12	5	27	5
	574	416	665	594	562	565	520	557	511
	276	221	328	304	322	261	219	196	230
48 Asia	10,741	10,421	13,422	13,875	14,628	14,966	14,672	13,611 <sup>r</sup>	13,538
	4,555	3,315	4,614	4,430	4,553	4,500	4,372	3,995 <sup>r</sup>	3,779
	1,576	1,912	2,168	2,420	2,984	3,111	3,138	3,194	3,582
51 Africa	428	619	1,040	941	929	874	833	921	810
	256	254	532	423	504	408	376	354	372
53 Other <sup>1</sup>	519	687	840	1,103	1,156	1,086	1,136	1,101	1,245

<sup>1.</sup> Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).

Comprises Algeria, Gabon, Libya, and Nigeria
 Includes nonmonetary international and regional organizations.

#### 3.23 CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States

					1997			1998	
Type of claim, and area or country	1994	1995	1996 <sup>t</sup>	June	Sept.	Dec.	Mar.	June	Sept.
1 Total	57,888	52,509	65,897	68,264 <sup>r</sup>	70,506°	68,128 <sup>r</sup>	71,004	63,265 <sup>r</sup>	68,039 <sup>r</sup>
2 Payable in dollars	53,805 4,083	48,711 3,798	59,156 6,741	62,080 <sup>t</sup> 6,184	64,144 6,362 <sup>r</sup>	62,173 5,955 <sup>r</sup>	65,359 5,645	57,664 <sup>r</sup> 5,601 <sup>r</sup>	62,097 <sup>r</sup> 5,942 <sup>r</sup>
By type 4 Financial claims Deposits 6 Payable in dollars 7 Payable in foreign currencies 8 Other financial claims 9 Payable in dollars 10 Payable in foreign currencies	33,897 18,507 18,026 481 15,390 14,306 1,084	27,398 15,133 14,654 479 12,265 10,976 1,289	37,523 21,624 20.852 772 15,899 12,374 3,525	40,715 <sup>r</sup> 24,106 <sup>r</sup> 22,615 <sup>r</sup> 1,491 16,609 <sup>t</sup> 13,352 <sup>t</sup> 3,257	41.805 <sup>r</sup> 23,951 <sup>r</sup> 22,392 <sup>r</sup> 1,559 17,854 <sup>r</sup> 14,795 <sup>r</sup> 3,059 <sup>r</sup>	36,959 <sup>r</sup> 22,909 <sup>r</sup> 21,060 <sup>r</sup> 1,849 14,050 <sup>r</sup> 11,806 <sup>r</sup> 2,244 <sup>r</sup>	40,301 20,863 19,155 1,708 19,438 16,981 2,457	32,355' 14,762 13,084 1,678 17,593' 14,918' 2,675	37,262 15,406 13,374 2,032 21,856 19,867 1,989
11 Commercial clams 12 Trade receivables 13 Advance payments and other clams	23,991 21,158 2,833	25,111 22,998 2,113	28,374 25,751 2,623	27,549 24,858 2,691	28,701 25,110 3,591	31,169 27,536 3,633	30,703 26,888 3,815	30,910 <sup>r</sup> 26,827 <sup>r</sup> 4,083	30,777' 26,393' 4,384
14 Payable in dollars 15 Payable in foreign currencies	21,473 2,518	23,081 2,030	25,930 2,444	26,113 1,436	26,957 1,744	29,307 1,862	29,223 1,480	29,662 <sup>r</sup> 1,248 <sup>r</sup>	28,856 <sup>r</sup> 1,921 <sup>r</sup>
By area or country Financial claims 16 Europe 17 Belgium and Luxembourg 18 France 19 Germany 20 Netherlands 21 Switzerland 22 United Kingdom	7,936 86 800 540 429 523 4,649	7,609 193 803 436 517 498 4,303	11.085 185 694 276 493 474 7,922	12,904 203 680 281 519 447 9,814	15,608 <sup>r</sup> 360 1,112 352 764 448 11,000 <sup>r</sup>	14,999 <sup>r</sup> 406 1,015 427 677 434 10,337 <sup>r</sup>	14,187 378 902 393 911 401 9,289	14,105 <sup>r</sup> 518 810 <sup>r</sup> 290 975 403 9,639	14,473 496 1,140 359 867 409 9,849
