Volume 79 ☐ Number 6 ☐ June 1993



# FEDERAL RESERVE BULLETIN

BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM, WASHINGTON, D.C.

#### PUBLICATIONS COMMITTEE

Joseph R. Coyne, Chairman □ S. David Frost □ Griffith L. Garwood □ Donald L. Koh	hn
☐ J. Virgil Mattingly, Jr. ☐ Michael J. Prell ☐ Richard Spillenkothen ☐ Edwin M. Trun	nar

The Federal Reserve Bulletin is issued monthly under the direction of the staff publications committee. This committee is responsible for opinions expressed except in official statements and signed articles. It is assisted by the Economic Editing Section headed by S. Ellen Dykes, the Graphics Center under the direction of Peter G. Thomas, and Publications Services supervised by Linda C. Kyles.

### Table of Contents

#### 569 RESERVE REQUIREMENTS: HISTORY, CURRENT PRACTICE, AND POTENTIAL REFORM

Laws requiring banks and other depository institutions to hold a certain fraction of their deposits in reserve, in safe, secure assets, have been a part of our nation's banking history for many years. Over time, however, the rationale for these requirements has changed as the financial system has evolved and as knowledge about how reserve requirements affect this system has grown. This article reviews the basic concepts and current rules regarding reserve requirements; provides a history of reserve requirements in the United States, including recent experience with cuts in these requirements; and discusses proposals for reforming the system of reserve requirements in light of this recent experience and that of other countries that have reduced their requirements.

#### 590 INDUSTRIAL PRODUCTION, CAPACITY, AND CAPACITY UTILIZATION SINCE 1987

The Federal Reserve recently revised its index of industrial production and the related measures of capacity and utilization. Compared with the previous index, the revised index shows that manufacturing grew more slowly from 1987 until the onset of recession late in 1990 and then recovered more rapidly, albeit unevenly. The index of industrial capacity was also revised downward. Capacity utilization, the ratio of output to capacity, was about the same for most of 1987-91 as it was before the revision. However, the more rapid recovery of revised production from the trough and slower growth of revised capacity led to an upward revision of utilization in late 1992 and early 1993.

#### 606 INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION FOR MARCH 1993

Industrial production was unchanged in March, after having shown strong gains since October; at 112.0 percent of its 1987 average, total industrial production was 4.1 percent above its year-ago level. Total industrial capacity utilization declined 0.2 percentage point, to 79.9 percent.

#### 609 STATEMENT TO THE CONGRESS

John P. LaWare, member, Board of Governors, discusses some of the factors influencing recent national and regional trends in bank lending as well as changes in the composition of banks' balance sheets and says that the steps that banks have taken in recent years to rebuild their balance sheets have been considerable and may well augur an increase in the availability of bank credit, before the Subcommittee on Economic Growth and Credit Formation of the House Committee on Banking, Finance and Urban Affairs, April 2, 1993.

#### 614 ANNOUNCEMENTS

Publication of documents on market risk and bank capital by the Basle Committee on Banking Supervision.

Issuance of final rule amending risk-based capital guidelines for state member banks and bank holding companies.

Revisions to the staff commentary to Regulation Z.

Revisions to the List of Marginable OTC Stocks and to the List of Foreign Margin Stocks.

Release of quarterly table of factors to adjust interest income of section 20 companies.

#### 617 LEGAL DEVELOPMENTS

Various bank holding company, bank service corporation, and bank merger orders; and pending cases.

- A1 FINANCIAL AND BUSINESS STATISTICS

  These tables reflect data available as of
  April 28, 1993.
- A3 GUIDE TO TABULAR PRESENTATION
- A4 Domestic Financial Statistics
- A44 Domestic Nonfinancial Statistics
- **A53** International Statistics
- A69 GUIDE TO STATISTICAL RELEASES AND SPECIAL TABLES

- A70 INDEX TO STATISTICAL TABLES
- A72 BOARD OF GOVERNORS AND STAFF
- A74 FEDERAL OPEN MARKET COMMITTEE
  AND STAFF; ADVISORY COUNCILS
- A76 FEDERAL RESERVE BOARD PUBLICATIONS
- A78 SCHEDULE OF RELEASE DATES FOR PERIODIC RELEASES
- A80 MAPS OF THE FEDERAL RESERVE SYSTEM
- A82 FEDERAL RESERVE BANKS, BRANCHES, AND OFFICES

## Reserve Requirements: History, Current Practice, and Potential Reform

Joshua N. Feinman, of the Board's Division of Monetary Affairs, prepared this article. Jana Deschler and Christoph Hinkelmann provided research assistance.

Laws requiring banks and other depository institutions to hold a certain fraction of their deposits in reserve, in very safe, secure assets, have been a part of our nation's banking history for many years. The rationale for these requirements has changed over time, however, as the country's financial system has evolved and as knowledge about how reserve requirements affect this system has grown. Before the establishment of the Federal Reserve System, reserve requirements were thought to help ensure the liquidity of bank notes and deposits, particularly during times of financial strains. As bank runs and financial panics continued periodically to plague the banking system despite the presence of reserve requirements, it became apparent that these requirements really had limited usefulness as a guarantor of liquidity. Since the creation of the Federal Reserve System as a lender of last resort, capable of meeting the liquidity needs of the entire banking system, the notion of and need for reserve requirements as a source of liquidity has all but vanished. Instead, reserve requirements have evolved into a supplemental tool of monetary policy, a tool that reinforces the effects of open market operations and discount policy on overall monetary and credit conditions and thereby helps the Federal Reserve to achieve its objectives.

While useful as an auxiliary policy tool, reserve requirements also have important implications for the efficacy of the Federal Reserve's primary tool, open market operations. In the early 1980s, for example, when open market operations were geared toward fostering fairly precise, short-run control of narrowly defined money (M1), reserve requirements were designed to help facilitate this control by establishing a relatively stable, contem-

poraneous link between reserves and M1 deposits. Although the Federal Reserve is no longer pursuing this type of short-run control of money, reserve requirements still play an important role in the conduct of open market operations, which are now aimed at influencing general monetary and credit conditions by varying the cost and availability of reserves to the banking system. By helping to ensure a stable, predictable *demand* for reserves, reserve requirements better enable the Federal Reserve to achieve desired reserve market conditions by controlling the *supply* of reserves; in so doing, they help prevent potentially disruptive fluctuations in the money market.

Reserve requirements are not costless, however. On the contrary, requiring depositories to hold a certain fraction of their deposits in reserve, either as cash in their vaults or as non-interest-bearing balances at the Federal Reserve, imposes a cost on the private sector equal to the amount of forgone interest on these reserves—or at least on the fraction of these reserves that banks hold only because of legal requirements and not because of the needs of their customers. The higher the level of reserve requirements, the greater the costs imposed on the private sector; at the same time, however, higher reserve requirements may smooth the implementation of monetary policy and damp volatility in the reserves market.

The Federal Reserve could resolve this policy dilemma by paying interest on required reserves, or at least on the part of these reserves that banks would not hold were it not for legal requirements. Paying an explicit, market-based rate of return on these funds would effectively eliminate much of the costs of reserve requirements without jeopardizing the stable demand for reserves that is needed for open market operations and for the smooth functioning of the reserves market.

The Federal Reserve Board has long supported legislation that would explicitly allow interest to be

paid on the balances that depositories are required to hold in reserve—though not on the cash they hold in their vaults, which is assumed to be held primarily to meet customer needs—but to no avail.1 Opposition has typically centered on the adverse implications such a move would have for Treasury revenue. If the Federal Reserve paid interest on required balances, its net earnings would decline, and because it turns the vast majority of its earnings over to the Treasury, the Treasury's revenues would decline as well. On the other hand, eliminating the costs of reserve requirements would remove one government-mandated impediment to deposittaking and lending through the banking system. Recently, the costs of depository intermediation have risen sharply because of higher deposit insurance premiums, stiffer capital requirements, more stringent standards for interbank lending, and other regulatory burdens. Much of these increased costs have likely been passed on to the customers of depositories in the forms of higher loan rates and lower deposit rates; paying interest on reserves would be one way of countering some of these government-mandated increases in costs.

## BASIC CONCEPTS AND CURRENT RULES OF RESERVE REQUIREMENTS

Under current regulations, all depository institutions—commercial banks, savings banks, thrift institutions, and credit unions—are required

to maintain reserves against transaction deposits, which include demand deposits, negotiable order of withdrawal accounts, and other highly liquid funds.<sup>2</sup> Reserves against these deposits can take the form either of currency on hand (vault cash) or balances at the Federal Reserve. The Federal Reserve may vary the percentage of transaction deposits that must be kept in reserve, but only within fairly narrow limits prescribed by law; requirements may also be imposed on certain types of nontransaction accounts, though again only within specified limits.<sup>3</sup> At present, the required reserve ratio on nontransaction accounts is zero, while the requirement on transaction deposits is 10 percent, which is near the legal minimum.

Most depositories are able to satisfy their entire reserve requirement with vault cash, which they hold primarily to meet the liquidity needs of their customers and would likely hold even in the absence of reserve requirements. For these institutions, reserve requirements are essentially costless. About 3,000 depositories, however, have vault cash holdings that are insufficient to satisfy their entire reserve requirement. To meet their requirements, these institutions must also maintain deposits, called required reserve balances, at the Federal Reserve.

#### Reserve Requirements as a Tax

Some uncertainty exists as to whether the Federal Reserve Act permits interest to be paid on reserves. In fact, the Federal Reserve has never actually paid

<sup>1.</sup> See, for example, "Statement by Arthur F. Burns, Chairman, Board of Governors of the Federal Reserve System, before the Subcommittee on Financial Institutions of the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, June 20, 1977," Federal Reserve Bulletin, vol. 63 (July 1977), pp. 636-43; "Statement by J. Charles Partee, member, Board of Governors, before the Subcommittee on Financial Institutions Supervision, Regulation and Insurance of the Committee on Banking, Finance and Urban Affairs, U.S. House of Representative, October 27, 1983," Federal Reserve Bulletin, vol. 69 (November 1983), pp. 840-52; and "Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Subcommittee on Domestic Monetary Policy of the Committee on Banking, Finance and Urban Affairs, U.S. House of Representatives, February 19, 1992," Government Printing Office, Serial No. 102-98 (1992) pp. 42-43. The Federal Reserve has also requested the lifting of the prohibition on the payment of interest on demand deposits. See, in particular, the statement by J. Charles Partee, October 27, 1983.

<sup>2.</sup> For a formal definition of depository institutions and transaction accounts, see Federal Reserve Regulation D (Reserve Requirements of Depository Institutions), sections 204.1 and 204.2.

<sup>3.</sup> At present, required reserve ratios may be set between 8 percent and 14 percent on transaction accounts in excess of \$46.8 million, and between 0 and 9 percent on nonpersonal savings deposits, nonpersonal time deposits with original maturities of eighteen months or longer, and net Eurocurrency liabilities. Transaction deposits of less than \$46.8 million, in the so-called low reserve tranche, are reservable at 3 percent, while the first \$3.8 million of transaction deposits at each depository are exempt from reserve requirements altogether. The Federal Reserve cannot alter the cutoffs for the low reserve tranche or the exemption, which are adjusted each year according to a formula provided by law.

interest on required reserve balances.4 Requiring depositories to hold idle, non-interest-bearing balances is essentially like taxing these institutions in an amount equal to the interest they could have earned on these balances in the absence of reserve requirements. This forgone interest, or reserve "tax," directly affects only the depository system and its customers, and not other parts of the financial system. Hence, it creates an artificial incentive for depositors and borrowers to bypass the depository system, and in so doing it may redirect credit flows in ways that impair the efficiency of resource allocation. In particular, by distorting the relative price of transaction accounts at depositories, the reserve tax may induce a smaller level of transaction services than what would be ideal for the functioning of the economy. The reserve tax also creates an incentive for depositories to expend resources trying to minimize required reserves by fashioning new financial products aimed solely at delivering transactions services without creating reservable liabilities.

As is true for most taxes, determining precisely who bears the burden of the reserve tax is difficult. That determination depends in a complicated way on the degree of competitive pressure in the markets for deposits and loans and the associated sensitivities of borrowers, lenders, and depositories to changes in prices and interest rates. One thing is certain, however: Depositories and their shareholders do not bear all of the costs but rather pass at least some of them on to their customers in the forms of lower deposit rates and higher loan rates. In compensating-balance arrangements, for example, in which customers maintain non-interestbearing deposits as compensation for bank services, the customers typically "pay" the reserve tax by holding additional balances. Similarly, to the extent that some borrowers, such as small and

medium-sized businesses, have few alternatives outside of the depository system, these borrowers may ultimately bear some of the burden of the reserve tax in the form of higher costs of credit.

#### Current Estimates of the Reserve Tax

Table 1 presents estimates of the current dollar magnitude of the reserve tax. In the fourth quarter of 1992, the required reserve balances of all depositories totaled \$23½ billion. Because many of the financial transactions in our economy flow through these reserve accounts, even in the absence of reserve requirements depositories would likely hold some balances at the Federal Reserve as a buffer against the normal uncertainties surrounding payment flows. Thus, \$23½ billion should be considered an upper bound on the amount of balances truly idled by reserve requirements in the fourth quarter of 1992. Even if banks had invested all of these funds, moreover, the gains would probably not have been large because short-term interest rates are currently at relatively low levels. Using a federal funds rate of 3 percent as a proxy for the potential earnings rate on idle balances, the lost interest income due to reserve requirements totals only about \$700 million, at an annual rate, based on \$23½ billion of balances. About \$600 million of this would have accrued to commercial banks and their customers; even in the unlikely event that banks were able to retain all of this increased revenue, it would have boosted their pretax return on assets for 1992 by only about 2 basis points compared with an actual pretax rate of return on assets of a little more than 130 basis points.

On an after-tax basis, the earnings would be even smaller because depositories and their customers would have to pay extra taxes on this additional income. Regardless of the precise figure, however,

Burden of reserve requirements, 1992:Q4
Billions of dollars

Type of institution	Required reserve balances	Forgone interest
All depositories	23.5	.7
Commercial banks	21.1 2.4	.6 .1

<sup>1.</sup> Forgone interest is annualized, based on a federal funds rate of 3 percent.

<sup>4.</sup> The Federal Reserve Board has, however, at least in the past, taken the position that it has the discretion to pay interest on reserves, though individual members of the Congress opposed such payments at the time of the enactment of the Federal Reserve Act in 1913 and again as recently as 1978. For details on a Federal Reserve proposal to pay interest on required reserve balances in 1978, see Federal Reserve Bulletin, vol. 64 (July 1978), pp. 605–10. For congressional reaction to this proposal, see, "Monetary Control and the Membership Problem," Hearings before the Committee on Banking, Finance and Urban Affairs on H.R. 13476, H.R. 12706, and H.R. 14072, 95 Cong. 2 Sess. U.S. House of Representatives (GPO, 1978), p. 781.

if the Federal Reserve paid interest on all required reserve balances, the private sector would enjoy a net increase in after-tax income, whereas the Treasury would see its net revenues reduced. Of course, if interest rates were higher, the burden of reserve requirements and the private-sector cost savings and government revenue losses stemming from paying interest on required reserve balances would be commensurately larger than the amounts shown in table 1. The distortions to resource allocation would be more pronounced as well. Indeed, the burden of reserve requirements has, at times, been considerably larger than it is now, as a result of both higher interest rates and higher reserve requirements.

Because reserve requirements are a tax on the private sector that may distort the optimal allocation of resources in the financial sector, the question arises as to why these requirements were imposed in the first place. The next section traces the historical evolution of reserve requirements and their rationales to see how our current system developed. Subsequently, several options for reforming the current system to eliminate the reserve tax without jeopardizing the effective conduct of monetary policy are analyzed.

#### HISTORICAL REVIEW OF RESERVE REQUIREMENTS AND THEIR RATIONALES

Reserve requirements have played a part in our nation's financial system from the earliest days—long before the creation of a national currency or a central bank.

#### Early State Laws and Practices

The first commercial banks in this country were chartered by the states and were not required to keep reserves either against deposits, which were little used at the time, or against their own, more ubiquitous, bank notes. In the absence of a national currency, bank notes were commonly used as a medium of exchange, though high transaction costs of redeeming the notes and limited information about the underlying solvency of the issuer generally confined the use of any individual bank's notes to a small geographic area. To facilitate the more widespread use of their notes, banks in New York

and New England entered into voluntary redemption arrangements as early as 1820. Under these arrangements, one bank agreed to redeem another bank's notes at par, provided that the issuing bank maintained a sufficient deposit of specie (gold or its equivalent) on account with the redeeming bank as backing for the notes. In essence, these deposits represented the first required reserves. The primary purpose of these reserves was to increase the liquidity of bank notes by ensuring their convertibility into specie. Although in subsequent years some states began to require banks to maintain reserves against their notes, and a few even began to require reserves against deposits, most states still had no legal reserve requirements when the Civil War broke out in 1861.

#### The National Bank Era

Reserve requirements were first established at the national level in 1863 with the passage of the National Bank Act. This act provided banks an opportunity to organize under a national charter and created a network of institutions whose notes could circulate more easily throughout the country. In exchange for this charter, banks had to hold a 25 percent reserve against both notes and deposits—a much higher requirement than that faced by most state banks. Although banks in "redemption" cities—designated in the act as cities where notes were likely to accumulate for redemption—had to hold reserves entirely in the form of "lawful" money (specie or greenbacks), banks outside these cities could maintain 60 percent of their reserves in interest-bearing balances at banks in redemption cities.

Reserve requirements were seen as necessary for ensuring the liquidity of national bank notes and thereby reinforcing their acceptability as a medium of exchange throughout the country. Concentrating reserves in areas where demands for liquidity were likely to be most acute was thought to be the surest means of promoting the widespread use and acceptance of national bank notes. At the same time, allowing banks outside redemption cities to earn interest on a portion of their reserves made the burden of reserve requirements less onerous for banks that faced more limited demands for liquidity.

The federal government had a keen interest in seeing the use of national bank notes flourish because, in addition to reserve requirements, national bank notes were also required to be backed by holdings of government bonds, which were needed to finance the Civil War. To make the issuance of national bank notes less costly, reserve requirements against these notes were lowered for banks outside redemption cities from 25 percent to 15 percent in 1864, and banks in redemption cities outside New York City were allowed to meet half of their requirements with interest-bearing balances at a bank in New York. Still dissatisfied with the rate of growth of national bank notes, the Congress imposed a tax on state bank notes in 1865, effectively guaranteeing the primacy of national bank notes as a medium of exchange. Indeed, in subsequent years, these notes began to circulate widely throughout the country and were rarely redeemed. With their convertibility no longer in question, reserve requirements against national bank notes were lifted in 1873. Requirements remained in place on deposits, however, which were just emerging as an accepted means of payment. As time wore on, the role of deposits expanded, and they eventually supplanted bank notes as the preferred medium of exchange for many transactions, with their convertibility supposedly reinforced by reserve requirements.

A series of bank runs and financial panics in the late nineteenth and early twentieth centuries made it patently clear that reserve requirements could not really guarantee the convertibility of deposits for the entire banking system. In fact, reserve requirements were really no help at all in providing liquidity during a panic because a given dollar of reserves could not be used simultaneously to meet a customer's demand for cash and to satisfy reserve requirements. What was lacking from the national banking system or, for that matter, from any fractional reserve system—one with reserve requirements of less than 100 percent—was a mechanism for accommodating temporary variations in the public's demand for liquidity by adjusting the quantity of reserves available to the entire banking system. Absent such a mechanism, systemic panics and crises stemming from fluctuating liquidity needs were all too common. Though an individual bank might be able to meet a temporary surge in the demand for cash with little attendant adverse

effect on the economy, the banking system as a whole could not without selling securities or calling in loans, thereby squeezing credit supplies, driving up interest rates, and precipitating a general financial crisis.

#### Creation of the Federal Reserve System

The Federal Reserve Act of 1913 created a system of Reserve Banks that could act as lenders of last resort by accommodating the temporary liquidity needs of the banking system and thereby alleviating the periodic financial disruptions that plagued the national bank era. By discounting eligible assets of member banks, Federal Reserve Banks provided a ready, accessible source of liquidity that had been missing from the national banking system.

Although the creation of the Federal Reserve System seemingly eliminated any remaining liquidity rationale for reserve requirements, banks that were members of the System were still required to hold reserves, though requirements were lower than those previously in effect for most national banks. In the original Federal Reserve Act, banks had to hold in reserve different percentages of their demand deposits—deposits that could be withdrawn on demand—depending on whether they were classified as central reserve city banks (18 percent), reserve city banks (15 percent), or country banks (12 percent).5 In addition, all member banks faced a 5 percent requirement on time deposits.6 Member banks outside central reserve cities were not allowed, however, to meet part of their requirements with interest-bearing balances at a bank in a central reserve city. Starting in 1917, moreover, member banks could no longer use vault cash to satisfy reserve requirements: They had to

<sup>5.</sup> Originally, the rationale for these distinctions among cities was a carryover from the designation of redemption cities in the national bank era. In 1913, banks in New York, Chicago, and St. Louis were classified as central reserve city banks, and banks in about fifty other cities were designated as reserve city banks. In 1922, St. Louis was reclassified as a reserve city, and in 1962 the central reserve city designation was eliminated altogether. Over the years, the number of reserve cities changed somewhat as some cities were added and others deleted by the Federal Reserve Board.

<sup>6.</sup> For details on the history of changes in reserve requirements since the inception of the Federal Reserve, see the appendix.

meet their requirements entirely with non-interestbearing balances at a Federal Reserve Bank.

On net, therefore, the effective burden of reserve requirements in terms of forgone interest was somewhat higher for member banks than for nonmember banks, particularly for those outside central reserve cities. To help offset this increased burden, in 1917 reserve requirements on demand deposits were pared further, to 13 percent, 10 percent, and 7 percent respectively for the three types of member banks, and requirements on time deposits were reduced from 5 percent to 3 percent for all members. These reductions, coupled with the benefits of access to Federal Reserve credit at the discount window and free Federal Reserve services such as check clearing and currency distributionwere considered sufficient encouragement for banks to become members of the System, despite the higher reserve requirement burden that such membership often entailed. In later years, however, the burden of reserve requirements would become more acute, making membership less desirable for many institutions.

#### Reserve Requirements as a Means of Influencing Credit Conditions

In the 1920s and 1930s, the Federal Reserve gradually began to expand its original, reactive role as lender of last resort and guarantor of the liquidity of the banking system and adopted a more proactive posture in attempting to influence the nation's credit conditions. As the emphasis of monetary policy evolved, so too did the rationale for reserve requirements. In fact, by 1931, the Federal Reserve had officially abandoned the view that reserves were a necessary or useful source of liquidity for deposits, arguing instead that reserve requirements provided a means for influencing the expansion of bank credit.7 Specifically, the Federal Reserve believed that requiring banks to hold reserves against the additional deposits needed to fund each increment of new loans could help restrain an overly rapid expansion of credit.

In practice, however, reserve requirements were of little help in containing the rapid credit growth that occurred in the late 1920s. During this period, the primary tool used by the Federal Reserve to influence credit conditions was the discount rate. Because this rate was generally kept below market rates and only marginal administrative pressure was used to dissuade banks from availing themselves of the discount window, banks had an incentive to borrow the reserves they needed to finance their rapidly expanding assets from the Federal Reserve, and they responded vigorously to this incentive. Throughout much of the 1920s, discount window borrowings were more than half of total Federal Reserve assets. With the Federal Reserve effectively accommodating much of the increased credit expansion, reserve requirements placed no significant constraint on lending. In addition, the Federal Reserve had no authority to raise reserve requirements even if it had wanted to make them a more binding constraint on credit expansion.

During the Great Depression, as market interest rates plunged and loan demand all but dried up, reserve requirements were obviously not needed to curtail credit growth. In fact, through much of this period, banks held large quantities of reserves in excess of their reserve requirements, suggesting that reserve requirements were not in any way constraining credit expansion. The Federal Reserve was concerned that these large excess reserves could eventually be used to support an overly rapid buildup of deposits and loans that could ultimately prove inflationary. Therefore, it excercised its newly acquired powers under the Banking Act of 1935 and doubled the required reserve ratios on both demand and time deposits, thereby effectively absorbing much of extant excess reserves.8 By 1938, however, as evidence mounted that the nascent economic recovery was imperiled, the Federal Reserve moved to trim reserve requirements on both demand and time deposits, hoping to free up additional funds for lending.

<sup>7.</sup> See "Member Bank Reserves—Report of the Committee on Bank Reserves of the Federal Reserve System," in Board of Governors of the Federal Reserve System, 19th Annual Report, 1932 (Board of Governors, 1933), pp. 260–85.

<sup>8.</sup> The Thomas Amendment of 1933 first granted authority to the Federal Reserve Board to raise reserve requirements, subject to presidential approval, provided that a national emergency was declared. The Banking Act of 1935 eliminated the need for presidential approval or the declaration of an emergency, though it also precluded the Board from reducing requirements below the levels then in force or from more than doubling those requirements.

In the years surrounding World War II, monetary policy considerations became subordinate to financing the government debt. During this period, the Federal Reserve abandoned an active monetary policy role and chose as its highest priority to accommodate the government's financing needs by buying Treasury securities at low interest rates.

## Postwar Issues: Membership Attrition and Monetary Control

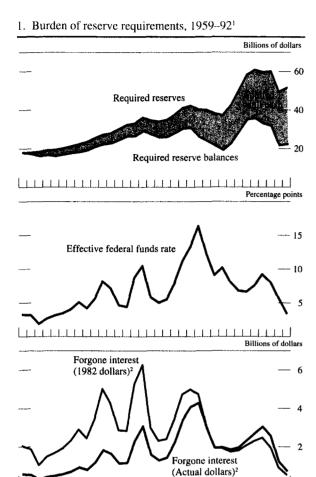
In 1951, the Federal Reserve resumed an active, independent monetary policy. In subsequent years, reserve requirements were adjusted numerous times, usually to reinforce or supplement the effects of open market operations and discount policy on overall monetary and credit conditions. In the short run, however, reserve requirements placed little constraint on the expansion of deposits because the Federal Reserve largely accommodated any such expansion through open market operations. Over time, though, if the Federal Reserve sought to reduce the availability of money and credit by providing reserves less generously through open market operations, it could and often did augment its actions by raising reserve requirements.

The use of reserve requirements as a supplemental tool of monetary policy was particularly prevalent in the 1960s and 1970s, as the Federal Reserve sought to influence the expansion of money and credit in part by manipulating bank funding costs. As financial innovation spawned new sources of bank funding, the Federal Reserve began to adapt reserve requirements to these new financial products and often changed requirements on the specific bank liabilities that were most frequently used as marginal sources of funding. As banks began to rely more heavily on the issuance of largedenomination time deposits (CDs) to fund their asset acquisitions in the 1960s, for example, the Federal Reserve began periodically to alter reserve requirements on these instruments, thereby affecting their cost of issuance and, thus, the supply of credit through banks. It sometimes supplemented its actions by placing a marginal reserve requirement on large time deposits—that is, an additional requirement applied only to each new increment of these deposits.

Reserve requirements were also imposed on other, newly emerging liabilities that were the functional equivalents of deposits. For example, as banks started to rely more on Eurodollar borrowings as a funding source in the late 1960s, partly in an effort to circumvent existing reserve requirements, the Federal Reserve imposed marginal requirements on these liabilities and adjusted these requirements periodically throughout the 1970s. The imposition of reserve requirements on these and other managed liabilities was especially useful in the late 1970s, as the Federal Reserve aggressively sought to curb the expansion of money and credit and thereby ease price pressures.

Throughout this period, reserve requirements also had important implications for membership in the Federal Reserve System. Since membership was optional for state-chartered banks, some of these institutions began to leave the System in the 1950s to take advantage of the lower reserve requirements imposed by most state regulatory authorities, some of whom also allowed banks to meet part of their requirements with interest-earning assets. The Federal Reserve feared that if enough banks left the System, changes in the cost and availability of reserves to the remaining member banks might have a diminished effect on overall monetary and credit conditions, thus undermining the efficacy of monetary policy.

Change in vault cash accounting. To reduce the burden of reserve requirements and stem the erosion of membership in the System, legislation was enacted allowing banks to resume using vault cash to satisfy their reserve requirements. This change, which was phased in beginning December 1959, provided the greatest relief to small banks, which tended to hold relatively large quantities of vault cash to meet their customers' liquidity needs. Permitting this vault cash to be used to meet reserve requirements reduced the amount of non-interestbearing balances these banks had to hold at the Federal Reserve. Because smaller banks were most apt to leave the System, it was hoped that this reform would help stanch membership attrition. Although larger banks tended to benefit less from this rule change, they were less likely to leave the System because they often reaped the greatest benefits from free Federal Reserve services, par-



1965 1. Data are annual averages

1970

1960

1980

1985

1990

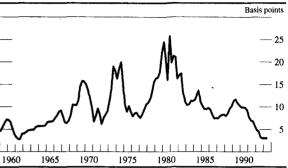
1975

ticularly those related to the clearing of financial transactions.

The change in vault cash accounting did in fact reduce the level of required reserve balances somewhat in the early 1960s (top panel of chart 1). This decline, coupled with a drop in short-term interest rates (middle panel of chart 1), helped lighten the burden of reserve requirements in terms of the interest forgone on required reserve balances (bottom panel of chart 1).

Proposals to change the structure of reserve requirements. This relief proved temporary, however. As interest rates climbed in the late 1960s and into the 1970s, the burden of reserve requirements

#### 2. Marginal reserve tax on transaction deposits, 1959-93:O11



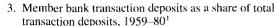
1. The marginal reserve tax is the quarterly average effective federal funds rate times the highest reserve requirement on transaction deposits during the ouarter

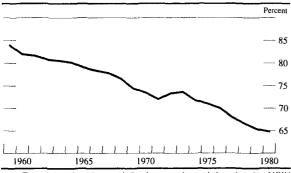
became more onerous; with higher interest rates, banks were being forced to forgo more earnings by holding non-interest-bearing required reserve balances. Indeed, the marginal tax rate on transaction (demand) deposits—the reserve tax on an additional dollar of these deposits, as measured by the reserve requirement times the rate of interest forgone—rose through much of this period as well (chart 2). As a result, more banks began to leave the Federal Reserve System, taking with them an ever-increasing share of the deposits in the banking system. By the early 1970s, for example, the share of transaction deposits held by member banks had fallen below 75 percent from nearly 85 percent in the late 1950s (chart 3). In response, the Federal Reserve began to argue for additional legislation aimed at stemming the corrosive effects of the decline in membership on monetary control. Either all depository institutions should be subject to reserve requirements established by the Federal Reserve, thereby rendering the membership issue irrelevant, the System argued, or interest should be paid on required reserve balances, thereby removing banks' primary motive for leaving the System.9

Opposition to both proposals proved strong, however, with nonmember banks leading the crusade against universal reserve requirements and

<sup>2.</sup> Forgone interest is defined as required reserve balances multiplied by the federal funds rate

<sup>9.</sup> Each Annual Report of the Board of Governors of the Federal Reserve System between the years 1964 and 1979 argued for the adoption of legislation aimed at reforming the structure of reserve requirements to combat the problem of membership attrition.





1. Transaction deposits are defined as net demand deposits plus NOW accounts. Data are expressed as annual averages.

with both the legislative and executive branches of the federal government opposed to interest on reserves out of concern about Treasury revenues. In fact, a 1963 presidential commission cautioned against any significant cuts in reserve requirements to avoid a sharp drop in Treasury revenue. <sup>10</sup> Most academics, by contrast, usually supported retaining and even increasing reserve requirements to tighten the link between reserves and money, while paying interest on reserves to eliminate the distortional effects of the reserve tax. <sup>11</sup>

Lagged reserve requirements. Thwarted in its attempts to promote substantive change in the structure of reserve requirements, the Federal Reserve took several smaller, unilateral steps aimed at stemming membership attrition. In 1968, a system of lagged reserve requirements (LRR) was implemented in which a bank's required reserves were computed based on its deposit levels from two weeks earlier. Previously, the computation period for deposits had been essentially contemporaneous with the maintenance period for reserves. By switching to LRR, the Federal Reserve hoped to make it less difficult and costly for banks to calculate their reserve requirements and to manage their

reserve positions. One problem with LRR was that it weakened the direct, contemporaneous link between reserves and money, thus making it harder, in principle, to manipulate reserves to control money, at least in the short run. This problem was not considered a serious one, however, because Federal Reserve procedures at that time were not directed at tight, short-run control of money through a reserves operating target.

Graduated reserve requirements. In the late 1960s, the Federal Reserve also began to move away from a system of reserve requirements based on geographic distinctions, as embodied in the reserve city bank and country bank designations. By 1972, the old system was eliminated altogether, and a new system with a progressive, graduated reserve requirement schedule was implemented. Under the new system, reserve requirements increased with the level of each bank's deposits, independent of its location. Although the specifics were somewhat complicated (see the appendix for details), the upshot of the change was to reduce reserve requirements for smaller banks, which were still most likely to leave the System. At the same time, however, the move to a system with many reserve requirements based on different deposit levels further weakened the link between the aggregate level of reserves and the total amount of deposits in the banking system. Again, however, because the Federal Reserve was not trying to maintain control of deposits through a reservestargeting procedure, this effect was not a major concern.

Continued decline of membership. Despite the efforts of the Federal Reserve, the decline of membership in the System continued unabated, with the proportion of transaction deposits at member banks falling below 65 percent of total transaction deposits by the late 1970s (chart 3), in part because rising interest rates were enlarging the reserve tax (charts 1 and 2). In response, the Federal Reserve began to argue more vociferously for changes in the structure of reserve requirements to prevent membership attrition from further undermining the efficacy of monetary policy. 12 In 1978, it even went

<sup>10.</sup> Report of the Committee on Financial Institutions to the President of the United States, Walter W. Heller, Chairman (GPO, 1963).

<sup>11.</sup> See, for example, Milton Friedman, A Program for Monetary Stability (Fordham University Press, 1959), pp. 65-76; Thomas Mayer, "Interest Payments on Required Reserve Balances," Journal of Finance, vol. 21 (March 1966), pp. 116-18; and George S. Tolley, "Providing for Growth of the Money Supply," Journal of Political Economy, vol. 65 (December 1957), pp. 477-85.

<sup>12.</sup> See "Statement by G. William Miller, Chairman, Board of Governors of the Federal Reserve System, before the Committee

so far as to propose a unilateral plan to pay interest on reserves, which elicited strenuous congressional opposition. <sup>13</sup>

The relative decline in the deposit base at member banks became particularly worrisome after October 1979, when the Federal Reserve adopted a reserves-based operating procedure designed to maintain close, short-run control of M1. The success of this procedure depended in part on how tight the link was between reserves at member banks and the level of M1 deposits in the entire banking system—a link that was being weakened by the continued decline in membership as well as by some of the steps the Federal Reserve had taken to try to reverse this decline, including switching to LRR and instituting graduated reserve requirements.

#### The Monetary Control Act and M1 Targeting

After years of debate, the Congress finally adopted legislation to reform reserve requirement rules in order to end the problem of membership attrition and facilitate control of M1. The Monetary Control Act of 1980 (MCA) mandated universal reserve requirements to be set by the Federal Reserve for all depository institutions, regardless of their membership status. The act also vastly simplified the graduated reserve requirement schedule, further tightening the link between reserves and money. Although the key focus was on transaction (M1) deposits, all of which were made subject to reserve requirements, certain types of nontransaction deposits also became subject to requirements, which effectively broadened the reserve base and required more depositories to hold reserve balances. In this way, the Federal Reserve's ability to influence aggregate deposit levels by manipulating the quantity of reserves was improved. The MCA

also granted the Federal Reserve authority to impose a supplemental reserve requirement of up to 4 percent on transaction accounts. Finally, as a result of MCA, the number of depositories required to report their deposits to the Federal Reserve increased markedly, thus improving the accuracy and timeliness of data necessary for monetary control.

To ease the burden of reserve requirements, the MCA initially set the basic reserve requirement on transaction deposits at 12 percent—below the 16½ percent maximum that had been in effect for member banks—and prohibited the Federal Reserve from raising this requirement above 14 percent. It also set a 3 percent reserve requirement on the first \$25 million of deposits at each institution—the so-called low reserve tranche—as a special concession to smaller depositories.

In 1982, the Garn-St Germain Act went even further by exempting from reserve requirements altogether the first \$2 million of deposits. The law mandated annual adjustments to the cutoffs for the exemption and the low reserve tranche based on aggregate growth in reservable liabilities and transaction deposits respectively. To help smooth the transition for nonmember banks and thrift institutions, a multiyear phase-in period was put in place, and the Federal Reserve was also prohibited from putting reserve requirements on personal time and savings deposits, which were particularly important sources of funds for these institutions. Finally, all institutions with reservable deposits, not just member banks, now had access to the discount window as well as to Federal Reserve services, including check clearing, funds transfers, and the like, though these services were no longer to be provided free of charge.

The MCA did not specifically prohibit or authorize the payment of interest on required reserves, although it mandated the payment of interest on supplemental reserves should the Federal Reserve ever impose them. The legislative history of the MCA indicates that the Congress was concerned about the possible adverse effects of the act on Treasury revenues, so much so that the MCA even prohibits the Federal Reserve from lowering the reserve requirement to less than 8 percent on transaction deposits. The legislative history also indicates that the Congress was concerned that payment of interest on reserves would give the Federal

on Banking, Finance and Urban Affairs, U.S. House of Representatives, July 27, 1978," *Federal Reserve Bulletin*, vol. 64 (August 1978), pp. 636–42; and "Statement by Paul A. Volcker, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, February 4, 1980," *Federal Reserve Bulletin*, vol. 66 (February 1980), pp. 643–48.

<sup>13.</sup> For details on the Federal Reserve's proposal, see *Federal Reserve Bulletin*, vol. 64 (July 1978), pp. 605–10. For congressional reaction, see "Monetary Control and the Membership Problem." *Hearings*.

Reserve, in its role as a provider of financial services, an unfair competitive advantage over depository institutions, which are prohibited from paying interest on demand deposits. Appreciative of this concern and aware of the distortions created by the prohibition of interest payments on demand deposits, the Federal Reserve advocated removal of this prohibition in conjunction with the payment of interest on reserves. <sup>14</sup> Neither proposal was adopted, however. Thus, the reserve tax on depositories and their customers remained.

In 1982, the Federal Reserve took another step to improve its short-run control of M1 by deciding to switch to a contemporaneous reserve requirement (CRR) scheme. By making the period in which banks are required to maintain their reserves against transaction deposits virtually contemporaneous with the period in which deposit levels are computed for the purpose of determining reserve requirements, this move tightened the real-time link between reserves and M1.15 In so doing, it remedied a weakness in the short-run monetary control mechanism of the existing, reserves-based operating procedure.

## Reserve Requirements since the Abandonment of M1 Targeting

Ironically, by the time CRR was instituted in 1984, the Federal Reserve had shifted its focus away from short-run control of M1 via a reserves-based operating procedure, preferring instead to influence monetary and credit conditions by adjusting the cost and availability of reserves to depositories. It also shifted its focus more toward M2, as this aggregate was seen as more closely linked to the ultimate objectives of monetary policy than M1, which had become overly sensitive to interest rates after the authorization of nationwide NOW accounts and the general deregulation of deposit rates. Thus, the basic structure of reserve requirements, which had been meticulously designed to

In fact, however, reserve requirements continued to play an important role in the conduct of monetary policy, in part by providing a stable, predictable demand for aggregate reserves. Absent reserve requirements, banks would still hold some balances at the Federal Reserve to meet their clearing needs. Given the size and volatility of the financial transactions that clear through these reserve accounts, depositories need to maintain a cushion of balances in these accounts to provide some protection against uncertain debits that can potentially leave their accounts overdrawn at the end of the day and subject to stiff penalties. 16 The exact amount of balances that banks wish to hold for clearing purposes may vary considerably from day to day, however, and cannot be forecast with much precision by the Federal Reserve. By making reserve requirements the binding constraint on banks' demand for reserves—that is, by keeping required reserve balances above the uncertain level needed for clearing purposes—the Federal Reserve can more accurately determine the banking system's demand for reserves. In this way, it can more readily achieve any desired degree of pressure on bank reserve positions and associated reserve market conditions simply by manipulating the maintenance-period-average supply of reserves.