23 Canada	3,581	2,851	3,442	6,420 <sup>r</sup>	4,279	3,313	4,688	3,020	4,090
24     Latin America and Caribbean       25     Bahamas       26     Bermuda       27     Brazil       28     British West Indies       29     Mexico       30     Venezuela	19,536 2,424 27 520 15,228 723 35	14,500 1,965 81 830 10,393 554 32	20,032 1,553 140 1,468 15,536 457 31	18,725 2,064 188 1,617 13,553 497 21	19,176 2,442 190 1,501 12,957 508 15	15,543 2,308 <sup>r</sup> 108 1,313 10,462 <sup>r</sup> 537 36	18,207 1,316 66 1,408 13,551 967 47	11,967 1,306 48 1,394 7,349 1,089 57	15,758 2,105 63 710 10,960 1,122 50
31       Asia         32       Japan         33       Middle Eastern oil-exporting countries <sup>1</sup>	1,871 953 141	1,579 871 3	2,221 1,035 22	1,934 766 20	2,015 999 15	2,133 823 11	2,174 791 9	2,376 886 12	2,121 928 13
34 Africa	373 0	276 5	174 14	179 15	174 16	319 15	325 16	155 15	157 16
36 All other <sup>3</sup>	600	583	569	553	553	652	720	732	663
Commercial claims   37	9,540 213 1,881 1,027 311 557 2,556	9,824 231 1,830 1,070 452 520 2,656	10,443 226 1,644 1,337 562 642 2,946	9,603 327 1,377 1,229 613 389 2,836	10,486 331 1,642 1,395 573 381 2,904	12,120 328 1,796 1,614 597 554 3,660	12,854 232 1,939 1,670 534 476 4,828	12,945 <sup>r</sup> 216 <sup>r</sup> 1,955 <sup>r</sup> 1,757 <sup>r</sup> 492 <sup>r</sup> 418 <sup>r</sup> 4,664 <sup>r</sup>	13,092 <sup>r</sup> 219 <sup>r</sup> 2,098 <sup>r</sup> 1,502 <sup>r</sup> 463 <sup>t</sup> 546 <sup>r</sup> 4,681 <sup>r</sup>
44 Canada	1.988	1,951	2,165	2,464	2,649	2,660	2,882	2,779	2,291 <sup>r</sup>
45     Latin America and Caribbean       46     Bahamas       47     Bermuda       48     Brazil       49     British West Indies       50     Mexico       51     Venezuela	4,117 9 234 612 83 1,243 348	4,364 30 272 898 79 993 285	5,276 35 275 1,303 190 1,128 357	5,241 29 197 1,136 98 1,140 451	5,028 22 128 1,101 98 1,219 418	5,750 27 244 1,162 109 1,392 576	5.481 13 238 1,128 88 1,302 441	6,082 <sup>r</sup> 12 359 <sup>r</sup> 1,183 110 1,462 585	5,773 <sup>r</sup> 39 173 <sup>r</sup> 1,062 91 1,356 566
52 Asia	6,982 2,655 708	7,312 1,870 974	8,376 2,003 971	8,460 2,079 1,014	8,576 2,048 987	8,713 1,976 1,107	7,638 1,713 987	7,367 <sup>r</sup> 1,757 <sup>r</sup> 1,127	7,190 <sup>r</sup> 1,789 <sup>r</sup> 967
55 Africa	454 67	654 87	746 166	618 81	764 207	680 119	613 122	657 116	740 128
57 Other <sup>3</sup>	910	1,006	1,368	1,163	1,198	1,246	1.235	1,080	1,691

 $<sup>1. \ \</sup> Comprises \ Bahrain, \ Iran, \ fraq. \ Kuwait, \ Oman, \ Qatar, \ Saudi \ Arabia, \ and \ United \ Arab \ Emirates (Trucial States).$ 

Comprises Algeria, Gabon, Libya, and Nigeria.
 Includes nonmonetary international and regional organizations.

#### 3.24 FOREIGN TRANSACTIONS IN SECURITIES

Millions of dollars

			1998				1998			
Transaction, and area or country	1997	1998	Jan. – Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
					U.S. corpora	ite securities				
STOCKS										
1 Foreign purchases	1,097,958	1,596,136	1,596,136	146,147	152,833	141,566	137,418	145,588	126,494	138,900
2 Foreign sales	1,028,361	1,542,003	1,542,003	142,591	150,308	139,722	147,891	142,831	118,996	134,256
3 Net purchases, or sales (-)	69,597	54,133	54,133	3,556	2,525	1,844	-10,473	2,757	7,498	4,644
4 Foreign countries	69,754	54,513	54,513	3,581	2,739	1,843	-10,430	2,754	7,515	4,642
5 Europe         6         France           6 France         7         Germany           8 Netherlands         9         Switzerland           10 United Kingdom         11         Canada           12 Latin America and Caribbean         13         Middle East 1           14 Other Asia         15         Japan           15 Africa         1         1	62,688 6,641 9,059 3,831 7,848 22,478 -1,406 5,203 383 2,072 4,787 472	72,338 6,099 10,609 8,326 6,269 24,336 -4,764 781 -1,082 -12,554 -1,407 624	72,338 6,099 10,609 8,326 6,269 24,336 -4,764 781 -1,082 -12,554 -1,407 624	7,227 1,734 1,020 830 1,490 695 -1,600 1,798 286 -3,949 -540 204	6,983 199 1,503 1,265 1,092 1,154 -443 -614 -134 -2,905 -306 -14	5,459 988 1,326 163 -277 1,740 -276 610 -157 -4,112 214 159	2,182 85 1,281 876 -307 700 -195 -11,766 148 -678 519 -98	-249 360 68 1,009 -1,974 632 -507 2,058 -177 1,823 597 -217	4,386 50 372 1,816 -420 1,902 -198 3,691 -334 -8 822 41	2,450 -614 -189 332 -314 3,154 -977 3,088 -219 155 141
17 Other countries	342	-830	-830	-385	-134	160	-23	23	-63	129
18 Nonmonetary international and regional organizations	-157	-380	-380	-25	-214	1	-43	3	-17	2
Bonds <sup>2</sup>										
19 Foreign purchases	610,116 475,958	905,268 727.855	905,268 727,855	74.891 53,464	74,951 64,461	67,529 58,678	100,186 92,663	108,678° 105,437°	81,941 <sup>r</sup> 60,480 <sup>r</sup>	58,882 41,130
21 Net purchases, or sales (-)	134,158	177,413	177,413	21,427	10,490	8,851	7,523	3,241 <sup>r</sup>	21,461 <sup>r</sup>	17,752
22 Foreign countries	133,595	177,756	177,756	21,328	10,567	8,813	7,473	3,230 <sup>r</sup>	22,431 <sup>r</sup>	17,674