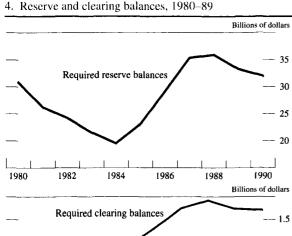
By requiring banks to hold an average amount of reserves over a two-week maintenance period rather than a specific amount on each day, current regulations allow considerable flexibility in daily reserve management. Banks can use this flexibility to arbitrage anticipated, intraperiod variations in the cost of reserves (the federal funds rate), by substituting reserves on one day of the period when they are expected to be less costly for reserves on another day when they are expected to be more costly. This sort of intraperiod arbitrage serves to reduce day-to-day fluctuations in the cost of reserves. The lower the level of required reserve balances, however, the less leeway a bank has for manipulating the intraperiod profile of its reserve

facilitate the control of M1 through a reservesoriented targeting procedure, had seemingly become an anachronism.

<sup>14.</sup> See statement by J. Charles Partee, October 27, 1983.

<sup>15.</sup> Actually, banks were required to hold an average amount of reserves over a two-week maintenance period ending every other Wednesday, based on average deposit levels in a two-week computation period that ends on a Monday two days before the end of the maintenance period.

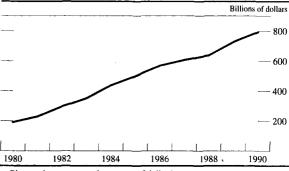
<sup>16.</sup> At present, the penalty rate on overnight overdrafts is the higher of 200 basis points above the federal funds rate on the day, or 10 percent. In addition, banks have to offset overdrafts later in the period to meet their reserve requirements.



position without jeopardizing its overnight overdraft protection; hence, the bank will be less able to arbitrage day-to-day variations in the federal funds rate.

Banks that find their required reserve balances insufficient to meet their clearing needs—that is, to provide them with adequate overdraft protection are able, under the provisions of MCA, to open clearing balances. Banks can contract with the Federal Reserve to hold an average amount of these balances in their reserve accounts over the twoweek reserve maintenance period. If they fail to hold the amount required under the contract, they are penalized, much as would be the case if they failed to hold sufficient balances to meet their reserve requirements. Unlike required reserve balances, however, which do not earn interest, banks receive earnings credits on the amount of clearing balances they are required to hold under their contractual agreement. They can, in turn, use these earnings credits to defray the costs of Federal Reserve priced services. Thus, from a bank's perspective, opening a clearing balance is a virtually costless way to boost the average balance it is required to hold in its reserve account over the

Volume of funds transactions clearing through reserve accounts, 1980–90



Observations are annual averages of daily data

maintenance period and hence to provide extra insurance against overdrafts and added flexibility to reserve management.

Not surprisingly, in the years immediately after passage of MCA, as required reserve balances fell as a result of the phased reductions in reserve requirements for member banks (top panel of chart 4), many of these institutions opened clearing balances to help replenish their diminished protection against overdrafts. Indeed, by 1986, the banking system as a whole had contracted to hold roughly \$1<sup>3</sup>/<sub>4</sub> billion of clearing balances (bottom panel of chart 4). To a lesser extent, other banks, particularly those using small amounts of priced services from the Federal Reserve and those new to managing reserve accounts, increased their holdings of excess reserves to help meet their clearing needs. These changes, coupled with a rebound in required reserve balances, provided banks with more of a cushion to handle a sharp increase in the volume of funds transactions clearing through their reserve accounts (chart 5).

#### RECENT CUTS IN RESERVE REQUIREMENTS

In the decade after passage of the MCA in 1980, the Federal Reserve left reserve requirements essentially unchanged. More recently, however, it has taken two steps to reduce these requirements. In December 1990, the required reserve ratio on nontransaction accounts—nonpersonal time and savings deposits and net Eurocurrency liabilities—was pared from 3 percent to zero, and in April

1992, the 12 percent requirement on transaction deposits was trimmed to 10 percent.

#### Rationale

These actions were motivated in part by developments in credit markets, where evidence had emerged suggesting that some lenders had adopted a more cautious approach to extending credit. This caution was exerting a restraining effect on the cost and availability of credit to some types of borrowers. By reducing depository funding costs and thus providing depositories with easier access to capital markets, the cuts in reserve requirements were designed to put banks in a better position to extend credit. In particular, the cut in the requirement on nonpersonal time deposits was aimed directly at spurring bank lending because these accounts are often used as a marginal funding source. Of course, it was recognized that some, if not all, of the benefits stemming from the reserve requirement cuts would likely be passed on, over time, to borrowers and lenders. 17

The cuts in reserve requirements were also motivated by the Federal Reserve's recognition that much of the early-1980s rationale for reserve requirements had evaporated with the abandonment of a reserves-oriented operating procedure geared to short-run control of M1. At the same time, it realized that reserve requirements still played a vital role in policy implementation. Indeed, it chose not to make even deeper cuts in requirements for fear that required balances would fall to levels insufficient to satisfy the normal clearing needs of the banking system.

## Effects of Reserve Requirement Cuts on the Size of the Reserve Tax

The elimination of the 3 percent reserve requirement on nontransaction accounts at the end of 1990 reduced the level of required reserve balances roughly \$11½ billion, or about one-third (table 2).

#### 2. Effect of recent cuts in reserve requirements

Effective date of cut	Reduction in required reserve balances (billions of dollars)	Federal funds rate (percent)	Reduction in interest forgone (millions of dollars)
December 1990	11½	7.0	800
April 1992	8½	4.0	350

Using the 7 percent federal funds rate that prevailed at the time as a proxy for the interest that could have been earned on these balances, the cut in reserve requirements translated into an increase of about \$800 million in the annual, pretax earnings of depositories and their customers.

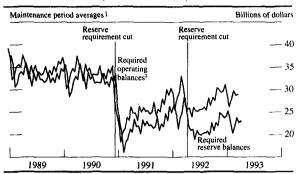
As a result of this cut in reserve requirements, about 2,500 depositories whose vault cash had formerly been insufficient to meet their reserve requirements were no longer bound to hold balances at the Federal Reserve. For these institutions, therefore, the reduction in the nontransaction requirement essentially eliminated the reserve tax. Trimming the required reserve ratio on transaction accounts in April 1992 relieved several hundred additional institutions from having to hold balances at the Federal Reserve. Overall, this second cut in reserve requirements reduced the required reserve balances of the entire banking system about \$8½ billion, resulting in annual pretax savings of roughly \$350 million for the private sector, given the 4 percent federal funds rate that prevailed at the time.

## Effects on Bank Reserve Management and Open Market Operations

In the immediate aftermath of the December 1990 cut in reserve requirements, the level of required operating balances—the sum of required reserve balances and the amount of clearing balances required to be held under contractual arrangements between depositories and the Federal Reserve—plunged (chart 6). By early February 1991, these balances reached a trough of about \$18½ billion—barely more than half their level in the period preceding the cut in requirements and nearly 40 percent below their seasonal low in early February 1990. Required operating balances typically reach a low point at this time of the year because

<sup>17.</sup> For details on the rationales for the recent cuts in reserve requirements, see *Federal Reserve Bulletin*, vol. 77 (February 1991), pp. 95–96; and *Federal Reserve Bulletin*, vol. 78 (April 1992), pp. 272–73.

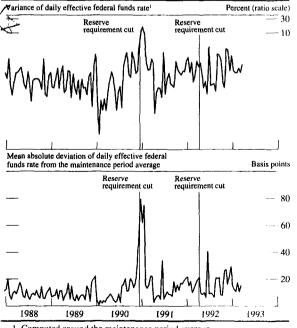
#### 6. Reserve balances, 1989-March 31, 1993



- 1. Reserve maintenance periods run for two weeks, so that there are twenty-six periods each year. In this chart and in charts 7, 8, and 9, there are twenty-six observations for each full year.
- Required operating balances are required reserve balances plus required clearing balances.

required reserves fall from their end-of-year peak. Also, owing to regulations stipulating that depositories apply their vault cash holdings from two maintenance periods earlier in meeting their current reserve requirements, the enlarged holdings of vault cash from year-end do not become available for use in meeting reserve requirements until late January and early February.

#### 7. Reserve market volatility, 1988–March 31, 1993



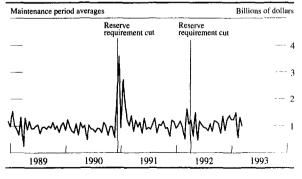
Computed around the maintenance period average.

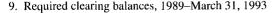
With required operating balances falling below the levels needed by many depositories for daily clearing purposes, the marginal dollar of reserve demand often stemmed from clearing needs on the day, rather than from a reserve requirement averaged over two weeks. As a result, banks had less scope for manipulating their reserve positions from one day to the next and, consequently, for arbitraging anticipated intraperiod variations in the cost of reserves. Not surprisingly, a variety of measures of federal funds rate volatility posted significant increases (chart 7). At the same time, many depositories held levels of excess reserves that greatly exceeded those seen in comparable periods of recent years in order to restock their depleted overdraft protection (chart 8). Because the extent to which banks wanted to boost their holdings of excess reserves was unknown to the Federal Reserve, it became more difficult to estimate the demand for reserves and, thus, to conduct open market operations.

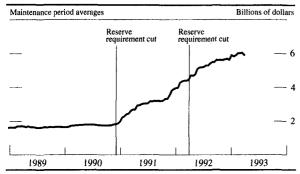
#### Transition to a More Orderly Reserve Market

Over the next few months, reserve market conditions returned to normal, with both excess reserves and the volatility of the funds rate falling back more or less to levels seen before the cut in reserve requirements. Although the reasons for the more stable reserve market climate varied, the rapid rebuilding of required operating balances was probably the most important. The higher level of balances provided banks with more adequate overdraft protection and greater flexibility in managing their reserve positions, thus reducing the need for excess

8. Excess reserves, 1989–March 31, 1993







balances and providing additional leeway for arbitrage in the funds market.

The pronounced rebound in required operating balances over the remainder of 1991 owed in part to a surge in required reserves stemming from rapid growth in transaction deposits. Furthermore, deliberate efforts by depositories to hold additional balances also played a role in the faster-than-usual increase in required operating balances. For example, banks used clearing balances much more after the cut in reserve requirements (chart 9). Evidence also suggests that some banks sought to economize on their vault cash holdings to boost their required reserve balances. In addition, depositories may have learned to manage their reserve accounts more efficiently, making use of improved, real-time information on the status of their reserve balances throughout the day to lower the cushion they needed to hold as insurance against uncertain debits that can result in overdrafts.

#### The Cut in the Transaction Requirement

With the reserve market functioning reasonably well again, the Federal Reserve believed that it could safely lower reserve requirements once more. As it turned out, the cut in the transaction requirement in April 1992 was relatively uneventful. Although required operating balances initially dropped sharply, the decline was not nearly as precipitous as that seen in early 1991; not only was this cut smaller in terms of its effect on required reserve balances, it also came at a time of the year when these balances tend to be high because of the buildup of transaction deposits in anticipation of the April 15 tax date. Moreover, required operating

balances quickly made up all their lost ground, spurred by continued rapid growth in required reserves and another surge in the use of clearing balances. Indeed, these balances now total about \$6 billion, or more than three times their level before the first cut in reserve requirements; they now make up nearly 20 percent of required operating balances versus about 5 percent in late 1990.

The Federal Reserve also made several changes in reserve accounting rules to help banks better manage their accounts in a world of lower requirements and to aid the implementation of monetary policy. First, to smooth the seasonal pattern in required operating balances, the Federal Reserve reduced the lag on the application of vault cash for use in meeting reserve requirements from two maintenance periods to one, effective in the period beginning November 12, 1992. By more closely synchronizing the movements in required reserves and applied vault cash, this change was designed to temper seasonal declines in required operating balances, particularly the most severe decline, which occurs in late January and early February. To give depositories greater flexibility in managing their reserve positions from one period to the next, the Federal Reserve also doubled the carryover privilege, which enables banks to carry forward into the next maintenance period small reserve surpluses and deficiencies. 18

These changes, coupled with the rebound in required operating balances, helped prevent the cut in the transaction requirement from having adverse effects on the functioning of the reserve market or on the conduct of open market operations. In fact, most measures of the volatility of the federal funds rate are up only marginally relative to their levels before December 1990, and aggregate excess reserves are running only a shade higher than before the cuts in reserve requirements. Some evidence suggests, however, that banks do have a bit less flexibility in managing their reserve positions from day to day; in particular, some systematic patterns in the behavior of the federal funds rate within reserve maintenance periods have intensified, suggesting that banks may not have as much

<sup>18.</sup> Since September 1992, depositories have been able to carry forward one maintenance period the greater of 4 percent of required reserve plus clearing balances, or \$50,000; the carryover allowance had previously been the greater of 2 percent, or \$25,000.

scope to arbitrage in the funds market as they once did <sup>19</sup>

Concerned that additional declines in required operating balances would complicate reserve management and the conduct of open market operations, the Federal Reserve has not made further cuts in reserve requirements. Nevertheless, owing to the cuts it did make as well as to declines in short-term interest rates, the reserve tax has been falling sharply in recent years (chart 1). Consequently, the marginal tax rate on transaction deposits has dipped to its lowest level in thirty years (chart 2). Even so, this tax still represents a burden on the private sector, and one that could rise significantly if interest rates were to increase. Cognizant of the actual and prospective burden of the reserve tax, depositories continue to work to fashion financial products aimed largely at exploiting loopholes in reserve regulations.

## POTENTIAL REFORMS TO THE CURRENT SYSTEM

Several suggestions have been put forth over the years for reforming the system of reserve requirements. In this section, I review some of these proposals, drawing heavily on the lessons learned from the recent cuts in reserve requirements as well as from the experiences of other countries that have lowered reserve requirements in recent years.

#### Eliminate Reserve Requirements

Although this proposal would clearly eliminate the reserve tax, recent experience suggests that it would also engender a significant increase in volatility in the reserves market and seriously complicate the conduct of open market operations. Moreover, absent reserve requirements, the Federal Reserve would be unable to reinstitute an effective,

reserves-oriented targeting procedure to control money growth if it ever deemed this action appropriate.

#### Recent Trends in Other Countries

Several other countries have significantly reduced, and in some cases essentially eliminated, reserve requirements in recent years. In the United Kingdom and Switzerland, for example, reserve requirements no longer effectively constrain bank behavior. In these countries, most banks find that their required reserves fall short of their daily clearing needs, so that at the margin the latter essentially determine their demand for reserves. More recently, Canada has also begun to phase out reserve requirements, and by 1994, their requirements will be completely eliminated.

These countries have taken different steps, based on their own unique institutional structures, to facilitate bank reserve management and the conduct of open market operations in a world of nonbinding reserve requirements. The Bank of England (BOE), for example, has adopted a more flexible operating procedure, often intervening in the money markets several times a day to fine tune the cost and availability of reserves to meet everchanging clearing needs. In addition, banks in the United Kingdom are usually willing to borrow from the BOE late in the day to meet their clearing needs. Banks in the United States, by contrast, have become increasingly reluctant in recent years to avail themselves of Federal Reserve discount window credit, in part out of concerns that doing so might be interpreted by market participants as a sign of financial weakness. Even so, the volatility of overnight interest rates in the United Kingdom has tended, on average, to be somewhat higher than that in the United States, where reserve requirements are still binding for many institutions.

The Swiss National Bank (SNB) has adopted a different approach than the BOE. Although it now places somewhat greater emphasis on smoothing short-term interest rates than it did in the past, it has been much less accommodative in offsetting temporary fluctuations in clearing needs than has the BOE. As a result, Switzerland has experienced greater volatility in overnight rates than the United Kingdom, and Swiss banks have chosen to hold substantial excess reserves, in part because over-

<sup>19.</sup> Specifically, the federal funds rate has tended to be lower on Fridays, when reserves count three times in the calculation of a bank's period-average position; depositories are apparently more reluctant to build up their reserve balances on these days for fear that they will be unable to work them off later in the period without jeopardizing their overdraft protection. On settlement days, by contrast, the funds rate has tended to be higher, as banks move more aggressively to meet their reserve requirements. The persistence of systematic, intraperiod patterns in the funds rate suggests that arbitrage opportunities are not being fully exploited.

night overdrafts are prohibited. At the same time, however, the ability of Swiss banks to access SNB credit at their own discretion, albeit at a penalty rate, has likely served to temper reserve market volatility somewhat.

Although the jury is still out on the full ramifications of Canada's elimination of reserve requirements, which is in the process of being phased in, the Bank of Canada (BOC) feels that its financial system is amenable to functioning smoothly in the absence of reserve requirements. Specifically, Canada's system is highly concentrated, with a handful of large depositories controlling the lion's share of financial assets and handling the vast majority of financial transactions. These "direct clearers" will be required to clear all transactions through reserve accounts at the BOC, and although they will have no reserve requirements, they will be penalized if their reserve accounts are overdrawn. Thus, a demand for reserve liabilities at the central bank will be preserved, thereby enabling the BOC to implement monetary policy by manipulating the supply of reserves relative to this demand. Because the number of direct clearers is so small, moreover, the BOC can readily gauge the demand for clearing balances simply by keeping in close contact with the relevant banks. Finally, the BOC is also able to adjust the supply of reserves late in the day by moving government deposits between accounts in commercial banks and accounts at the BOC, thereby helping to mitigate volatility in the reserves market.

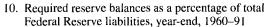
Other central banks, such as the Bundesbank and the Bank of Japan (BOJ), which operate in financial environments more akin to those found in the United States, have not eliminated reserve requirements. Echoing arguments made by the Federal Reserve, both the Bundesbank and the BOJ believe that reserve requirements are essential for providing the stable, predictable demand for reserves that is needed for the conduct of open market operations and the prevention of undesirable money market volatility. Thus, although the Bundesbank has pared reserve requirements in recent years, these requirements are still binding for most German banks.

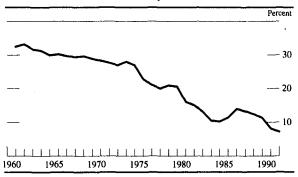
Overall, based on the recent experience in the United States and the experiences of other countries, it seems clear that the Federal Reserve would have to alter its other tools of monetary policy dramatically if it eliminated reserve requirements. In particular, to preserve its ability to conduct open market operations, it would have to ensure that depositories still had a demand for reserve liabilities at the Federal Reserve. To this end, it would likely have to require at least some depositories to clear their financial transactions through the Federal Reserve and to continue to subject them to penalties for overnight overdrafts. At the same time, it would probably also have to do something to make depositories less reluctant to use the discount window as a safety valve to defuse reserve market pressures. Even so, volatility in the money market is likely to rise significantly, and the Federal Reserve's ability to achieve desired reserve market conditions might be undermined as a result of the difficulty in gauging the banking system's demand for reserves.

#### Pay Interest on Required Reserve Balances—the Preferred Solution

Paying interest on reserves is a preferable alternative to eliminating reserve requirements. Specifically, if the Federal Reserve paid a market-based rate of interest on required reserve balances, the reserve tax would essentially be eliminated, as would the distortional effects of this tax on resource allocation. Households and businesses would not face an artificially imposed incentive to redirect credit flows away from depositories. Furthermore, depositories would no longer have an incentive to devote resources to new methods of reserve avoidance. If required reserve balances earned interest, moreover, the Federal Reserve could even raise reserve requirements if it wanted to provide banks with greater flexibility in managing their reserve positions, reduce volatility in the money markets, and simplify the conduct of open market operations, without having to worry about imposing a tax on the private sector. 20

<sup>20.</sup> An alternative proposal would have the Federal Reserve raise reserve requirements and pay interest only on the increased balances depositories were required to hold. Though this plan would not reduce Treasury revenue, it would also not do anything to reduce the deleterious effects of the current reserve tax. For details on this proposal, see Spence Hilton, Melissa Gerdts, and Roxann Robinson, "Paying Interest on Reserves," in Federal Reserve Bank of New York, Reduced Reserve Requirements: Alternatives for the Conduct of Monetary Policy and Reserve Management (New York: FRBNY, 1993).





In the past, proposals to pay interest on required reserve balances have encountered resistance largely because they would reduce the earnings remitted by the Federal Reserve to the Treasury. Required reserve balances have been declining as a share of total Federal Reserve liabilities for years, however, and now make up only about 7 percent of the total (chart 10). As a result of this decline, which owes to reductions in reserve requirements as well as to relatively rapid growth of currency in circulation, the payment of interest on required reserve balances would now engender a relatively smaller reduction in the amount of Federal Reserve earnings remitted to the Treasury than ever before.

In addition, it had often been argued in the past that the reserve tax on the depository system and its customers was more than offset by the governmentbacked deposit insurance program, which provided a subsidized, implicit government guarantee that conferred an advantage on depositories in their competition with other financial intermediaries. More recently, however, the price of this government guarantee has risen substantially. Not only have deposit insurance premiums been raised sharply, but capital requirements for depositories have been increased, more stringent standards for interbank lending have been imposed, and certain restrictions on deposit pricing have resurfaced. Taken together, these changes have served to increase the costs of intermediation through the depository system. Partly as a result of these increased costs, the share of new credit flows intermediated through the depository system has fallen dramatically in recent years. Although many of the credits formerly booked by banks and thrift institutions have been picked up by other intermediaries or have been channeled directly through the capital markets, with little attendant effect on the cost or availability of credit to most borrowers, some credits that are less easily substitutable, such as loans to small and medium-sized businesses, may have been curtailed, at least partly as a result of the increases in depository intermediation costs. Thus, it may be these borrowers who ultimately pay much of the price of the higher, government-mandated costs on depositories. Paying interest on required reserve balances would be one way of offsetting some of these higher costs.

#### APPENDIX: SUMMARY OF RESERVE REQUIREMENTS SINCE 1913

The tables in this appendix summarize changes in required reserve ratios since the inception of the Federal Reserve System in 1913.

Three major structures of reserve requirements have been used since 1913. The first two, which preceded passage of the Monetary Control Act of 1980, applied reserve requirements only to banks that were members of the Federal Reserve System. The first structure was based on geographic distinctions among member banks (table A.1). From 1913 to 1962, reserve requirements of member banks varied depending on whether the bank was located in a central reserve city, a reserve city, or elsewhere. In 1962, the authority of the Federal Reserve to classify or reclassify cities as central reserve cities was terminated.

In 1966, the Federal Reserve moved toward the next structure, involving graduated reserve requirements based on the level of deposits at each bank. Each deposit interval shown in table A.2 represents that part of the deposits of each bank that was subject to the reserve requirement shown. For example, in July 1966, the first \$5 million of time deposits at banks was subject to a 4 percent requirement; each additional dollar of time deposits was reservable at 5 percent. By 1972, a full-fledged graduated reserve requirement schedule was put in place, without regard to reserve city or country bank designations (table A.3).

Another change in reserve regulations involved the definition of "net" demand deposits (tables A.1 and A.2). In 1935, net demand deposits were defined as total demand deposits minus cash items in the process of collection and demand balances

A.1. Reserve requirements based on geographic distinctions among member banks, 1913-66

Percent of deposits

		Time deposits		
Effective date	Central reserve city banks	Reserve city banks	Country banks	(all classes of banks)
1913—December 23	18	15	12	5
1917—June 21	13	10	7	3
1936—August 16	19.5	15	10.5	4.5
1937—March 1	22.75	17.5	12.25	5.25
May 1	26	20	14	6
1938—April 16	22.75	17.5	12	5
1941—November 1	26	20	14	6
1942—August 20	24	†	<b>†</b>	†
September 14	22			
October 3	20			}
1948—February 27	22			
June 11	24	<b>↓</b>	<b>↓</b>	1
September 24, 16	26	22	16	7.5
1949—May 5, 1	24	21	15	7
June 30, July 1	†	20	14	6
August 1	ļ	20	13	6
August 11, 16	23.5	19.5	12	5
August 18	23	19	t	<b>†</b>
August 25	22.5	18.5		
September 1	22	18	1	↓
1951January 11, 16	23	19	13	6
January 25, February 1	24	20	14	†
1953—July 9, 1	22	19	13	↓
1954—June 24, 16	21	19	13	5
July 29, August 1	20	18	12	†
1958—February 27, March 1	19.5	17.5	11.5	
March 20, April 1	19	17	11	
April 17	18.5	17	. †	}
April 24	18	16.5		
1960—September 1	17.5	†	ļ	
November 24	17.5		12	
December 1	16.5		t	
1962—July 28	<b>†</b>			↓
October 25, November 1	↓	<b>↓</b>	ļ	4

In this table and in table A.2, when two dates appear on the same line, the first applies to the change at central reserve city banks and the second applies to the change at country banks.

due from other depositories. In 1969, reserves also began to be required against net balances due from domestic offices to their foreign branches.

From June 21, 1973, through December 11, 1974, under the structure of graduated reserve requirements, member banks were subject to varying marginal reserve requirements against increases in the following: (1) time deposits of \$100,000 or more; (2) funds obtained through issuance by any affiliate of the bank of obligations subject to reserve requirements on time deposits; and (3) funds from sales of finance bills (table A.3). The requirements applied only to balances above a specified base:

They were not applicable to banks having aggregate obligations of these types of less than \$10 million.

Beginning November 2, 1978, a supplementary reserve requirement of 2 percent was added to the existing requirements on time deposits in excess of \$100,000 and for certain other liabilities. This supplementary requirement was eliminated with the maintenance period beginning July 24, 1980. Also, effective with the reserve computation period beginning November 16, 1978, domestic deposits of Edge corporations were subject to the same reserve requirements as member banks.

 A.2. Reserve requirements based on geographic distinctions among member banks and on the level of deposits, 1966-72
 Percent of deposits

Effective date		Net demand	deposits	Time deposits (all classes of banks)				
	(deposit	e city banks intervals in s of dollars)	(deposit	try banks intervals in s of dollars)	Savings	Other time (deposit intervals in millions of dollars)		
	0-5	More than 5	0-5	More than 5		0–5	More than 5	
1966—July 14, 21	16.5	16.5	12	12	4	4	5	
September 8, 11	†	<b>†</b>	Ť	t	4	4	6	
1967—March 2	ļ			į	3.5	3.5	†	
March 16		ļ		ļ	3	3		
1968-January 11, 18	1	17	ļ	12.5	†	†		
1969—April 17	17	17.5	12.5	13			<b>↓</b>	
1970—October 1	17	17.5	12.5	13	ţ	1	5	

A.3. A graduated reserve requirement schedule for member banks, 1972-80 Percent of deposits

		Net	demand de	nosite		Time and savings deposits						
	(dep			ions of dol	lars)		Time (deposit intervals in millions of dollars)					
Effective date						Ci	0-5, by maturity			More than 5, by maturity		
	0–2	2–10	10- 100	100 400	More than 400	Savings	30–179 days	180 days to 4 years	4 years or more	30- 179 days	180 days to 4 years	4 years or more
1972—November 9	8	10	12	16.5	17.5	3	3	3	3	5	5	5
November 16	†	10	12	13	17.5	†	Ť	†	Ť	Ť	<b>†</b>	Ť
1973—July 19		10.5	12.5	13.5	18	Ì	)	}	}	ļ	ļ	ļ
1974—December 12	ţ	10.5	12.5	13.5	17.5					6	3	3
1975—February 13	7.5	10	12	13	16.5				ţ	Ť	t	3
October 30	t	†	t	t	†	1		ļ	1	ľ	ļ	1
1976—January 8	ļ	ļ	ļ	1	1			2.5	t		2.5	†
December 30	7	9.5	11.75	12.75	16.25	ļ	ļ	2.5	ļ	ţ	2.5	ļ

A.4.	Reserve requirements since passage of the
	Monetary Control Act of 1980
	Percent

Effective date	Net transaction accounts	Nontransaction accounts
1980—November 13	12	3
1990—December 26	12	0
1992—April 2	10	0

Effective with the maintenance period beginning October 25, 1979, a marginal reserve requirement of 8 percent was added to managed liabilities in excess of a base amount. These liabilities included large time deposits, Eurodollar borrowings, repurchase agreements against U.S. government and agency securities, and federal funds borrowings from nonmember institutions. This marginal requirement was raised to 10 percent on April 3, 1980, lowered to 5 percent on June 12, 1980, and then eliminated altogether on July 24, 1980.

Since passage of the Monetary Control Act in November 1980, after an initial phase-in period, all depository institutions have been subject to reserve requirements. Required reserve ratios are the same for all depository institutions under the current system and apply to transaction accounts and nontransaction accounts (table A.4). Transaction accounts include all deposits on which the account holder is permitted to make withdrawals by negotiable or transferable instruments, payment orders of withdrawal, and telephone and preauthorized transfers (in excess of three per month) for the purpose of making payments. The reserve requirements on transaction accounts shown in table A.4 apply only to those accounts that exceed the exemption and the low reserve tranche, the cutoffs for which adjust each year according to a formula provided by law. In 1993, for example, the first \$3.8 million of transaction accounts at each depository is exempt from reserve requirements and the next \$46.8 million is reservable at 3 percent. Only deposits in excess of this low reserve tranche are reservable at 10 percent. For the purposes of reserve requirements, nontransaction accounts include nonpersonal time and savings deposits that are not transaction accounts and in which the beneficial interest is held by a depositor that is not a natural person, as well as net borrowings by banks in the United States from banks outside the country.

#### SELECTED BIBLIOGRAPHY

Bank of Canada. "The Implementation of Monetary Policy in a System with Zero Reserve Requirements," Discussion Paper 3. (September 1991).

Bernanke, Ben, and Frederic Miskin. "Central Bank Behavior and the Strategy of Monetary Policy: Observations from Six Industrial Countries." Working Paper 4082, Cambridge, Mass.: National Bureau of Economic Research, 1992.

Board of Governors of the Federal Reserve System. "The History of Reserve Requirements in the United States," *Federal Reserve Bulletin*, vol. 25 (November 1938), pp. 953–72.

Federal Reserve Bank of New York. "Reduced Reserve Requirements: Alternatives for the Conduct of Monetary Policy and Reserve Management," *Staff Study* (April 1993).

Goodfriend, Marvin, and Monica Hargraves. "A Historical Assessment of the Rationales and Functions of Reserve Requirements," Federal Reserve Bank of Richmond, *Economic Review*, vol. 69 (March/April 1983), pp. 3–21.

Horrigan, Brian R. "Are Reserve Requirements Relevant for Economic Stabilization?" *Journal of Monetary Economics*, vol. 21 (January 1988), pp. 97–105.

Kasman, Bruce. "A Comparison of Monetary Policy Operating Procedures in Six Industrial Countries," Federal Reserve Bank of New York, *Quarterly Review*, vol. 17 (Summer 1992), pp. 5–24.

Meulendyke, Ann-Marie. "Reserve Requirements and the Discount Window in Recent Decades," Federal Reserve Bank of New York, *Quarterly Review*, vol. 17 (Autumn 1992), pp. 25–43.

Stevens, E.J. "Is there any Rationale for Reserve Requirements?" Federal Reserve Bank of Cleveland, *Economic Review*, vol. 27 (Quarter 3 1991), pp. 2–17.

Weiner, Stuart E. "Payment of Interest on Reserves," Federal Reserve Bank of Kansas City, *Economic Review*, vol. 68 (January 1983), pp. 16–31.

Requirements in Monetary Policy," Federal Reserve Bank of Kansas City, *Economic Review*, vol. 77 (Fourth Quarter 1992), pp. 45–63.

## Industrial Production, Capacity, and Capacity Utilization since 1987

Richard D. Raddock, of the Board's Division of Research and Statistics, prepared this article.

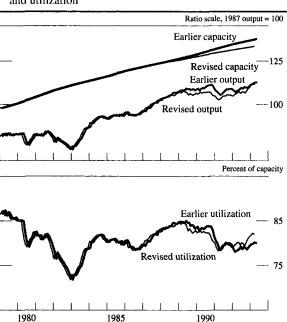
The Federal Reserve recently revised its index of industrial production and the related measures of capacity and utilization. Compared with the previous index, the revised index shows that manufacturing grew more slowly from 1987 until the onset of recession late in 1990 and then recovered more rapidly, albeit unevenly. According to the revised numbers, from 1987 to 1992 the annual rate of growth in industrial production averaged 1.3 percent, 0.4 percentage point less than was formerly shown. From the first quarter of 1992 through the first quarter of 1993, revised industrial output rose at an annual rate of 4.4 percent to a new high. Preliminary estimates show that industrial production changed little in March and April 1993.

The revised production and capacity indexes still cover manufacturing, mining, and electric and gas utilities and are still expressed as percentages of output in 1987. They have, however, incorporated new monthly and annual data—particularly output estimates derived from the Annual Survey of Manufactures of the U.S. Bureau of the Census and capacity utilization results from the Survey of Plant Capacity, also of the Census Bureau. The incorporation of the new data has progressively lowered the level of the revised industrial production index relative to that of the previous one until 1990. Whereas the previous index showed output peaking in September 1990 at 110.6 percent of the level of output in 1987, the revised index shows output reaching a high of 107.1 in April 1989 and then retreating a little until October 1989 (chart 1, top panel). The subsequent rebound recouped nearly all of the loss by the following summer. Then, as did the previous index, the revised index shows a cyclical contraction ensuing. From September 1990 to the following March, production dropped 4 percent to a low of 102.5, compared with the previous index of 105 percent. By February 1993, industrial output had reached 109.9 percent of its 1987 average—a new high, but 2.1 percentage points below the unrevised level.

The Federal Reserve's index of industrial capacity was also revised downward. According to the revision, the annual growth in capacity from 1987 to 1992 averaged only 1.7 percent, down from the previous estimate of 2.3 percent. The rate of capacity growth has trended lower for many years; it tends to be especially slow during and immediately after recessionary periods, when plant closings increase and capital spending drops.

As revised, capacity utilization, the ratio of output to capacity, was about the same for most of 1987–91 as it had been before the revision. It peaked at 84.8 percent in March 1989 and fell to a cyclical low of 78.3 percent two years later.

#### Revised and earlier industrial output, capacity, and utilization



1.	Historical data	for output,	capacity, and	capacity utilization	for total industry,	1986-921

<b>V</b>	T	Fish			<b>M</b>	T	Tools			0.4	Nov.	D		Qua	arter		Annual
Year	Jan.	Feb.	Feb.   Mar.   A	Apr. May	June July	July Aug.	Sept.	Oct.	NOV.	Dec.	1	2	3	4	avg.		
							Ou	put (per	cent of	987 out	put)						
1986 1987 1988 1989 1990 1991	96.1 96.5 103.2 106.6 105.5 104.4 104.5	95.5 97.9 103.4 106.2 106.1 103.2 105.3	94.6 98.2 103.4 107.1 106.4 102.5 105.6	94.8 98.8 104.3 107.1 105.7 102.6 106.3	94.7 99.4 104.0 106.7 106.5 103.3 106.7	94.3 100.3 104.0 106.4 106.7 104.4 106.0	94.8 100.6 104.6 105.3 106.5 104.5 106.8	94.9 100.9 105.2 105.8 106.8 104.6 106.6	95.0 100.7 104.7 105.4 106.8 105.3 106.2	95.6 102.1 105.0 105.0 106.3 105.1 107.5	96.3 102.2 105.6 105.4 105.0 105.0 108.4	96.8 102.8 106.3 106.1 104.5 104.7 108.9	95.4 97.5 103.3 106.6 106.0 103.3 105.1	94.6 99.5 104.1 106.7 106.3 103.4 106.3	94.9 100.8 104.8 105.5 106.7 104.8 106.5	96.2 102.3 105.6 105.5 105.3 104.9 108.3	95.3 100.0 104.4 106.0 106.0 104.1 106.5
							Сара	acity (pe	rcent of	1987 ou	tput)					· · · · · · · · · · · · · · · · · · ·	
1986 1987 1988 1989 1990	119.2 121.6 124.0 125.8 128.2	119.4 121.8 124.1 126.0 128.4	119.6 122.0 124.3 126.2 128.6	119.8 122.2 124.4 126.4 128.8	120.0 122.4 124.6 126.6 129.0	120.2 122.6 124.7 126.8 129.2	120.4 122.8 124.9 127.0 129.4	120.6 123.0 125.0 127.2 129.6	120.8 123.2 125.2 127.4 129.8	121.0 123.4 125.3 127.6 129.9	121.2 123.6 125.5 127.8 130.1	121.4 123.8 125.6 128.0 130.3	119.4 121.8 124.1 126.0 128.4	120.0 122.4 124.6 126.6 129.0	120.6 123.0 125.0 127.2 129.6	121.2 123.6 125.5 127.8 130.1	120.3 122.7 124.8 126.9 129.3
1991 1992	130.5 132.5	130.7 132.7	130,8 132,9	131.0 133.1	131.2 133.2	131,4 133,4	131.5 133.6	131.7 133.7	131.9 133.9	132.0 134.1	132.2 134.2	132.4 134.4	130.7 132.7	131.2 133.2	131.7 133.7	132.2 134.2	131.4 133.5
							Uti	ization (	percent	of capac	ity)				<del></del>		
1986 1987 1988 1989 1990	80.6 79.3 83.2 84.8 82.3	79.9 80.3 83.3 84.3 82.6	79.1 80.5 83.2 84.8 82.8	79.1 80.8 83.8 84.7 82.1	78.9 81.2 83.5 84.3 82.5	78.4 81.8 83.4 83.9 82.6	78.7 81.9 83.8 82.9 82.3	78.7 82.0 84.2 83.2 82.4	78.7 81.8 83.6 82.7 82.3	79.1 82.7 83.8 82.3 81.8	79.4 82.7 84.2 82.4 80.7	79.8 83.1 84.6 82.8 80.2	79.9 80.1 83.2 84.6 82.6	78.8 81.3 83.6 84.3 82.4 78.8	78.7 81.9 83.9 82.9 82.4	79.4 82.8 84.2 82.5 80.9	79.2 81.5 83.7 83.6 82.1
1991	78.8	79.3	79.5	79.9	80.1	79.5 79.5	80.0	79.7	79.3	80.2	80.8	81.0	79.2	79.8	79.7	80.7	79.8

<sup>1.</sup> Seasonally adjusted.

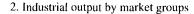
Neither the high nor the low reached the extreme values of the two preceding business cycles. During 1992, utilization rose with production and reached 81.4 percent in the first quarter of 1993, 0.5 percentage point below its 1967–92 average. However, the more rapid recovery of revised production from the trough and the slower growth of revised capacity led to an upward revision of utilization in 1992 and early 1993. For total industrial production, capacity, and capacity utilization for the period of the revision, see table 1.

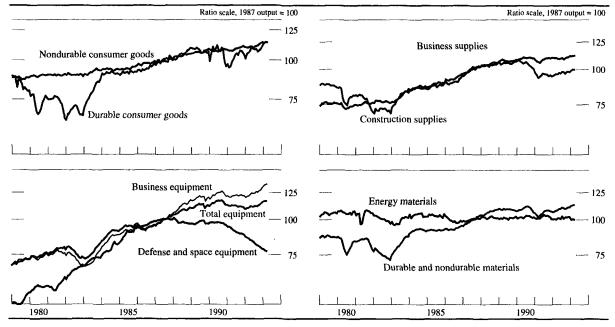
#### DEVELOPMENTS BY MARKET GROUPS

Pronounced cyclical contractions and recoveries have been most evident in the output of construction supplies and consumer durable goods, particularly automotive products (chart 2). From its high in early 1989 to the trough in early 1991, output of consumer durable goods fell about 20 percent. After an uneven recovery, it regained its previous

high in early 1993. Because of the peaking of building activity in 1986, production of construction supplies began to decline before the general cyclical peak, (table 2). Today, despite the lowest interest rates in nearly a quarter century, the recovery in output of construction supplies continues to be constrained—at least in part—by the high vacancy rates of rental housing and commercial buildings. In contrast to these strong cyclical patterns, the output of nondurable consumer goods, business supplies, and energy materials has fluctuated relatively little in recent years.

The production of total equipment grew about 3 percent a year on average from early 1987 to early 1993, even though output of business vehicles and heavy machinery fell sharply in the recession and production of defense equipment has been cut considerably since 1990. The recently ended boom in commercial aircraft and the strong gains in output of computers, communications equipment, and medical instruments boosted the business equipment group in the 1987–92 period. From





early 1992 through early 1993, output of business equipment soared at an annual rate of more than 12 percent (8 percent, if office and computing equipment is excluded).

The production of industrial materials used to manufacture durable and nondurable goods, which in the past was more cyclical than that of other industrial products, has, in recent years, roughly paralleled the movements of final products (consumer goods and equipment) production. This parallel movement may reflect the tighter management of stocks of materials that reduced overbuilding and the need for cutting stocks. Swings in net imports of some materials may have counterbalanced some of the swings in domestic demand.

#### DEVELOPMENTS BY SECTOR

Although industries within manufacturing, mining, and utilities face similar cyclical forces, they are also influenced by other factors, such as technology and resource availability, that may be specific to an

industry. As a result, short movements and trends in output, capacity, and utilization differ widely among industries.

#### Manufacturing

For analytical purposes, the large and diverse manufacturing sector—85 percent of total industrial production—is divided into two broad categories: primary-processing industries, which produce mainly materials and construction supplies, and advanced-processing industries, which produce mainly finished consumer or capital goods.

#### **Primary-Processing Industries**

Among these industries, the output of lumber, stone, clay and glass, and primary and fabricated metals industries declined relatively severely in 1990–91; output in each case remains below earlier highs (table 3). From a high in January 1989, the output index for primary processing dropped 10 percent to the trough. Although recovery has been substantial since then and output of textiles, paper, and industrial chemicals reached new highs

<sup>1.</sup> The total products grouping includes consumer goods, equipment, and construction and business supplies.

2.	Revised rates	of growth	in industrial	production, by	v maior mar	ket group, 1987–92
∸.	rectifica rates	OI GIOWIII	in management	production, by	, major mar	tot group, 1707 72

Series	1988	1989	1990	1991	1992	198792
	_	Avera	age annual rate	of growth (per	rcent)	
Total index	4.4	1.5	.0	-1.8	2.3	1.3
Products Final products Consumer goods Durable consumer goods Automotive products Home goods Nondurable consumer goods	4.1 4.8 2.9 4.6 6.4 3.0 2.4	1.5 1.9 1.1 1.9 1.6 2.1	1 .1 5 -4.1 -6.9 -1.5	-2.3 -1.5 6 -6.9 -10.9 -3.6 1.2	2.4 2.8 2.3 7.7 10.7 5.3	1.1 1.6 1.0 .5 1 1.0
Equipment Business equipment Industrial Information processing Transit Other Defense and space	7.6 10.7 10.3 11.3 12.8 7.2 3	3.1 4.4 3.6 2.5 12.5 2.5 .4	1.1 1.2 -1.2 3.5 1.2 5 -1.2	-2.8 -1.1 -5.9 2.1 4.1 -7.6 -7.2	3.5 6.5 2.1 11.7 2.5 3.6 -6.3	2.4 4.3 1.6 6.1 6.5 .9 -3.0
Intermediate products Construction supplies Business supplies	1.8 1.5 2.0	.2 -1.0 1.0	8 -2.4 .1	4.6 7.5 2.7	1.1 3.4 3	5 -1.3 .0
Materials Durable goods materials Nondurable goods materials Energy materials	5.0 6.8 4.4 2.2	1.6 1.6 2.6 .8	.1 7 .8 1.1	-1.2 -2.3 8 .4	2.3 3.5 3.6 -1.1	1.5 1.7 2.1 .7
	Differ	ence between r	evised and ear	lier growth rate	es (percentage	points)
Total index	-1.0	-1.1	~1.0	.2	.8	4
Products Final products Consumer goods Durable consumer goods Automotive products Home goods Nondurable consumer goods	-1.2 8 -1.1 3 .5 -1.1 -1.3	-1.6 -1.4 -1.5 -1.0 .6 -2.4 -1.8	-1.5 -1.5 -1.1 -2.6 -2.6 -2.1 7	5 3 8 -3.2 -6.6 3	1.0 1.4 4 2.2 1.7 2.3 -1.1	7 5 -1.0 -1.0 -1.4 7 -1.0
Equipment Business equipment Industrial Information processing Transit Other Defense and space	.0 -1.1 .5 -1.3 -1.6 -3.1 1.7	-1.3 -2.1 .0 -5.6 4.3 -3.1 1.0	-1.7 -2.1 -2.5 -1.0 -3.7 -2.2 -1.0	.0 .2 .4 -1.3 6.5 -3.5 8	3.8 4.0 7.4 4.4 9 3.2 2.6	.1 2 1.2 -1.0 .9 -1.8
Intermediate products Construction supplies Business supplies	-2.6 -2.9 -2.4	-2.1 -2.6 -1.8	-1.6 -1.6 -1.8	6 1.2 -1.9	1 2.0 -1.3	-1.4 7 -1.8
Materials  Durable goods materials  Nondurable goods materials  Energy materials	6 -2.2 1.4 .4	1 8 .4 1.2	3 9 .1 .4	.9 1.9 7 .2	.5 .9 .0 1	.1 2 .2 .4

in 1992, growth in output in primary processing industries averaged only <sup>3</sup>/<sub>4</sub> percent per year from 1987 to 1992. By early 1993, output had approximately recovered its peak (chart 3).

So far in the nineties, capacity growth has slowed to an annual rate of only about 1 percent; the rate of capacity utilization in primary processing, which had peaked at 88 percent in early 1989, recovered from its recessionary dive to a moderate rate of 84 percent in early 1993.

Capacity in some of these basic industries has remained flat. The annual capability for raw steel has stayed near 114 million tons, as older mills have closed and new minimills have been built. Aluminum mills have wrung some additional output of ingots from old potlines, but no new potlines have been constructed. Cement clinker capacity has contracted, and output and capacity in logging camps and lumber mills have been constrained by environmental regulation that reduced logging on

594

#### 3. Revised rates of growth in industrial production, by major industry group, 1987-92

	Average annual rate of growth (percent)							
Series	1988	1989	1990	1991	1992	1987-92		
Total index	4.4	1.5	.0	-1.8	2.3	1.3		
Manufacturing	4.7	1.6	3	-2.2	3.1	1.3		
Primary processing Advanced processing	3.9 5.1	.9 2.0	6 2	−3.7 −1.6	3.7 3.6	.8 1.8		
Durable manufacturing Lumber and products Furniture and fixtures Stone, clay, and glass	.1 .3	1.8 8 1.3 .0	-1.0 -2.3 -1.4 -2.1	-3.3 -6.8 -6.0 -7.7	4.1 6.4 5.2 3.7	1.6 7 2 8		
Primary metals Iron and steel Raw steel Nonferrous Fabricated metal products Industrial and commercial machinery and computer	8.7 12.7 12.6 3.1 4.2	-1.3 -1.3 -3.6 -1.4 -1.3	7 .2 1.0 -2.2 -3.2	-7.6 -9.8 -11.2 -4.2 -4.6	2.7 4.1 4.0 .7 1.8	.2 .9 .2 8 7		
equipment  Excluding computer and office equipment  Computer and office equipment  Electrical machinery	13.0 10.3 20.3 8.5	3.8 3.8 3.7 2.2	.2 -2.2 6.3 .4	-3.3 -6.3 3.5 1.3	9.8 3.5 22.6 6.2	4.5 1.6 11.0 3.7		
Transportation equipment  Motor vehicles and parts  Autos and light trucks  Aerospace and miscellaneous  Instruments	5.2 5.7 4.6 4.7 3.6	4.3 1.2 3.3 7.1 1.0	-2.4 -5.6 -6.9 .4	-4.8 -6.6 -8.8 -3.3	.8 11.2 10.6 -7.6 -1.1	.5 1.0 .3 .1 .8		
Miscellaneous manufactures	6.8	.4	3	-1.8	4.5	1.9		
Nondurable manufacturing Foods Tobacco products Textile mill products Apparel products Paper and products	2.3 1.5 1.8 -1.4 -1.9 3.1	1.3 1.0 -1.1 1.7 -3.2 1.8	.6 1.2 .1 -3.2 -3.0 .6	8 1.5 -4.4 2 3 .6	1.8 .6 3.0 8.1 .5	1.0 1.2 2 .9 -1.6 1.6		
Printing and publishing Chemical and products Petroleum products Rubber and plastics products Leather and products	.9 6.0 1.9 2.6 2	.2 3.1 .4 3.4 2	3 2.3 1.0 1.1 -3.6	-4.0 4 -1.7 -2.5 -8.5	-1.9 3.3 .4 5.0 5.3	-1.0 2.8 .4 1.9 -1.5		
Mining Metal mining Coal Oil and gas extraction Stone and earth minerals	1.3 20.3 3.1 3 2.3	-1.3 16.8 3.7 -3.7 -1.3	2.0 9.0 4.9 .8 1.4	-1.5 2.4 -2.5 9 -8.1	-2.8 3.2 -3.6 -3.5 3	5 10.1 1.1 -1.5 -1.3		
Utilities	5.0 4.7 6.2	3.5 3.4 3.9	1.1 2.4 -3.3	2.1 1.8 3.0	2 -1.1 3.1	2.3 2.2 2.5		

millions of acres of federal timberland in the Pacific Northwest (chart 4).

#### Advanced-Processing Industries

These industries, which account for 70 percent of manufacturing, have grown faster than the rest of industrial production. In early 1992, they regained their peak level; and in the first quarter of 1993, output was 12 percent higher than it was in 1987—up more than 2 percent per year. Even so, utiliza-

tion remains moderate, as capacity has expanded with output (chart 5). The performance of individual industries in this sector has been quite disparate in terms of cyclical volatility and growth.

Motor vehicles. Led by gains in the demand for trucks, the motor vehicle industry began to recover in 1992 from three years of declining output and sales. In 1991, U.S. output of vehicles, which from 1985 to 1988 had averaged about 11 million units, fell below 9 million units, the lowest level since 1982. Although large, this contraction was not as

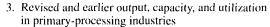
3. Revised rates of growth in industrial production, by major industry group, 1987–92—Continu	3.	Revised rates of	growth in industrial	production, by	y major industry grou	p, 1987-92-Continue
---	----	------------------	----------------------	----------------	-----------------------	---------------------

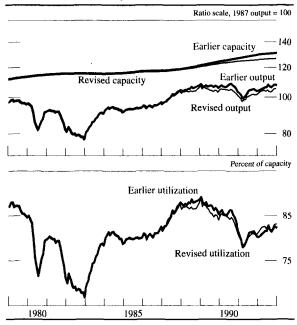
	Difference between revised and earlier growth rates (percentage points)						
Series	1988	1989	1990	1991	1992	1987-92	
Total index	-1.0	-1.1	-1.0	.2	.8	4	
Manufacturing	-1.1	-1.3	-1.3	.1	1.0	5	
Primary processing Advanced processing	-1.2	3	5	.0	.4	3	
	-1.1	-1.6	-1.6	.0	2.1	4	
Durable manufacturing Lumber and products Furniture and fixtures Stone, clay, and glass	-1.0	-1.3	-1.6	.8	2.8	1	
	-4.5	.7	9	.5	1.7	5	
	-3.3	3	-2.0	.4	4.1	3	
	-3.8	-1.5	.1	2.4	2.3	1	
Primary metals Iron and steel Raw steel Nonferrous Fabricated metal products Industrial and commercial machinery and computer	-1.6	3	.1	.6	9	4	
	-1.1	2.6	4	1.0	-2.1	.1	
	.0	.0	.0	.0	.0	.0	
	-2.3	4.8	.3	.2	.7	-1.1	
	-2.0	2.2	-2.0	.6	.4	-1.0	
equipment  Excluding computer and office equipment  Computer and office equipment  Electrical machinery	8	-3.2	-3.7	9	6.7	4	
	6	4	-3.6	7	6.4	.2	
	8	-9.6	-2.9	3	8.9	-1.1	
	2.0	6	-1.3	2.5	4.6	1.4	
Transportation equipment  Motor vehicles and parts Autos and light trucks Aerospace and miscellaneous Instruments Miscellaneous manufactures	.2	2.2	8	1.7	2.2	1.1	
	.2	1.8	2.1	.0	2.1	1.2	
	3	3.2	1.1	-1.3	-1.5	.2	
	.2	2.5	-3.2	3.1	1.9	.9	
	-6.5	-4.8	1	8	-1.0	-2.6	
	4	-6.8	-4.7	-1.3	4.4	-1.8	
Nondurable manufacturing Foods Tobacco products Textile mill products Apparel products Paper and products	-1.3 -1.3 .4 -1.2 -4.1	-1.4 -1.6 .6 4 -5.2 1.5	7 8 1.1 -2.2 2.2 -1.5	9 .6 -5.5 .1 2.4 .8	-1.2 8 -2.6 2.6 -1.1	-1.1 8 -1.2 3 -1.1	
Printing and publishing Chemical and products Petroleum products Rubber and plastics products Leather and products	-2.7	-4.6	-3.4	-4.3	-2.8	-3.6	
	.6	.2	.6	9	-2.3	4	
	-1.5	-2.2	-1.0	-1.1	6	-1.3	
	-3.3	.6	1	-2.3	-1.5	-1.3	
	.2	-4.3	1	3.4	8.5	1.6	
Mining Metal mining Coal Oil and gas extraction Stone and earth minerals	5	.0	1	.0	5	2	
	-2.4	1.6	.7	4.3	-2.0	.5	
	-1.9	3.0	-2.2	1.0	2	.0	
	.3	.2	.8	-1.2	8	1	
	-4.5	-7.9	-3.5	1.4	1.9	-2.4	
Utilities	.6	1.0	.3	.9	.4	.6	
	.1	.0	1	.0	.0	.0	
	2.3	4.7	2.3	4.4	1.4	3.0	

great as the contractions between 1973 and 1975 and between 1978 and 1982, partly because this cycle had neither a curtailment in gasoline supplies nor so extreme a peak in output. The drop in production of motor vehicles and related parts and materials from its high in January 1989 to the trough accounted for about a third of the decline in manufacturing.

Widely publicized plant closings by Chrysler, Ford, and General Motors accompanied the downtrend in the production of automobiles. The Big Three's auto assembly capacity in the United States fell from more than 9½ million units in 1986–87 to

less than 6½ million units in the 1993 model year. In contrast, reflecting the rising share of trucks in overall vehicle sales, U.S. capacity to assemble light trucks increased about a million units to 5¼ million units over the same period. Domestic producers shifted existing plants from autos to light trucks, built new truck plants, and increased hours of plant operation. Japanese auto producers continued to increase assembly capacity in the United States; "transplant" assembly capacity (mainly for autos) increased from about 1 million units in 1986–87 to more than 2 million units currently. Altogether, U.S. assembly capacity for motor vehi-





cles has declined about a million units since 1986–87 to about 13½ million units. With the increases in assembly capacity in Canada and Mexico, however, total North American assembly capacity has increased and has been more than ample to meet demand.

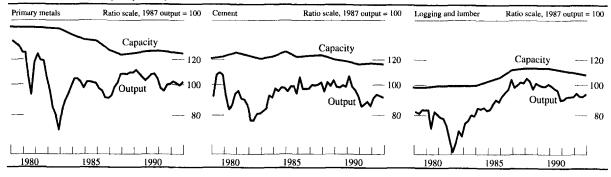
The revised output and capacity indexes, shown in the middle panel of chart 6, are based largely on the unit counts mentioned above (left panel); the indexes also incorporate an upward adjustment of about 3 percent per year resulting from gains in the quality of vehicles—antilock brakes, airbags, more efficient engines, more amenities, and so on. The utilization rates for autos and trucks parallel the

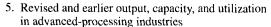
physical output data and indicate that the rate of capacity utilization, which had dropped from more than 80 percent in the mid-1980s to less than 60 percent at the trough, recovered to about 80 percent early in 1993. The utilization of light truck assembly capacity was much higher than that for automobiles; the capacity utilization rate for medium and heavy trucks also recovered strongly with output.

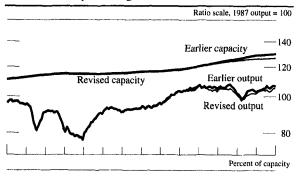
Aerospace and miscellaneous transportation equipment. Output of transportation equipment aside from motor vehicles dropped 16 percent from the end of 1990 to early 1993, to its lowest level in seven years. Further curtailments in production seem inevitable. Output of aircraft and parts, boats and naval ships, and guided missiles is declining. (The only real strength is in heavyweight motorcycles and mountain bicycles, along with casino boats, ferries, and other smaller craft.) Sharp cutbacks in defense outlays have been the major drag; but the production of commercial transport aircraft, which doubled from 1987 to 1991, is also now falling.

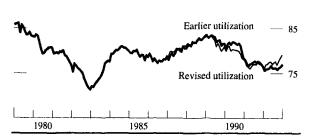
The boom in output of civil transport aircraft peaked in late 1991, although orders had already begun to decline. The boom was fueled by growing demand for air travel. Airlines were hit, however, by decreased air travel in 1991 in response to the Persian Gulf War and recession, by excess capacity, and by substantial price competition in 1992. New orders fell from more than 1,000 units in 1989 to an annual average of 243 units in 1991–92, and backlogs dropped as many airlines cancelled orders or delayed delivery past 1996 in response to record financial losses in 1991 and 1992. Deliveries

#### 4. Output and capacity in primary metals, cement, and lumber









peaked at about 160 planes a quarter in the first half of 1992 but dropped to 110 in the first quarter of 1993. Airframe makers announced further production cuts for 1993 and 1994; much of the current backlog is not scheduled to be delivered until the last half of the decade. Shipments of complete military aircraft have fallen from about 1,200 units in 1987 to about 600 units in 1992 and 1993.

With the sharp cuts in production, employment and capacity utilization in the aerospace and miscellaneous transportation industries have dropped substantially. The utilization rate fell from 88 percent at its peak in the second quarter of 1989 to 70 percent in early 1993.

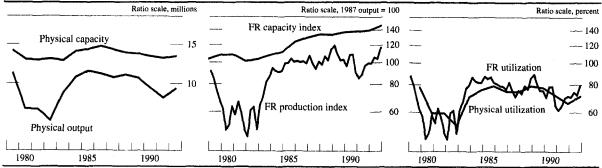
Machinery and instruments. The diverse industries that produce machinery, instruments, and parts include fast growers like computers, semiconductors, communications equipment, and medical instruments along with others that produced less at their recent peaks than they had in the early 1980s.

The output of industrial and commercial machinery and computer equipment grew 4.5 percent per year from 1987 to 1992; but the pace was less than half that if office and computing machines are excluded. Because of the phenomenal increase in computers' performance per dollar, the index for real production of computer and office equipment has doubled since 1987. Much of the output gain was registered during 1992 when the U.S. computer industry emerged from a prolonged downturn. In 1991, shipments in current dollars were about 8 percent below their peak in 1988 and only a few percentage points higher than they were in 1987; employment in the computer and office equipment industry dropped 100,000 from its peak in 1984 to 416,600 in 1991.

Excluding computers, output of nonelectrical machinery, which dropped about a tenth from peak to trough, recovered strongly in 1992 but remained below its 1989 high. Makers of engines and of farm and construction machinery produced substantially less in 1992 than in 1980. In 1992, a rebound in residential construction, increased public construction, and the end of a strike at a major producer boosted sales of construction machinery. Nevertheless, because of weakness in commercial construction of office and apartment buildings and the low

Standard Industrial Classification (SIC) 35, formerly called Nonelectrical Machinery.





level of industrial plant expansion, the level of output of construction and mining equipment remains near the weak 1987 level, far below earlier peaks. Although recovering somewhat late in 1992, output of farm equipment also remains below earlier peaks. Fewer farmers, declines in net farm income and the real purchasing power of farm equity, productivity gains, and conservation tillage (which requires fewer trips and reduces wear on the tractor) have reduced the sales of farm equipment.

The production of electrical machinery, which had flattened in 1989–90, advanced sharply from the trough to new highs. Bolstered by gains in semiconductors and communications equipment, output increased at a 3¾-percent annual rate from 1987 to 1992. With a double-digit gain in 1992, the production index for semiconductors and related components has risen more than 50 percent since 1987, whereas prices of semiconductors have drifted down. This strong growth is related to the increasing use of semiconductors and related devices in computers, communications equipment, and various recovering industries such as motor vehicles.

The output of communications equipment, which eased a bit in the recession, rose sharply in 1992 to a level more than 25 percent higher than that in 1987. One source of the strength is the robust growth of the cellular radiotelephone system and of fiber optics. During 1992, cellular service became available in each U.S. market block, and the number of new cellular subscribers increased more than 200,000 per month to about 10 million by the end of the year. Net exports of radio and television communications equipment have risen substantially in recent years.

Other components of electrical machinery exhibited less robust growth. The output of appliances and television sets and of electric motors and generators and related parts dropped sharply in the recession and exhibited moderate growth through 1992. In the first quarter of 1993, output of appliances and television sets rose to 121 percent of 1987 output. However, the output of lighting and wiring products, storage batteries, and transformers and switchgear was lower at the end of 1992 than it was in 1987.

In contrast to the cyclical fluctuations of motor vehicles, some machinery, and miscellaneous man-

ufactures, the output of instruments has been relatively flat since 1988. The medical instrument business has been the only strong sector; the output of guidance and navigation equipment has fallen substantially with the decline in defense spending. The rate of capacity utilization for the overall instruments industry is low.

As in the case of instruments, the industrial production index for manufactured nondurable goods has in recent years exhibited a muted cycle and a slow rate of growth. Among advanced processors, the output of foods grew only about 11/4 percent per year from 1987 through 1992 about half as fast as in the preceding five years. Changing tastes and lifestyles and reduced family size have shifted production from beef, liquor, whole milk, and large cakes and pies to poultry, beer, skim milk, frozen yogurt, and frozen convenience foods. The production of tobacco products has been trendless for a decade. In contrast, the output of finished chemicals grew more rapidly; this growth was led by drugs and medicines, which advanced a third from 1987 to early 1993.

The industrial production indexes for printing and publishing, paints, apparel, and leather goods, however, were lower in early 1993 than in 1987. A continued uptrend in imports of apparel and leather goods contributed to that decline. The output of printed products was reduced in the early 1990s partly because of a decline in advertising revenues during the recession, which also restrained demand for business publications and forms. A drop-off in corporate takeover activity led to less financial printing. Declines in tax revenues cut school and library budgets for educational materials. Newspaper industry receipts in 1992 declined for the fifth year as newspapers' share of total media advertising and the circulation of daily newspapers shrank further.

#### Mining

From 1987 to mid-1991, mining production, as a whole, changed relatively little, but afterward it declined a few percentage points. The easing was due partly to weak demand for coal, stone, and earth minerals but mainly to the renewed decline in crude oil production and the low rate of oil and gas well drilling that developed as the price of oil

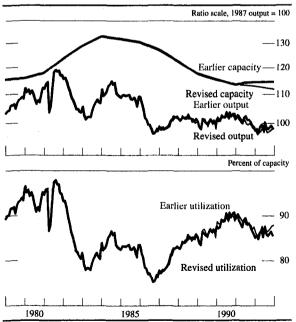
retreated after the defeat of Iraq. The estimated index of mining capacity declined as well. Capacity utilization edged down in 1992 and stayed within the 85–90 percent range of recent years (chart 7).

Mining of metal ores increased sharply from the depressed levels of the mid-1980s. New technology and new mines contributed to the doubling of production of gold and zinc ores since 1987; upgraded domestic facilities and disruptions in foreign supplies helped raise output of copper ore in the United States by 40 percent.

Production of energy by mines, refineries, and utilities, representing about 15 percent of industrial production, has been sluggish for the past twenty years. A key factor has been the long-term downtrend in the production of crude oil and natural gas, which has dropped more than 20 percent since 1973. This decline has offset much of the gain in coal mining and nuclear generation of electricity.

After a slight rise in 1991 related to the spurt in oil prices during the Persian Gulf crisis, production of domestic crude oil resumed its decline. From early 1991 to early 1993, it fell 500,000 barrels per day to 7 million barrels per day—the lowest level since 1960. Since 1988, when Alaskan output peaked, the daily rate of production has dropped a

Revised and earlier output, capacity, and utilization in mining



million barrels. For more than twenty years, output in the lower forty-eight states has been trending down—dropping from 9.4 million barrels per day in 1970 to 5.4 million in 1992. With the aging of oil fields, oil well productivity has fallen to about 12 barrels per day per well from about 13.5 barrels in 1987–88 and more than 18 barrels in the early 1970s.

Moderate prices of crude oil and environmental restrictions in some areas have depressed drilling activity in the United States. Drilling for oil and gas in terms of either footage or well completions has fallen to less than a third of its peak level in the early 1980s. The number of active or available rotary drilling rigs has also been shrinking.

In contrast to that of crude oil, the output of natural gas, which also declined through 1986, has recovered; and, despite some weather-related weakness since the recession, coal has trended up. The gains in coal mining have been primarily west of the Mississippi.

Refinery production, which had recovered from its lows in the early 1980s, has been basically flat since 1988. Total refinery production of motor gasoline had fallen to 6.3 million barrels in 1982–83 because of the high price of oil and recovered to 6.8 million barrels in 1986–87, when the price of oil fell. From 1988 to 1992, it stayed at 7 million barrels per day, about the same as in the late 1970s. Distillate fuel oil has equalled nearly 3 million barrels per day in the past few years, below the rate in the late 1970s but up from that in the mid-1980s.

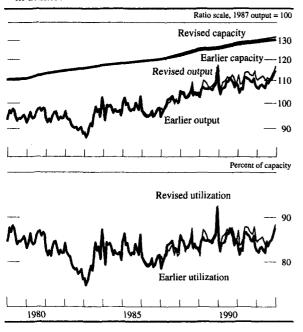
In 1992, refinery capacity shrank. More stringent requirements mandated by the Clean Air Act Amendments of 1990 for summer gasoline vapor pressure and oxygenated gasoline, as well as the upcoming reduction in allowable sulfur content of diesel fuels, necessitated the upgrading of existing refineries. Several idle marginal refineries permanently closed. The Department of Energy reports that, at the start of 1993, operable crude distillation capacity dropped to 15.1 million barrels per day, down about 500,000 barrels per day from its average level during 1985-92. Input to crude oil distillation units rose so that utilization increased from 86 percent in 1991 to 88 percent in 1992. This rate is moderate for refining; it is well above the low rates of the early 1980s, when the high price of oil cut demand, but below the rates in the decade before the Arab oil embargo.

#### Utilities

From 1986 to 1989, production by electric and gas utilities increased 13 percent; it was spurred by relatively low energy prices and a temporary surplus of deliverable natural gas that caused a rebound in consumption, particularly industrial consumption, of natural gas from its 1986 low. The growth in sales by electric and gas utilities slowed in 1990–92 because of episodes of mild weather and economic weakness. Cool weather caused the generation of electricity to decline in the summer of 1992, but stronger industrial demand for power and a return of more normal weather boosted utility sales in late 1992 and early 1993 (chart 8).

The growth of capacity at utilities in the past few years has kept up with the slow growth of output so that the rate of capacity utilization has changed little. However, the utilization rate is projected to rise. According to the North American Electric Reliability Council, the nation's utilities intend to increase generating capacity at an annual rate of about 1½ percent between 1992 and 2001, compared with a projected annual growth in summer peak demand of 1½ percent. The more rapid rise in

 Revised and earlier output, capacity, and utilization in utilities



demand is expected to reduce the margin of excess capacity a few percentage points.

#### SIZE OF THE REVISION

The downward revision in industrial production was centered in manufacturing, especially in non-durable goods industries other than textiles, paper, and leather goods. The growth of nondurables from 1987 through 1992 was cut in half, to 1 percent per year (table 3). Especially large downward revisions were made to printing and publishing and to paving and roofing materials (part of petroleum products); output in these industries as well as in apparel and leather products was lower in 1992 than it had been in 1987. The output indexes show foods, tobacco products, apparel, and rubber and plastics products growing more slowly than they were previously shown to grow.

In durable manufacturing, several downward revisions, especially to fabricated metal products, instruments, and miscellaneous manufactures, were largely offset by upward revisions to electrical machinery and transportation equipment. For durable manufacturing, the greater rebound from the trough shown by the revised index offset the lower levels in 1989 to 1991, so that by the end of 1992 the revised index exceeded the earlier figures.

For mining, particularly for coal, oil, and gas, the overall 1987–92 revision in output was small. For most series, monthly physical output figures, supplied by the Bureau of Mines or the Department of Energy, were adjusted to more complete annual data from the same sources. This process typically affected specific year-to-year movements rather than the overall 1987–92 rate of growth. In the case of stone and earth minerals, however, monthly output was estimated largely on the basis of kilowatt hours purchased by that industry. These estimates were revised substantially downward to match the annual physical product figures provided by the Bureau of Mines.

The output index for utilities was revised upward because of a correction to the measurement of gas transmission (the output of electric utilities was revised only slightly). Previously the sales of gas by major pipeline companies were used to measure monthly transmissions. However, most interstate pipeline companies have become open-access

transporters and, since 1987, have increasingly transported gas owned by others. As a result, sales of gas owned by pipelines fell far below transmissions. In this revision, pipeline sales were replaced by cubic feet of natural gas delivered to consumers. Whereas before the revision a slight decline was shown, the new series shows that gas transmission has not been falling; from 1987 to 1992, output of gas utilities including transmission grew at an annual rate of 2.5 percent.

#### REVISIONS TO CAPACITY

The growth of industrial capacity from the end of 1986 to the end of 1992 averaged 1.7 percent per year, 0.6 percentage point lower than the rate shown before the revisions (table 4). In manufacturing, large downward revisions to output and capacity indexes are evident in printing and publishing, instruments, and miscellaneous manufactures. As explained below, the downward revisions in capacity growth reflect not only new data on capacity and utilization but also the downward revisions in the industrial production indexes.

The revised capacity indexes are derived from (1) the survey by the U.S. Bureau of the Census of utilization rates in manufacturing establishments for the fourth quarter of years through 1990, (2) output and capacity data in physical units from various sources through 1992, and (3) estimates of capital stock derived through the perpetual inventory method from investment spending by industry.<sup>3</sup> Investment spending comes from the Annual Survey of Manufactures (ASM) through 1991 and from the Census Bureau's quarterly survey of plant and equipment expenditures after 1991.

The Federal Reserve indexes of sustainable annual capacity are designed specifically to accompany the indexes of production and are also expressed as percentages of production in 1987. A basic step in estimating annual levels of the capac-

ity index is dividing an industrial production (IP) index by a utilization rate provided by an outside survey ( $U_s$ ), that is, implied capacity =  $IP/U_s$ . Thus, if in 1987, IP = 100, and  $U_s = 80$  percent, then implied capacity = 100/0.8 = 125. For the most part, utilization rates from surveys are revised only slightly, if at all. Thus, the Federal Reserve capacity indexes are typically revised with industrial production indexes, and the Federal Reserve rates of utilization change relatively little on average in a revision (table 5). The sharper increase in 1992 in the revised industrial production indexes, however, has raised utilization above its unrevised level in the fourth quarter of 1992.

This revision was conducted at the end of a very sluggish period. Given the lack of direct capacity measures, the capacity indexes are often inferred indirectly. Making such inferences when output growth has been particularly slow and utilization rates are relatively low has the danger of yielding underestimates of capacity and its growth. Yet, an alternative measure of capacity utilization reported by the National Association of Purchasing Management, Inc., currently shows higher rates of utilization in manufacturing and, implicitly, a lower index of capacity.

#### TECHNICAL ASPECTS OF THE REVISION

In some respects, the revised production indexes look much the same as before. Most noticeably, the 1987 weight and comparison base has been maintained, and the structure of the major market and industry groups has remained basically the same. However, the updating of monthly data and the introduction of comprehensive annual data from the ASM have significantly affected the level and the movement of the indexes.

Many smaller changes were also made in the revision. The structure was modified to conform to the 1987 Standard Industrial Classification (SIC). Some sources of data were lost, and so some series based on those sources were dropped or combined with other series. However, the introduction of new series increased the number of individual series to 255. Monthly indicators for other series also changed. For example, some series that had been based on an industry's monthly purchases of electricity (kilowatt hours) became based on monthly

<sup>3.</sup> A methodology of the capacity and utilization measures is found in Richard D. Raddock, "Recent Developments in Industrial Capacity and Utilization," Federal Reserve Bulletin, vol. 76 (June 1990), pp. 411–35, especially pp. 424ff. One of the key sources is the U.S. Bureau of the Census: "Survey of Plant Capacity," Current Industrial Report MQ-C1, for various years. This survey provides utilization rates, not capacity estimates, for manufacturing establishments at the four-digit SIC level.

4. Compound annual rates of growth in end-of-year capacity, by major industry group, 1966–92

Item	1966-92	1966–74	1974–82	1982–86	1986-92	Difference between revised and earlier rates for 1986-9
Total Industry	2.8	3.9	2.9	2.4	1.7	6
Manufacturing	3.2	4.1	3.3	3.2	2.1	7
Primary processing	2.1	4.2	1.6	.4	1.3	5
Advanced processing	3.8	4.1	4.2	4.5	2.4	<b>-</b> .7
Durable	3.5	3.8	3.8	4.0	2.2	4
Lumber and products  Furniture and fixtures	1.7 3.1	3.1 4.9	.8 2.6	2.4 2.1	.5 2.0	-2.0 4
Stone, clay, and glass products	1.3	2.5	1.4	.6	.1	<del>7</del>
Primary metals	1	1.8	.2	-3.8	5	2
Iron and steel	9	.7	1	-5.9	7	.1
Raw steel	-1.1	.2	.0	-6.0	-1.0	3
Nonferrous	1.3 4	3.8 1.2	.7 7	3 -3.6	1 .0	6 -2.0
Primary aluminum	1.4	5.6	1.5	-5.6	.8	-2.0 .2
Fabricated metal products	1.6	3.2	1.7	.1	.4	6
and computer equipment	6.4	4.7	8.8	9.3	3.4	5
Electrical machinery	5.2	6.4	5.4	4.8	3.7	.1
Transportation equipment	2.7	3.0	2.0	3.5	2.7	.6
Motor vehicles and parts	3.2	4.6	1.8	2.5	3.7	2.1
Autos and light trucks 1	2.1		2.1	5.7	1.8	.1
Aerospace and miscellaneous Instruments	5.4	1.3 7.8	5.6	4.2 4.9	1.8 2.4	8 -2.7
Miscellaneous	2.1	4.9	.9	.0	1.6	7
Nondurable	2.9	4.5	2.5	2.1	1.9	-1.1
Foods	2.5	3.0	3.0	2.2	1.4	~1.1
Textile mill products	2.0	4.7	.8	.3	1.1	<b>5</b>
Apparel products	1.3 2.7	2.6 4.1	1.0 1.9	1.7 2.2	2 2.4	-2.0
Paper and products Pulp and paper	2.4	3.3	1.5	2.1	2.7	.1 1
Printing and publishing	3.2	3.1	3.4	4.5	2.1	-3.1
Chemicals and products	3.9	7.1	2.9	1.1	3.0	3
Plastics materials	7.0	13.4	5.0	2.3	4.6	-3.2
Synthetic fibers	4.4	9.9	2.8	7	3.2	2.4
Petroleum products	1.6	4.5	1.8	-1.2	-,4	8
Rubber and plastics products  Leather and products	5.5 -3.2	9.2 -1.2	3.6 -3.8	5.6 -5.6	3.2 -3.1	7 4
Mining	.0	3	2.2	-,2	-2.2	4
Metal mining	1.4	.5	1.0	-2.0	5.5	~1.0
Coal	2.6	2.4	3.6	2.0	1.8	4
Oil and gas extraction	6 .7	-1.2	2.5 17.4	3	-3.9	.0
Oil and gas well drilling	./ .9	8 2.7	.2	-5.1 1	-12.8 .2	3 -3.3
Utilities	3.1	6.3	2.1	1.0	1.5	.2
Electric	4.2	8.2	3.3	1.8	2.0	.2
Gas	.3	2.6	-1.0	-1.5	.2	.0

<sup>1.</sup> Series began in 1977.

production-worker hours. Seasonal factors were recalculated.<sup>4</sup>

Typically, either monthly output or monthly input data are used to estimate individual production indexes. Monthly output or shipments in physical units from many private or government

sources are the basis for 123 series that represent 36 percent of the total index. Input data constitute 74 production-worker-hour series (34 percent of

tion of series" is available with a diskette of historical data of industrial production, capacity, and capacity utilization from Publication Services, Board of Governors of the Federal Reserve System, Washington, DC 20551. A typed structure table may be obtained from the Industrial Output Section, Division of Research and Statistics.

<sup>4.</sup> A table "Industry structure and series composition of industrial production: classification, value added weight, and descrip-

Revised and earlier capacity utilization rates, by major industry group, 1987–92 <sup>1</sup>
 Percent of capacity, seasonally adjusted

Item	Revised				Earlier				
	1987-92 average	1988-89 high	1990–91 low	1992:Q4	1987~92 average	1988–89 high	1990–91 low	1992:Q4	
Total industry	81.7	84.8	78.3	80.7	81.8	85.0	78.4	79.3	
Manufacturing	81.0	85.1	76.6	79.6	81.3	85.1	77.2	78.2	
Primary processing	84.1 79.8	89.1 83.3	77.9 76.1	82.7 78.3	84.4 80.0	89.0 83.6	77.9 76.6	82.2 76.6	
Durable	78.7	83.9	73.8	77.7	79.3	84.0	74.8	75.6	
Lumber and products	86.7 80.9	93.3 86.8	76.8 71.7	87.6 79.8	83.1 82.8	91.2 88.3	72.9 74.5	80.1 76.0	
Furniture and fixtures	79.0	83.7	71.0	77.7	79.3	86.4	74.3 70.8	74.6	
· · · · · · · ·									
Primary metals	82.5	92.9	74.3	81.2	82.9	91.6	73.6	82.5	
Iron and steel	81,5	95.7 02.7	72.3	80.8	80.8	92.0	68.7	82.2	
Raw steel	81.8	92.7	71.2	81.2	80.7	94.1	67.1	78.6	
Nonferrous	83.9	88.9	75.9	81.8	86.3	95.0	81.1	83.0	
Primary copper	79.4	85.9	73.6	87.1	81.9	97.9	68.8	89.6	
Primary aluminum	95.8	100.4	97.3	97.8	97.2	103.5	97. <i>7</i>	99.3	
Fabricated metal products	77.2	82.0	71.7	75.1	79.5	85.1	73.9	76.9	
and computer equipment	77.9	83.7	73.0	81.7	78.3	83.5	74.7	78.5	
Electrical machinery	80.4	84.9	76.8	81.2	79.2	83.1	75.1	74.9	
Transportation equipment	76.6	84.2	70.1	72.0	77.2	84.6	70.1	70.1	
Motor vehicles and parts	72.3	84.5	57.9	72.1	75.0	85.5	58.1	75.3	
Autos and light trucks	73.4	89.6	53.6	74.9	71.2	83.6	47.4	73.8	
Aerospace and miscellaneous	81.0	88.3	78.1	72.0	79.2	86.2	72.3	65.5	
Instruments	77.9	81.2	75.1	73.2	78.4	83.9	74.8	71.1	
Miscellaneous	77.0	80.1	72.9	77.3	81.4	85.5	80.4	80.2	
Nondurable	84.1	86.8	80.4	82.1	84.0	86.7	80.3	81.9	
Foods	81.7	83.3	80.8	81.1	81.0	83.0	79.7	79.4	
Textile mill products	87.8	92.1	78.7	90.1	88.1	91.2	80.2	89.1	
Apparel products	80.2	84.2	74.6	78.6	79.3	84.2	71.5	73.9	
Paper and products	91.1	94,9	86.0	88.4	91.4	95.8	86.5	88.8	
Pulp and paper	93.7	98.1	90.2	91.0	93.3	97.7	87.2	91.8	
Printing and publishing	85.2	92.3	78.4	77.2	85.6	90.4	81.2	78.3	
Chemicals and products	82.2	85.9	78.5	81.4	81.8	86.8	77.9	81.7	
Plastics materials	89.5	97.0	75.5	82.8	90.7	98.9	79.0	82.0	
Synthetic fibers	89.8	99.7	77.3	86.8	86.3	94.5	72.5	83.0	
Petroleum products	86.0	88.5	84.2	89.7	87.3	90.3	86.2	90.7	
Rubber and plastics products	85.2	90.5	78.5	82.3	86.5	90.4	79.0	85.0	
Leather and products	79.9	83.8	75.4	85.4	79.4	88.4	71.4	75.1	
Mining	85.8	87,0	86.8	87.4	85.7	87.2	86.2	86.2	
Metal mining	81.4	87.5	79.5	87.3	78.0	87.2	73.6	79.1	
Coal	86.7	91.4	83.1	81.6	86.7	94.4	81.6	80.2	
Oil and gas extraction	86.3	86.9	87.8	90.0	86.5	86.6	86.2	90.6	
Oil and gas well drilling	54,0	60.7	54.0	65.0	53.5	58.8	51.2	62.0	
Stone and earth minerals	83.9	90,0	77.6	79.5	85.2	94.3	76.1	73.5	
Utilities	85.0	92.6	83.4	87.1	84.3	92.3	81.6	86.2	
Electric	88.2	94.8	87.4	89.0	89.1	96.2	87.0	91.1	
	74.6	85.5	68.3	80.7	69.4	80.3	62.3	70.2	

<sup>1.</sup> The "high" columns refer to periods in which utilization generally peaked; the "low" columns refer to recession years in which utilization

generally bottomed out. The monthly highs and lows are specific to each series, and all did not occur in the same month.

the total index) and 40 kilowatt-hour series (27 percent). Each of these types of monthly data has been updated or revised.