23 Europe 24 France 25 Germany 26 Netherlands 27 Switzerland 28 United Kingdom 29 Canada 30 Latin America and Caribbean 31 Middle East 32 Other Asia 33 Japan 34 Africa 35 Other countries	71,631 3,300 2,742 3,576 187 54,134 6,264 34,733 2,155 16,996 9,357 1,005 811	127,943 3,390 4,381 3,490 4,856 97,694 6,077 24,727 4,994 12,679 8,381 190 1,146	127,943 3,390 4,381 3,490 4,856 97,694 6,077 24,727 4,994 12,679 8,381 190 1,146	12,630 667 203 369 404 9,283 607 6,346 162 1,253 527 101 229	8,650 451 806 -859 234 5,665 640 1,730 171 -597 -511 -48 21	5,813 233 139 32 100 3,924 439 1,592 -188 1,709 -10 -17 -535	12,323 184 268 275 1,003 9,760 443 - 2,927 - 58 - 1,847 - 713 - 61 - 400	12,062' 701 -135 704 -50 10,182' 292 -11,135 2 1,185 1,624 55 769	16,717 <sup>r</sup> 235 435 435 64 251 13,777 <sup>r</sup> 558 2,293 835 1,904 <sup>r</sup> 1,194 24	9,110 -170 217 996 -36 6,874 184 2,686 2,472 3,152 2,238 16 54
36 Nonmonetary international and regional organizations	563	-343	-343	99	-77	38	50	11	-970	78
					Foreign	securities	-			•
37 Stocks, net purchases, or sales (-) 38 Foreign purchases 39 Foreign sales 40 Bonds, net purchases, or sales (-) 41 Foreign purchases 42 Foreign sales	-40.942 756,015 796,957 -48,171 1.451,704 1.499,875	8,009 940,506 932,497 -18,695 1,335,274 1,353,969	8,009 940,506 932,497 -18,695 1,335,274 1,353,969	2,502 88,610 86,108 -12,413 151,482 163,895	-3,537 82,247 85,784 3,076 118,922 115,846	5,557 74,376 68,819 1,049 139,393 138,344	6,107 89,496 83,389 3,384 152,881 149,497	8,046 90,407 82,361 15,980 102,202 86,222	-2,644 <sup>r</sup> 70,245 <sup>r</sup> 72,889 <sup>r</sup> -918 <sup>r</sup> 55,573 56,491 <sup>r</sup>	262 69,563 69,301 -4,422 56,805 61,227
43 Net purchases, or sales (-), of stocks and bonds	-89,113	-10,686	-10,686	-9,911	-461	6,606	9,491	24,026	-3,562 <sup>r</sup>	-4,160
44 Foreign countries	-88,921	-10,357	-10,357	-9,885	390	6,623	9,492	24,119	-3,556 <sup>r</sup>	-4,000
45 Europe 46 Canada 47 Latin America and Caribbean 48 Asia 49 Japan	-29,874 -3,085 -25,258 -25,123 -10,001 -3,293	10,469 -1,163 -12,423 -3,326 -1,663 -1,411	10,469 -1,163 -12,423 -3,326 -1,663 -1,411	-7,273 161 -2,553 516 -38 -32	2,281 2,201 -4,838 -59 -316 -269	1,202 2,667 -1,196 4,227 1,741 -122	6,007 -1,118 1,214 3,550 2,239 -163	10,792 946 4,585 6,699 6,134 4	2,243 <sup>r</sup> 562 -3,907 -2,064 <sup>r</sup> -2,390 -56	2,485 -4,828 251 -1,489 -1,882
50 Africa 51 Other countries	-2,288	-2,503	-2.503	704	294	-155	2	1,093	-334	-424