Quarterly production data in physical units have been introduced to maintain the representation of physical measures even though the Census Bureau and other sources have discontinued the monthly publication of some of these data. The quarterly production data are the basis for sixteen series that represent 2 percent of the total industrial production index. A cubic spline generally is used to interpolate monthly values from the quarterly figures.

Revised Federal Reserve indexes of electric power use by industry from 1986 were published in February 1993 and are incorporated in the new industrial production indexes for monthly components based on the use of electricity. The Federal Reserve Banks conduct a voluntary monthly survey of electric utilities, which report sales to industries classified by SIC codes; the respondents also include some industrial cogenerators. The revision reflects conversion of the power series since January 1987 to the 1987 SIC and the incorporation of more comprehensive annual and monthly source data, where available. New power series include indexes for converted paper products (SIC 267) and plastics products (SIC 308) and exclude indexes for SIC 264, 266, and 307, which no longer exist in the 1987 SIC.

The U.S. Bureau of Labor Statistics (BLS) revises its monthly survey data to new levels based on the number of employees covered by unemployment insurance in March. The last available benchmark was for March 1991. In the estimation of the Federal Reserve production indexes, the monthly worker hours (whether or not benchmarked by BLS) are further adjusted to annual production levels derived largely from the ASM.

Estimates of real output derived from the ASM for 1988 through 1991 determine most of the revised annual indexes of production in manufacturing; the Census of Manufactures, a more complete count of the universe, provides indexes for 1982 and 1987 and will do so for 1992. Historically, the ASM figures tend to show less growth than do those from the census. Also, the introduction of a new panel of respondents in 1989 apparently caused an understatement of growth in that year. Consequently, the estimates of output derived from the ASM were adjusted upward by ½ percent in 1988 and about 1½ percent in the years from 1989 to 1991. As shown by table 6, the Federal Reserve's index of manufacturing output has been revised downward to levels close to the adjusted levels derived from the ASM.5

Some of the individual production indexes are benchmarked to annual data that are expressed in physical volumes, such as tons of steel or gallons of gasoline, rather than to deflated output figures derived from the ASM. This alternative form of data accounts for some slight difference between the Federal Reserve and ASM-based indexes of output.

Cyclical movements in productivity are used in estimating those monthly indexes based on production-worker hours or kilowatt hours of electricity used by industrial plants. Through 1991, the movements in output per hour can be inferred by adjusting the monthly hours data to more comprehensive annual output measures, such as those developed from the ASM figures. Given the lack of such annual output data since 1991, the cyclical rebound in productivity since then must be estimated from other information such as (1) the movements of output-input ratios in previous cyclical recoveries and (2) the productivity changes shown in series based on monthly output data in physical units. Other indicators of current production, such as manufacturers' shipments and inventories in constant dollars, are used to corroborate the current trends in output-input ratios.

Because the revised industrial production indexes follow the 1987 SIC, a number of changes—including splits or recombinations of series—occurred. One change involved the shift of some military equipment from SIC 36, Electrical Machinery, into SIC 38, Instruments; this shift lowered the growth of this relatively small industry group more noticeably than it raised the growth of the larger electrical machinery group.<sup>6</sup>

6. Manufacturing output Index, 1987 average = 100

Year	Federal	Reserve	Annual Survey of Manufactures			
	Earlier	Revised	Unadjusted	Adjusted		
1988	105.8	104.7	104.5	104.9		
1989	108.9	106.4	104.8	106.4		
1990	109.9	106.1	104,9	106.1		
1991	107.5	103.7	102.1	103.7		
1992	109.7	106.9	n.a.	n.a.		

<sup>6.</sup> More specifically, search, detection, navigation, and guidance systems and equipment, part of old SIC 3662, were transferred to part of new SIC 3812; hydrological, hydrographic, meteorological, and geophysical equipment, (also part of old SIC 3662) to part of SIC 3829, Measuring and Controlling Devices, not elsewhere classified; and X-ray apparatus and tubes (old SIC 3693) to SIC 3844,5.

<sup>5.</sup> Gross output at the four-digit SIC industry level equals value added plus the cost of materials. The current dollar figures from the ASM are deflated, for the most part, by the BLS's producer price indexes. The main exception is the hedonic price index used to deflate computers. The deflated four-digit industry output figures are indexed on a 1987 base, weighted with proportions based on value added in 1987 reported in the Census of Manufactures, and aggregated. This is essentially the same method of aggregation used to combine the Federal Reserve's indexes of production.

The separate series on government-owned and -operated army, air force, and navy ordnance facilities and navy shipyards were eliminated because the ASM and the Census of Manufactures provide no annual data for benchmarking the available employment data.

In calculating new seasonal adjustment factors, the staff applied the X-11ARIMA program of Statistics Canada to data through October 1992. Seasonal factors were forecast twelve months ahead to October 1993. In cases in which cyclical movements appeared to distort seasonal factors, some original values were replaced with maximum likelihood estimates of more typical values before running the X-11ARIMA program. A prior adjustment for Easter, which may fall in March or April, was also made for some physical product or kilowatthour series. The Easter adjustment factor was later combined with the factor computed by the X-11 to get the final seasonal factor. For production-worker hours, some prior adjustment may have been required when holidays, specifically Easter and Labor Day, occurred during the pay period containing the survey week for the BLS employment survey.

# Availability of Output, Capacity, and Utilization Estimates

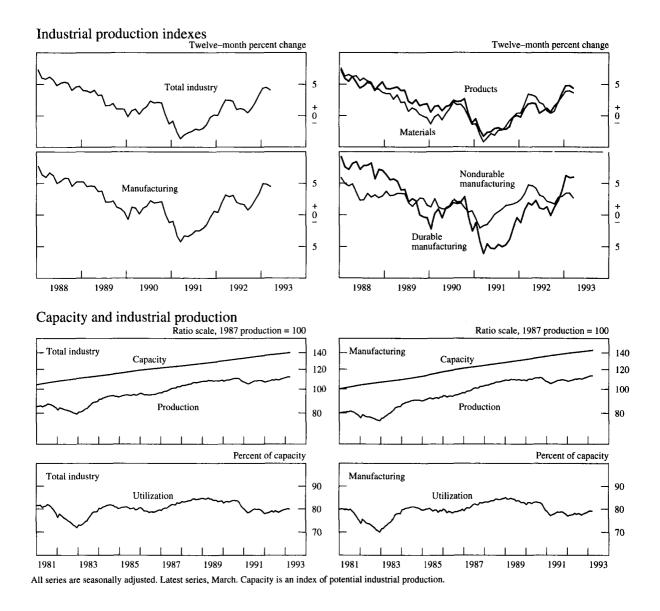
Current estimates of output, capacity, and utilization are published first in the Federal Reserve statistical release G.17(419), "Industrial Production and Capacity Utilization," and then in the statistical tables of the Federal Reserve Bulletin. All data shown in the release will be available on the day of issue through the Department of Commerce's online Economic Bulletin Board (202–377–3870).

Diskettes containing either historical data (through 1985) or revised data (from 1986 to those most recently published in the G.17 statistical release) are available from Publications Services, Board of Governors of the Federal Reserve System, Washington, DC 20551 (202-452-3245). Estimates for total industry and manufacturing, January 1981 to the latest available month in 1993, are shown in tables 5A and 5B of the G.17 statistical release. Hard copy of the revised estimates of series shown in the G.17 release is available upon written request to Industrial Output Section, Mail Stop 82, Division of Research and Statistics, Federal Reserve Board, Washington, DC 20551. A table "Industry structure and series composition of industrial production: classification, value added weight, and description of series" is also available upon written request to the Industrial Output Section. A similar table is available for the capacity indexes.

# Industrial Production and Capacity Utilization for March 1993

The revised data described in the previous article were released for publication on May 14. What follows is the summary of the earlier, unrevised indexes released on April 15.

Industrial production was unchanged in March, after having shown strong gains since October. In part, the slowdown reflects the loss of output after the severe mid-March storm along the East Coast;



Industrial production and capacity utilization!

			-	Industrial pro	oduction, inde	x, 1987 = 100								
Category	1002		1002		Percentage change									
	1992 Dec. r	1993			19922	1993 2			Mar, 1992					
		Jan. r	Feb. r	Mar. p	Dec.	Jan. r	Feb. r	Mar. p	to Mar. 1993					
Total	110.0	111.4	112.0	112.0	.5	.3	.6	.0	4.1					
Previous estimate	110.8	111.3	111.8		.4	.5	.4							
Major market groups Products, total <sup>3</sup> Consumer goods Business equipment Construction supplies Materials  Major industry groups Manufacturing Durable Nondurable Mining Utilities	112.3 113.4 130.2 98.4 109.0 111.8 111.2 112.7 98.5 114.2	112.7 113.4 131.8 99.5 109.3 112.8 112.4 113.2 98.0 110.1	113.3 114.2 133.0 100.7 110.0 113.3 113.3 113.4 95.1 114.6	113.3 114.0 133.4 100.5 110.0 113.4 113.3 94.0 115.6	.9 .7 1.9 5 .0	.3 .0 1.3 1.2 .3 .8 1.1 .4 5 -3.6	.5 .7 .8 !.1 .6	.0 1 .4 2 .0 .1 .0 -1.2 .8	4.4 4.3 9.8 3.9 3.7 4.5 6.0 2.7 -3.6 7.3					
	Capacity utilization, percent								Мемо Capacity,					
	Average,	Low.	High,	1992		1993			per- centage change,					
	1967–92	1982	1988–89	Mar.	Dec.	Jan. r	Feb. r	Mar. p	Mar, 1992 to Mar, 1993					
Total	82.0	71.8	85.0	78.4	79.6	79.8	80.1	79.9	2.1					
Manufacturing Advanced processing Primary processing Mining Utilities	81.3 80.8 82.3 87.4 86.6	70.0 71.4 66.8 80.6 76.2	85.1 83.6 89.0 87.2 92.3	77.5 76.1 80.8 84.9 83.1	78.5 77.0 82.2 85.8 87.5	79.0 77.4 83.0 85.4 84.3	79.2 77.5 83.5 82.8 87.7	79.1 77.3 83.5 81.8 88.3	2.4 2.9 1.0 .1					

<sup>1.</sup> Data seasonally adjusted or calculated from seasonally adjusted monthly data.

Change from preceding month.

- 3. Contains components in addition to those shown.
- r Revised.

available evidence suggests that these losses were only partly made up by month-end. The industries most affected by the storm include textiles, steel, furniture, tobacco, and coal mining, although the exact magnitudes of these effects are tentative. Overall, the output of consumer goods, intermediate products, and materials were little changed in March; the production of business equipment increased 0.4 percent after an average gain of more than 1 percent a month since October. At 112.0 percent of its 1987 average, total industrial production was 4.1 percent above its year-ago level. Total industrial capacity utilization declined 0.2 percentage point, to 79.9 percent.

Within consumer goods industries, declines in the production of motor vehicles and gasoline were mostly offset by gains in the output of appliances and residential utilities. The deceleration in busi-

ness equipment reflected a small decline in the production of industrial equipment, which had grown more than 0.5 percent a month since October, and a slight easing in the pace of production of information-processing equipment, which had grown at a rapid pace since December. Cutbacks in the output of defense and space equipment continue to weaken the industrial sector: During the past few months, production has fallen an average of more than ½ percent a month. Production of construction supplies slipped back slightly after increasing more than 1 percent in each of the preceding two months. An increase in the output of nondurable materials was offset by a decline in energy materials. Much of the increase in nondurables reflected a pickup in paper production.

Manufacturing output edged up 0.1 percent as production of durables moved up slightly. Most of

the impetus within durables came from the machinery industries, while production in most other industries either rose only slightly or declined. The largest decline was in transportation equipment, where aircraft manufacturing continued to contract; the output of motor vehicles and parts also decreased for a second straight month. Within nondurables, paper production increased notably, but the output of petroleum, textile, and tobacco products dropped. Capacity utilization in manufacturing edged down 0.1 percentage point, to 79.1 percent.

Mining output declined, as continued weakness in oil and gas well drilling augmented the cutback in coal mining. The output of utilities picked up a little with the persistence of relatively cool temperatures.

# Statement to the Congress

Statement by John P. LaWare, Member, Board of Governors of the Federal Reserve System, before the Subcommittee on Economic Growth and Credit Formation of the Committee on Banking, Finance and Urban Affairs, U.S. House of Representatives, April 2, 1993

I appreciate the subcommittee's invitation to discuss some of the factors influencing recent national and regional trends in bank lending as well as changes in the composition of banks' balance sheets. Traditionally, commercial banks have been central in financing economic activity. In recent years, their relative importance has diminished somewhat, as other financial intermediaries and direct market sources of funds have tended to substitute for bank credit. Nevertheless, commercial banks remain the major source of short- and intermediate-term business credit and the dominant source of small business financing—and thus continue to have a key function in the financial system. The recent weakness in the growth of bank loans has raised the issue of how well banks have been playing their intermediation role and what their future contributions are likely to be. In view of the importance of these and related issues, I would like to commend the committee for holding these hearings.

The weakness of bank lending to businesses over the past couple of years is in some part a continuation of the trend toward a smaller banking role to which I just alluded. A much more important factor, however, has been a considerable falloff in the demand for bank credit. This decline in demand has been mainly associated with a sharp reversal of some of the balance sheet trends that developed during the 1980s. These efforts to strengthen balance sheets have had a pronounced effect on the demand for bank credit from both the household and, especially, the business sectors. A related need by banks to repair their own balance sheets has led to a tightening of banks' lending standards and terms

even as demands for their loans were dropping. The resulting pattern of weak lending has been apparent across much of the United States, but the timing and severity of the slowdown have varied somewhat by region. In the remainder of my remarks, I will expand on this brief summary of recent developments.

As the data that the banking agencies have assembled for the subcommittee indicate, the pace of expansion of the assets and deposits of depository institutions has been quite slow or negative in the past few years after a considerable advance in the 1980s. The growth of loans, particularly business loans, has been sluggish, although banks and other depositories have acquired large volumes of U.S. government and agency securities.

The pattern of bank lending and the condition of banks have not been uniform across the United States and have mirrored the unevenness of economic developments. Perhaps the New England area provides the best-known regional aspect to the credit crunch. The boom in the 1980s was unusually strong in this region, particularly with respect to real estate, and the fall in the 1990s was commensurately sharp. The experience in New England points up the interconnections between the real and financial economies: As the New England economy softened and real estate prices stopped rising and began to fall, the quality of bank portfolios deteriorated rapidly, causing current and prospective declines in bank capital and generating a need to constrain lending. Of course, as the economy contracted, loan demand also fell. But the drop in loans on the books of New England banks doubtless was sharper than would have been the case had these banks felt better capitalized. As banks were intent on quickly improving capital ratios and reducing their exposure to further loss, some creditworthy borrowers appear to have been denied credit. Such problems have surfaced in other parts of the United States as well.

610

The regional breakdown of the banking data indicates that commercial and industrial loans have declined in the past few years in all parts of the United States but particularly in the West, Southwest, and Northeast. These areas, of course, have had pronounced economic difficulties that likely developed independently of banking conditions. In every region, construction loans also have contracted substantially. Other loan categories show more variation, however. For example, residential real estate loans expanded in the central, midwestern, and southwestern regions but contracted in the Northeast and the West in the 1990-92 period. Even commercial real estate credit exhibited strength in some areas, such as the central and midwestern regions but declined in the Southwest and on the coasts. Total lending has been weakest in the Northeast, followed by the Southwest and the West.

There are several reasons for weak loan growth. I will begin with the most important reasons: Households and businesses have opted to reverse the patterns of spending, investing, and borrowing that dominated the 1980s. As you are well aware, that decade was one in which households, businesses, and, of course, the federal government very substantially increased their use of debt. Households rapidly added to their mortgage and other loan liabilities. Businesses simultaneously acquired a very heavy debt burden. Their borrowing was in considerable part related to an unprecedented substitution of debt for equity, much of it associated with mergers, takeovers, or defenses against takeovers. During the decade ending in 1989, household debt rose at an average annual rate of about 11 percent, and growth of business debt over this period averaged only a bit less, 10 percent. The debt growth of these sectors exceeded the 8 percent average rate of expansion of nominal gross domestic product (GDP) over this period. This extraordinary exercise in leveraging by the business and household sectors was financed in no small part by banks. For example, business and consumer loans at banks both expanded at average annual rates of about 8 percent in the 1980s; for bank mortgage holdings, annual growth averaged 12 percent.

When some of the assumptions upon which

these trends were based—especially that inflation rates would continue unabated—proved incorrect, pressures to reverse the debt buildup and leveraging of the 1980s began to emerge. In particular, a collapse in commercial real estate undermined the assumption that this market provided a good investment vehicle for borrowers and sound collateral for lenders. When the economy began to exhibit recessionary behavior, businesses and households alike initiated efforts to reduce their debt burdens and strengthen their balance sheets.

These efforts have focused not only on reducing debt levels but also on substituting equity for debt, extending maturities to enhance liquidity, and refinancing existing debt to lower interest costs. Therefore, the decline in debt owed by the business sector has been particularly focused on shorter-term instruments, including bank loans. In part, these loans have been paid down with the proceeds of equity issuance. After seven years of contraction, net funds raised in equity markets by nonfinancial firms turned around in 1991, and firms have been issuing new equity at record rates in recent quarters. Bank loans also have been paid down with funds raised in bond markets. In addition, a great deal of bond issuance has been directed toward refinancing existing high-cost bonds at lower interest rates. This process has greatly reduced the debt-service burdens on the corporate sector and has left business balance sheets considerably strengthened.

It is fair to say, then, that much of the recent weakness in commercial and industrial loans is the result of vigorous efforts by businesses to improve the health of their balance sheets. At the same time, outlays to finance inventories and capital have been less than the volume of internal funds for nonfinancial corporations in the aggregate, further limiting firms' demands for bank or other credit.

Some of the recent weakness in commercial and industrial lending by banks appears to be a continuation of a longer-term downtrend in the relative importance of this type of business credit. Reasons for this slippage include increased competition from other sources of business credit, such as finance companies and the commercial paper market. The key role played

by depressed demand in explaining the recent contraction in commercial and industrial loans is pointed up by the simultaneous marked weakness or outright declines in these competing sources of short-term credit to businesses.

The weakness in bank loans to the household sector also appears to be mainly a demand side phenomenon. The sluggishness in housing prices and construction activity, for example, has likely depressed demand for mortgage credit, although the decline in home prices was nowhere near as severe as for commercial real estate. Perhaps more important, employment uncertainties that accompanied the economic downturn and the rather slow recovery caused households to take a more cautious approach to the use of debt. As a result, consumer credit outstanding contracted in 1991 and was little changed last year. In part, the anemic performance of consumer credit owed to paydowns using the proceeds of mortgages refinanced at rates that are well below consumer loan rates, particularly on an after-tax basis. In addition, weak consumer credit has been associated with the use of household financial assets, including bank deposits now yielding only 2 percent to 3 percent to pay down, or to limit, the growth of, loans.

As with businesses, these efforts, although depressing bank lending and the level of consumer debt, have contributed to a marked strengthening of household balance sheets. The use of deposits and other monetary assets to constrain household debt growth, incidentally, has contributed to the very weak performance of the broader measures of the money supply over the past two years. Thus, rather than being indicative of a restrictive monetary policy or a lack of adequate funding for the economy, slow money growth rather is the obverse of the rechanneling of credit flows out of banks and into capital markets—in large part via rapidly expanding bond and equity mutual funds.

These portfolio adjustments of households and businesses have been motivated largely, as I have suggested, by efforts to restore balance sheets that had gotten out of line in the 1980s. But the timing and pace of these restructuring activities have been related importantly to the very favorable trends we have seen in the equity and bond markets, trends that seem to have

accelerated in the past few months. These developments, particularly the dramatic declines in longer-term interest rates, in turn, appear to owe heavily to the markets' perception that, at last, the federal government too is prepared to take meaningful steps toward putting its own financial house in order.

Although sluggish loan growth at banks appears attributable largely to weak demand, it is clear that banks' appetite for loans has slackened over the past few years. The reason is that banks, too, found themselves in need of balance sheet restoration after the 1980s. This need was a result of the same realities their household and business customers were facing: The excessive loan liabilities of these latter groups had become the deteriorating loan assets of banks. The impact of these asset-quality problems on bank lending policies was intensified by increases in minimum acceptable capital ratios required both by regulators and by market forces.

Our periodic surveys of bank lending officers confirm that a distinct shift toward tighter standards for approving loan applications as well as stiffer lending terms began several years ago. Greater stringency was most notable with respect to commercial real estate lending, but it was quite marked as well for business lending. The tighter terms have included lower ceilings on the size of credit lines offered, increases in the cost of these lines, and additional collateral requirements. Also, the relative cost of bank loans, as measured by the unusually wide spread between the prime rate and banks' cost of funds, is high.

Although banks apparently ceased tightening in 1991, there has been little evidence of easing. In and of themselves, tighter lending standards and wider lending spreads in a time of an economic recession are not unusual. But the economy has been expanding now for two years, and the extended bout of stringency stands in some contrast to this pattern of economic growth. Besides suggesting the extent of needed balance sheet restructuring by banks, this prolonged period of adjustment may also reflect the increased costs of financial intermediation resulting from recent banking legislation.

With demand for their loans weak, banks have bid for deposits unenthusiastically. Nevertheless, deposit inflows have exceeded banks' funding needs, and, partly to accommodate their deposit customers, banks have purchased securities in volume. This phenomenon is one in which this subcommittee has expressed an interest. Historically speaking, the ratio of security holdings to loans at banks is not at a particularly high level. Indeed, it was much higher in the period from the end of World War II to the early 1960s. Nor is the increase in the ratio over the past few years surprising because it typically rises in periods of economic weakness. Nevertheless, some observers have blamed the recent shift from lending to acquisitions of government securities on the Basle risk-based capital standards.

As you know, banks must maintain minimum levels of two separate measures of capital: the ratio of equity capital to assets, a standard and traditional measure of leverage, and more recently, the ratios of two measures of capital to risk-adjusted assets. The latter requirements are the capital standards associated with the Basle Accord. They formally recognize what has long been known and understood—if not always acted upon—by bankers as well as their supervisors, namely that the amount of capital backing banks' assets ought to be related to the riskiness of those assets.

At first glance, the Basle Accord would appear to have had an important causative role in recent changes in banks' portfolio composition away from loans and toward securities. This interpretation would seem to follow from the observation that, in the period leading up to the full implementation of these standards in December 1992, banks acquired substantial amounts of U.S. Treasury and agency securities, which have low or zero weights in computing risk-based capital ratios and registered corresponding declines in the portfolio shares of full-risk-weight loans. Because the purpose of the risk-based capital requirements was to better align risks with capital, it would be surprising if their introduction did not have some impact on banks' portfolio composition. For the preponderance of banks, however, considerable evidence suggests that the recent trend toward increased securities holdings much more reflects lackluster loan demand as described above than efforts to boost risk-based capital ratios.

First, during this period most banks already met capital standards and thus were under no regulatory pressure to realign their portfolio. In addition, precisely the better capitalized banks in recent years have been acquiring the bulk of liquid Treasury and agency securities. This pattern, in turn, seems to reflect that it has been the banks with high risk-based capital ratios that also have had relatively high leverage ratios and have been most able to grow and accommodate deposit inflows. In an environment of depressed loan demand, deposit inflows were deployed to available assets, largely securities. A similar portfolio pattern of weak loan growth and strong security acquisitions has developed at credit unions—institutions not subject to the Basle Accord. As loan demand revives, the high levels of securities holdings at banks and other depository institutions likely will be drawn down as they were in numerous other cyclical upturns.

Another important factor has been the development of the market for mortgage-backed securities, especially collateralized mortgage obligations (CMOs). The CMO market makes available mortgage-backed instruments that are more attractive to banks than standard mortgage passthrough securities because the effective maturities of some CMO tranches better match those of banks' deposit liabilities and thus serve to limit interest rate risk. Indeed, most of the growth in mortgage-related securities since 1990 has been in the form of CMOs, and acquisitions of government-backed or guaranteed mortgage-related securities have accounted for 45 percent of all purchases of U.S. government and agency securities over this period. In part, acquisitions of mortgage securities can be viewed as substituting for state and local bonds, which have run off since late 1986, when the tax-advantaged status of most of these instruments to banks was ended. Of course, bank purchases of mortgage-backed securities provide credit to mortgage markets just as do acquisitions of mortgages themselves.

Even though the Basle Accord does not seem to explain the recent trend toward securities acquisition as currently structured, it does not adequately address the issue of interest rate risk that is potentially raised in banks' holdings of securities. Our examiners do, of course, take interest rate risk into account when evaluating banks. To provide further guidance in this area to banks and examiners and to respond to requirements of the Federal Deposit Insurance Corporation Improvement Act of 1991 (FDICIA), the Board has developed a proposal for measuring interest rate risk in the context of the Basle Accord and earlier this week approved its publication for public comment.

The steps that banks have taken in recent years to rebuild their balance sheets have been considerable and may well augur an increase in the availability of bank credit. Banks are very liquid, and lending rates relative to funding costs appear quite favorable, although banks must now cover expenses associated with recent legislation that were not present earlier. Reflecting wider lending margins and banks' efforts of recent years to control costs, bank profits last year reached record levels. Capital markets, meanwhile, have improved markedly, and banks took full advantage of these conditions by issuing a record volume of capital last year. As a result of the strong growth of capital, the share of loans in the banking system at well-capitalized banks by the end of last year climbed past 85 percent, and less than 1 percent was at less than adequately capitalized banks. Bank asset quality also has improved, as delinquency rates, while still high, have headed down.

These developments suggest that banks have completed much of the adjustment necessary to attain comfortable balance sheets. Banks seem to be ready to lend when demand picks up. Indeed, there have been some tentative signs in recent months of a pickup in bank lending and a slowing in their acquisitions of securities. As funding conditions in capital markets have generally remained very favorable, business firms have continued to raise substantial volumes of funds there, and loan growth at larger banks has re-

mained very weak. At smaller banks as a group, however, loan runoffs have ceased, and some growth has developed.

The administration's initiatives on credit availability recently announced by the Federal Reserve and the other banking agencies should provide some help in stimulating loan growth, particularly for smaller borrowers. The already announced policy that would create for stronger banks a basket of loans to small and mediumsized businesses and farms for which documentation would not be reviewed by the examiner should help quite a lot. I also anticipate policy proposals that would reduce the burden of real estate appraisal requirements for most credit to smaller borrowers to be announced shortly. These changes will be within the FDICIA framework and are designed not to affect adversely the safety and soundness of banks and thrift institutions but are expected to reduce costs and lags in the small- and medium-sized business loan market. Other steps under consideration that would lower the cost and burden of the examination process are—as announced in mid-March—under active review by the banking agencies.

To sum up, the past few years have been a difficult time for our economy and our financial institutions. During this period, the consequences of the excesses of the past decade have become apparent, along with the need to make fundamental adjustments. These adjustments have left their imprint on financial flows, particularly in the form of a slower pace of overall credit growth and, especially, restrained balance sheet expansion by depository institutions. Although this process has been trying, we are likely to emerge from it with leaner and more efficient banking institutions that are able to resume a central role in financing a growing economy.

### **Announcements**

PUBLICATION OF DOCUMENTS ON MARKET RISK AND BANK CAPITAL BY THE BASLE COMMITTEE ON BANKING SUPERVISION

The Federal Reserve Board made available on April 30, 1993, for public comment several documents on market risk and bank capital developed by the Basle Committee on Banking Supervision under the auspices of the Bank for International Settlements. The public comment period extends through year-end 1993.

These consultative papers, which deal with supervisory treatment of netting arrangements, market risk, and interest rate risk, provide an overview of the work to date of the Basle Committee. While the matters addressed are in their preliminary stages and describe the current status of efforts that are of an ongoing nature, these efforts have potential implications for the evaluation of the capital adequacy of internationally active banks.

The Board released an overview, prepared by the Basle Committee, that summarizes each paper. Copies of the committee's papers can be obtained from Publications Services, Board of Governors of the Federal Reserve System, Washington, DC 20551. Comments should be sent to William Wiles, Secretary, at the same address.

Any concrete proposals for modifying the U.S. risk-based capital guidelines that eventually grow out of these preliminary consultative papers would be issued for comment before they are adopted for U.S. banking organizations.

ISSUANCE OF FINAL RULE AMENDING RISK-BASED CAPITAL GUIDELINES FOR STATE MEMBER BANKS AND BANK HOLDING COMPANIES

The Federal Reserve Board issued on April 20, 1993, a final rule amending the risk-based capital guidelines for state member banks and bank hold-

ing companies to lower from 100 percent to 50 percent the risk weight on loans to finance the construction of one- to four-family residences that have been presold.

The final rule amends the Board's Regulation H (Membership of State Banking Institutions in the Federal Reserve System) and Regulation Y (Bank Holding Companies and Change in Bank Control). It is effective April 26, 1993, and implements section 618(a) of the Resolution Trust Corporation Refinancing, Restructuring, and Improvement Act of 1991 (RTCRRIA).

# REVISIONS TO THE STAFF COMMENTARY TO REGULATION Z

The Federal Reserve Board published on April 1, 1993, revisions to its staff commentary to Regulation Z (Truth in Lending). The rules are effective immediately, but compliance is optional until October 1, 1993.

The revisions address the interplay between the Truth in Lending rules on demand features and other federal rules dealing with credit extended to executive officers of depository institutions and provide more flexibility in complying with disclosure requirements. The revisions also offer creditors alternative methods of disclosing security interests in rescindable transactions.

REVISIONS TO THE LIST OF MARGINABLE OTC STOCKS AND TO THE LIST OF FOREIGN MARGIN STOCKS

The Federal Reserve Board published on April 23, 1993, a revised List of Marginable OTC Stocks that are subject to its margin regulations. Also published was the List of Foreign Margin Stocks for foreign equity securities that are subject to Regulation T (Credit by Brokers and Dealers). The

lists are effective May 10, 1993, and supersede the previous lists that were effective February 8, 1993.

The Foreign List specifies those foreign equity securities that are eligible for margin treatment at broker-dealers. There are no additions, deletions, or changes to the Foreign List, which contains 302 foreign equity securities.

The changes that have been made to the OTC List, which now contains 3,259 stocks, are as follows:

- One hundred sixty-nine stocks have been included for the first time, 139 under National Market System (NMS) designation.
- Thirty-two stocks previously on the list have been removed for substantially failing to meet the requirements for continued listing.
- Thirty-eight stocks have been removed for reasons such as listing on a national securities exchange or involvement in an acquisition.

The OTC List is published by the Board for the information of lenders and the general public. It includes all over-the-counter securities designated by the Board pursuant to its established criteria as well as all OTC stocks designated as NMS securi-

ties for which transaction reports are required to be made pursuant to an effective transaction reporting plan. Additional OTC securities may be designated as NMS securities in the interim between the Board's quarterly publications and will be immediately marginable. The next publication of the Board's list is scheduled for August 1993.

Besides NMS-designated securities, the Board will continue to monitor the market activity of other OTC stocks to determine which stocks meet the requirements for inclusion and continued inclusion on the OTC List.

# RELEASE OF QUARTERLY TABLE OF FACTORS FOR SECTION 20 COMPANIES

The Federal Reserve Board released on April 12, 1993, its quarterly table of factors to adjust interest income to be used by section 20 companies that adopt the Board's alternative index revenue test to measure compliance with the 10 percent limit on bank-ineligible securities activities. The table of factors is available from Publications Services, Board of Governors of the Federal Reserve System, Washington, DC 20551.

# Legal Developments

FINAL RULE—AMENDMENTS TO REGULATIONS G, T, U AND X

The Board of Governors is amending 12 C.F.R. Parts 207, 220, 221 and 224, its Regulations G, T, U and X (Securities Credit Transactions; List of Marginable OTC Stocks; List of Foreign Margin Stocks). The List of Marginable OTC Stocks (OTC List) is composed of stocks traded over-the-counter (OTC) in the United States that have been determined by the Board of Governors of the Federal Reserve System to be subject to the margin requirements under certain Federal Reserve regulations. The List of Foreign Margin Stocks (Foreign List) is composed of foreign equity securities that have met the Board's eligibility criteria under Regulation T. The OTC List and the Foreign List are published four times a year by the Board. This document sets forth additions to or deletions from the previous Foreign List. Both Lists were last published on February 1, 1993, and effective on February 10, 1993.

Effective May 10, 1993, accordingly, pursuant to the authority of sections 7 and 23 of the Securities Exchange Act of 1934, as amended (15 U.S.C.78g and 78w), and in accordance with 12 C.F.R. 207.2(k) and 207.6 (Regulation G), 12 C.F.R. 220.2(u) and 220.17 (Regulation T), and 12 C.F.R. 221.2(j) and 221.7 (Regulation U), there is set forth below a listing of deletions from and additions to the OTC List.

Deletions from the List of Marginable OTC Stocks

Stocks Removed for Failing Continued Listing Requirements

Alpha 1 Biomedicals, Inc.: Class B, warrants (expire 06-30-95)

American Steel and Wire Corporation: \$.20 par common

ARIX Corporation: \$.01 par common

B.M.J. Financial Corporation: Rights (expire 03-15-93)

Calendar Capital, Inc.: \$.01 par common Cherokee Inc.: \$.01 par common

Circle Fine Art Corporation: \$.10 par common

Cortech, Inc.: Rights (expire 05-24-94) Crest Industries, Inc.: \$.01 par common

Everex Systems, Inc.: \$.001 par common

First Federal Savings Bank (Puerto Rico): \$1.00 par common

First Seismic Corporation: \$.01 par common

Green Isle Environmental Services, Inc.: \$.18-3/4 par common

Hunter Environmental Services Inc.: \$.10 par common

Imagine Films Entertainment, Inc.: Warrants (expire 07–30–93)

Jefferson National Bank (New York): \$1.00 par com-

Main Street & Main Inc.: Warrants (expire 09-04-96) Millfeld Trading Co., Inc.: Class A; Warrants (expire 09-04-96)

NDE Environmental Corporation: \$.001 par common NESB Corporation: \$.01 par common

Old Stone Corporation: \$1.00 par common; Series B, 12% preferred

Pacific International Services Corp.: No par common Pentair Inc.: \$1.50 par cumulative convertible preferred

Ramtron Holdings Limited: American Depositary Receipts

Receptech Corporation: \$.01 par common

Sage Analytics International Inc.: \$.001 par common Southern Educators Life Insurance Co.: \$.50 par common

Tele-Communications Inc.: Series A; \$1.00 par 12-7/8% cumulative compounding redeemable preferred

USBancorp Inc.: Series A; \$2.125 par convertible preferred

Washington Mutual Savings Bank: \$1.00 par preferred stock

Stocks Removed for Listing on a National Securities Exchange or Being Involved in an Acquisition

Advo, Inc.: \$.01 par common

Alden Press Company: \$.01 par common

Allmerica Property & Casualty Companies, Inc.: \$1.00

par capital

618

Applied Biosystems Inc.: No par common

Armstrong Pharmaceuticals, Inc.: \$.08 par common

Clinical Homecare Ltd.: \$.01 par common

Colonial Companies, Inc.: Class B, non-voting; \$1.00

par common

DFSoutheastern, Inc.: \$1.00 par common

Diversco, Inc.: \$.01 par common

Dominion Bankshares Corporation: \$5.00 par common

Elm Financial Services, Inc.: \$.01 par common

Fedfirst Bancshares, Inc.: \$.01 par common First Chattanooga Financial Corp.: \$1.00 par common First Federal Savings & Loan Association of Fort

Meyers: \$.01 par common

First Federal Savings Bank (Utah): \$1.00 par comon Flagler Bank Corporation: Class A; \$.10 par common Fremont General Corporation: \$1.00 par common

Genesis Health Ventures: \$.02 par common Glamis Gold Ltd.: No par common

Harmonia Bancorp Inc.: \$.01 par common

Health Images, Inc.: \$.01 par common Heekin Can, Inc.: \$.01 par common

Imagine Films Entertainment, Inc.: \$.01 par common

Inforum, Inc.: \$.01 par common

Integra Financial Corporation: \$5.00 par common

KCS Energy, Inc.: \$.01 par common

Lincoln Financial Corporation: No par common,

\$10.00 stated value

Mercantile Bancorporation, Inc.: \$5.00 par common

Montclair Bancorp, Inc.: \$.01 par common

National Savings Bank of Albany: \$1.00 par common

New York Bancorp, Inc.: \$.01 par common

Piccadilly Cafeterias, Inc.: No par common

Pioneer Savings Bank (Washington): \$1.00 par com-

mon

Puget Sound Bancorp: \$5.00 par common

Security Financial Holding Co.: \$.01 par common South Carolina Federal Corp. \$1.00 par common

United American Healthcare Corp.: No par common

Valley National Corporation: \$2.50 par common

Additions to the List of Marginable OTC Stocks

Airsensors, Inc.: \$.001 par common; Warrants (expire

03-10-96)

Alamo Group, Inc.: \$.10 par common Alltrista Corporation: No par common

Amcor Limited: American Depositary Receipts

American Federal Bank, FSB (South Carolina): \$1.00

par common

Amtrol Inc.: \$.01 par common

Applied Signal Technology, Inc.: No par common

Argosy Gaming Company: \$.01 par common

Arkansas Best Corporation: Series A; \$.01 par cumu-

lative convertible exchangeable preferred Aseco Corporation: \$.01 par common

Autoimmune Inc.: \$.01 par common

Avecor Cardiovascular Inc.: \$.01 par common

Avid Technology, Inc.: \$.01 par common

Bancfirst Corporation (Oklahoma): \$1.00 par common

Bancinsurance Corporation: No par common

BHC Financial, Inc.: \$.001 par common Biosurface Technology, Inc.: \$.01 par common

BKC Semiconductor Incorporated: No par common

Boca Research, Inc.: \$.01 par common

Brock Candy Company: Class A; \$.01 par common

Brookstone, Inc.: \$.001 par common

Bruno's, Inc.: Convertible debentures (due

09-01-2009)

Campo Electronics Appliances & Computers Inc.: \$.10 par common

Cannon Express, Inc. Class B, non-voting, \$.01 par common

Cascade Savings Bank, FSB (Washington): \$1.00 par common

Casino America, Inc.: \$.01 par common

Casino Data Systems: No par common

Catalytica, Inc.: \$.001 par common

CB Bancshares, Inc. (Hawaii): \$1.00 par common

Cell Genesys, Inc.: \$.001 par common

Champion Industries, Inc.: \$1.00 par common

Chesapeake Energy Corporation: \$.01 par common

Chico's Fax, Inc.: \$.01 par common

Cocensys, Inc.: \$.001 par common

Commerce Bank (Virginia): \$.01 par common

Community Bancorp, Inc. (New York): 7.25% Series B; cumulative convertible preferred

Community Health Computing Corporation: \$.001 par common

Computer Outsourcing Services, Inc.: \$.01 par common

Comverse Technology, Inc.: \$.01 par common Coral Gables Fedcorp, Inc.: \$.01 par common