<sup>1.</sup> Comprises oil-exporting countries as follows: Bahrain, Iran, Iraq, Kuwait. Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).

Includes state and local government securities and securities of U.S. government agencies and corporations. Also includes issues of new debt securities sold abroad by U.S. corporations organized to finance direct investments abroad.

#### 3.25 MARKETABLE U.S. TREASURY BONDS AND NOTES Foreign Transactions<sup>1</sup>

Millions of dollars; net purchases, or sales (+) during period

			1998				1098			
Area or country	1997	1997   1998		June	July	Aug.	Sept	Oct	Nov.	Dec. <sup>p</sup>
Total estimated	184,171	46,677	46,677	1,506	-4,454	-15,795	-5,270	-2,193 <sup>r</sup>	25,456 <sup>r</sup>	10,549
2 Foreign countries	183,688	44,208	44,208	1.810	-4,507	-15,795	-5,261	-2.855'	25,556 <sup>t</sup>	9,426
3 Europe 4 Belgium and Luxembourg 5 Germany 6 Netherlands 7 Sweden 8 Swizerland 9 United Kingdom 10 Other Europe and former U.S.S.R.	144,921 3,427 22,471 1,746 -465 6,028 98,253 13,461 -811	21,586 3,805 148 -5,533 1,486 5,240 12,120 4,320 572	21,586 3,805 148 -5,533 1,486 5,240 12,120 4,320 572	229 -513 -1,381 543 335 -973 -1,543 3,761 83	-6,465 215 82 -675 239 -827 -5,921 422 -619	-2,823 667 -1,799 -3,081 -152 -680 8,000 -5,778 -2,088	-2,771 113 894 -579 -330 363 2,217 -5,449 -663	~9,869 <sup>1</sup> -606 1,171 1,543 193 2,811 -13,168 -1,813 <sup>1</sup> -1,188	5,475 <sup>1</sup> 510 307 -1,156 586 531 3,207 1,490 <sup>1</sup> 3,694	8.077 2.148 -556 898 581 175 3.074 1.757 614
12	-2,554 655 -549 -2,660 39,567 20,360 1,524 1,041	-3.735 59 9,450 -13,244 27,383 13,048 751 -2,349	-3.735 59 9.450 -13,244 27,383 13,048 751 -2,349	2.912 818 3,722 -1.628 -1.152 -2.442 145 -241	685 308 2,185 -1,808 1,326 774 22 588	-5,940 -1,308 3,914 -8,546 3,856 299 62 -1,150	-1.233 6 2,982 -4.221 207 128 81 468	491 -35 -1.288 832 7,756 1,233 87 850	1.961 327 -5.411 7,045 13,632 <sup>1</sup> 7,311 145 649	- 3,817 108 - 165 - 3,760 4,347 3,750 16 189
20 Nonmonetary international and regional organizations 21 International	483 621 170	2,469 1,502 199	2,469 1,502 199	-304 -318 0	53 135 192	0 10 8	- 9 - 288 - 5	562 645 0	100 19 6	1.123 1.084 2
MFMO 23 Foreign countries 24 Official institutions 25 Other foreign	183,688 43,959 139,729	44,208 4,123 40,085	44,208 4,123 40,085	1,810 -3,486 5,296	-4,507 469 -4,976	-15,795 -16,920 1,125	-5,261 -10,304 5,043	-2,855 <sup>1</sup> 9,001 -11,856 <sup>7</sup>	25,556 <sup>1</sup> 11,843 13,713 <sup>1</sup>	9,426 5,274 4,152
Oil-exporting countries 26 Middle East 27 Africa	7,636 -12	-16,554 2	-16,554	-1.388 0	-2.578 0	-4.160 1	5.837 0	- 276 ()	233 0	-2.442 0

<sup>1.</sup> Official and private transactions in marketable U.S. Treasury securities having an original maturity of more than one year. Data are based on monthly transactions reports. Excludes nonmarketable US. Freasury bonds and notes held by official institutions of foreign countries.

Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia and United Arab Emirates (Trucial States).
 Comprises Algeria, Gabon, Libya, and Nigeria.