Cree Research, Inc.: \$.01 par common Cryolife, Inc.: \$.01 par common Cyberonics, Inc.: \$.01 par common

Davidson & Associates, Inc.: \$10.00 par common DF&R Restaurants, Inc.: \$.01 par common

Education Alternatives, Inc.: \$.01 par common Energy Biosystems Corporation: \$.01 par common Envirotest Systems, Inc.: Class A; \$.01 par common Equicredit Corporation: \$.01 par common

Ethical Holdings Limited: American Depositary Receipts

Excel Technology, Inc.: Series 1; \$.001 par redeemable convertible preferred; Warrants (expire 09-30-97

Fastcomm Communications Corporation: \$.01 par common

Fed One Savings Bank, F.S.B. (West Virginia): \$.10 par common

Financial Institutions Insurance Group, Ltd.: \$1.00 par common

First Family Bank, FSB (Florida): \$1.00 par common First Federal Savings Bank of Brunswick, Georgia: \$1.00 par common

First Shenango Bancorp, Inc. (Pennsylvania): \$.10 par

First Southern Bancorp, Inc. (North Carolina): No par common

Fossil, Inc.: \$.01 par common

Framingham Savings Bank (Massachusetts): Warrants (expire 01–31–96)

Funco, Inc.: \$.01 par common

General Nutrition Companies, Inc.: \$.01 par common Gilat Satellite Networks Ltd.: Ordinary shares (NIS .01)

Global Industries, Ltd.: \$.01 par common Global Spill Management, Inc.: \$.001 par common Gupta Corporation: \$.01 par common Gymboree Corporation, The: \$.001 par common

Hahn Automotive Warehouse, Inc.: \$.01 par common Hamilton Bancorp, Inc. (New York): \$.01 par common

Hollywood Park, Inc.: Depositary shares

IEC Electronics Corp.: \$.01 par common Inco Homes Corporation: \$.01 par common

Incomnet Inc.: No par common

Independence Federal Savings Bank (Washington, D.C.): \$.01 par common

Independent Entertainment Group, Inc.: \$.0001 par common

Intel Corporation: Warrants (expire 03-07-98) Intelligent Surgical Lasers, Inc.: No par common

Intervisual Books, Inc.: No par common Intuit Inc.: \$.01 par common

Jackpot Enterprises, Inc.: Warrants (expire 01-31-96) Jackson County Federal Bank, A Federal Savings

Bank (Oregon): Series A; \$5.00 non-cumulative convertible preferred

Jefferson Savings Bancorp, Inc. (Missouri): \$.01 par common

JMAR Industries, Inc.: \$.01 par common; Warrants (expire 02-17-98)

Kenfil Inc.: \$.01 par common

Kinder-Care Learning Centers, Inc.: \$.01 par common; Warrants (expire 04–01–97)

L.S.B. Baneshares, Inc. of South Carolina: \$2.50 par common

Landstar System, Inc.: \$.01 par common Leasing Solutions, Inc.: No par common Liberty Technologies, Inc.: \$.01 par common Lomak Petroleum, Inc.: \$.01 par common Lukens Medical Corporation: \$.01 par common

Magal Security Systems, Ltd.: Ordinary shares Marcum Natural Gas Services, Inc.: \$.01 par common Marion Capital Holdings, Inc.: No par common Mason-Dixon Bancshares, Inc.: \$10.00 par common Mathsoft, Inc.: \$.01 par common McGaw, Inc.: \$.001 par common Medical Resources, Inc.: \$.01 par common Microchip Technology, Inc.: \$.001 par common Molecular Dynamics, Inc.: \$.01 par common Molten Metal Technology, Inc.: \$.01 par common Mothers Work, Inc.: \$.01 par common

Nathan's Famous, Inc.: \$.01 par common National Convenience Stores Incorporated: \$.01 par

NFO Research, Inc.: \$.01 par common Norand Corporation: \$.01 par common Northrim Bank (Alaska): \$1.00 par common NSA International, Inc.: \$.05 par common

Nubco, Inc.: No par common

Orchard Supply Hardware Stores Corporation: \$.01 par common

Orthologic Corporation: \$.005 par common

Pacific Sunwear of California, Inc.: \$.01 par common

Parallan Computer, Inc.: No par common

Patrick Petroleum Company: Series B; \$1.00 par convertible preferred

Penn Central Bancorp, Inc. (Pennsylvania): \$1.25 par common

Pennsylvania Gas and Water: Depositary preferred shares

Peoples Bancorp, Inc. (Ohio): \$1.00 par common

Perceptron, Inc.: \$.01 par common

Petersburg Long Distance Inc.: No par common

Philip Environmental Inc.: No par common

Physician Corporation of America: \$.01 par common Physicians Health Services, Inc.: Class A, \$.01 par

common

Pikeville National Corporation: \$5.00 par common

PMR Corporation: \$.01 par common

Powersoft Corporation: \$.00167 par common Preferred Health Care Ltd.: \$.01 par common Proxima Corporation: \$.001 par common

Quantum Corporation: 6-3/8% convertible subordinated debentures due 2002

Recovery Engineering, Inc.: \$.01 par common Regent Bancshares Corp. (Pennsylvania): Series A, \$.10 par convertible preferred

Resound Corporation: \$.01 par common Rocky Shoes & Boots, Inc.: No par common

Roosevelt Financial Group, Inc.: 6-1/2% non-cumula-

tive convertible preferred

mon

Rouse Company, The: Series A, convertible preferred stock

RPM, Inc.: Liquid yield option notes due 2012

S3 Incorporated: \$.001 par common
Sage Alerting Systems, Inc.: \$.01 par common
Savoy Pictures Entertainment, Inc.: \$.01 par common
Shaman Pharmaceuticals, Inc.: \$.01 par common
Shared Technologies, Inc.: \$.001 par common
Shoe Carnival, Inc.: \$.01 par common
Southern Energy Homes, Inc.: \$.0001 par common
Southern Energy Homes, Inc.: \$.0001 par common
Specialty Paperboard, Inc.: \$.001 par common
Standard Management Corporation: No par common
Staples, Inc.: 5% convertible subordinated debentures
Stephan Company, The: \$.01 par common
Sumitomo Bank of California, The: Depositary shares
Sun Bancorp, Inc. (Pennsylvania): \$2.50 par common
Sunrise Bancorp, Inc. (New York): \$.10 par common
Superconductor Technologies, Inc.: \$10.00 par com-

Suprema Specialties, Inc.: \$.01 par common

Tecnomatix Technologies, Ltd.: Ordinary shares (NIS .01 par value)

Tencor Instruments: No par common Tide West Oil Company: \$.01 par common Tricord Systems, Inc.: \$.01 par common

U.S. Can Corporation: \$.01 par common
Union Bankshares, Ltd. (Colorado): \$.001 par com-

Universal Electronics, Inc.: \$.01 par common

Vical Incorporated: \$.01 par common Virginia First Savings Bank, F.S.B.: \$1.00 par common

Wall Data Incorporated: No par common Washington Homes, Inc.: \$.01 par common Watson Pharmaceuticals, Inc.: \$.0033 par common WCT Communications, Inc.: No par common Wordstar International Corporation: Warrants (expire 03–26–96)

### FINAL RULE—AMENDMENT TO REGULATIONS H AND Y

The Board of Governors is amending 12 C.F.R. Parts 208 and 225, its Regulations H and Y (Capital and Capital Adequacy Guidelines). The Board is amending the risk-based capital guidelines for bank holding companies and state member banks to lower from 100 percent to 50 percent the risk weight assigned to certain loans to builders to finance the construction of presold residential (one- to four-family) properties. This final rule implements section 618(a) of the Resolution Trust Corporation Refinancing, Restructuring, and Improvement Act of 1991.

Effective April 26, 1993, 12 C.F.R. Parts 208 and 225 are amended as follows:

#### Part 208—Membership of State Banking Institutions in the Federal Reserve System

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

Authority: Sections 9, 11(a), 11(c), 19, 21, 25, and 25(a) of the Federal Reserve Act, as amended (12 U.S.C. 321-338, 248(a), 248(c), 461, 481-486, 601, and 611, respectively); sections 4 and 13(j) of the Federal Deposit Insurance Act, as amended (12 U.S.C. 1814 and 1823(j), respectively); sections 7(a) of the International Banking Act of 1978 (12 U.S.C. 3105); sections 907-

910 of the International Lending Supervision Act of 1983 (12 U.S.C. 3906-3909); sections 2, 12(b), 12(g), 12(i), 15B(c)(5), 17, 17A, and 23 of the Securities Exchange Act of 1934 (15 U.S.C.78b, 78l(b), 78l(g), 78l(i), 780-4(c)(5), 78q, 78q-1, and 78w, respectively); section 5155 of the Revised Statutes (12 U.S.C. 36) as amended by the McFadden Act of 1927; and sections 1101-1122 of the Financial Institutions Reform, Recover and Enforcement Act of 1989 (12 U.S.C. 3310 and 3331-3351); 12 U.S.C. 93a, 161, 1818, 3907, 3909, Sec. 618, Pub. L. 102-233, 105 Stat. 1761 (Resolution Trust Corporation Refinancing, Restructuring, and Improvement Act of 1991).

2. Appendix A to part 208 is amended by revising footnote 35 to read as follows:

APPENDIX A TO PART 208—[AMENDED]

III. Procedures for Computing Weighted-Risk Assets and Off-Balance-Sheet Items

C. Risk Weights

3. \* \* \* \*35

Part 225—Bank Holding Companies and Change in Bank Control

1. The authority citation for part 225 is revised to read as follows:

12 U.S.C. 1817(j)(13), 1818. 1843(c)(8), 1844(b), 3106, 3108, 3907, 3909, 3310, and 3311-3351.

2. Appendix A to part 225 is amended by revising footnote 38 to read as follows:

APPENDIX A TO PART 225—[AMENDED]

III. Procedures for Computing Weighted-Risk Assets and Off-Balance-Sheet Items

\* \* \*

C. Risk Weights

3 \* \* \* \*38

#### Final Rule—Amendment to Regulation O

The Board of Governors is amending 12 C.F.R. Part 215, its Regulation O (Loans to Executive Officers, Directors, and Principal Shareholders of Member Banks; Loans to Holding Companies and Affiliates), to implement recent amendments to section 22(h) of the Federal Reserve Act, contained in the Housing and Community Development Act of 1992. The final rule adopts three exceptions to the aggregate insider lending limit in Regulation O substantially as they were set forth in the Board's proposed rule. Additional exceptions suggested by commenters will be considered in future rulemaking.

Effective May 3, 1993, 12 C.F.R. Part 215 is amended as follows:

Part 215—Loans to Executive Officers, Directors, and Principal Shareholders of Member Banks

1. The authority citation for part 215 is revised to read as follows:

Authority: 12 U.S.C. 248(i), 375a, 375b(7), 1817 (k)(3) and 1972(2)(F)(vi), Pub. L. 102-550, 106 Stat. 3895 (1992).

<sup>35.</sup> Loans that qualify as loans secured by one- to four-family residential properties are listed in the instructions to the commercial bank call report. In addition, for risk-based capital purposes, loans secured by one- to four-family residential properties include loans to builders with substantial project equity for the construction of one-to four-family residences that have been presold under firm contracts to purchasers who have obtained firm commitments for permanent qualifying mortgage loans and have made substantial earnest money deposits.

<sup>38.</sup> Loans that qualify as loans secured by one- to four-family residential properties are listed in the instructions to the FR Y-9C Report. In addition, for risk-based capital purchases, loans secured by one- to four-family residential properties include loans to builders with substantial project equity for the construction of one- to four-family residences that have been presold under firm contracts to purchasers who have obtained firm commitments for permanent qualifying mortgage loans and have made substantial earnest money deposits.

622

Subpart A—Loans by Member Banks to Their Executive Officers, Directors, and Principal Shareholders

2. Section 215.4 is amended by adding a new paragraph (d)(3) to read as follows:

Section 215.4—General prohibitions.

(d) \* \* \*

- (3) Exceptions. The general limit specified in paragraph (d)(1) of this section does not apply to the following:
  - (i) Extensions of credit secured by a perfected security interest in bonds, notes, certificates of indebtedness, or Treasury bills of the United States or in other such obligations fully guaranteed as to principal and interest by the United States:
  - (ii) Extensions of credit to or secured by unconditional takeout commitments or guarantees of any department, agency, bureau, board, commission or establishment of the United States or any corporation wholly owned directly or indirectly by the United States; or
  - (iii) Extensions of credit secured by a perfected security interest in a segregated deposit account in the lending bank.
  - (iv) The exceptions in this paragraph (d)(3) apply only to the amount of such extensions of credit that are secured in the manner described herein.

### FINAL RULE—AMENDMENT TO RULES REGARDING DELEGATION OF AUTHORITY

The Board of Governors is amending 12 C.F.R. Part 265, its Rules Regarding Delegation of Authority, in order to delegate to the Secretary of the Board, and to repeal with respect to the General Counsel of the Board acting with the concurrence of the Director of the Division of Banking Supervision and Regulation, the authority to approve certain transactions requiring the approval of the Board pursuant to section 5(d)(3) of the Federal Deposit Insurance Act (FDI Act). This amendment will align the Board's procedures for approving "Oakar" transactions with those procedures used to approve other types of applications involving a director interlock with a Federal Reserve Bank.

Effective May 3, 1993, 12 C.F.R. Part 265 is amended as follows:

### Part 265—Rules Regarding Delegation of Authority

1. The authority citation for part 265 is revised to read as follows:

Authority: 12 U.S.C. 248(i) and (k).

2. Section 265.5 is amended by adding paragraph (c)(3) to read as follows:

Section 265.5—Functions delegated to Secretary of the Board.

(c) \* \* \*

- (3) Application approval under section 5(d)(3) of the FDI Act. To approve applications pursuant to section 5(d)(3) of the Federal Deposit Insurance Act (12 U.S.C. 1815(d)(3)), in those cases in which the appropriate Federal Reserve Bank concludes that, because of unusual considerations, or for other good cause, it should not take action.
- 3. In section 265.6, paragraph (c)(5) is removed.

### ORDERS ISSUED UNDER BANK HOLDING COMPANY ACT

Orders Issued Under Section 3 of the Bank Holding Company Act

First Fidelity Bancorporation Lawrenceville, New Jersey

Banco Santander, S.A. Madrid, Spain

Order Approving the Acquisition of a Bank

First Fidelity Bancorporation, Lawrenceville, New Jersey ("First Fidelity"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), has applied under section 3 of the BHC Act (12 U.S.C. § 1842) to acquire Northeast Bancorp, Inc., New Haven, Connecticut ("Northeast"), and thereby indirectly acquire Union Trust Company, Stamford, Connecticut ("Union Trust"), a state non-member bank. Banco Santander, S.A., Madrid, Spain

<sup>1.</sup> The proposal is structured as a merger of First Fidelity's wholly owned subsidiary, FFB Newco, Inc. ("Newco"), with and into Northeast pursuant to alternative plans of merger. The first plan, which would be implemented if the merger is approved by both classes

("Santander"), which controls First Fidelity within the meaning of the BHC Act,2 also has applied under section 3 of the BHC Act to acquire Northeast and Union Trust.

Notice of the applications, affording interested persons an opportunity to submit comments, has been published (58 Federal Register 4171, 12,038 (1993)). The time for filing comments has expired, and the Board has considered the applications and all comments received in light of the factors set forth in section 3(c) of the BHC Act.

First Fidelity, with total consolidated assets of approximately \$31.5 billion, is the largest commercial banking organization in New Jersey, controlling 22.2 percent of commercial bank deposits in the state.3 First Fidelity operates six subsidiary banks in New Jersey, Pennsylvania, and New York,4 and engages through its subsidiaries in a broad range of banking and permissible nonbanking activities. Santander, with total consolidated assets of approximately \$60.3 billion, is the fifth largest banking organization in Spain and the 95th largest banking organization in the

of Northeast's common stock, provides that all shares of Northeast would be converted into shares of First Fidelity common stock, and that the shares of Newco would be converted into shares of Northeast as the surviving corporation. The second plan of merger would be implemented if the transaction is approved by the holders of Northeast's voting common stock but not by the holders of its nonvoting common stock. Under the second plan, Northeast's nonvoting common stock would remain outstanding, Northeast's voting common stock would be converted into shares of First Fidelity common stock, and the shares of Newco would be converted into shares of Northeast stock. Newco has no assets or operations, and was formed for the purpose of consummating this transaction.

First Fidelity also seeks the Board's approval to acquire up to 24.9 percent of Northeast's voting common stock pursuant to the exercise of a conditional stock option granted by Northeast to First Fidelity. The option is exercisable if Northeast receives an acquisition proposal from a third party, and in certain other circumstances

2. Santander currently holds approximately 16 percent of the outstanding voting shares of First Fidelity, and would hold approximately 19 percent of First Fidelity's voting shares upon consummation of this proposal. After consummation, Santander's ownership interest in First Fidelity could increase to approximately 24 percent upon exercise of all First Fidelity warrants held by Santander. Moreover, Santander representatives serve on the board of directors of First Fidelity, and Santander has proposed to provide certain management assistance to First Fidelity. See Banco de Santander, S.A. de Credito, 78 Federal Reserve Bulletin 72 (1992)

3. Asset data for First Fidelity and Northeast are as of December 31, 1992; state deposit and ranking data are as of September 30, 1992. First Fidelity also is the sixth largest commercial banking organization in Pennsylvania, controlling 6 percent of commercial bank deposits in the state, and the 45th largest commercial banking organization in New York, controlling less than 1 percent of commercial bank deposits in the state.

4. First Fidelity is in the process of merging all of its New Jersey banking operations into First Fidelity Bank, N.A., New Jersey, Newark, New Jersey, and all of its Pennsylvania banking operations into Fidelity Bank, N.A., Philadelphia, Pennsylvania. First Fidelity's sole New York bank subsidiary is First Fidelity Bank, N.A., New York, Bronx, New York.

world.5 In the United States, Santander operates a branch in New York, New York, and an agency and an Edge corporation in Miami, Florida. 6 Northeast, with total consolidated assets of approximately \$2.7 billion. is the third largest commercial banking organization in Connecticut, controlling 9.9 percent of commercial bank deposits in the state.

#### Douglas Amendment Analysis

Section 3(d) of the BHC Act, the Douglas Amendment, prohibits the Board from approving an application by a bank holding company to acquire, directly or indirectly, any voting shares of, or interest in, any bank located outside the state in which the operations of the bank holding company's bank subsidiaries are principally conducted ("home state"), unless the acquisition "is specifically authorized by the statute laws of the State in which such bank is located, by language to that effect and not merely by implication." For purposes of the Douglas Amendment, First Fidelity's home state is New Jersey.8

In order to approve these applications, the Board must determine that, under Connecticut law, a Connecticut bank and bank holding company may be acquired by an out-of-state bank holding company. The statute laws of Connecticut expressly authorize the acquisition of a bank located in Connecticut by an out-of-state domestic bank holding company, if the second state authorizes the acquisition of a bank in that state by a Connecticut bank holding company on a reciprocal basis.9 The interstate banking laws of New Jersey expressly authorize the acquisition of a bank on a reciprocal basis by a Connecticut bank

<sup>5.</sup> Asset and ranking data for Santander are as of December 31, 1991, and employ exchange rates then in effect.

<sup>6.</sup> Santander also controls Banco de Santander-Puerto Rico, S.A., Hato Rey, Puerto Rico, and Santander National Bank, Bayamon, Puerto Rico, and owns a minority, noncontrolling interest in The Royal Bank of Scotland Group plc, Edinburgh, Scotland, a bank holding company within the meaning of the BHC Act. See Banco de Santander, S.A. de Credito, 78 Federal Reserve Bulletin 60 (1992). 7. 12 U.S.C. § 1842(d).

<sup>8.</sup> 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>9.</sup> Under Connecticut's interstate banking statute, any out-of-state bank holding company may, with the approval of the Connecticut banking commissioner, acquire ownership or control of all or part of the voting stock of a Connecticut bank or bank holding company if the laws of the state in which the operations of the acquiring bank holding company's bank subsidiaries are principally conducted expressly authorize, under conditions no more restrictive than those imposed under Connecticut law, the acquisition by a Connecticut bank holding company of a bank or bank holding company having its principal place of business in that other state. Conn. Gen. Stat. Ann. § 36-553 (West Supp. 1992).

holding company. 10 The Banking Commissioner for the State of New Jersey has determined that Connecticut has reciprocal legislation in effect for purposes of New Jersey's interstate banking statute, and has advised First Fidelity that the New Jersey Department of Banking has no objection to the proposal. In applying the Douglas Amendment to Santander, the Board has considered, in addition to the New Jersey statute, the interstate banking laws of Rhode Island and New York, 11 which also provide for interstate banking on a reciprocal basis, and which contain provisions comparable to Connecticut's interstate banking law. 12

After careful review of the relevant statutes, and in light of all the facts of record, the Board has concluded that the proposed acquisition of Northeast is specifically authorized by Connecticut's interstate banking statute, and that the Board's approval of this proposal is therefore not prohibited by the Douglas Amendment. Approval of the proposed transaction is conditioned, however, upon the receipt by First Fidelity and Santander of all required state regulatory approvals.

Supervisory Considerations

Under section 3 of the BHC Act, as amended by the Foreign Bank Supervision Enhancement Act of 1991,13 the Board may not approve an application involving a foreign bank unless the bank is "subject to comprehensive supervision or regulation on a consolidated basis by the appropriate authorities in the bank's home country."14 The Board recently determined, in an application under the International Banking Act (12 U.S.C. § 3101 et seq.) ("IBA"), that another Spanish credit institution, Banco de Sabadell, S.A., Sabadell, Spain ("Banco de Sabadell"), was subject to comprehensive consolidated supervision by its home country authorities. 15 Santander has represented to the Board that it is subject to the same regulatory scheme applicable to Banco de Sabadell, and has furnished additional information regarding the authorities' ability to supervise and regulate the activities of Santander on a worldwide, consolidated basis. The Board has reviewed this information, as well as the information previously received as it may apply to Santander. Based on all the facts of record, which include the information described above, the Board has concluded that Santander is subject to comprehensive supervision and regulation on a consolidated basis by its home country supervisor.

In addition, Santander has committed that, to the extent not prohibited by applicable law, it will make available to the Board such information on the operations of Santander and any of its affiliates that the Board deems necessary to determine and enforce compliance with the BHC Act, the IBA, and other applicable federal law. Santander also has committed to cooperate with the Board to obtain any waivers or exemptions that may be necessary in order to enable Santander to make any such information available to the Board. In light of these commitments and other facts of record, <sup>16</sup> the Board has concluded that

<sup>10.</sup> Under New Jersey law, an out-of-state bank holding company may acquire control of a bank located in New Jersey if the acquiring bank holding company is located in a reciprocal state (i.e., a state which allows New Jersey bank holding companies to acquire banks or bank holding companies located in that state on terms and conditions substantially the same as those applicable to such an acquisition by banks and bank holding companies located in that state), and more than 50 percent of the total aggregate deposits controlled by the acquiring bank holding company's bank subsidiaries are held by bank subsidiaries located in reciprocal states. N.J. Stat. Ann. § 17:9A-371 (West Supp. 1992).

<sup>11.</sup> Santander is subject to the Douglas Amendment directly because it is a bank holding company within the meaning of the BHC Act, and indirectly because it is a foreign bank subject to the International Banking Act (12 U.S.C. § 3101 et seq.) ("IBA").

<sup>12.</sup> Under Rhode Island law, an out-of-state bank or bank holding company may acquire ownership or control of the voting stock of a Rhode Island bank or bank holding company if the laws of the state in which the acquiring bank is located, or the laws of the state in which the operations of the acquiring bank holding company's bank subsidiaries are principally conducted, expressly authorize, under conditions no more restrictive than those imposed under Rhode Island law, the acquisition by a Rhode Island bank or bank holding company of a bank located in that other state, or of a bank holding company the operations of whose bank subsidiaries are principally conducted in that other state. R.I. Gen. Laws § 19–30–2 (1989).

Under New York law, an out-of-state bank holding company may acquire control of a bank located in New York if the New York Superintendent of Banking determines that the statute laws of the state in which the operations of the out-of-state bank holding company's banking subsidiaries are principally conducted specifically authorize the acquisition of control of a bank in that state by a bank holding company the operations of whose banking subsidiaries are principally conducted in New York, and that the conditions or restrictions applicable to an interstate acquisition would apply with equal effect to an in-state acquisition. N.Y. Banking Law § 142-b (McKinney 1990). In connection with the processing of these applications, the Federal Reserve Bank of New York has been advised by the New York Banking Department that Connecticut's interstate banking law is non-discriminatory and reciprocal with New York's interstate banking law, and that New York law would not prevent a bank holding company, the operations of whose banking subsidiaries are principally conducted in Connecticut, from acquiring control of a bank having its principal office in New York.

<sup>13.</sup> Pub. L. No. 102-242, § 201 et seq. 105 Stat. 2286 (1991).

<sup>14. 12</sup> U.S.C. § 1842(c)(3)(B). As provided in Regulation Y, the Board determines whether a foreign bank is subject to consolidated home country supervision under the standards set forth in Regulation K. 12 C.F.R. 225.13(b)(4). Regulation K provides that a foreign bank may be considered subject to consolidated supervision if the Board determines that the bank is supervised or regulated in such a manner that its home country supervisor receives sufficient information on the worldwide operations of the foreign bank, including the relationship of the bank to its affiliates, to assess the foreign bank's overall financial condition and compliance with law and regulation. 12 C.F.R. 211.24(c)(1)(ii).

<sup>15,</sup> See Banco de Sabadell, S.A., 79 Federal Reserve Bulletin 366 (1993).

<sup>16.</sup> In this regard, the Board notes that it previously has reviewed relevant provisions of Spanish confidentiality, secrecy, and other laws. See Banco de Sabadell, S.A., 79 Federal Reserve Bulletin 366 (1993)

Santander has provided adequate assurances of access to any appropriate information the Board may request.

Competitive, Banking, and Convenience and Needs Considerations

Santander and Northeast compete directly in the Metropolitan New York-New Jersey banking market. 17 Upon consummation of this proposal, Santander would remain the fifth largest commercial banking or thrift organization in the market, controlling less than 5.5 percent of the total deposits in depository institutions in the market. 18 After considering the number of competitors remaining in this market, the relatively small increase in concentration as measured by the Herfindahl–Hirschman Index ("HHI"), 19 and other facts of record, the Board has concluded that consummation of this proposal would not have a significantly adverse effect on competition in the Metropolitan New York-New Jersey banking market or any other relevant banking market.

Considerations relating to the financial and managerial resources and future prospects of First Fidelity, Santander, Northeast, and their respective subsidiaries, as well as convenience and needs considerations and other supervisory factors the Board is required to consider under section 3 of the BHC Act, also are consistent with approval of these applications.<sup>20</sup>

Based on the foregoing and other facts of record, the Board has determined that the applications should be, and hereby are, approved. The Board's approval is specifically conditioned upon compliance with all of the commitments made by First Fidelity and Santander in connection with these applications and with the conditions referred to in this Order. For purposes of this action, the commitments and conditions relied on in reaching this decision shall be deemed to be conditions imposed in writing by the Board and, as such, may be enforced in proceedings under applicable law.

The transactions approved in this Order shall not be consummated before the thirtieth calendar day following the effective date of this Order, or later than three months after the effective date of this Order, unless such period is extended for good cause by the Federal Reserve Bank of Philadelphia or the Federal Reserve Bank of New York, acting pursuant to delegated authority.

By order of the Board of Governors, effective April 2, 1993.

Voting for this action: Chairman Greenspan and Governors Mullins, Angell, Kelley, LaWare, Lindsey, and Phillips.

BARBARA R. LOWREY
Associate Secretary of the Board

Intervest Bancshares Corporation New York, New York

Order Approving Formation of a Bank Holding Company

Intervest Bancshares Corporation, New York, New York ("Intervest"), has applied under section 3(a)(1) of the Bank Holding Company Act, 12 U.S.C. § 1842(a)(1) ("BHC Act"), to become a bank holding company by acquiring at least 69.6 percent of the voting shares of Countryside Bankers, Clearwater, Florida ("Bank").

Notice of the application, affording interested persons an opportunity to submit comments, has been published (58 Federal Register 11,056 (1993)). The time for filing comments has expired, and the Board has considered the application and all comments received in light of the factors set forth in section 3(c) of the BHC Act.

Intervest is a non-operating company formed for the purpose of acquiring Bank. Bank is the 149th largest commercial banking organization in Florida, controlling deposits of approximately \$23.2 million, repre-

<sup>17.</sup> The Metropolitan New York-New Jersey banking market is approximated by New York City; Nassau, Orange, Putnam, Rockland, Suffolk, Sullivan, and Westchester Counties in New York; Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, and Warren Counties in New Jersey; and portions of Fairfield County in Connecticut. Under the revised Department of Justice Merger Guidelines, 49 Federal Register 26,823 (1984), this market is considered unconcentrated.

<sup>18.</sup> For purposes of this analysis, deposits held by bank subsidiaries of First Fidelity are considered to be controlled by Santander. The Board previously has indicated that thrift institutions have become, or have the potential to become, major competitors of commercial banks. See Midwest Financial Group, 75 Federal Reserve Bulletin 386 (1989); National City Corporation, 70 Federal Reserve Bulletin 743 (1984). Thus, for purposes of this analysis, deposits of thrift institutions are included at 50 percent.

<sup>19.</sup> Upon consummation of this proposal, the HHI in the Metropolitan New York-New Jersey banking market would increase by 5 points to 560.

<sup>20.</sup> The Board notes that Santander's capital is in excess of the minimum levels that would be required by the Basle Accord, and is considered equivalent to the capital that would be required of a United States bank holding company.

The Board also has considered the records of performance under the Community Reinvestment Act (12 U.S.C. § 2901 et seq.) ("CRA") of the United States banks, branches, and agencies controlled by Santander. Although the Board has identified certain weaknesses in the CRA record of one of Santander's bank subsidiaries, these deficiencies are being addressed by Santander with the primary Federal regulator for this institution, the Office of the Comptroller of the Currency, and, in light of all the facts of record, do not reflect so adversely upon the convenience and needs considerations as to warrant denial of these applications.

senting less than 1 percent of total deposits in commercial banks in the state.1

Intervest and Bank do not compete directly in any banking market. Accordingly, based on all the facts of record in this case, consummation of this proposal would not have a significantly adverse effect on competition or the concentration of banking resources in any relevant banking market. The financial and managerial resources<sup>2</sup> and future prospects of Intervest and Bank, and other supervisory factors that the Board is required to consider under section 3 of the BHC Act are also consistent with approval of this proposal. In this regard, the Board notes that Intervest will provide substantial additional capital to Bank as a result of this proposal.

The Board has also considered factors relating to the convenience and needs of the communities to be served. The Board notes that Bank will be under new ownership as a result of this proposal and that Intervest will initiate a number of steps to improve substantially the performance of Bank under the Community Reinvestment Act, 12 U.S.C. § 2901 et seq. ("CRA"). These measures will address specific deficiencies identified in previous examinations of Bank's CRA performance record.3 In general, the Statement of the Federal Financial Supervisory Agencies Regarding the Community Reinvestment Act indicates that commitments for future corrective actions offered in the applications process will not be sufficient to overcome a seriously deficient CRA record.4 In this case, however, the inadequate CRA record does not reflect the actions of the proposed new owners, and they have committed to take steps to correct deficiencies in the CRA performance in a timely fashion. Intervest's progress will be monitored by the Federal Reserve Bank of Atlanta and reviewed by the Board in future applications to establish a depository facility.

1. State data are as of June 30, 1992.

In light of all the facts of record, including the CRA measures to be initiated, the Board believes that considerations relating to the convenience and needs of the community to be served are consistent with approval. The Board expects Intervest to implement corrective measures regarding Bank's CRA performance, and the Board's decision is specifically conditioned upon compliance with the CRA commitments and plans submitted by Intervest.

Based on the foregoing and other facts of record, the Board has determined that the application should be, and hereby is, approved. The Board's approval of this transaction is specifically conditioned upon compliance with all of commitments made by Intervest in connection with this application, including commitments and initiatives relating to Bank's CRA performance. For purposes of this action, the commitments and conditions relied upon by the Board in reaching its decision are both commitments 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 before the thirtieth calendar day following the effective date of this Order, or later than three months after the effective date of this Order, unless such period is extended for good cause by the Federal Reserve Bank of Atlanta, pursuant to delegated authority.

By order of the Board of Governors, effective April 26, 1993.

Voting for this action: Chairman Greenspan and Governors Angell, Kelley, LaWare, and Phillips. Absent and not voting: Governors Mullins and Lindsey.

JENNIFER J. JOHNSON Associate Secretary of the Board

Orders Issued Under Sections 3 and 4 of the Bank Holding Company Act

Mellon Bank Corporation Pittsburgh, Pennsylvania

Order Approving Acquisition of a Bank Holding Company, Formation of a Bank Holding Company, and Application to Engage in Nonbanking Activities

Mellon Bank Corporation, Pittsburgh, Pennsylvania ("Mellon"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), has applied under section 3(a)(3) of the BHC Act (12 U.S.C. § 1842(a)(3)) to acquire Boston Group Holdings, Inc., New York, New York ("BGH"), and thereby to acquire indirectly The Boston Company,

<sup>2.</sup> The Board has carefully reviewed comments from two individuals maintaining that Intervest's principals lack banking experience and familiarity with Bank's community. Intervest has responded that it plans to retain existing management of Bank, which has a substantial knowledge of the local community. In addition, the record indicates that Intervest's principals will be actively involved in ascertaining local credit needs. The Board expects that Bank will at all times be staffed with competent and experienced management, and notes that, for the next two years, Intervest and Bank will be subject to the requirements contained in section 914 of the Financial Institutions Reform, Recovery, and Enforcement Act of 1989, which provide that notice must be given to the appropriate federal banking agency prior to the addition or replacement of any senior executive officers of Intervest or Bank. Based on all the facts of record, the Board concludes that these comments do not warrant denial of Intervest's application.

These examinations were conducted by the Federal Reserve Bank of Atlanta as of May 1992 and March 1993.

<sup>4.</sup> See 54 Federal Register 13,742 (1989).

Boston, Massachusetts ("TBC"), a subsidiary of BGH, and Boston Safe Deposit & Trust Company, Boston, Massachusetts ("BSD&T"), a subsidiary of TBC.

Mellon also has applied under section 4(c)(8) of the BHC Act and section 225.23 of the Board's Regulation Y (12 C.F.R. 225.23) to acquire The Boston Company Advisors, Inc. ("TBC Advisors"), a subsidiary of BGH and TBC, and to engage through TBC Advisors in providing administrative and certain other services to mutual funds. This is an activity the Board has not previously considered under section 4(c)(8) of the BHC Act. In addition, Mellon has applied under section 4(c)(8) to acquire the other nonbanking subsidiaries of BGH listed in Appendix B to this Order and thereby engage in making and servicing loans; providing trust services; and providing investment advisory services pursuant to sections 225.25(b)(1), (b)(3), and (b)(4) of the Board's Regulation Y (12 C.F.R. 225.25(b)(1), (b)(3), and (b)(4)).

Mellon also has given notice pursuant to section 4(c)(13) of the BHC Act and section 211.5(c) of the Board's Regulation K (12 C.F.R. 211.5(c)) of its intent to acquire indirect control of Boston Safe Deposit and Trust Company (U.K.) Limited, London, England; Premier Unit Trust Administration Limited, London, England; and The Boston Company Advisors (Bermuda) Ltd., Hamilton, Bermuda. These companies engage in activities that are permissible under section 211.5(d) of Regulation K (12 C.F.R. 211.5(d)).

Notice of the applications, affording interested persons an opportunity to submit comments, has been published (57 Federal Register 62,346 (1992)). The time for filing comments has expired, and the Board has considered the applications and all comments received in light of the factors set forth in sections 3(c) and 4 of the BHC Act.

Mellon, with total consolidated assets of \$31.5 billion, operates subsidiary banks in Pennsylvania, Delaware, and Maryland.<sup>2</sup> BGH has total consolidated assets of \$8.7 billion and engages in providing institutional trust and custody services, institutional investment management services, and private banking services.

Douglas Amendment

Section 3(d) of the BHC Act, the Douglas Amendment, prohibits the Board from approving an application by a bank holding company to acquire any bank located outside of the bank holding company's home state, unless such acquisition is "specifically authorized by the statute laws of the State in which such bank is located, by language to that effect and not merely by implication." For purposes of the Douglas Amendment, Mellon's home state is Pennsylvania. The Massachusetts Banking Code expressly authorizes the acquisition of a Massachusetts bank by an out-of-state bank holding company if the laws of the state in which the subsidiary banks of the out-of-state bank holding company principally conduct business allow Massachusetts banking organizations to acquire banks in that state.4 The statute laws of Pennsylvania expressly authorize the acquisition of a banking institution or bank holding company located in Pennsylvania by a bank holding company located in another state, if that other state authorizes the acquisition of a financial institution on a reciprocal basis by a Pennsylvania bank holding company. 5 Based on all the facts of record, the Board concludes that approval of this proposal is not prohibited by the Douglas Amendment.6

Financial, Managerial, and Other Supervisory Factors

The Board also concludes that the financial and managerial resources and future prospects of Mellon and BGH and their respective subsidiaries, and the other supervisory factors that the Board must consider under section 3 of the BHC Act, are consistent with approval. The competitive factors under section 3 are also consistent with approval.

Convenience and Needs Factors

The Board has received comments from organizations supporting approval of these applications based on Mellon's record of performance under the Community

<sup>1.</sup> BSD&T became a bank for purposes of the BHC Act upon enactment of the Competitive Equality in Banking Act of 1987 ("CEBA"), but its ownership by BGH and TBC was grandfathered under section 101(c) of CEBA. Upon consummation of this transaction, TBC and BGH will become subject to the provisions of the BHC Act, and each has applied under section 3(a)(1) of the BHC Act to become a bank holding company. Mellon would purchase BGH from Shearson Lehman Brothers ("Shearson"), a subsidiary of American Express. As part of this transaction, Shearson will also acquire stock and warrants to acquire stock of Mellon.

<sup>2.</sup> Asset and state banking data are as of December 31, 1992, and June 30, 1992, respectively.

<sup>3. 12</sup> U.S.C. § 1842(d).

<sup>4.</sup> Mass. Gen. Laws Ann. ch. 167A, § 2. The Massachusetts statute also conditions entry on the requirement that the out-of-state bank holding company not hold more than 15 percent of the total deposits, exclusive of foreign deposits, held by all state and federally chartered banks in the commonwealth and Massachusetts branches of banks existing by authority of a foreign country. Upon consummation of this transaction, Mellon would hold approximately 7.4 percent of the banking deposits in Massachusetts.

<sup>5.</sup> Pa. Stat. Ann. tit. 7, § 116 (Purdon 1992).

<sup>6.</sup> Approval of this proposal is conditioned upon Mellon's receiving all required state regulatory approvals.

Reinvestment Act (12 U.S.C. § 2901 et seq.) ("CRA"), and from an individual ("Protestant") criticizing the CRA performance of Mellon and accusing Mellon of discriminating against residents of low-income areas of North Philadelphia in the provision of banking services, including housing-related loans.

The Board has carefully reviewed the CRA performance records of Mellon and TBC and their subsidiary banks, as well as all comments received regarding these applications, including Mellon's response to those comments, and all of the other relevant facts of record in light of the CRA, the Board's regulations, and the Statement of the Federal Financial Supervisory Agencies Regarding the Community Reinvestment Act ("Agency CRA Statement").7 The Board notes that all of Mellon's subsidiary banks have been examined for CRA performance and have received "outstanding" or "satisfactory" ratings during their most recent CRA examinations. In particular, Mellon's lead subsidiary bank, Mellon Bank, N.A., Pittsburgh, Pennsylvania ("Mellon Bank"), received a "satisfactory" rating for CRA performance from the Office of the Comptroller of the Currency ("OCC") in July 1991. The Board further notes that this CRA examination of Mellon Bank found no evidence of practices intended to discourage applications for credit and no evidence of the types of illegal discrimination alleged by Protestant.8 On the basis of all of the facts of record, including information provided by the Protestant, the OCC, and the other commenters supporting Mellon's CRA performance, the Board concludes that the convenience and needs considerations, including the CRA performance records of all bank subsidiaries, are consistent with approval of these applications.

Nonbanking Activities Serving as Administrator to Mutual Funds

One of the nonbanking companies Mellon will indirectly acquire, TBC Advisors, engages in a variety of activities with mutual funds that have not been previously approved by the Board. TBC Advisors currently provides a number of administrative and advisory services to 84 different open-end investment companies ("mutual funds") and 14 different closed-end

investment companies in the United States.<sup>9</sup> Over 95 percent of TBC Advisors's business represents the provision of administrative services to funds that are advised by other unaffiliated companies. Mellon proposes to continue to provide these services through TBC Advisors.

The administrative services provided to mutual funds and closed-end funds by TBC Advisors include computing the fund's net asset value and performance data, coordinating communications and activities between the investment advisor and the other service providers, accounting and recordkeeping, disbursing payments for fund expenses, providing office space for the funds, and preparing and filing tax and regulatory reports for the funds. In connection with these administrative services, TBC Advisors often provides employees that become officers or directors of the funds. TBC Advisors also provides investment advisory services in combination with administrative services to a small group of funds. <sup>10</sup>

#### I. Glass-Steagall Act

The administrative services that Mellon proposes to provide through TBC Advisors and its affiliates raise a number of issues under the Glass-Steagall Act. Under the Glass-Steagall Act, a company that owns a member bank may not control "through stock ownership or in any other manner" a company that engages principally in distributing, underwriting or issuing securities.<sup>11</sup>

In 1972, the Board issued an interpretive rule that explained the Board's view that the provisions of the Glass-Steagall Act govern the relationship between mutual funds and companies that own member banks because mutual funds engage continuously in issuing and redeeming securities. <sup>12</sup> The Board found that the Glass-Steagall Act prohibited affiliates of banks from sponsoring, organizing, or controlling mutual funds <sup>13</sup> or distributing their shares.

<sup>7. 54</sup> Federal Register 13,742 (1989).

<sup>8.</sup> Protestant also criticizes Mellon's failure to provide a specific loan to Protestant that was intended by Protestant to be part of a program to create housing and jobs in black and Hispanic low- and moderate-income sections of Philadelphia. Protestant has raised many of these claims in a lawsuit filed in federal court. The district court for the Eastern District of Pennsylvania sustained Mellon's motion to dismiss Protestant's lawsuit, and Protestant has appealed the court's decision. The Board believes that the courts will afford an adequate remedy to Protestant if one is warranted.

<sup>9.</sup> All of these investment companies are registered under the Investment Company Act of 1940 (15 U.S.C. § 80a-1 et seq.).

<sup>10.</sup> In addition, BSD&T often serves as custodian to a mutual fund and might serve as custodian in cases where TBC Advisors is the mutual fund's administrator or advisor. A complete list of the proposed administrative services is attached as Appendix A.

<sup>11. 12</sup> U.S.C. §§ 221a, 377.

<sup>12. 12</sup> C.F.R. 225.125.

<sup>13.</sup> The Board found, on the other hand, that the prohibitions of the Glass-Steagall Act did not apply to closed-end funds as long as the closed-end fund was not engaged frequently in the issuance, sale or distribution of securities. On this basis, the Board has by regulation authorized bank holding companies to sponsor, organize, and manage closed-end funds. 12 C.F.R. 225.25(b)(4)(ii). A closed-end fund that is controlled by a bank holding company must conform its activities and investments to the requirements of section 4 of the BHC Act. Mellon has committed that if it sponsors, organizes, or controls any closed-end fund Mellon will limit any such fund's investments to less than 5 percent of the voting shares of any issuer.

The Board also found, however, that the Glass-Steagall Act does not prohibit all relationships between a bank holding company and a mutual fund. In particular, the Board determined that it was permissible under the BHC Act and the Glass-Steagall Act for bank holding companies to provide investment advice to mutual funds. In addition, the Board found that the Glass-Steagall Act did not prohibit bank holding companies from providing certain other services to mutual funds, such as acting as custodian, transfer agent, or registrar. The Board imposed a number of restrictions on the relationship between bank holding companies and mutual funds in order to avoid conflicts of interest and to address potential safety and soundness concerns.14

Thus, banks and affiliates of banks may currently perform four of the six major services needed by a mutual fund: they may serve as investment advisor, transfer agent, custodian, and registrar. They may not act as distributor to the fund. This application raises the question whether it is consistent with the Glass-Steagall Act for an affiliate of a member bank to act as administrator to a mutual fund.

#### Permissibility of Proposed Activities

Mellon has recognized that certain of the current activities of TBC Advisors and its affiliates are prohibited by the Glass-Steagall Act, and has taken steps to discontinue these activities. For example, Mellon proposes to terminate the role of TBC Advisors as a sponsor of new mutual funds. In addition, Mellon will not acquire the subsidiaries of TBC that engage in the distribution of mutual fund shares. 15 At this time,

Mellon does not propose to provide administrative services to mutual funds that are marketed and sold primarily to customers of BSD&T or any of Mellon's other subsidiary banks.

The Board believes that Mellon's proposal to provide the administrative services described in Appendix A to mutual funds is permissible under the Glass-Steagall Act. A mutual fund administrator provides services that are primarily ministerial or clerical in nature, and does not have policy-making authority or control over the mutual fund.16 The policy-making functions rest with the board of directors of the fund, which is responsible for the selection and review of the major contractors to the fund, including the investment advisor, and under certain circumstances, the administrator. The Investment Company Act of 1940 (the "1940 Act") requires that these contracts be reviewed at least annually by the board of directors of the mutual fund, and that these contracts be terminable by the board of directors on no more than 60 days written notice. 17 In addition, the 1940 Act requires that at least 40 percent of the board of directors of a mutual fund be comprised of disinterested individuals who are not affiliated with the investment advisor, with any person that the SEC has determined to have a material business or professional relationship with the fund, with any employee or officer of the fund, with any registered broker or dealer, or with any other interested or affiliated person. 18 These unaffiliated board members must approve the fund's contracts with its investment advisor, underwriter, and often its administrator. Mellon has committed that, following its acquisition, TBC Advisors will provide administrative services only to mutual funds whose boards of directors consist of a majority of disinterested persons.

<sup>14.</sup> The Board's rule includes restrictions that prevent a bank holding company or any of its subsidiaries from:

<sup>(1)</sup> Acting as investment advisor to an investment company that has a name similar to the holding company or any of its subsidiary banks.

<sup>(2)</sup> Purchasing for its own account shares of any investment company for which the holding company serves as investment advisor.

<sup>(3)</sup> Purchasing in its sole discretion in a fiduciary capacity shares of an investment company advised by the holding company

<sup>(4)</sup> Extending credit to an investment company advised by the holding company,

<sup>(5)</sup> Accepting shares of an investment company advised by the holding company as collateral for a loan used to purchase shares of the investment company.

In addition, the rule requires that, in cases in which a customer purchases or sells securities of the fund through the holding company or is advised by the holding company to purchase shares of the fund, the customer be informed in writing of the involvement of the holding company with the fund, and be informed that the shares of the fund are not federally insured, and are not guaranteed by, or obligations of, a bank.

<sup>15.</sup> Mellon will not be involved in the distribution of the shares of any mutual fund. Mellon has represented to the Board that following the acquisition of BGH by Mellon, neither TBC Advisors nor any of its affiliates would be obligated by any agreement to engage in any

sales activities with regard to any mutual fund's shares, and would not into enter any distribution agreement with any mutual fund unless permitted to do so by a change in current law. TBC Advisors will not engage in the development of marketing plans except to give advice to the distributor regarding regulatory compliance. Mellon has also represented to the Board that TBC Advisors will not engage in advertising activities with respect to the funds and will not be involved in the preparation of a fund's sales literature, except to review such sales literature for the sole purpose of ensuring compliance with all pertinent regulatory requirements. Employees of TBC Advisors would present information about the operations of a fund at meetings or seminars for brokers of a fund, but sales activities, if any, at such events would be conducted solely by the fund's distributer.

<sup>16.</sup> The administrator is usually compensated according to a formula that is dependent on the amount of assets in the fund, rather than on a negotiated fee basis. This formula for compensation would not appear to create the subtle hazards at which the Glass-Steagall Act was aimed that are associated with having a salesman's stake in the fund. The administrator is not involved in the promotion or sale of the fund's shares, and is charged with completing largely ministerial duties that do not require or involve contact with the public in a promotional or sales role.

<sup>17. 15</sup> U.S.C. § 80a-15. 18. 15 U.S.C. §§ 80a-2, 80a-10.

Mellon also proposes, in situations in which Mellon subsidiaries serve as administrator to a mutual fund, to permit one representative of the administrator to serve as a director of the fund. Mellon contends that an interlocking director would facilitate its provision of administrative services to the fund. 19 A director interlock provides the fund with an individual who is knowledgeable in the operation of the fund and can directly advise the board of directors on administration.

Mellon proposes to have a director interlock only in situations in which a company unaffiliated with Mellon serves as the investment advisor to the mutual fund. This unaffiliated investment advisor would be an independent and countervailing source of information to the fund's board of directors. Moreover, Mellon has represented that, where TBC Advisors serves as the administrator to a mutual fund, this interlocking director would be deemed to be an interested person and would be excluded from actions that must be taken by the disinterested board members, such as approval of the investment advisory contract and of the administrator's contract. As discussed above, Mellon has also committed that it will only serve as administrator to mutual funds for which a majority of the board of directors are disinterested individuals. Thus, there are a number of counterbalancing parties and significant limits on the participation of the administrator's representative on the fund's board of directors. Under these circumstances, the Board believes that Mellon would not control a mutual fund if one employee of TBC Advisors or an affiliate20 also serves as a director of a mutual fund to which TBC Advisors provides administrative services.21

Mellon also proposes in a small number of cases to provide mutual funds with a combination of administrative, investment advisory, and other services.<sup>22</sup> The Board notes that the OCC has expressly permitted national banks that serve as investment advisor to mutual funds also to provide some administrative services to those mutual funds, such as maintaining records on shareholder accounts, posting and reinvesting dividends in accordance with customer instructions, preparing periodic statements of account, and transferring and receiving money by wire.<sup>23</sup> In addition, a number of national banks are already providing these and other services as "sub-administrator" to mutual funds that are advised by the bank or an affiliate.<sup>24</sup>

As explained above, the Board has already determined that bank holding companies may serve as the investment advisor to mutual funds, and, therefore, that a bank holding company that serves as investment advisor to a mutual fund does not control the fund for purposes of the Glass-Steagall Act. In the Board's opinion, permitting a bank holding company that serves as the investment advisor to a mutual fund also to provide the essentially ministerial or supporting functions as administrator to that fund would not significantly increase the ability of the bank holding company to control the mutual fund. TBC Advisors would not, by virtue of becoming administrator to a fund that it or an affiliate advises, become involved in policy-making functions of these funds to a greater extent than when TBC Advisors provides solely investment advisory services.

The Board believes that control of the fund would continue to rest with the board of directors of the fund, which would be independent of TBC Advisors.<sup>25</sup> In

<sup>19.</sup> Mellon also proposes that employees of TBC Advisors be permitted to serve as junior officers (i.e., in positions no higher than treasurer, secretary of the board, or vice president) or employees of mutual funds administered by TBC Advisors. The duties of these lower level officers include preparing agendas and minutes of board meetings, drafting routine correspondence, signing regulatory filings, and supervising and reviewing accounting and recordkeeping for the fund. These individuals have no policy-making authority, though they may have authority to make routine operational decisions, such as authorizing the purchase of supplies and the employment of clerical staff. This proposal would not change the ministerial nature of Mellon's role as administrator provided that these employees are not responsible for, or involved in making recommendations regarding, policy-making functions.

<sup>20.</sup> This director could not serve as an officer, director, or employee of Mellon, Mellon Bank, or any subsidiary bank or bank holding company of Mellon.

<sup>21.</sup> In a small number of cases, TBC Advisors currently owns shares in certain mutual funds that it administers. Mellon has proposed to retain its ownership interest in funds that it currently administers, but, within two years, to reduce that ownership interest to below 5 percent of each fund's shares. Mellon proposes to discontinue the practice of providing seed capital to new mutual funds that it hopes to administer, although Mellon has requested that it be permitted to purchase up to 5 percent of any fund to which it provides only administrative services. The Board believes that Mellon's proposal to purchase up to

<sup>5</sup> percent of any fund to which it provides administrative services (but not investment advisory services) would not significantly increase Mellon's ability to exercise control over the fund for purposes of the Glass-Steagall Act. However, the Board conditions its determination on the requirement that Mellon's ownership of the fund not be used in any way in marketing or selling the shares of the fund.

<sup>22.</sup> This proposal does not involve providing both administrative and investment advisory services to so-called proprietary mutual funds that are sold primarily to customers of subsidiary banks of Mellon.

<sup>23.</sup> See, e.g., Letter dated January 14, 1985, from Legal Advisory Services Division, Office of the Comptroller of the Currency. See also Letter dated January 13, 1993, from Director for Bank Supervision and Analysis, Western District Office, Office of the Comptroller of the Currency (proposal by a national bank to invest in a partnership that provides investment advisory and a wide range of administrative services to mutual funds).

<sup>24.</sup> These activities appear to involve primarily recordkeeping and accounting activities, participation in the preparation of documents needed to comply with regulatory requirements, preparation of documents in connection with shareholder meetings or board of directors meetings, and the provision of clerical support.

<sup>25.</sup> When administrative services are provided together with advisory services, Mellon represents that directors who are not considered interested persons of the investment advisor must also review and

this regard, Mellon has committed that it will not have any director or officer interlocks with mutual funds to which Mellon provides both advisory and administrative services. <sup>26</sup> Moreover, as noted above, Mellon would provide administrative services only to mutual funds in which at least a majority of the board of directors are comprised of disinterested individuals.

In providing this combination of services, Mellon and TBC Advisors would also be subject to the restrictions set forth in the Board's interpretive rule on investment advisory activities (12 C.F.R. 225.125).<sup>27</sup> The Board's rule requires any bank holding company that acts as agent in the purchase or sale of shares of an investment company advised by a holding company affiliate, or that recommends the purchase or sale of such shares to any customer, to disclose to the customer in writing the role of the bank holding company and its affiliates with the investment company. In addition, the bank holding company must disclose in writing that the shares of the investment company are not federally insured, are not deposits, and are not obligations of, or guaranteed by, any bank.

The interpretive rule also provides that an investment company advised by a bank holding company not have a name that is similar to, or a variation of, the name of any bank holding company or any of its subsidiary banks.<sup>28</sup> In addition, the Board's rule prohibits a bank holding company from owning shares of any mutual fund that it advises, from purchasing in a fiduciary capacity in its sole discretion shares of these mutual funds, and from lending to any such fund or accepting shares of such funds as collateral for any loan for the purpose of acquiring shares of the fund. Mellon must conform the activities of TBC Advisors and its affiliates with mutual funds to the Board's rule within two years of the date of this Order.

On this basis, and subject to the commitments made by Mellon and compliance with the Board's interpretive rule, the Board believes that Mellon's proposal to provide both investment advisory and administrative services to mutual funds is not prohibited by the Glass-Steagall Act.

approve the administrator's contract. The directors of an investment company may also terminate these contracts on 60 days notice.

#### II. Bank Holding Company Act

The Board has previously determined by regulation that a bank holding company may act as investment advisor to a mutual fund.<sup>29</sup> However, the Board has not determined whether acting as the administrator for a mutual fund meets the requirements of section 4(c)(8) of the BHC Act. Under section 4(c)(8) of the BHC Act, a nonbanking activity is permissible if it is closely related to banking and a proper incident thereto.

Under Board and court precedent, an activity is closely related to banking for purposes of section 4(c)(8) if banks generally:

- (1) Conduct the proposed activity;
- (2) Provide services that are operationally or functionally so similar to the proposed activity as to equip them particularly well to provide the proposed services; or
- (3) Provide services that are so integrally related to the proposed service as to require their provision in a specialized form.<sup>30</sup>

The proposed administrative services consist of, among other things, maintaining the financial and corporate records of a mutual fund; computing the net asset value, dividends, and performance data regarding the fund; providing information about the fund to the fund's board of directors, outside auditors, and distributor; coordinating the activities of the fund's other service providers; preparing regulatory filings such as tax returns and SEC registration statements; and reviewing the activities of other service providers for regulatory compliance.<sup>31</sup>

A number of national banks currently provide some types of administrative services to mutual funds.<sup>32</sup> Banks also provide similar recordkeeping and accounting functions in connection with products such as individual retirement accounts. National bank trust departments also perform administrative services for collective investment funds, trust accounts, and employee benefit plans that are operationally and functionally similar to those that a mutual fund requires.<sup>33</sup>

<sup>26.</sup> Mellon has proposed in these situations to provide a limited number of employees who may serve as non-officer employees of the mutual fund. These employees will help in administration of the funds. These employees will not have any policy-making or decision-making authority, and will be supervised by independent officers and the board of directors. The Board believes that these limited employee interlocks, under the conditions described in this Order, would not permit Mellon to control the fund.

<sup>27.</sup> These and certain other provisions of the Board's rule also apply to Mellon's proposed involvement with closed-end investment companies that it proposes to advise.

<sup>28. 12</sup> C.F.R. 225.125(f).

<sup>29. 12</sup> C.F.R. 225.25(b)(4).

<sup>30.</sup> See National Courier Association v. Board of Governors, 516 F.2d 1229, 1237 (D.C. Cir. 1975). The Board may also consider any other factor than an applicant may advance to demonstrate a reasonable or close connection or relationship to banking. 49 Federal Register 794, 806 (1984); Securities Industry Ass'n v. Board of Governors, 468 U.S. 207, 210-11 n.5 (1984).

<sup>31.</sup> See Appendix A for a complete list of administrative services.
32. See Letter dated January 13, 1993, from Director for Bank

<sup>32.</sup> See Letter dated January 13, 1993, from Director for Bank Supervision and Analysis, Western District Office, Office of the Comptroller of the Currency.

<sup>33.</sup> See 12 C.F.R. Part 9.

The Board also has permitted bank holding companies to provide certain individual services provided by a mutual fund administrator, including financial data processing services (such as calculation of investment values and tax consulting services).34

For these reasons the Board finds that Mellon's engaging in the proposed activities is closely related to banking, and, therefore, a permissible activity for bank holding companies to provide under section 4(c)(8) of the BHC Act.<sup>35</sup> As discussed above, the provision of administrative services within certain parameters is not likely to result in the types of subtle hazards at which the Glass-Steagall Act is aimed or any other adverse effects. For the same reasons, the Board finds that the public benefits of engaging in the proposed administrative activities outweigh the likely adverse effects and, therefore, that the activities are a proper incident to banking for purposes of section 4(c)(8) of the BHC Act.

Based on all the facts of record, including all of the commitments and representations made by Mellon in this case, and subject to all of the terms and conditions set forth in this Order, the Board has determined that the applications should be, and hereby are, approved.<sup>36</sup> The Board's determination is subject to all of the conditions set forth in the Board's Regulation Y, including those in sections 225.4(d) and 225.23(b), 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 assure compliance with, and to prevent evasion of, the provisions of the BHC Act and the Board's regulations and orders issued thereunder. The Board's decision is specifically conditioned on compliance with all of the commitments and representations made in these applications, including the commitments and conditions discussed in this Order. The commitments, representations, and conditions relied on in reaching this decision shall be deemed to be conditions imposed in writing by the Board in connection with its findings and decision and may be enforced in proceedings under applicable law.

This transaction shall not be consummated before the thirtieth calendar day following the effective date of this 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 Cleveland, acting pursuant to delegated authority.

By order of the Board of Governors, effective April 21, 1993.

Voting for this action: Chairman Greenspan and Governors Kelley, Lindsey, and Phillips. Voting for this action subject to conditions: Governors Angell and LaWare. Absent and not voting: Governor Mullins.

> JENNIFER J. JOHNSON Associate Secretary of the Board

#### Appendix A

#### List of Administrative Services

- (1) Maintaining and preserving the records of the fund, including financial and corporate records;
- (2) Computing net asset value, dividends, performance data and financial information regarding the fund;
- (3) Furnishing statistical and research data;
- (4) Preparing and filing with the SEC and state securities regulators registration statements, notices, reports and other material required to be filed under applicable laws;
- (5) Preparing reports and other informational materials regarding the fund including proxies and other shareholder communications and reviewing prospectuses;
- (6) Providing legal and regulatory advice to the fund in connection with its other administrative functions;
- (7) Providing office facilities and clerical support for the fund;
- (8) Developing and implementing procedures for monitoring compliance with regulatory requirements and compliance with the fund's investment objectives, policies, and restrictions as established by the fund's board:
- (9) Providing routine fund accounting services and liaison with outside auditors;
- (10) Preparing and filing tax returns;
- (11) Reviewing and arranging for payment of fund expenses;
- (12) Providing communication and coordination services with regard to the fund's investment advisor, transfer agent, custodian, distributor and other service

<sup>34. 12</sup> C.F.R. 225.25(b)(7) and (b)(21).

<sup>35.</sup> In determining whether an activity is a proper incident to banking, the Board must consider whether the activity "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.

The record does not indicate that the proposal would result in adverse effects such as undue concentration of resources, decreased or unfair competition, conflicts of interest, or unsound banking practices. In addition, the proposed activity should benefit from the operational support that Mellon is able to provide which will create greater convenience for TBC's mutual fund clients.

<sup>36.</sup> The Board has also considered Mellon's proposal to acquire Boston Safe Deposit and Trust Company (U.K.) Limited, Premier Unit Trust Administration Limited, and The Boston Company Advisors (Bermuda) Ltd., the foreign subsidiaries of TBC. After consideration of all the factors specified in Regulation K and based on all of the facts of record, the Board has determined that disapproval of these proposed investments is not warranted.

organizations that render recordkeeping or share-holder communication services;

- (13) Reviewing and providing advice to the distributor, the fund and investment advisor regarding sales literature and marketing plans to assure regulatory compliance;
- (14) Providing information to the distributor's personnel concerning fund performance and administration;
- (15) Participation in seminars, meetings, and conferences designed to present information to brokers and investment companies, but not in connection with the sale of shares of the funds to the public, concerning the operations of the funds, including administrative services provided by Mellon to the funds;
- (16) Assisting existing funds in the development of additional portfolios; and
- (17) Providing reports to the fund's board with regard to its activities.

#### Appendix B

#### Nonbanking Companies to be Acquired

- (1) The Boston Finance Company, Boston, Massachusetts, which would engage in making and servicing loans pursuant to section 225.25(b)(1) of the Board's Regulation Y;
- (2) Boston Safe Deposit and Trust Company of California, Los Angeles, California; and
- (3) Boston Safe Deposit and Trust Company of New York, New York, New York, which would provide trust services pursuant to section 225.25(b)(3) of the Board's Regulation Y;
- (4) The Boston Company Institutional Investors, Inc., Boston, Massachusetts;
- (5) The Boston Company of Southern California, Los Angeles, California;
- (6) Boston Hambro Corp., New York, New York;
- (7) The Boston Company Financial Strategies Group, Inc., Boston, Massachusetts;
- (8) The Boston Company Financial Strategies, Inc., Boston Massachusetts;
- (9) The Boston Company Income Securities Advisors, Inc., Boston, Massachusetts; and
- (10) The Boston Company Energy Advisors, Inc., Boston, Massachusetts; which would provide investment advisory services pursuant to section 225.25(b)(4) of the Board's Regulation Y;
- (11) The Boston Company Real Estate Counsel Inc., Boston, Massachusetts, which would provide trust services and investment advisory services pursuant to sections 225.25(b)(3) and (4) of the Board's Regulation Y.

Concurring Statement of Governors Angell and LaWare

We concur in the Board's decision that the administrative services that Applicant proposes to provide to mutual funds in this case are permissible under the Glass-Steagall Act and the Bank Holding Company Act. Banks have been providing investment advisory services and at least some administrative services to mutual funds for some time.

However, we believe that an administrator to a mutual fund should not be permitted to have representation on the board of directors of any mutual fund that it administers. We are concerned that this representation would permit the administrator to have direct input into, and participation in, the policy-making decisions of the board of directors, and creates the potential for exercise of control over the fund. We have similar concerns regarding Applicant's proposal to own shares of mutual funds that it administers.

Accordingly, while we agree with the majority that the proposal to provide administrative services to mutual funds either alone or in combination with investment advisory services, is consistent with the Glass-Steagall Act, we would condition approval of this application on a requirement that the Applicant not have any director interlocks with, or own any shares of, any mutual fund for which Applicant is the administrator.

April 21, 1993

Orders Issued Under Federal Reserve Act

Texas State Bank McAllen, Texas

Order Approving the Establishment of a Branch

Texas State Bank, McAllen, Texas ("Bank"), a state member bank, has applied pursuant to section 9 of the Federal Reserve Act (12 U.S.C. § 321 et seq.) to establish a branch office at 900 East Jackson Avenue, McAllen, Texas.

Notice of the application, affording interested persons an opportunity to submit comments, has been published. The time for filing comments has expired, and the Board has considered the application and all comments received in light of the factors set forth in section 9 of the Federal Reserve Act.

Bank is a subsidiary of Texas Regional Bancshares, Inc., McAllen, Texas ("Texas Regional"). Bank, with approximately \$375.1 million in deposits, has three

offices located throughout McAllen, Texas. This proposal would increase to five the number of offices that Bank would operate in Hidalgo County, Texas.

In considering an application by a state member bank to establish an additional branch, the Board is required to consider the convenience and needs of the community to be served and to take into account the institution's record of performance under the Community Reinvestment Act ("CRA").2 The CRA requires the federal financial supervisory agencies to encourage financial institutions to help meet the credit needs of the local communities in which they operate consistent with the safe and sound operation of such institutions. To accomplish this end, the CRA requires the appropriate federal supervisory authority to "assess the institution's record of meeting the credit needs of its entire community, including low- and moderateincome neighborhoods, consistent with the safe and sound operations of such institution," and to take that record into account in its evaluation of applications for deposit facilities.

In connection with this application, the Board has received comments in support of the proposal from an individual and the Lower Rio Grande Valley District Office of the Small Business Administration ("SBA District Office"). In particular, the SBA District Office noted Bank's expanded participation with the SBA to increase aid to the small business community. The Board also has received comments from an individual ("Protestant") alleging that the proposed branch would not be located in a low- and moderate-income area and that Bank is not meeting the credit needs of the Hispanic community in McAllen, Texas.<sup>3</sup>

The Board has carefully reviewed the CRA performance record of Bank, as well as the comments received, and all the other relevant facts of record, in light of the Statement of the Federal Financial Supervisory Agencies regarding the Community Reinvestment Act ("Agency CRA Statement").4 The Board also notes that Protestant raised similar allegations relating to Bank's record of performance under the CRA in connection with the Board's approval last year of the applications by Texas Regional and Bank to

acquire certain banking institutions. 5 Protestant's allegations were reviewed extensively at that time.

#### Record of Performance Under the CRA

#### A. CRA Performance Examination

The Agency CRA Statement provides that a CRA examination is an important, and often controlling, factor in the consideration of an institution's CRA record and that these reports will be given great weight in the application process.<sup>6</sup> Bank received an overall "satisfactory" rating in the examination of its CRA performance conducted by the Federal Reserve Bank of Dallas ("Reserve Bank") as of July 22, 1991 (the "1991 Examination"). In addition, the Reserve Bank recently completed another examination of Bank's CRA performance and has preliminarily concluded that Bank's record of performance remains "satisfactory" (the "1993 Examination").

#### B. Aspects of CRA Performance

Policies and Programs. The Board previously concluded in the Texas Regional Order that Bank has in place the types of programs designed to assist the bank in meeting the credit needs of its entire community, including low- and moderate-income neighborhoods. For example, Bank has appointed a senior official as its CRA officer. In addition, the CRA program in place at Bank includes a compliance committee that meets every two months. The records of this committee indicate that it actively monitors Bank's consumer compliance and CRA program.

Ascertainment and Marketing. The 1993 Examination found that Bank is adequately assessing the needs of its local community. Since the 1991 Examination, Bank has been involved with more than 180 community and civic organizations in order to ascertain the needs of its community. Bank also uses radio, television, and newspaper advertisements, and its loan-todeposit ratio reflects a demand for its products. In addition, Bank has placed brochures printed in both Spanish and English in the lobbies of each of its offices as of year-end 1992. The brochure solicits comments about credit needs, services and deposit needs. In the Texas Regional Order, the Board noted that Bank could improve the documentation of its ascertainment and marketing efforts, and the 1993 Examination found that Bank had increased its marketing efforts in 1992.

<sup>1.</sup> Deposit data are as of December 31, 1992.

<sup>2.</sup> See e.g., First American Bank-Ann Arbor, 78 Federal Reserve Bulletin 450 (1992); see also 12 U.S.C. §§ 321, 2902(3)(c), 2903(2); 12 C.F.R. 208.5.

<sup>3.</sup> Protestant also states that more Hispanics should be employed or serve in decision making positions at Bank and in the community in general. Although the Board fully supports programs designed to promote equal opportunity in every aspect of a bank's personnel policies and practices in the employment, development, advancement, and treatment of employees, the Board believes that the alleged deficiencies in Bank's general personnel and employment practices are beyond the scope of the factors that the Board may properly consider under the CRA or the convenience and needs factor.

<sup>4. 54</sup> Federal Register 13,742 (1989).

<sup>5.</sup> Texas Regional Bancshares, Inc., 78 Federal Reserve Bulletin 289 (1992) (the "Texas Regional Order").

<sup>6. 54</sup> Federal Register at 13,745.

Community Development and Lending Activities. In the Texas Regional Order, the Board also found that Bank actively participates in projects that support community development activities. In this regard, the chairman of Bank's board of directors serves as the president of McAllen Affordable Homes ("MAH"), a corporation that provides funds for the development of subdivisions for first time home buyers with low- to moderate-incomes. Financing is provided at favorable interest rates and is funded by Community Development Building Grants, City of McAllen funds, and loans from local banks including Bank. Moreover, Bank's executive vice president in charge of lending serves as president of Ronco Enterprises, Inc., a corporation that engages in real estate development of low-income, single family housing, provides counseling to individuals on how to qualify for a mortgage, and provides assistance in avoiding default. Bank also has purchased loans from the Harlingen Community Development Corporation that were made to borrowers in low- and moderate- income areas. In addition, Bank expanded the terms of its unsecured lending program from 18 to 24 months because of demand for such loans. There is no minimum loan amount, and Bank has reduced certain qualifying ratios for the loans. Bank also has been involved with the Weslaco Development Committee, which provides assistance in increasing business development and employment opportunities.

With respect to small business lending, Bank continues to participate in government-guaranteed lending programs, such as those of the Small Business Administration ("SBA"). Since the 1991 Examination, Bank has become a certified SBA lender, and is the only certified SBA lender in the community. Since July 1991, SBA loans have increased from \$783,000 to approximately \$5 million. This year, Bank also conducted a Small Business Development Workshop with the SBA and other community organizations that was attended by a number of small business owners.<sup>7</sup>

Location of Branch. Bank's proposed branch will be located in the southern area of McAllen on a major thoroughfare that is near four low- and moderate-income census tracts and will offer a full range of banking services. This area is newly developed and employs more than 3,000 residents, the majority of whom are minorities. Bank selected this location after its ascertainment efforts revealed a need for a branch, and community contacts that the Reserve Bank ques-

tioned indicated that this area was not adequately served by financial institutions.

#### C. HMDA Data and Lending Practices

The Board has reviewed the 1992 data reported by Bank under the Home Mortgage Disclosure Act ("HMDA").8 These data indicate some disparities in lending to minorities, including Hispanics, and in certain low- and moderate-income tracts in McAllen.

The Board is concerned when the record of an institution indicates disparities in lending to minority applicants and believes that all banks are obligated to ensure that their lending practices are based on criteria that ensure not only safe and sound lending, but also ensure equal access to credit by creditworthy applicants regardless of race. The Board recognizes, however, that HMDA data alone provide only a limited measure of any given institution's lending in the communities that the institution serves. The Board also recognizes that HMDA data have limitations that make the data an inadequate basis, absent other information, for conclusively determining whether an institution has engaged in illegal discrimination on the basis, of race or ethnicity in making lending decisions.

The Board notes that the 1993 Examination found no evidence of illegal discrimination or other illegal credit practices at Bank. In this regard, denied applications reviewed by examiners revealed borrowers who lacked sufficient income to qualify for the loan amount requested, had poor credit histories, or had high debt-to-income ratios. In addition, examiners noted efforts by Bank to qualify marginal borrowers for loans. Examiners also reviewed real estate records in connection with Bank's housing-related lending activities in certain low- and moderate-income areas. These records demonstrated that there had been no houses listed for sale in these low- and moderateincome areas in the past year, and that large portions of these low- and moderate-income census tracts do not contain housing that would be available for resale.9

<sup>7.</sup> Bank has received two new loan requests as a result of the workshop. Since the 1991 Examination, Bank also has committed \$25,000 to the University of Texas-Pan American and \$25,000 to the Texas State Technical College to establish scholarship funds to be managed at the discretion of the schools.

<sup>8.</sup> The HMDA requires banks to report certain information regarding loan applications, approvals, and denials to the various banking agencies and the public. This information includes data on the race, gender, and income of individual loan applicants, as well as the location of the property securing the potential loan, and a description of the application.

<sup>9.</sup> The 1993 Examination found that Bank needs to improve its use of data relating to the geographic distribution of Bank's loans. Bank has recently completed an overall consolidation of its data processing operations required by the acquisitions approved in the Texas Regional Order. In this regard, the Board expects Bank to continue its efforts to identify the geographic distribution of its applications and denials, to analyze this data, and to implement appropriate steps, if necessary, to assist in meeting the credit needs of its entire community.

#### D. Conclusion Regarding Convenience and **Needs Factor**

The Board has carefully considered the entire record, including the comments filed in this case, in reviewing the convenience and needs factor under the CRA. Based on a review of the entire record of performance, including information provided by the Protestant and by Bank, the Board believes that the efforts of Bank to help meet the credit needs of all segments of the communities served by Bank, including low- and moderate-income neighborhoods, and all other convenience and needs considerations are consistent with approval.

On the basis of all the facts of record, including the Board's determinations in the Texas Regional Order, the Board concludes that the convenience and needs considerations, including the CRA performance record of Bank, are consistent with approval of this application.

#### Other Factors

The Board also has reviewed the other factors it is required to consider in applications for establishing and operating branches under the Federal Reserve Act. 10 Based on all the facts of record, the Board believes that the financial condition of Bank, the general character of its management, and the proposed exercise of corporate powers are consistent with approval and the purposes of section 9 of the Federal Reserve Act.

Based on the foregoing and all of the facts of record, the Board has determined that this application should be, and hereby is, approved. The Board's approval is specifically conditioned upon compliance by Bank with all the commitments made in connection with this application. For purposes of this action, the commitments and conditions relied on by the Board in reaching this decision are both 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 branch shall be in operation no later than one year after the effective date of this Order, unless such period is extended for good cause by the Board or the Federal Reserve Bank of Dallas, acting pursuant to delegated authority.

By order of the Board of Governors, effective April 19, 1993.

Voting for this action: Chairman Greenspan and Governors Angell, Kelley, LaWare, Lindsey, and Phillips. Absent and not voting: Vice Chairman Mullins.

> Jennifer J. Johnson Associate Secretary of the Board

Orders Issued Under International Banking Act

Coutts & Co., AG Zurich, Switzerland

Order Approving Establishment of a Branch

Coutts & Co., AG, Zurich, Switzerland ("Bank"), a foreign bank within the meaning of the International Banking Act ("IBA"), has applied under section 7(d) of the IBA to establish a state-licensed branch in New York, New York. 12 U.S.C. § 3105(d). A foreign bank must obtain the approval of the Board to establish a branch, agency, commercial lending company, or representative office in the United States under the Foreign Bank Supervision Enhancement Act of 1991 ("FBSEA"), which amended the IBA.

Notice of the application, affording interested persons an opportunity to submit comments, has been published in a newspaper of general circulation in New York, New York (New York Times, April 2, 1992). The time for filing comments has expired and no public comments were received.

Bank is incorporated and licensed to act as a bank under Swiss law. Founded in 1930, Bank engages in private banking activities and also provides corporate lending, foreign exchange, money market, and securities services. Bank, with assets of \$2.8 billion as of December 31, 1992, is one of the 50 largest banking and finance companies operating in Switzerland in terms of assets. Bank is a wholly owned subsidiary of National Westminster Bank, PLC, London, England ("NatWest").

Bank operates two branches in Switzerland and representative offices in Japan, Singapore, Uruguay, and New York. Bank also owns six subsidiaries. Four of these subsidiaries are incorporated in Switzerland and engage in financial, fiduciary, or portfolio management activities. One subsidiary is incorporated in the Cayman Islands, and acts as the representative office of Bank in Hong Kong. An additional subsidiary is a bank chartered in the Bahamas to take deposits.

The purpose of the proposed branch is to offer private banking services in the United States. The proposed branch will assume the existing private banking business of Bank's affiliate, National Westminster Bank USA, New York, New York. Bank has received approvals related to the establishment of the proposed branch from the relevant home country supervisors, the New York State Banking Department, and the Federal Deposit Insurance Corporation.

Bank does not engage in nonbanking activities in the United States and will be a qualifying foreign banking organization within the meaning of Regulation K after establishing the proposed branch. 12 C.F.R. 211.23(b). NatWest, Bank's ultimate parent, is a foreign bank within the meaning of the IBA and Regulation K. 12 U.S.C. § 3101(7); 12 C.F.R. 211.21(m). NatWest is the second largest banking group in the United Kingdom in terms of assets, which were \$238.4 billion as of June 30, 1992.

NatWest conducts a wide range of international operations. The U.S. operations of NatWest consist of two U.S. bank subsidiaries, an Edge corporation, three branches, two agencies, and nonbanking subsidiaries. Coutts & Co. Group, London, England ("Coutts Group"), is the holding company for the companies of the NatWest organization that provide private banking services. Coutts Group provides these services through Coutts & Co., London, England ("Coutts UK"), and through Coutts & Co. International Holding, AG, Zurich, Switzerland ("Coutts International"). Coutts International is the immediate parent of both Bank and Coutts & Co. Trust (Holdings) Ltd., Nassau, Bahamas ("Coutts Trust"), a holding company for the trust operations of Coutts Group.

In order to approve an application by a foreign bank to establish a branch in the United States, the IBA and Regulation K require the Board to determine that the foreign bank applicant engages directly in the business of banking outside the United States, and has furnished to the Board the information it needs to assess adequately the application. The Board must also determine that each of the foreign bank applicant and any foreign bank parent is subject to comprehensive supervision or regulation on a consolidated basis by its home country supervisors. 12 U.S.C. § 3105(d)(2); 12 C.F.R. 211.24(c)(1). The IBA and Regulation K also permit the Board to consider additional standards. 12 U.S.C. § 3105(d)(3)-(4); 12 C.F.R. 211.24(c)(2).

Bank engages directly in the business of banking outside of the United States through its banking operations in Switzerland. Bank also has provided the Board with the information necessary to assess the application through submissions that address the relevant issues.

Regulation K provides that a foreign bank will be considered to be subject to comprehensive supervision or regulation on a consolidated basis if the Board determines that the bank is supervised and regulated in such a manner that its home country supervisors receive sufficient information on the foreign bank's worldwide operations, including the relationship of foreign bank to any affiliate, to assess the overall financial condition of the foreign bank and its compliance with law and regulation.<sup>2</sup> 12 C.F.R. 211.24(c)(1). In making its determinations under this standard for each of NatWest and Bank, the Board considered the following information.

#### Supervision of NatWest by U.K. Authorities

The Bank of England is the home country supervisor of NatWest and has broad statutory powers to supervise and take enforcement action against an authorized institution, such as NatWest. The Bank of England supervises NatWest and its affiliates through a series of measures designed to ensure that NatWest complies on an ongoing basis with the conditions for obtaining authorization and operates in a prudent fashion. The conditions for granting authorization require review of, among other things, assets and financial resources and requirements, and maintenance of adequate accounting records and internal controls. The Bank of England may revoke or condition an institution's authorization if it falls out of compliance with these conditions.