#### FOREIGN EXCHANGE RATES AND INDEXES OF THE FOREIGN EXCHANGE VALUE OF THE U.S. DOLLAR<sup>1</sup>

Currency units per dollar except as noted

	1005		10011		19	98		19	999
Item	1996	1997	1998	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
					Exchange Rates	;			
COUNTRY/CURRENCY UNIT					1				
1 Australia/dollar <sup>2</sup> 2 Austria/schilling 3 Belgium/franc 4 Brazil/real 5 Canada/dollar 6 China, P.R./yuan 7 Denmark/krone 8 European Monetary Union/euro <sup>3</sup> 9 Finland/markka 10 France/franc 11 Germany/deutsche mark 12 Greece/drachma	78.28 10.589 30.97 1.0051 1.3638 8.3389 5.8003 n.a. 4.5948 5.1158 1.5049 240.82	74.37 12.206 35.81 1.0779 1.3849 8.3193 6.6092 n.a. 5.1956 5.8393 1.7348 273.28	62.91 12.379 36.31 1.1605 1.4836 8.3008 6.7030 n.a. 5.3473 5.8995 1.7597 295.70	58.89 11.955 35.05 1.1805 1.5218 8.3055 6.4717 n.a. 5.1734 5.6969 1.6990 292.47	61.79 11.524 33.81 1.1889 1.5452 8.2778 6.2294 n.a. 4.9845 5.4925 1.6381 281.64	63.49 11.840 34.71 1.1932 1.5404 8.2778 6.3960 n.a. 5.1163 5.6422 1.6827 282.64	61.82 11.746 34.44 1.2052 1.5433 8.2780 6.3531 n.a. 5.0769 5.5981 1.6698 280.43	63.20 n.a. n.a. 1.5120 1.5194 8.2789 6.4194 1.1591 n.a. n.a.	63.99 n.a. n.a. 1.9261 1.4977 8.2755 6.6379 1.1203 n.a. n.a. 287.41
13 Hong Kong/dollar 14 India/rupee 15 Ireland/pound <sup>2</sup> 16 Italy/lira 17 Japan/yen 18 Malaysta/ringgit 19 Mexico/peso 20 Netherlands/guilder 21 New Zealand/dollar <sup>2</sup> 22 Norway/krone 23 Portugal/escudo	7.7345 35.51 159.95 1,542.76 108.78 2.5154 7.600 1.6863 68.77 6.4594 154.28	7.7431 36.36 151.63 1,703.81 121.06 2.8173 7.918 1.9525 66.25 7.0857 175.44	7.7467 41.36 142.48 1,736.85 130.99 3.9254 9.152 1.9837 53.61 7.5521 180.25	7.7480 42.58 147.24 1,678.92 134.48 3.8050 10.219 1.9169 50.44 7.5564 174.19	7.7483 42.39 152.21 1,620.96 121.05 3.8000 10.159 1.8479 52.13 7.4294 168.01	7.7432 42.43 147.77 1,664.91 120.29 3.8000 9,969 1.8969 53.40 7.4562 172.52	7.7471 42.59 148.76 1,653.23 117.07 3.8014 9.907 1.8816 52.23 7.6050 171.19	7.7486 42.55 n.a. n.a. 113.29 3.8000 10.128 n.a. 53.88 7.4532 n.a.	7,7490 42.53 n.a. n.a. 116.67 3.8000 10.006 n.a. 54.35 7.7240 n.a.
24 Singapore/dollar 25 South Africa/rand 26 South Korea/won 27 Spain/peseta. 28 Sri Lanka/rupee 29 Sweden/krona 30 Switzerland/franc 31 Taiwan/dollar 32 Thailand/baht. 33 United Kingdom/pound² 34 Venezuela/bolivar	1.4100 4.3011 805.00 126.68 55.289 6.7082 1.2361 27.468 25.359 156.07 417.19	1.4857 4.6072 950.77 146.53 59.026 7.6446 1.4514 28.775 31.072 163.76 488.39	1.6722 5.5417 1,400.40 149.41 65.006 7.9522 1.4506 33.547 41.262 165.73 548.39	1.7226 6.0966 1.375.54 144.33 66.260 7.8816 1.4000 34.646 40.402 168.23 583.85	1.6378 5.7991 1,344.14 139.23 66.345 7.8395 1.3373 33.121 38.118 169.44 570.68	1.6378 5.6511 1.294.01 143.05 67.578 8.0140 1.3852 32.603 36.527 166.11 569.66	1.6515 5.9030 1,213.22 142.08 68.117 8.0716 1.3604 32.337 36.276 167.08 565.89	1.6791 5.9931 1.175.11 n.a. 68.630 7.8188 1.3856 32.300 36.622 164.98 569.80	1,7004 6,1146 1,188.84 n.a. 69,070 7,9532 1,4272 32,564 37,137 162,76 577,32
				,	Indexes <sup>3</sup>		•	<u></u>	
Nominal									
35 G-10 (March 1973=100) <sup>4</sup> 36 Broad (January 1997=100) <sup>5</sup> 37 Major currencies (March 1973=100) <sup>6</sup> 38 Other important trading partners (January 1997=100) <sup>7</sup>	87.34 97.43 85.23 98.25	96.38 104.47 91.85	98.85 116.25 96.52 125.70	97.17 118.85 96.99	93.69 115.46 93.46 129.02	95.46 115.34 94.23	94.61 114.56 93.40 126.80	n.a. 114.68 <sup>r</sup> 92.37 <sup>r</sup> 128.98 <sup>r</sup>	n.a. 116.37 93.76 130.83
REAL									
39 Broad (March 1973=100) <sup>5</sup>	85.95 85.83 92.52	90.56 93.20 93.62	98.43 98.33 105.83	100.11 99.04 109.02	97.10 95.47 106.62	96.67 96.21 104.45	95.89 95.44 103.59	95.86 94.61 104.71	96.89 96.09 105.18