In conducting its supervision, the Bank of England relies primarily on the solicitation and analysis of regular reports prepared by independent accountants and the authorized institution, discussions with an institution's management and accountants, and consultation with other supervisory authorities. The Bank of England receives reports from so-called Reporting Accountants who have statutory duties with respect to the information they submit to the Bank of England.

<sup>1.</sup> In assuming these accounts, the proposed branch will neither acquire nor accept domestic retail deposits that require deposit insurance. 12 U.S.C. § 3104(c).

<sup>2.</sup> In assessing this standard, the Board considers, among other factors, the extent to which the home country supervisors:

<sup>(</sup>i) Ensure that the bank has adequate procedures for monitoring and controlling its activities worldwide;

<sup>(</sup>ii) Obtain information on the condition of the bank and its subsidiaries and offices through regular examination reports, audit reports, or otherwise;

<sup>(</sup>iii) Obtain information on the dealings with and relationship between the bank and its affiliates, both foreign and domestic;

<sup>(</sup>iv) Receive from the bank financial reports that are consolidated on a worldwide basis, or comparable information that permits analysis of the bank's financial condition on a worldwide consolidated basis; (v) Evaluate prudential standards, such as capital adequacy and risk asset exposure, on a worldwide basis.

These are indicia of comprehensive, consolidated supervision. No single factor is essential and other elements may inform the Board's determination.

The Bank of England also consults with other regulatory authorities that directly oversee particular portions of an authorized institution's operations.

The Bank of England applies and enforces detailed provisions regarding the content of reports and the duties of persons reporting the information. Under the Banking Act 1987, penalties may be imposed on individuals who either fail to comply with an instruction of the Bank of England to disclose information or reports ordered under statutory standards, or who knowingly or recklessly provide the Bank of England with false or misleading information.<sup>3</sup>

The Bank of England ensures that NatWest has procedures for monitoring and controlling its world-wide activities through the requirement that NatWest maintain systems for accounting, record-keeping, and internal controls. An authorized institution, such as NatWest, is required by the Bank of England to create and maintain systems of accounting, records, and internal controls that permit preparation of required reports, provide accurate information to directors and management, and permit an authorized institution to maintain consolidated information for each subsidiary. The Bank of England evaluates the adequacy of systems that NatWest maintains through a mandatory annual report that is prepared by its Reporting Accountants.

NatWest monitors its operating subsidiaries, including Bank, by requiring annual, on-site audits of each subsidiary by its independent accountants. The independent accountants prepare letters regarding these audits that highlight any deficiencies found in the audit of each company's accounts, including weaknesses in internal controls, and present the letters to NatWest's internal audit and accounting departments, and to NatWest's Group Chief Financial Officer. The Bank of England is notified of persistent or serious deficiencies.

The Bank of England regularly obtains information on the condition of NatWest, its overseas offices, and subsidiaries through frequent discussions with NatWest and its accountants, including its Reporting Accountants, and through periodic financial and audit reports. The Bank of England meets regularly with NatWest and its accountants, including its Reporting Accountants, to review the consolidated financial condition of NatWest, including review of the audited, consolidated accounts of NatWest and its subsidiaries and the auditing process used to prepare such accounts.<sup>4</sup>

NatWest and its accountants must also submit to the Bank of England periodic reports on the financial condition of the organization,<sup>5</sup> as well as annual, independently audited financial reports for each of its principal subsidiaries, which include Bank, Coutts UK, and Coutts Trust.

The Bank of England obtains information on the dealings and relationship between NatWest and its subsidiaries through required reports of aggregate large exposures and other affiliate transactions. It also restricts lending to affiliates by requiring such loans to provide market terms and serve a clear commercial purpose.

The Bank of England evaluates prudential standards for NatWest on a worldwide basis. The Bank of England has implemented the risk-based capital standards of the Basle Accord, with variations that conform to applicable European Community directives. NatWest must submit capital adequacy figures on an aggregate and consolidated basis. The Bank of England also ensures that NatWest maintains sufficient liquidity, and applies limitations on credit risks and concentrations. NatWest conforms to these requirements through internal controls and policies that apply throughout its organization.

Supervision of Bank by Swiss Authorities

The Swiss Federal Banking Commission ("Banking Commission") is responsible for the supervision of Swiss banks and investment trusts and, as such, is the home country supervisor of Bank. The powers of the Banking Commission include licensing banks, issuing directives to address violations by or irregularities involving banks, requiring information from a bank or its auditor regarding supervisory matters, and revoking bank licenses.

The Banking Commission exercises indirect oversight over Swiss banks through independent auditors known as Recognized Auditors that act on behalf of

<sup>3.</sup> The independent accountants are subject to additional review and disclosure requirements through their licensing authorities.

<sup>4.</sup> The Bank of England requires NatWest to consolidate any majority-owned or controlled subsidiary that engages in credit or financial activities.

<sup>5.</sup> The Bank of England requires an authorized institution, such as NatWest, to submit unconsolidated reports monthly and quarterly, and consolidated reports bi-annually. NatWest must discuss any accounting differences in other jurisdictions that substantially affect the consolidated reports with the Bank of England.

<sup>6.</sup> The Banking Commission is responsible for the direct oversight of Bank. The Bank of England, as the supervisor of NatWest and its subsidiaries, consults with the Banking Commission regarding supervision of Bank.

<sup>7.</sup> The Banking Commission may license an entity as a bank if the entity:

<sup>(1)</sup> Conducts clearly defined activities with separate bodies for management, direction, supervision, and control of significant activities:

<sup>(2)</sup> Holds minimum, fully-paid capital;

<sup>(3)</sup> Employs bank management and administration with good reputations that ensure proper bank operations; and

<sup>(4)</sup> Employs a majority of Swiss residents as managers.

the Commission under detailed statutory provisions.<sup>8</sup> Each Swiss bank must appoint a Recognized Auditor, and must notify the Banking Commission of an intent to change its auditor. The Recognized Auditors may take action within a bank as deemed necessary or as instructed by the Banking Commission, and must inform the Commission of supervisory matters.

The Banking Commission ensures that Bank has adequate procedures for monitoring and controlling its worldwide activities through statutory and regulatory standards for operations that each Swiss bank must meet. Among these standards are requirements for adequate internal controls, oversight, administration, and financial resources. The Banking Commission reviews compliance with these limitations on operations and with internal control requirements through an annual audit performed by the Recognized Auditor. The Banking Commission may take supervisory actions that include requiring divestiture of a subsidiary in response to supervisory concerns.

Bank has adopted internal control procedures that permit it, and NatWest, to monitor Bank's operations and those of its subsidiaries. Bank also performs annual internal audits of each of its branches that review all business activities and operations, as well as compliance with internal policy and applicable laws. Bank monitors and controls its subsidiaries through annual audits of its operating subsidiaries by its Recognized Auditor. The results of these audits are communicated to the management of both Bank and Nat-West.

The Banking Commission obtains information on the condition of Bank, its foreign offices, and subsidiaries by requiring submission of periodic, consolidated financial reports and through the mandatory annual report by the Recognized Auditor. Generally, Swiss banks must consolidate for accounting purposes all foreign offices on a line-by-line basis, and must include any majority-owned banking, finance, or real estate subsidiary on a pro-rata or proportional accounting basis.

The Banking Law requires Bank to submit annual and semi-annual balance sheets and income statements to the Banking Commission. The Banking Commission also receives information regarding capital adequacy, country risk exposure, and foreign exchange exposures from Bank annually. Information on risks (such as interest rate risk) and inter-company transactions is received through large loan reports that must be submitted both when such loans occur and

annually. The Banking Commission evaluates prudential standards with respect to capital adequacy that effectively follow the risk-based capital standards of the Basle Accord.

The Swiss Banking Law and Implementing Ordinance prescribe the content of the mandatory annual report of Bank by its Recognized Auditor. Under these laws, the Recognized Auditor must review and report on the financial condition of a bank, including sufficiency and valuation of assets and capital, as well as other topics. The report must express an opinion regarding compliance with the conditions for licensure, accounting accuracy, risks, adjustments, undisclosed reserves, treatment of classified assets, fiduciary operations, exposures to single borrowers, insider lending, capital, liquidity, reserve allocation, foreign assets, internal controls and organization, and compliance with monetary controls.

The Swiss Banking Law contains penalties to ensure correct reporting to the Banking Commission. Recognized Auditors face penalties for gross violations of duties in auditing, for reporting misleading information or omitting essential information from the audit report, and for failing to request pertinent information or to report to the Banking Commission.

Based on all the facts of record, which include the information described above, the Board concludes that each of Bank and NatWest is subject to comprehensive supervision and regulation on a consolidated basis by its respective home country supervisor.

### Additional Standards

In considering this application, the Board has also taken into account the additional standards set forth in section 7 of the IBA. 12 U.S.C. § 3105(d)(3)-(4). As noted above, Bank has received the consent of its home country supervisor to establish the proposed branch. In addition, subject to certain conditions, the Bank of England and the Banking Commission may share information on Bank's operations with other supervisors, including the Board.

As noted, Bank must comply with the Swiss capital standards that effectively follow the Basle Accord. Bank's capital exceeds these minimum standards and is equivalent to capital that would be required of a U.S. banking organization. Managerial and other financial resources of Bank are also considered consistent with approval and Bank appears to have the experience and capacity to support this additional office. Bank has established controls and procedures for its U.S. offices to ensure compliance with U.S. law. Under the IBA, the proposed state-licensed branch may not engage in any type of activity that is

<sup>8.</sup> The Banking Commission must formally grant recognition to Recognized Auditors under statutory standards that are designed to ensure the independence and competence of the auditors and the accuracy of the auditing process.

not permissible for a federally-licensed branch without the Board's approval.

Finally, NatWest and Bank each have committed to make available to the Board such information on the operations of Bank and any affiliate of Bank that the Board deems necessary to determine and enforce compliance with the IBA, the Bank Holding Company Act of 1956, as amended, and other applicable Federal law, to the extent not prohibited by law or regulation. The Board has reviewed the restrictions on disclosure in relevant jurisdictions in which NatWest or Bank operate and has communicated with certain government authorities concerning access to information. The Board notes that NatWest, Bank, and certain of their affiliates may not provide information without the consent of third parties. In this regard, each of Nat-West and Bank also has committed to cooperate with the Board to obtain any approvals or consents that may be needed to gain access to information that may be requested by the Board. In light of these commitments and other facts of record, and subject to the condition described below, the Board concludes that Bank has provided adequate assurances of access to any necessary information the Board may request.

On the basis of all the facts of record, and subject to the commitments made by NatWest and Bank, as well as the terms and conditions set forth in this Order, the Board has determined that Bank's application to establish a branch should be, and hereby is, approved. If any restrictions on access to information on the operations or activities of Bank and any of its affiliates subsequently interfere with the Board's ability to determine the safety and soundness of Bank's U.S. operations or the compliance by Bank or its affiliates with applicable Federal statutes, the Board may require termination of any of Bank's direct or indirect activities in the United States. Approval of this application is also specifically conditioned on compliance by each of NatWest and Bank with the commitments made in connection with this application, and with the conditions contained in this Order.9 The commitments and conditions referred to above are conditions imposed in writing by the Board in connection with its decision, and may be enforced in proceedings under 12 U.S.C. § 1818 or 12 U.S.C. § 1847 against Nat-West, or Bank, including its offices and its affiliates.

By order of the Board of Governors, effective April 20, 1993.

Voting for this action: Chairman Greenspan and Governors Angell, Kelley, LaWare, Lindsey, and Phillips. Absent and not voting: Governor Mullins.

JENNIFER J. JOHNSON
Associate Secretary of the Board

ACTIONS TAKEN UNDER THE FEDERAL DEPOSIT INSURANCE CORPORATION IMPROVEMENT ACT

By the Board

Mid Am, Inc. Bowling Green, Ohio

Order Approving Merger of a Savings Association With a Commercial Bank

Mid Am, Inc., Bowling Green, Ohio ("Mid Am"), has applied for the Board's approval to permit its subsidiary, American Community Bank, N.A., Lima, Ohio ("Bank"), to merge with Colonial Federal Savings Bank, Bellefontaine, Ohio ("Colonial"), pursuant to section 5(d)(3) of the Federal Deposit Insurance Act (12 U.S.C. § 1815(d)(3) ("FDI Act")), as amended by the Federal Deposit Insurance Corporation Improvement Act of 1991 (Pub. L. No. 102–242, § 501, 105 Stat. 2236, 2388-2392 (1991)). Section 5(d)(3) of the FDI Act requires the Board to follow the procedures and consider the factors set forth in the Bank Merger Act (12 U.S.C. § 1828(c)). 12 U.S.C. § 1815(d)(3)(E).

Notice of the application, affording interested persons an opportunity to submit comments, has been given in accordance with the Bank Merger Act and the Board's Rules of Procedure (12 C.F.R. 262.3(b)). In addition, reports on the competitive effects of the merger were requested from the United States Attorney General, the Office of the Comptroller of the Currency, the Federal Deposit Insurance Corporation, and the Office of Thrift Supervision. The time for filing comments has expired, and the Board has considered the application and all comments received in light of the factors set forth in the Bank Merger Act and section 5(d)(3) of the FDI Act.

Mid Am is the eleventh largest commercial banking organization in Ohio, controlling deposits of \$1 billion, representing approximately 1.2 percent of total deposits in commercial banking organizations in the state. Colonial is the 84th largest thrift organization in Ohio,

<sup>9.</sup> The Board's authority to approve the establishment of the proposed branch parallels the continuing authority of the State of New York to license offices of a foreign bank. The Board's approval of this application does not supplant the authority of the State of New York, and its agent, the New York State Banking Department, to license the proposed branch of Bank in accordance with any terms or conditions that the New York State Banking Department may impose.

<sup>1.</sup> These factors include considerations relating to competition, the financial and managerial resources and future prospects of the existing and proposed institutions, and the convenience and needs of the communities to be served. 12 U.S.C. § 1828(c).

controlling deposits of \$71.9 million, representing less than 1 percent of total deposits in thrift institutions in the state. Upon consummation of the proposed transaction, Mid Am would remain the eleventh largest commercial banking organization in Ohio, controlling deposits of \$1.1 billion, representing approximately 1.2 percent of total deposits in commercial banking organizations in the state.

Mid Am and Colonial compete directly in the Logan County, Ohio, banking market.<sup>2</sup> In that market, Mid Am is the largest of twelve commercial banking or thrift organizations (together, "depository institutions"), controlling deposits of \$84.8 million, representing approximately 23.5 percent of total deposits in depository institutions in the market ("market deposits").<sup>3</sup> Colonial is the third largest depository institution in the market, controlling deposits of \$37.2 million, representing approximately 10.3 percent of market deposits.<sup>4</sup> Upon consummation of this proposal, Mid Am would control \$159.2 million in deposits, representing approximately 40 percent of market deposits. The Herfindahl–Hirschman Index ("HHI") for this market would increase by 811 points to 2204.<sup>5</sup>

In order to mitigate the adverse competitive effects that would otherwise result from consummation of this proposal, Mid Am has committed to divest one branch of Bank, with deposits of approximately \$15.4 million, located in the Logan County banking market to an out-of-market banking organization.<sup>6</sup> Following this

The record in this case indicates that the effects that consummation of this proposal would have on competition in the Logan County banking market are mitigated by certain characteristics of this market. Following the consummation of the proposed divestiture, nine commercial banking organizations, including three of the five largest commercial banking organizations in Ohio, and three thrift institutions would operate in the Logan County banking market. The Logan County banking market also has a number of features that make it attractive for entry, including population

divestiture, Mid Am would remain the largest deposi-

tory institution in the market, controlling deposits of

\$143.8 million, representing approximately 36.1 per-

cent of market deposits. The HHI would increase by

wide reciprocal interstate banking law and its intrastate branching law permit a potentially large number of financial institutions to enter this market with relative ease. In this regard, one commercial banking organization entered the market on a de novo basis in 1990 and subsequently opened a second de novo branch in

growth, deposit growth, and the level of per capita

income in the market. Additionally, Ohio's nation-

the market.

In light of the number and size of competitors remaining in the Logan County banking market, the market's attractiveness to entry, the number of potential entrants into the market, and other facts of record in this case, the Board concludes that consummation of this proposal would not have a significantly adverse effect on competition or the concentration of banking resources in the Logan County banking market or any other relevant banking market.

The Board also concludes that the financial and managerial resources and future prospects of Mid Am and Bank, and considerations relating to the convenience and needs of the communities to be served, are also consistent with approval of this application. Moreover, the record in this case shows that:

- (1) The transaction will not result in the transfer of any federally insured depository institution's federal deposit insurance from one federal deposit insurance fund to the other;
- (2) Mid Am and Bank currently meet, and upon consummation of the proposed transaction will continue to meet, all applicable capital standards; and

<sup>2.</sup> The Logan County banking market consists of Logan County, Ohio.

<sup>3.</sup> State deposit data are as of September 30, 1992. Market deposit data are as of June 30, 1992.

<sup>4.</sup> Market share data before consummation are based on calculations in which the deposits of thrift institutions are included at 50 percent. The Board previously has indicated that thrift institutions have become, or have the potential to become, major competitors of commercial banks. See Midwest Financial Group, 75 Federal Reserve Bulletin 386 (1989); National City Corporation, 70 Federal Reserve Bulletin 743 (1984). Because the deposits of Colonial would be transferred to a commercial bank under Mid Am's proposal, those deposits are included at 100 percent in the calculation of the proforma market share. See First Banks, Inc., 76 Federal Reserve Bulletin 669, 670 n.9 (1990); Norwest Corporation, 78 Federal Reserve Bulletin 452 (1992).

<sup>5.</sup> Under the revised Department of Justice Merger Guidelines, 49 Federal Register 26,823 (June 29, 1984), a market in which the post-merger HHI is above 1800 is considered to be highly concentrated. The Justice Department 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 increases the HHI by more than 200 points. The Justice Department has stated that the higher than normal HHI thresholds for screening bank mergers for anticompetitive effects implicitly recognize the competitive effect of limited-purpose lenders and other non-depository financial entities.

<sup>6.</sup> Mid Am has committed to execute a binding sales agreement, acceptable to the Board, to effect this divestiture prior to the consummation of the acquisition of Colonial. In the event that the divestiture is not consummated within 180 days of the proposal, Mid Am has signed a trust agreement that provides for the transfer of the assets and

liabilities to be divested to an independent trustee who will sell them promptly.

Logan County's population increase between 1987 and 1990 (4.4 percent), deposit growth between 1988 and 1991 (21.6 percent), and per capita income (\$15,346), all exceed the average for non-MSA counties in Ohio.

(3) Because Bank is in Ohio and is merging with a savings institution located in Ohio, the proposed transaction would comply with the Douglas Amendment if Colonial were a state bank that Mid Am was applying to acquire directly. See 12 U.S.C. § 1815(d)(3).

Based on the foregoing and all of the facts of record, the Board has determined that this application should be, and hereby is, approved. This approval is subject to Bank obtaining the required approval of the appropriate Federal banking agency for the proposed merger under the Bank Merger Act. The Board's approval of this application also is conditioned upon Mid Am's compliance with the commitments made in connection with this application, including the divestiture commitments discussed in this Order. For purposes of this action, the commitments and conditions relied on in reaching this decision are both conditions imposed in writing by the Board and, as such, may be enforced in proceedings

under applicable law. This approval is limited to the proposal presented to the Board by Mid Am, and may not be construed as applying to any other transaction.

This transaction may not be consummated before the thirtieth calendar day after the effective date of this Order, or later than three months after the effective date of this Order, unless such period is extended by the Board or the Federal Reserve Bank of Cleveland, acting pursuant to delegated authority. In connection with this provision, advice of the fact of consummation should be given in writing to the Reserve Bank.

By order of the Board of Governors, effective April 19, 1993.

Voting for this action: Chairman Greenspan and Governors Angell, Kelley, LaWare, Lindsey, and Phillips. Absent and not voting: Governor Mullins.

JENNIFER J. JOHNSON Associate Secretary of the Board

ACTIONS TAKEN UNDER THE FEDERAL DEPOSIT INSURANCE CORPORATION IMPROVEMENT ACT OF 1991

By the Director of the Division of Banking Supervision and Regulation and the General Counsel of the Board

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.

Bank Holding Company	Acquired Thrift	Surviving Bank(s)	Approval Date	
First Citizens BancShares, Inc., Raleigh, North Carolina	Caldwell Savings Bank, Inc., SSB, Lenoir, North Carolina	First-Citizens Bank & Trust Company, Raleigh, North Carolina	March 30, 1993	
Pickens County Bancshares, Inc., Carrollton, Alabama	Secor Bank, F.S.B., Birmingham, Alabama	West Alabama Bank and Trust, Carrollton, Alabama	March 31, 1993	

## 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 3

Applicant(s)	Bank(s)	Effective Date		
FirstBank Holding Company of Colorado, Lakewood, Colorado FirstBank Holding Company of Colorado Employee Stock Ownership Plan, Lakewood, Colorado	FirstBank of Fort Collins, Fort Collins, Colorado	April 2, 1993		
First Security Corporation, Salt Lake City, Utah	Desert Southwest Community Bancorp, Las Vegas, Nevada	April 22, 1993		

Applicant(s)	Bank(s)	Effective Date		
Panhandle Bancshares, Inc., Panhandle, Texas	to engage <i>de novo</i> in providing management consulting services to nonaffiliated depository institutions and tax planning and preparation services	April 9, 1993		

## APPLICATIONS APPROVED UNDER BANK HOLDING COMPANY 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.

## Section 3

Applicant(s)	Bank(s)	Reserve Bank	Effective Date	
AMBANC Corp., Vincennes, Indiana	Farmers' State Bank of Palestine, Palestine, Illinois	St. Louis	April 7, 1993	
BOK Financial Corporation, Tulsa, Oklahoma	Sand Springs Bancshares, Inc., Sand Springs, Oklahoma Brookside Bancshares, Inc., Tulsa, Oklahoma	Kansas City	April 2, 1993	

Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Bourbonnais Bancorp, Inc., Bourbonnais, Illinois	Presidential Holding Company, Bourbonnais, Illinois	Chicago	April 8, 1993
Cashton Bancshares, Inc., Cashton, Wisconsin	Bank of Cashton, Cashton, Wisconsin	Chicago	March 30, 1993
CNB Bancshares, Inc., Evansville, Indiana	South Central Illinois Bancorp, Inc., Effingham, Illinois	St. Louis	March 22, 1993
Community First Bankshares, Inc., Fargo, North Dakota	F&M Bank Holding Company, Cooperstown, North Dakota	Minneapolis	April 23, 1993
Community First Bankshares, Inc., Fargo, North Dakota	Lincoln Banking Company, Ltd., Steamboat Springs, Colorado	Minneapolis	April 23, 1993
Crested Butte State Bank Holding Company, Crested Butte, Colorado	Crested Butte State Bank, Crested Butte, Colorado	Kansas City	March 26, 1993
Davis BanCorporation, Inc., Davis, Oklahoma	First Davis  Bancorporation, Inc.,  Davis, Oklahoma	Kansas City	April 16, 1993
Dimeco, Inc., Honesdale, Pennsylvania	The Dime Bank, Honesdale, Pennsylvania	Philadelphia	April 1, 1993
Farmers State Bancshares of Andrew County, Inc., Savannah, Missouri	Farmers State Bank of Rosendale, Savannah, Missouri	Kansas City	March 26, 1993
First Breckinridge Bancshares, Inc., Irvington, Kentucky	Bank of Clarkson, Clarkson, Kentucky	St. Louis	March 29, 1993
First Linden Bancshares, Inc., Linden, Alabama	First Bank of Linden, Linden, Alabama	Atlanta	March 26, 1993
First National of Nebraska, Inc., Omaha, Nebraska	First National Bank of Kansas, Overland Park, Kansas	Kansas City	April 2, 1993
First Neighborhood Bancshares, Inc., Toledo, Illinois	Newman Bancshares, Inc., Newman, Illinois	Chicago	April 16, 1993
FirstPerryton Bancorp, Inc., Perryton, Texas	Texas Commerce Bank - Amarillo, Amarillo, Texas	Dallas	April 20, 1993
First State Bancshares, Inc., Scottsbluff, Nebraska	Security First Savings & Loan Association, Cheyenne, Wyoming	Kansas City	April 22, 1993
FNBR Holding Corporation, Meeker, Colorado	First National Bank of the Rockies, Meeker, Colorado	Kansas City	March 31, 1993

# Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date	
Fourth Financial Corporation, Wichita, Kansas	Nichols Hills Bancorporation, Inc., Oklahoma City, Oklahoma	Kansas City	April 2, 1993	
Illinois State Bancorp, Inc., Wheaton, Illinois	Presidential Holding Company, Bourbonnais, Illinois	Chicago	April 8, 1993	
International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers & Helpers, Kansas City, Kansas	Brotherhood Bancshares, Inc., Kansas City, Kansas	Kansas City	April 16, 1993	
LeRoy C. Darby, Inc., Monona, Iowa	Keystone Bancshares, Inc., Elkader, Iowa	Chicago	April 16, 1993	
Lincoln Trail Bancshares, Inc., Taylorville, Illinois	Palmer State Bank, Taylorville, Illinois	Chicago	March 26, 1993	
Midlothian State Bank Employee Stock Ownership Trust, Midlothian, Illinois	Midlothian State Bank, Midlothian, Illinois	Chicago	April 14, 1993	
Oliver Bancorporation, Inc., Center, North Dakota	Security State Bank of New Salem, New Salem, North Dakota	Minneapolis	March 26, 1993	

## Section 4

Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date April 22, 1993	
The Bank of Tokyo, Ltd., Tokyo, Japan	BOT Financial Corporation, Boston, Massachusetts	San Francisco		
Central Bancshares, Inc., Cambridge, Nebraska	C.R. Druse Insurance, Cambridge, Nebraska	Kansas City	March 31, 1993	
The Merchants Holding Company, Winona, Minnesota	Mortgage Options of La Crosse, Inc., La Crosse, Wisconsin	Minneapolis	April 15, 1993	

#### 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	
Bank of Woodward,	Cimarron Bank,	Kansas City	April 9, 1993	
Woodward, Oklahoma	Waukomis, Oklahoma			
Commonwealth Bank,	Valley Community Bank,	Philadelphia	April 20, 1993	
Williamsport, Pennsylvania	Kingston, Pennsylvania	-	-	

#### 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.

Amann v. Prudential Home Mortgage Co., et al., No. 93-10320 WD (D. Massachusetts, filed February 12, 1993). Action for fraud and breach of contract arising out of a home mortgage.

Adams v. Greenspan, No. 93-0167 (D. D.C., filed January 27, 1993). Action by former employee under the Civil Rights Act of 1964 and the Rehabilitation Act of 1973 concerning termination of employment.

Sisti v. Board of Governors, No. 93-0033 (D.D.C., filed January 6, 1993). Challenge to Board staff interpretation with respect to margin accounts. On April 9, 1993, the Board filed a motion to dismiss.

U.S. Check v. Board of Governors, No. 92-2892 (D.D.C., filed December 30, 1992). Challenge to partial denial of request for information under the Freedom of Information Act.

CBC, Inc. v. Board of Governors, No. 92-9572 (10th Cir., filed December 2, 1992). Petition for review of civil money penalty assessment against a bank holding company and three of its officers and directors for failure to comply with reporting requirements. The Board's brief was filed on March 19, 1993.

DLG Financial Corporation v. Board of Governors, No. 392 Civ. 2086-G (N.D. Texas, filed October 9, 1992). Action to enjoin the Board and the Federal Reserve Bank of Dallas from taking certain enforcement actions, and seeking money damages on a variety of tort and contract theories. On October 9, 1992, the court denied plaintiffs' motion for a temporary restraining order. On March 30, 1993, the court granted the Board's motion to dismiss as to it, and also dismissed certain claims against the Reserve Bank.

Zemel v. Board of Governors, No. 92-1056 (D. District of Columbia, filed May 4, 1992). Age Discrimination in Employment Act case. The parties' crossmotions for summary judgment are pending.

State of Idaho, Department of Finance v. Board of Governors, No. 92-70107 (9th Cir., filed February 24, 1992). Petition for review of Board order returning without action a bank holding company application to relocate its subsidiary bank from Washington to Idaho. The Board's brief was filed on June 29, 1992. Oral argument was held October 6, 1992.

In re Subpoena Served on the Board of Governors, Nos. 91-5427, 91-5428 (D.C. Cir., filed December 27, 1991). Appeal of order of district court, dated December 3, 1991, requiring the Board and the Office of the Comptroller of the Currency to produce confidential examination material to a private litigant. On June 26, 1992, the court of appeals affirmed the district court order in part, but held that the bank examination privilege was not waived by the agencies' provision of examination materials to the examined institution, and remanded for further consideration of the privilege issue. On August 6, 1992, the district court ordered the matter held in abeyance pending settlement of the underlying action.

Board of Governors v. Kemal Shoaib, No. CV 91-5152 (C.D. California, filed September 24, 1991). Action to freeze assets of individual pending administrative adjudication of civil money penalty assessment by the Board. On October 15, 1991, the court issued a preliminary injunction restraining the transfer or disposition of the individual's assets.

Board of Governors v. Ghaith R. Pharaon, No. 91-CIV-6250 (S.D. New York, filed September 17, 1991). Action to freeze assets of individual pending administrative adjudication of civil money penalty assessment by the Board. On September 17, 1991, the court issued an order temporarily restraining the transfer or disposition of the individual's assets.

FINAL ENFORCEMENT ORDERS ISSUED BY THE BOARD OF GOVERNORS

First Pacific Bancorp, Inc. Beverly Hills, California

The Federal Reserve Board announced on April 2, 1993, the issuance of Orders of Assessment of a Civil Money Penalty against First Pacific Bancorp, Inc., Beverly Hills, California, and Jose M. Anotado, an institution-affiliated party of First Pacific Bancorp, Inc.

Pacific Inland Bancorp Anaheim, California

The Federal Reserve Board announced on April 16, 1993, the issuance of a Cease and Desist Order against Pacific Inland Bancorp, Anaheim, California, and its subsidiary bank, the Pacific Inland Bank, Anaheim, California.

Silicon Valley Bancshares, Inc. Santa Clara, California

The Federal Reserve Board announced on April 16, 1993, the issuance of a Consent Order against Silicon

Valley Bancshares, Inc., Santa Clara, California, and its subsidiary bank, the Silicon Valley Bank, Santa Clara, California, pursuant to 12 U.S.C. 1818(b).

WRITTEN AGREEMENTS APPROVED BY FEDERAL RESERVE BANKS

Arrow Financial Corporation Glens Falls, New York

The Federal Reserve Board announced on April 5, 1993, the execution of an Amendment to the Written Agreement, dated July 22, 1992, involving the Federal Reserve Bank of New York, Arrow Financial Corporation, Glens Falls, New York, and Arrow Vermont Corporation, Rutland, Vermont.

Citizens First Bancorp, Inc. Glen Rock, New Jersey

The Federal Reserve Board announced on April 5, 1993, the execution of an Amendment to the Written Agreement, dated December 18, 1990, between the Federal Reserve Bank of New York and Citizens First Bancorp, Inc., Glen Rock, New Jersey.

Perry County Bancorp, Inc. Du Quoin, Illinois

The Federal Reserve Board announced on April 26, 1993, the execution of Written Agreements involving the Federal Reserve Bank of St. Louis and Perry County Bancorp, Inc., Du Quoin, Illinois, a bank holding company, and its subsidiary bank, the Du Quoin State Bank, Du Quoin, Illinois.

# Financial and Business Statistics

#### **CONTENTS**

A3 Guide to Tabular Presentation

Domestic Financial Statistics

#### MONEY STOCK AND BANK CREDIT

- A4 Reserves, money stock, liquid assets, and debt measures
- A5 Reserves of depository institutions, Reserve Bank credit
- A6 Reserves and borrowings—Depository institutions
- A7 Selected borrowings in immediately available funds—Large member banks

#### **POLICY INSTRUMENTS**

- A8 Federal Reserve Bank interest rates
- A9 Reserve requirements of depository institutions
- A10 Federal Reserve open market transactions

#### FEDERAL RESERVE BANKS

- A11 Condition and Federal Reserve note statements
- A12 Maturity distribution of loan and security holdings

#### MONETARY AND CREDIT AGGREGATES

- A13 Aggregate reserves of depository institutions and monetary base
- A14 Money stock, liquid assets, and debt measures
- A16 Bank debits and deposit turnover
- A17 Loans and securities—All commercial banks

## COMMERCIAL BANKING INSTITUTIONS

- A18 Major nondeposit funds
- A19 Assets and liabilities, Wednesday figures

#### WEEKLY REPORTING COMMERCIAL BANKS

Assets and liabilities

- A21 Large reporting banks
- A23 Branches and agencies of foreign banks

#### FINANCIAL MARKETS

- A24 Commercial paper and bankers dollar acceptances outstanding
- A24 Prime rate charged by banks on short-term business loans
- A25 Interest rates—money and capital markets
- A26 Stock market—Selected statistics
- A27 Selected financial institutions—Selected assets and liabilities

#### FEDERAL FINANCE

- A27 Federal fiscal and financing operations
- A28 U.S. budget receipts and outlays
- A29 Federal debt subject to statutory limitation
- A29 Gross public debt of U.S. Treasury—Types and ownership
- A30 U.S. government securities dealers—Transactions
- A31 U.S. government securities dealers—Positions and financing
- A32 Federal and federally sponsored credit agencies—Debt outstanding

# SECURITIES MARKETS AND CORPORATE FINANCE

- A33 New security issues—Tax-exempt state and local governments and corporations
- A34 Open-end investment companies—Net sales and assets
- A34 Corporate profits and their distribution
- A34 Nonfarm business expenditures on new plant and equipment
- A35 Domestic finance companies—Assets and liabilities, and consumer, real estate, and business credit

#### Domestic Financial Statistics—Continued

#### REAL ESTATE

A36 Mortgage markets

A37 Mortgage debt outstanding

#### CONSUMER INSTALLMENT CREDIT

A38 Total outstanding

A38 Terms

#### FLOW OF FUNDS

A39 Funds raised in U.S. credit markets

A41 Summary of financial transactions

A42 Summary of credit market debt outstanding

A43 Summary of financial assets and liabilities

### Domestic Nonfinancial Statistics

#### SELECTED MEASURES

A44 Nonfinancial business activity—Selected measures

A45 Labor force, employment, and unemployment

A46 Output, capacity, and capacity utilization

A47 Industrial production—Indexes and gross value

A49 Housing and construction

A50 Consumer and producer prices

A51 Gross domestic product and income

A52 Personal income and saving

## International Statistics

#### **SUMMARY STATISTICS**

A53 U.S. international transactions—Summary

A54 U.S. foreign trade

A54 U.S. reserve assets

A54 Foreign official assets held at Federal Reserve Banks

A55 Foreign branches of U.S. banks—Balance sheet data

A57 Selected U.S. liabilities to foreign official institutions

### REPORTED BY BANKS IN THE UNITED STATES

A57 Liabilities to and claims on foreigners

A58 Liabilities to foreigners

A60 Banks' own claims on foreigners

A61 Banks' own and domestic customers' claims on foreigners

A61 Banks' own claims on unaffiliated foreigners

A62 Claims on foreign countries—Combined domestic offices and foreign branches

## REPORTED BY NONBANKING BUSINESS ENTERPRISES IN THE UNITED STATES

A63 Liabilities to unaffiliated foreigners

A64 Claims on unaffiliated foreigners

### SECURITIES HOLDINGS AND TRANSACTIONS

A65 Foreign transactions in securities

A66 Marketable U.S. Treasury bonds and notes—Foreign transactions

#### INTEREST AND EXCHANGE RATES

A67 Discount rates of foreign central banks

A67 Foreign short-term interest rates

A68 Foreign exchange rates

A69 Guide to Statistical Releases and Special Tables

# Guide to Tabular Presentation

## SYMBOLS AND ABBREVIATIONS

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

## 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 obliga-tions of the Treasury. "State and local government" also in-cludes municipalities, special districts, and other political subdivisions.

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

Percent annual rate of change, seasonally adjusted1

Monetary and credit aggregate		1992		1993	1992 <sup>r</sup>		1993		
		Q3	Q4 <sup>r</sup>	Q1	Nov.	Dec.	Jan."	Feb.	Mar.
Reserves of depository institutions <sup>2</sup> 1 Total 2 Required 3 Nonborrowed 4 Monetary base <sup>3</sup>	14.8 <sup>r</sup>	9.3	25.8	9.3	22.2	12.0	6.9	5.6	5.4
	15.3 <sup>r</sup>	9.9	25.3	8.7	23.4	9.6	4.7	9.3	3.0
	14.6 <sup>r</sup>	8.4	27.1	9.5	23.2	11.6	6.0	8.3	4.4
	7.8	10.5	12.6	9.1	10.4	10.2	8.3	8.5	8.9
Concepts of money, liquid assets, and debt <sup>4</sup> 5 M1	$10.6$ $.3^{r}$ $6^{r}$ $1.3^{r}$ $5.7^{r}$	11.7 .8 .1 1.1 4.9 <sup>r</sup>	16.8 2.7 2 1.9 4.4	6.5 -2.1 -4.0 n.a. n.a.	15.7 2.3 4 3.2 5.7	8.8 3 3.4 9 6.2	7.7 -3.5 -7.5 -5.2 3.2	5 -4.4 -2.3 -1.1 4.4	2.4 8 -1.5 n.a. n.a.
Nontransaction components 10 In M2	-3.4 <sup>r</sup>	-3.2	-2.8	-5.5	-3.2	4.1	8.1	-6.2	-2.2
	-4.9	-3.6	14.4	-13.7	-13.9	19.2	-28.3	9.2	-4.7
Time and savings deposits Commercial banks 12 Savings, including MMDAs. 13 Small time 8,9 14 Large time 8,9 Thrift institutions 15 Savings, including MMDAs. 16 Small time 8,9 17 Large time 8,9 18 Large time 8,9 19 Large time 8,9 10 Large time 8,9 11 Large time 8,9 12 Large time 8,9 13 Large time 8,9 14 Large time 8,9	12.6	10.9	12.9	1.7	10.3	5.7	-3.2	2.7	-2.5
	-13.4	-17.4	-17.1	-7.5	-18.5	-11.5	-9.9	3.1	-2.9
	-13.3	-18.6	-18.4	-17.3	-16.2	-10.7	-26.9	10.6	-18.8
	-18.1	9.2	8.7	.0	9.9	5.6	-1.1	10.0	-4.5
	-29.8	-18.6	-21.7	-19.2	-21.3	-21.7	-16.5	24.1	-12.6
	-31.9	-14.9	-11.3	-17.3	-29.1	-21.0	-3.6	28.6	-18.3
Money market mutual funds 18 General purpose and broker-dealer	-6.6 <sup>r</sup>	-7.4 <sup>r</sup>	-4.2	-10.1	9.0	-4.9	-9.5	21.2	-1.8
	23.9	32.9	-19.4	-14.3	9.7	-39.6	-27.3	25.5	-8.3
Debt components <sup>4</sup> 20 Federal	14.4	10.7 <sup>r</sup>	6.0	n.a.	10.5	16.3	2.9	5.3	n.a.
	2.8 <sup>r</sup>	2.9 <sup>r</sup>	3.8	n.a.	4.0	2.7	3.4	4.0	n.a.

1. 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.)

3. Seasonally adjusted, break-adjusted monetary base consists of (1) 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 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 due to depository institutions, the U.S. government, and 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 institutions, credit union share draft accounts, and demand deposits at thrift institutions, credit union share draft accounts, and demand deposits at thrift institutions. Credit union share draft accounts, and demand deposits at thrift institutions, credit union share draft accounts, and demand deposits at thrift institutions, credit union share draft accounts, and demand deposits and thrift institutions. (2) seasonally adjusted by lovering

offices in the United Kingdom and Canada, and (3) balances in both taxable and tax-exempt, institution-only money market funds. Excludes amounts held by depository institutions, the U.S. government, money market funds, and foreign banks and official institutions. Also excluded is the estimated amount of overnight RPs and Eurodollars held by institution-only money market funds. Seasonally adjusted M3 is computed by adjusting its non-M2 component as a whole and then adding this result to seasonally adjusted M2.