<sup>1.</sup> Averages of certified noon buying rates in New York for cable transfers. Data in this table also appear in the Board's G.5 (405) monthly statistical release. For ordering address, see inside front cover.

## Euro equals

13.7003	Austrian schillings	1936.27	Italian tire
40.3399	Belgian francs	40.3399	Luxembourg francs
5.94573	Finnish markkas	2.20371	Netherlands guilders
6.55957	French francs	200.482	Portuguese escudos
1.95583	German marks	166.386	Spanish pesetas
787564	Irish pounds		

<sup>4.</sup> For more information on the indexes of the foreign exchange value of the dollar, see Federal Reserve Bulletin, vol. 84 (October 1998), pp. 811–18.

- 5. Weighted average of the foreign exchange value of the U.S. dollar against the currencies of the other G-10 countries. The weight for each of the ten countries is the 1972–76 average world trade of that countrie divided by the average world trade of all ten countries combined. Series revised as of August 1978 (see Federal Reserve Bulletin, vol. 64 (August 1978).
- Series revised as of August 1978 (see Federal Reserve Bulletin, vol. 64 (August 1978), p. 700).

  6. Weighted average of the foreign exchange value of the U.S. dollar against the currencies of a broad group of U.S. trading partners. The weight for each currency is computed as an average of U.S. bilateral import shares from and export shares to the issuing country and of a measure of the importance to U.S. exporters of that country's trade in third country markets.

  7. Weighted average of the foreign exchange value of the U.S. dollar against a subset of currencies in the index sum to one.

  8. Weighted average of the foreign exchange value of the U.S. dollar against a subset of
- 8. Weighted average of the foreign exchange value of the U.S. dollar against a subset of broad index currencies that do not circulate widely outside the country of issue. The weight for each currency is its broad index weight scaled so that the weights of the subset of currencies in the index sum to one.

Yalue in U.S. cents.
 As of January 1999, the euro is reported in place of the individual euro-area currencies.
 These currency rates can be derived from the euro rate by using the fixed conversion rates (in currencies per euro) as shown below:

# Guide to Statistical Releases and Special Tables

STATISTICAL RELEASES—List Published Semiannually, with Latest Bulletin Reference		
Anticipated schedule of release dates for periodic releases	Issue December 1998	Page A72
SPECIAL TABLES—Data Published Irregularly, with Latest Bulletin Reference		
Title and Date	Issue	Page
Assets and liabilities of commercial banks		
December 31, 1997	May 1998	A64
March 31, 1998	August 1998	A64
June 30, 1998	November 1998	A64
September 30, 1998	February 1999	A64
Terms of lending at commercial banks		
February 1998	May 1998	A66
May 1998	August 1998	A67
August 1998	November 1998	A66
November 1998	February 1999	A66
November 1770	1 cordary 1777	7100
Assets and liabilities of U.S. branches and agencies of foreign banks		
December 31, 1997	May 1998	A70
March 31, 1998	August 1998	A72
June 30, 1998	November 1998	A72
September 30, 1998	February 1999	A72
September 30, 1990	reducing 1999	AIZ
Pro forma balance sheet and income statements for priced service operations		
March 31, 1998	July 1998	A64
June 30, 1998	October 1998	A64
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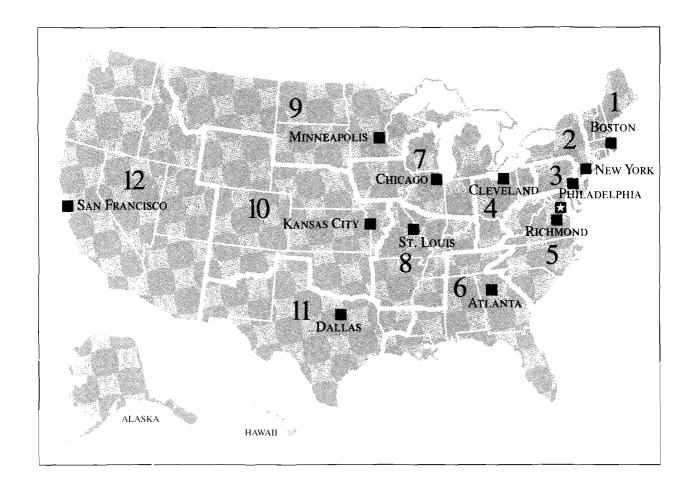
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#### LEGEND

#### Both pages

- Federal Reserve Bank city
- Board of Governors of the Federal Reserve System. Washington, D.C.

#### Note

The Federal Reserve officially identifies Districts by number and Reserve Bank city (shown on both pages) and by letter (shown on the facing page).

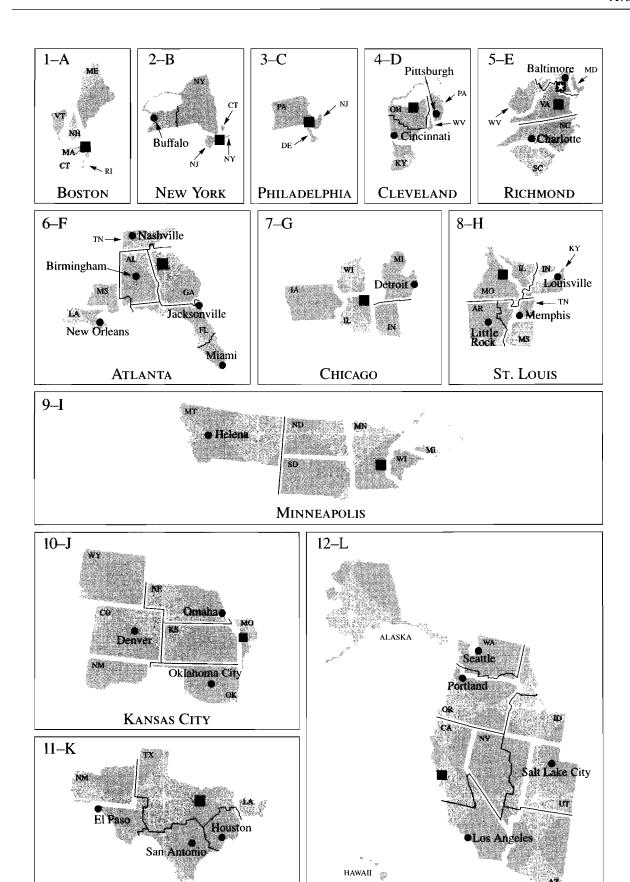
In the 12th District, the Seattle Branch serves Alaska, and the San Francisco Bank serves Hawaii.

The System serves commonwealths and territories as follows: the New York Bank serves the Commonwealth

#### Facing page

- Federal Reserve Branch city
- Branch boundary

of Puerto Rico and the U.S. Virgin Islands; the San Francisco Bank serves American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands. The Board of Governors revised the branch boundaries of the System most recently in February 1996.



SAN FRANCISCO

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