L: M3 plus the nonbank public holdings of U.S. savings bonds, short-term Treasury securities, commercial paper, and bankers acceptances, net of money market fund holdings of these assets. Seasonally adjusted L is computed by summing U.S. savings bonds, short-term Treasury securities, commercial paper, and bankers acceptances, each seasonally adjusted separately, and then adding this result to M3.

and bankers acceptances, each seasonally adjusted separately, and then adding this result to M3.

Debt: Debt of domestic nonfinancial sectors consists of outstanding credit-market debt of the U.S. government, state and local governments, and private nonfinancial sectors. Private debt consists of corporate bonds, mortgages, consumer credit (including bank loans), other bank loans, commercial paper, bankers acceptances, and other debt instruments. Data are derived from the Federal Reserve Board's flow of funds accounts. Data on debt of domestic nonfinancial sectors are monthly averages, derived by averaging adjacent month-end levels. Growth rates for debt reflect adjustments for discontinuities over time in the levels of debt presented in other tables.

of debt presented in other tables.

5. Sum of (1) overnight RPs and Eurodollars, (2) money market fund balances (general purpose and broker-dealer), (3) MMDAs, and (4) savings and small time deposits

deposits.

6. Sum of (1) large time deposits, (2) term RPs, (3) term Eurodollars of U.S. residents, and (4) money market fund balances (institution-only), less (5) a consolidation adjustment that represents the estimated amount of overnight RPs and Eurodollars held by institution-only money market funds. This sum is seasonally adjusted as a whole.

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.

9. Large time deposits at commercial banks less those held by money market funds, depository institutions, and foreign banks and official institutions.

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

Millions of dollars

		Average of daily figures	i.	Average of daily figures for week ending on date indicated						
Factor	1993			1993						
	Jan.	Feb.	Mar.	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31
Supplying Reserve Funds			į		ļ					
1 Reserve Bank credit outstanding U.S. government securities <sup>2</sup>	336,822 <sup>r</sup>	334,937	337,717	334,964	333,563	337,914	336,092	337,877	336,699	339,624
2 Bought outright—System account 3 Held under repurchase agreements	297,541 2,582	297,289 1,358	298,823 1,984	297,127 1,008	298,136 0	297,420 4,178	297,661 2,327	298,672 1,628	300,087 0	299,897 2,213
Federal agency obligations Bought outright Held under repurchase agreements Acceptances	5,379 189 0	5,27 <del>1</del> 73 0	5,173 112 0	5,260 64 0	5,260 0 0	5,225 252 0	5,216 202 0	5,165 37 0	5,165 0 0	5,123 164 0
Loans to depository institutions Adjustment credit Seasonal credit	182 10	22 18	69 26	14 19	24 22	48 18	6 19	137 25	13 31	120 32
9 Extended credit	1,025 <sup>r</sup>	763	0 1,188	1,110	997	0 974	0 718	2,237	777	1,018
11 Other Federal Reserve assets	29,913	30,143	30,342	30,362	29,123	29,799	29,944	29,977	30,626	31,057
12 Gold stock 13 Special drawing rights certificate account 14 Treasury currency outstanding	11,055 8,018 21,470 <sup>r</sup>	11,055 8,018 21,510	11,055 8,018 21,560	11,055 8,018 21,509	11,055 8,018 21,518	11,055 8,018 21,528	11,055 8,018 21,542	11,055 8,018 21,556	11,055 8,018 21,570	11,054 8,018 21,584
ABSORBING RESERVE FUNDS	330,334 <sup>r</sup>	329,470	331,650	330,480	330,217	329,941	331,101	331,893	332,044	332,174
15 Currency in circulation 16 Treasury cash holdings Deposits, other than reserve balances, with Federal Reserve Banks	505	329,470 467	509	330,480 464	463	470	512	512	512	512
17 Treasury 18 Foreign 19 Service-related balances and	7,693 215	6,018 243	5,472 290	4,791 240	4,967 237	6,017 254	5,395 202	5,563 375	5,026 238	5,243 370
adjustments	6,426 <sup>r</sup> 285	6,289 302	6,501 347	6,170 305	6,180 306	6,413 327	6,535 344	6,304 344	6,296 334	6,905 362
21 Other Federal Reserve liabilities and capital	8,523	9,006	9,091	8,925	8,928	9,130	9,113	9,093	9,064	9,069
Reserve Banks <sup>3</sup>	23,386 <sup>r</sup>	23,724	24,490	24,171	22,856	25,964	23,506	24,423	23,828	25,644
	End-	of-month fig	ures	Wednesday figures						
	Jan.	Feb.	Mar.	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31
Supplying Reserve Funds										
Reserve Bank credit outstanding	333,077 <sup>r</sup>	337,550	343,479	336,621	335,258	339,027	333,188	333,908	337,988	343,479
2 Bought outright—System account 3 Held under repurchase agreements Federal agency obligations	296,977 0	298,835 2,655	298,461 6,756	297,025 2,831	299,778 0	296,079 7,130	297,810 300	297,015 50	299,440 0	298,461 6,756
4 Bought outright 5 Held under repurchase agreements 6 Acceptances	5,310 0 0	5,225 275 0	5,123 567 0	5,260 150 0	5,260 0 0	5,225 145 0	5,165 107 0	5,165 0 0	5,165 0 0	5,123 567 0
Loans to depository institutions Adjustment credit Seasonal credit	21 10	40 17	720 32	17 22	27 22	43 18	8 21	894 29	16 28	720 32
9 Extended credit	226 <sup>r</sup>	0 663	0 380	0 1,887	930	0 385	0 14	771	0 2,568	0 380
11 Other Federal Reserve assets	30,529 11,055	29,841 11,055	31,439	29,430 11,055	29,241 11,055	30,003 11,055	29,793 11,055	29,985 11,055	30,771 11,055	31,439 11,054
13 Special drawing rights certificate account 14 Treasury currency outstanding	8,018 21,490 <sup>r</sup>	8,018 21,528	8,018 21,584	8,018 21,509	8,018 21,518	8,018 21,528	8,018 21,542	8,018 21,556	8,018 21,570	8,018 21,584
Absorbing Reserve Funds	22 - 5725	320 (3)	222 020	220.004	320.024	770 404	221 655	220 101	222 022	122 020
15 Currency in circulation 16 Treasury cash holdings Deposits, other than reserve balances, with Federal Reserve Banks	326,573° 508	329,621 463	332,829 515	330,984 463	329,924 463	330,496 512	331,657 512	332,121 512	332,032 512	332,829 515
17 Treasury	9,572 244	5,350 296	6,752 318	4,869 256	4,973 232	7,640 224	5,242 230	6,930 707	5,216 288	6,752 318
adjustments	6,004 <sup>r</sup> 282	6,413 302	6,905 314	6,170 324	6,180 282	6,413 351	6,535 347	6,304 352	6,296 327	6,905 314
21 Other Federal Reserve liabilities and capital	9,141	9,180	8,844	8,773	8,817	8,982	8,863	8,922	8,953	8,844
Reserve Banks <sup>3</sup>	21,315 <sup>r</sup>	26,526	27,660	25,365	24,978	25,010	20,418	18,687	25,007	27,660

For amounts of cash held as reserves, see table 1.12.
 Includes securities loaned—fully guaranteed by U.S. government securities pledged with Federal Reserve Banks—and excludes any securities sold and scheduled to be bought back under matched sale-purchase transactions.

<sup>3.</sup> Excludes required clearing balances and adjustments to compensate for float.

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

Millions of dollars

	Prorated monthly averages of biweekly averages										
Reserve classification	1990 1991 1992			1992				1993			
	Dec.	Dec.	Dec.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>r</sup>	Feb.	Mar.	
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 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>8</sup>	30,237 31,789 <sup>r</sup> 28,884 2,905 <sup>r</sup> 59,120 57,456 1,664 326 76 23	26,659 32,510 28,872 3,638 55,532 54,553 979 192 38	25,368 34,535 31,172 3,364 56,540 55,385 1,155 124 18	22,627 32,342 28,894 3,448 51,521 50,527 994 287 193	23,626 32,987 29,510 3,477 53,136 52,062 1,074 143 114 0	25,462 32,457 29,205 3,252 54,666 53,624 1,043 104 40	25,368 34,535 31,172 3,364 56,540 55,385 1,155 124 18 1	23,636 35,991 32,368 3,623 56,004 54,744 1,260 165 11	23,515 33,914 30,368 3,546 53,882 52,778 1,104 45 18 0	24,384 33,293 29,913 3,380 54,297 53,084 1,214 91 26 0	
			Biv	veekly aver	ages of dail	y figures fo	r weeks end	ling			
		1992					1993	3			
	Nov. 25	Dec. 9	Dec. 23	Jan. 6	Jan. 20	Feb. 3 <sup>1</sup>	Feb. 17	Mar. 3	Mar. 17	Mar. 31	
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 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>9</sup>	25,730 32,398 29,117 3,281 54,846 53,485 1,361 138 37 0	24,548 34,315 30,918 3,397 55,466 54,625 841 95 22 0	25,209 34,770 31,373 3,397 56,582 55,357 1,225 60 19 2	26,569 34,374 31,105 3,269 57,674 56,289 1,385 269 12 0	24,057 36,388 <sup>r</sup> 32,829 3,559 <sup>r</sup> 56,886 55,657 1,229 202 11	21,500 36,368 32,470 3,898 53,970 52,740 1,230 64 11 3	23,301 34,764 31,069 3,695 54,370 52,875 1,495 33 18	24,335 32,163 28,902 3,261 53,237 52,666 571 56 20 0	24,029 34,487 30,944 3,543 54,973 53,683 1,290 93 22 0	24,750 32,343 29,099 3,244 53,849 52,574 1,275 98 32 0	

<sup>1.</sup> Data in this table also appear in the Board's H.3 (502) weekly statistical release. For ordering address, see inside front cover.

2. Excludes required clearing balances and adjustments to compensate for float and includes other off-balance-sheet "as-of" adjustments.

3. Total "lagged" vault cash held by depository institutions subject to reserve requirements. Dates refer to the maintenance periods during which the vault cash can be used to satisfy reserve requirements. Under contemporaneous reserve requirements, maintenance periods end thirty days after the lagged computation periods during which the balances are held.

4. 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).
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 there is with traditional short-term adjustment credit, the money market impact of extended credit is similar to that of nonborrowed reserves.

## 1.13 SELECTED BORROWINGS IN IMMEDIATELY AVAILABLE FUNDS Large Banks<sup>1</sup>

Millions of dollars, averages of daily figures

Source and maturity	1992, week ending Monday	week ending Monday									
	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25	Feb. 1	Feb. 8	Feb. 15	Feb. 22		
Federal funds purchased, repurchase agreements, and other selected borrowings From commercial banks in the United States 1 For one day or under continuing contract 2 For all other maturities. From other depository institutions, foreign banks and official institutions, and U.S. government agencies 3 For one day or under continuing contract. 4 For all other maturities.  Repurchase agreements on U.S. government and federal agency securities	71,828	74,152	75,358	71,974	66,898	69,127	71,676	70,934	69,724		
	13,825	14,797	13,384	13,895	13,456	14,029	13,669	14,049	13,622		
	20,597	19,060	20,531	20,277	19,888	17,824	17,465	17,264	20,090		
	18,783	16,955	17,419	17,441	17,469	17,841	18,837	21,448	21,375		
Brokers and nonbank dealers in securities For one day or under continuing contract. For all other maturities All other customers For one day or under continuing contract. For all other maturities.	10,237	9,686	11,117	8,554	10,218	10,857	9,270	10,038	13,355		
	18,341 <sup>r</sup>	18,588	18,592	18,933	18,994	19,447	20,935	22,955	21,937		
	22,808	23,596	23,582	23,673	24,379	24,283	23,927	22,917	24,806		
	14,151	13,605	13,567	13,755	13,344	13,866	12,655	13,304	13,440		
MEMO Federal funds loans and resale agreements in immediately available funds in maturities of one day or under continuing contract 9 To commercial banks in the United States	37,991	41,340	37,458	37,316	37,614	41,221	39,000	39,517	38,715		
	18,270	20,812	18,322	22,669	19,362	18,469	21,417	21,233	18,716		

Banks with assets of \$4 billion or more as of Dec. 31, 1988.
 Data in this table also appear in the Board's H.5 (507) weekly statistical release.
 For ordering address, see inside front cover.

<sup>2.</sup> Brokers and nonbank dealers in securities, other depository institutions, foreign banks and official institutions, and U.S. government agencies.

#### 1.14 FEDERAL RESERVE BANK INTEREST RATES

Percent per year

Current and pre-	vious le	vels
------------------	----------	------

E 1 10		Adjustment credit	ı		Seasonal credit <sup>2</sup>		Extended credit <sup>3</sup>				
Federal Reserve Bank On 4/30/93	Effective date	Previous rate	On 4/30/93	Effective date	Previous rate	On 4/30/93	Effective date	Previous rate			
Boston	3	7/2/92 7/2/92 7/2/92 7/2/92 7/2/92 7/2/92	3.5	3.00	4/29/93 4/29/93 4/29/93 4/29/93 4/29/93 4/29/93	3,05	3.50	4/29/93 4/29/93 4/29/93 4/29/93 4/29/93 4/29/93	3.55		
Chicago	3	7/2/92 7/7/92 7/2/92 7/2/92 7/2/92 7/2/92	3.5	3.00	4/29/93 4/29/93 4/29/93 4/29/93 4/29/93 4/29/93	3.05	3.50	4/29/93 4/29/93 4/29/93 4/29/93 4/29/93 4/29/93	3.55		

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.
n effect Dec. 31, 1977	6	6	1981—May 5	13-14 14	14 14	1986—Aug. 21	5.5-6 5.5	5.5 5.5
978—Jan. 9	6~6.5	6.5	Nov. 2	1314	13			
20	6.5 6.5–7 7	6.5 7 7	6 Dec. 4	13 12	13 12	1987—Sept. 4	5.5-6 6	6 6
July 3 10	7-7.25 7.25	7.25 7.25	1982—July 20	11.5-12 11.5	11.5 11.5	1988—Aug. 9	6-6.5	6.5
Aug. 21 Sept. 22	7.75	7.75 8	Aug. 2	1111.5 	11 11	1989—Feb. 24	6.57	7
Oct. 16	8-8.5 8.5	8.5 8.5	16	10.5 10-10.5	10.5 10	27	7	7
20	8.5-9.5	9.5	27 30	10-10.5	10	1990—Dec. 19	6.5	6.5
3	9.5	9.5	Oct. 12	9.5-10	9.5	į.	\ \ \ \ \	
1070 7 1 20	10	1.0	13	9,5	9.5	1991—Feb. 1	6-6.5	6
979—July 20	10 10-10.5	10 10.5	Nov. 22	9~9.5	9	Apr. 30	5.5-6	6 5.5
20	10.5	10.5	Dec. 14	8.5-9	ý	May 2	5.5	5.5
Sept. 19	10.5-11	ii	15	8.5-9	8.5	Sept. 13	5-5.5	5
21	11	11	17	8.5	8.5	Sept. 17	5	5
Oct. 8	11–12	12	1001	250		Nov. 6	4.5–5	4.5
10	12	12	1984—Apr. 9	8.5-9	9	7 Dec. 20	4.5 3.5–4.5	4.5 3.5
980—Feb. 15	12–13	13	Nov. 21	8.5-9	8.5	24	3.3-4.5	3.5
19	13	13	26	8.5	8.5	1	] "" ]	3,3
May 29	12-13	13	Dec. 24	8	8	1992—July 2	3–3.5	3
30	12	12	1002			7	3 [	3
June 13	11-12   11		1985—May 20	7.5-8 7.5	7.5 7.5			
16 29	10	10	24	1.3	1.3	In effect Apr. 30, 1993	3	3
July 28	10-11	10	1986—Mar. 7	7-7.5	7	in elicet ripi. 50, 1775	, ,	
Sept. 26	11	11	10	7	7			
Nov. 17	12	12	Apr. 21	6.5-7	6.5	1		
Dec. 5	12-13	13	July 11	6	6	(	, <u> </u>	

<sup>1.</sup> 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 for loans to depository institutions may be charged on adjustment-credit loans of unusual size that result from a major operating problem

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 on 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.

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 of the Federal Reserve Bank, this time period may be shortened. Beyond this initial period, a flexible rate somewhat above rates 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 points.

4. 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, 1970–1979.

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 than borrowed in successive weeks or in more than four weeks in a calendar 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.

#### 1.15 RESERVE REQUIREMENTS OF DEPOSITORY INSTITUTIONS<sup>1</sup>

	Requirements				
Type of deposit <sup>2</sup>	Percent of deposits	Effective date			
Net transaction accounts <sup>3</sup> 1 \$0 million—\$46.8 million  2 More than \$46.8 million <sup>4</sup>	3 10	12/15/92 12/15/92			
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 provisions of the Monetary Control Act, depository institutions include commercial banks, mutual savings banks, savings and loan associations, credit unions, agencies and branches of foreign banks, and Edge corporations.

2. The Garn-St Germain Depository Institutions Act of 1982 (Public Law 97-320) requires that \$2 million of reservable liabilities of each depository institution be subject to a zero percent reserve requirement. The Board is to adjust the amount of reservable liabilities subject to this zero percent reserve requirement each year for the 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 to be made in the event of a decrease. On Dec. 15, 1992, the exemption was raised from \$3.6 million to \$3.8 million. The exemption applies in the following order: (1) net negotiable order of withdrawal (NOW) accounts (NOW accounts less allowable deductions); and (2) net other transaction accounts. The exemption applies only to accounts that would be subject to a 3 percent reserve requirement.

3. Include all deposits against which the account holder is permitted to make withdrawals by negotiable or transferable instruments, payment orders of withdrawal, and telephone and preauthorized transfers in excess of three per month for the purpose of making payments to third persons or others. However, money market deposit accounts (MMDAs) and similar 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 checks, are not transaction accounts (such

of which no more than three may be checks, are not transaction accounts (such accounts are savings deposits).

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 each year. Effective Dec. 15, 1992, for institutions reporting quarterly, and Dec. 24, 1992, for institutions reporting weekly, the amount was increased from \$42. Fullion to \$46.8 million.

4. The reserve requirement was reduced from 12 percent to 10 percent on Apr. 2, 1992, for institutions that report weekly, and on Apr. 16, 1992, for institutions that report quarterly.

2, 1992, for institutions that report weekly, and on Apr. 16, 1992, tor institutions that report quarterly.

5. 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. The reserve requirement on nonpersonal time deposits with an original maturity of 1½ years or more has been zero since Oct. 6, 1983.

For institutions that report quarterly, the reserve requirement on nonpersonal time deposits with an original maturity of less than 1½ years was reduced from 3 percent to zero on Jan. 17, 1991.

6. The reserve requirement on Eurocurrency liabilities was reduced from 3 percent to zero in the same manner and on the same dates as were the reserve requirement on nonpersonal time deposits with an original maturity of less than 1½ years (see note 4).

## A10 Domestic Financial Statistics □ June 1993

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

Millions of dollars

T	1000	1001	1002	1		1992			19	93
Type of transaction	1990	1991	1992	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
U.S. Treasury Securities										
Outright transactions (excluding matched transactions)										
Treasury bills   Gross purchases   Gross sales   Sales   Sales   Gross	24,739 7,291 241,086 4,400	20,158 120 277,314 1,000	14,714 1,628 308,699 1,600	271 0 25,041 0	595 0 22,277 0	4,072 0 28,907 0	1,064 0 25,468 0	3,669 0 29,562 0	0 0 24,542 0	0 0 19,832 0
Others within one year 5 Gross purchases 6 Gross sales 7 Maturity shifts 8 Exchanges 9 Redemptions	425 0 25,638 -27,424 0	3,043 0 24,454 -28,090 1,000	1,096 0 36,662 -30,543 0	0 0 4,448 -4,617 0	350 0 2,753 -1,905 0	0 0 2,010 -982 0	461 0 7,160 -4,615 0	0 0 2,777 -1,570 0	0 0 561 -1,202 0	0 0 2,892 -6,044 0
One to five years  10 Gross purchases  11 Gross sales  12 Maturity shifts  13 Exchanges	250 200 -21,770 25,410	6,583 0 -21,211 24,594	13,118 0 -34,478 25,811	400 0 -4,036 3,567	3,500 0 -2,753 1,905	200 0 -1,762 884	4,172 0 -6,800 3,415	200 0 -2,777 1,570	0 0 -64 882	0 0 -2,617 4,564
Five to ten years  14	0 100 -2,186 789	1,280 0 -2,037 2,894	2,818 0 -1,915 3,532	195 0 -412 700	750 0 0 0	0 0 -248 97	1,176 0 -187 800	100 0 0	0 0 -497 0	0 0 -98 0
More than ten years   18	0 0 -1,681 1,226	375 0 -1,209 600	2,333 0 -269 1,200	0 0 0 350	731 0 0 0	0 0 0	947 0 -173 400	0 0 0 0	0 0 0 0	0 0 -177 480
All maturities 22 Gross purchases 23 Gross sales 24 Redemptions	25,414 7,591 4,400	31,439 120 1,000	34,079 1,628 1,600	866 0 0	5,927 0 0	4,272 0 0	7,820 0 0	3,969 0 0	0 0 0	0 0 0
Matched transactions 25 Gross sales	1,369,052 1,363,434	1,570,456 1,571,534	1,482,467 1,480,140	103,708 101,410	116,331 115,579	116,024 114,917	115,020 117,020	144,232 142,578	114,543 116,510	111,491 113,349
Repurchase agreements <sup>2</sup> 27 Gross purchases 28 Gross sales	219,632 202,551	310,084 311,752	378,374 386,257	39,484 31,868	68,697 59,628	18,698 35,383	42,373 39,117	48,904 44,697	34,768 42,231	28,544 25,889
29 Net change in U.S. government securities	24,886	29,729	20,642	6,184	14,244	-13,520	13,075	6,521	-5,497	4,513
Federal Agency Obligations										
Outright transactions 30 Gross purchases 31 Gross sales 32 Redemptions	0 0 183	0 5 292	0 0 632	0 0 54	0 0 37	0 0	0 0 0	0 0 121	0 0 103	0 0 85
Repurchase agreements <sup>2</sup> 33 Gross purchases 34 Gross sales	41,836 40,461	22,807 23,595	14,565 14,486	601 548	3,222 1,800	1,778 3,253	2.760 2.506	1,601 1,224	2,237 2,868	1,107 832
35 Net change in federal agency obligations	1,192	-1,085	-554	-1	1,385	-1,475	254	256	-734	190
36 Total net change in System Open Market Account	26,078	28,644	20,089	6,183	15,629	-14,995	13,329	6,777	-6,231	4,703

<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> In July 1984 the Open Market Trading Desk discontinued accepting bankers acceptances in repurchase agreements.

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

			Wednesday		<u>==</u> :		End of mont	h
Account			1993				1993	
	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31	Jan. 31	Feb. 28	Mar. 31
			Co	nsolidated co	ndition staten	nent		
Assets								
1 Gold certificate account 2 Special drawing rights certificate account 3 Coin.	11,055 8,018 527	11,055 8,018 524	11,055 8,018 519	11,055 8,018 516	11,054 8,018 503	11,055 8,018 519	11,055 8,018 525	11,054 8,018 503
Loans 4 To depository institutions. 5 Other. 6 Acceptances held under repurchase agreements.	61 0 0	28 0 0	922 0 0	44 0 0	753 0 0	35 0 0	57 0 0	753 0 0
Federal agency obligations  7 Bought outright  8 Held under repurchase agreements	5,225 145	5,165 107	5,165 0	5,165 0	5,123 567	5,310 0	5,225 275	5,123 567
9 Total U.S. Treasury securities.	303,209	298,110	297,065	299,440	305,217	296,977	301,490	305,217
10 Bought outright <sup>2</sup> 11 Bills. 12 Notes. 13 Bonds 14 Held under repurchase agreements	296,079 142,862 117,955 35,261 7,130	297,810 144,593 117,955 35,261 300	297,015 143,799 117,955 35,261 50	299,440 143,083 120,211 36,146	298,461 142,104 120,211 36,146 6,756	296,977 143,761 118,179 35,037	298,835 145,618 117,955 35,261 2,655	298,461 142,104 120,211 36,146 6,756
15 Total loans and securities	308,639	303,410	303,152	304,649	311,660	302,321	307,046	311,660
16 Items in process of collection	6,914 1,027	5,020 1,027	6,129 1,029	7,148 1,030	5,338 1,031	4,565 1,026	4,937 1,026	5,338 1,031
Other assets 18 Denominated in foreign currencies <sup>3</sup>	22,276 6,708	22,301 6,497	22,326 6,636	22,384 7,361	22,328 8,092	21,980 7,572	22,263 6,577	22,328 8,092
20 Total assets	365,165	357,852	358,864	362,161	368,024	357,057	361,446	368,024
21 Federal Reserve notes	310,007	311,151	311,596	311,490	312,263	306,110	309,080	312,263
22 Total deposits	40,460	33,190	33,577	37,113	41,917	37,632	39,034	41,917
23 Depository institutions 24 U.S. Treasury—General account 25 Foreign—Official accounts 26 Other.	32,246 7,640 224 351	27,373 5,242 230 347	25,587 6,930 707 352	31,282 5,216 288 327	34,533 6,752 318 314	27,533 9,572 244 282	33,085 5,350 296 302	34,533 6,752 318 314
27 Deferred credit items	5,716 2,290	4,648 2,254	4,769 2,303	4,605 2,268	5,001 2,251	4,174 2,288	4,152 2,323	5,001 2,251
29 Total liabilities	358,473	351,243	352,245	355,476	361,430	350,204	354,589	361,430
30 Capital paid in	3,118 3,054 520	3,155 3,054 400	3,159 3,054 406	3,179 3,054 452	3,187 3,054 353	3,074 2,974 806	3,116 3,054 687	3,187 3,054 353
33 Total liabilities and capital accounts	365,165	357,852	358,864	362,161	368,024	357,057	361,446	368,024
MEMO 34 Marketable U.S. Treasury securities held in custody for foreign and international accounts	303,372	304,117	301,803	302,617	304,825	297,501	306,378	304,825
			Fe	ederal Reserve	note statem	ent		
35 Federal Reserve notes outstanding (issued to Bank)	371,135 61,128 310,007	372,175 61,024 311,151	372,940 61,344 311,596	373,719 62,230 311,490	373,886 61,624 312,263	366,486 60,376 306,110	370,756 61,676 309,080	373,886 61,624 312,263
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	11,055 8,018 0 290,934	11,055 8,018 0 292,078	11,055 8,018 0 292,524	11,055 8,018 0 292,417	11,054 8,018 0 293,190	11,055 8,018 0 287,037	11,055 8,018 0 290,007	11,054 8,018 0 293,190
42 Total collateral	310,007	311,151	311,596	311,490	312,263	306,110	309,080	312,263

<sup>1.</sup> Some of the data in this table also appear in the Board's H.4.1 (503) weekly statistical release. For ordering address, see inside front cover.

2. Includes securities loaned—fully guaranteed by U.S. Treasury securities pledged with Federal Reserve Banks—and excludes securities sold and scheduled to be bought back under matched sale-purchase transactions.

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

## A12 Domestic Financial Statistics □ June 1993

# 1.19 FEDERAL RESERVE BANKS Maturity Distribution of Loan and Security Holding <sup>1</sup> Millions of dollars

				Wednesday				End of month		
	Type and maturity grouping			1993			1993			
		Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31	Jan. 31	Feb. 28	Mar. 31	
1	Total loans	61	28	922	44	753	35	57	753	
2 3 4	Within fifteen days	54 7 0	15 13 0	920 3 0	42 2 0	741 12 0	33 1 0	54 3 0	741 12 0	
5	Total acceptances	0	0	0	0	0	0	0	0	
6 7 8	Within fifteen days Sixteen days to ninety days Ninety-one days to one year	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
9	Total U.S. Treasury securities	303,209	298,110	297,065	299,440	305,217	296,977	301,490	305,217	
10 11 12 13 14 15	Within fifteen days <sup>2</sup> Sixteen days to ninety days Ninety-one days to one year One year to five years Five years to ten years More than ten years	19,048 68,921 96,752 70,753 19,628 28,108	12,941 73,270 93,411 70,753 19,628 28,108	11,416 70,650 96,511 70,753 19,628 28,108	13,740 67,760 96,590 72,194 20,344 28,813	17,889 67,037 99,880 71,255 20,344 28,813	9,160 74,289 98,311 68,686 18,726 27,805	13,331 72,699 97,433 70,291 19,628 28,108	17,889 67,037 99,880 71,255 20,344 28,813	
16	Total federal agency obligations	5,370	5,272	5,165	5,164	5,690	5,310	5,500	5,690	
17 18 19 20 21 22	Within fifteen days <sup>2</sup> Sixteen days to ninety days Ninety-one days to one year One year to five years Five years to ten years More than ten years	255 789 1,094 2,379 711 142	148 748 1,094 2,379 761 142	271 543 1,069 2,429 711 142	271 543 1,069 2,429 711 142	855 507 1,057 2,419 711 142	183 840 1,023 2,426 696 142	723 513 1,022 2,389 711 142	855 507 1,057 2,419 711 142	

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

#### 1.20 AGGREGATE RESERVES OF DEPOSITORY INSTITUTIONS AND MONETARY BASE<sup>1</sup>

Billions of dollars, averages of daily figures

Dimons of donars, averages of daily figures					<del> </del>							
	1989	1990	1991	1992			1992 <sup>r</sup>			1993		
Item	Dec.	Dec.	Dec.	Dec. <sup>r</sup>	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Adjusted for	Seasonally 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>3</sup> 4 Required reserves 5 Monetary base <sup>5</sup>	40.49 <sup>r</sup> 40.23 <sup>r</sup> 40.25 <sup>r</sup> 39.57 <sup>r</sup> 267.73 <sup>r</sup>	41.77 <sup>r</sup> 41.44 <sup>r</sup> 41.46 <sup>r</sup> 40.10 <sup>r</sup> 293.19 <sup>r</sup>	45.53 <sup>r</sup> 45.34 <sup>r</sup> 45.34 <sup>r</sup> 44.56 <sup>r</sup> 317.17 <sup>r</sup>	54.35 54.23 54.23 53.20 350.80	50.34 50.09 50.09 49.41 336.84	51,27 50.99 50.99 50.28 341.59	52.84 52.69 52.69 51.76 344.85	53.82 53.71 53.71 52.77 347.83	54.35 54.23 54.23 53.20 350.80	54.67 <sup>r</sup> 54.50 <sup>r</sup> 54.50 <sup>r</sup> 53.41 <sup>r</sup> 353.22 <sup>r</sup>	54.92 54.88 54.88 53.82 355.74	55,17 55,08 55,08 53,95 358,38
	Not seasonally adjusted											
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>	41.77 41.51 41.53 40.85 271.18	43.07 42.74 42.77 41.40 296.68	46.98 46.78 46.78 46.00 321.07	56.06 55.93 55.93 54.90 354.55	49.78 49.53 49.53 48.84 336.57	51.07 50.78 50.78 50.08 340.08	52.62 52.47 52.47 51.54 343.63	54.08 53.97 53.97 53.04 347.89	56.06 55.93 55.93 54.90 354.55	55.97 55.80 55.80 54.71 354.41	53.81 53.77 53.77 52.71 353.18	54.18 54.09 54.09 52.97 356.00
Not Adjusted for Changes in Reserve Requirements <sup>10</sup>		1										
11 Total reserves 11 12 Nonborrowed reserves 13 Nonborrowed reserves plus extended credit 13 14 Required reserves 15 Monetary base 12 16 Excess reserves; 13 17 Borrowings from the Federal Reserve	62.81 62.54 62.56 61.89 292.55 .92 .27	59.12 58.80 58.82 57.46 313.70 1.66 .33	55.53 55.34 55.34 54.55 333.61 .98 .19	56.54 56.42 56.42 55.39 360.90 1.16	50.16 49.91 49.91 49.23 342.49 .94 .25	51.52 51.23 51.23 50.53 346.21 .99 .29	53.14 52.99 52.99 52.06 349.81 1.07 .14	54.67 54.56 54.56 53.62 354.25 1.04 .10	56.54 56.42 56.42 55.39 360.90 1.16 .12	56.00 55.84 55.84 54.74 <sup>r</sup> 360.88 <sup>r</sup> 1.26 .17	53.88 53.84 53.84 52.78 359.56 1.10 .05	54.30 54.21 54.21 53.08 362.59 1.21 .09

1. Latest monthly and biweekly figures are available from the Board's H.3 (502) weekly statistical release. Historical data and estimates of the impact on required reserves of changes in reserve requirements are available from the Monetary 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 total 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 1).

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 there is with traditional short-term adjustment credit, the money market impact of extended credit is similar to that of nonborrowed reserves.

6. The seasonally adjusted, break-adjusted monetary base consists of (1) 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 vault cash and the amount applied to satisfy current reserve requirements.

cash and the amount applied to satisfy current reserve requirements.

7. Break-adjusted total reserves equal break-adjusted required reserves (line 9) plus excess reserves (line 16).

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. Break-adjusted 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 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 changes in reserve requirements.

11. Reserve balances with Federal Reserve Banks plus vault cash used to satisfy 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 Vault 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 (CRR), currency and vault cash figures have been measured over the computation periods ending on Mondays. periods ending on Mondays.

13. Unadjusted total reserves (line 11) less unadjusted required reserves (line 14).

## A14 Domestic Financial Statistics □ June 1993

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

Billions of dollars, averages of daily figures

	1989	1990	1991	1992	1992		1993			
Item	Dec.r	Dec.r	Dec.	Dec.	Dec.r	Jan. <sup>r</sup>	Feb.	Mar.		
				Seasonall	y adjusted					
Measures <sup>2</sup> 1 M1 2 M2 3 M3 4 L 5 Debt.	794.6	827.2	899.3	1,026.6	1,026.6	1,033.2	1,032.8	1,034.9		
	3,233.3	3,345.5	3,445.8	3,497.0	3,497.0	3,486.9	3,474.0	3,471.7		
	4,056.1	4,116.7	4,168.1	4,166.5	4,166.5	4,140.6	4,132.7	4,127.7		
	4,886.1	4,965.2	4,982.2	5,051.4	5,051.4	5,029.4	5,024.8	n.a.		
	10,076.7	10,751.3	11,192.7 <sup>r</sup>	11,768.2	11,768.2	11,800.0	11,843.0	n.a.		
MI components 6 Currency 7 Travelers checks 8 Demand deposits 9 Other checkable deposits <sup>6</sup>	222.7	246.7	267.2	292.3	292.3	294.8	296.9	299.0		
	6.9	7.8	7.8	8.1	8.1	8.0	8.0	8.0		
	279.8	278.2	290.5	340.9	340.9	341.9	341.9	341.9		
	285.3	294.5	333.8	385.2	385.2	388.5	386.1	386.0		
Nontransaction components 10 In M2'	2,438.7	2,518.3	2,546.6	2,470.4	2,470.4	2,453.8	2,441.2	2,436.7		
	822.8	771.2	722.3	669.5	669.5	653.7	658.7	656.1		
Commercial banks 1.25 Savings deposits, including MMDAs 1.25 Small time deposits 10, 11 Large time deposits 10, 11	541.4	582.2	666.2	756.1	756.1	754.1	755.8	754.2		
	534.9	610.3	601.5	507.0	507.0	502.8	504.1	502.9		
	387.7	368.7	341.3	290.2	290.2	283.7	281.2	276.8		
Thrift institutions 15 Savings deposits, including MMDAs 16 Small time deposits 17 Large time deposits to	349.6	338.6	376.3	429.9	429.9	430.3	426.7	425.1		
	617.8	562.0	463.2	363.2	363.2	358.2	351.0	347.3		
	161.1	120.9	83.4	67.3	67.3	67.1	65.5	64.5		
Money market mutual funds 18 General purpose and broker-dealer	317.4	350.5	363.9	342.3	342.3	339.6	333.6	333.1		
	108.8	135.9	182.1	202.3	202.3	197.7	201.9	200.5		
Debt components 20 Federal debt	2,249.5	2,493.4	2,764.8	3,068.8	3,068.8	3,076.3	3,090.0	n.a.		
	7,827.2	8,257.9	8,428.0 <sup>r</sup>	8,699.4	8,699.4	8,723.7	8,753.0	n.a.		
	Not seasonally adjusted									
Measures <sup>2</sup> 22 MI 23 M2 24 M3 25 L 26 Debt.	811.5	843.7	916.4	1,045.7	1,045.7	1,040.1	1,022.0	1,030.4		
	3,245.1	3,357.0	3,457.9	3,511.2	3,511.2	3,492.7	3,468.0	3,478.5		
	4,066.4	4,126.3	4,178.1	4,178.5	4,178.5	4,143.2	4,130.1	4,137.7		
	4,906.0	4,986.5	5,004.2	5,076.3	5,076.3	5,046.3	5,025.1	n.a.		
	10,063.6	10,739.9	11,182.8 <sup>r</sup>	11,760.6	11,760.6	11,787.2	11,811.8	n.a.		
MI components 27 Currency 28 Travelers checks 29 Demand deposits 30 Other checkable deposits 6	225.3	249.5	269.9	295.0	295.0	293.6	295.3	297.9		
	6.5	7.4	7.4	7.8	7.8	7.8	7.7	7.8		
	291.5	289.9	302.9	355.3	355.3	346.2	334.3	336.3		
	288.1	296.9	336.3	387.7	387.7	392.6	384.6	388.5		
Nontransaction components 31 In M2'	2,433.6	2,513.2	2,541.5	2,465.4	2,465,4	2,452.6	2,446.0	2,448.1		
	821.4	769.3	720.1	667.3	667.3	650.5	662.1	659.2		
Commercial banks 33 Savings deposits, including MMDAs 4 Small time deposits; ti, 11 35 Large time deposits; ti, 11	543.0	580.1	663.3	752.3	752.3	749.5	753.1	757.7		
	533.8	610.5	602.0	507.8	507.8	504.6	504.8	502.3		
	386.9	367.7	340,1	289.1	289.1	281.7	280.8	277.7		
Thrift institutions 36 Savings deposits, including MMDAs 37 Small time deposits 10 38 Large time deposits 10	347.4	337.3	374.7	427.8	427.8	427.7	425.2	427.1		
	616.2	562.1	463.6	363.8	363.8	359.4	351.4	346.9		
	162.0	120.6	83.1	67.1	67.1	66.6	65.4	64.7		
Money market mutual funds 39 General purpose and broker-dealer	315.7	348.4	361.5	340.0	340.0	339.2	339.8	342.2		
	109.1	136.2	182.4	202.4	202.4	202.3	210.3	203.2		
Repurchase agreements and eurodollars 41 Overnight	77.5	74.7	76.3	73.9	73.9	72.3	71.6	71.9		
	178.4	158.3	130.1	126.2	126.2	123.0	127.6	133.5		
Debt components 43 Federal debt	2,247.5	2,491.3	2,765.0	3,069.8	3,069.8	3,076.2	3,087.3	n.a.		
	7,816.2	8,248.5	8,417.9 <sup>r</sup>	8,690.8	8,690.8	8,711.1	8,724.4	n.a.		

For notes see following page.

#### NOTES TO TABLE 1.21

1. Latest monthly and weekly figures are available from the Board's H.6 (508)

Latest monthly and weekly figures are available from the Board's H.6 (508) weekly statistical release. Historical data are available from the Money and Reserves Projection 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 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 due to depository institutions, let I.S. government and foreign banks and official institutions less cash terms in

of depository institutions; (2) travelers checks of nonbank issuers; (3) demand deposits at all commercial banks other than those due to depository institutions, the U.S. government, and 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 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: M1 plus (1) overnight (and continuing-contract) repurchase agreements (RPs) issued by all depository institutions and overnight Eurodollars issued to U.S. residents by foreign branches of U.S. banks worldwide, (2) savings (including MMDAs) and small time deposits (time deposits—including retail RPs—in amounts of less than \$100,000, and (3) balances in both taxable and tax-exempt general purpose and broker-dealer money market funds. Excludes individual retirement accounts (IRAs) and Keogh balances held by U.S. commercial banks, money market funds. Also excludes all balances held by U.S. commercial banks, and the U.S. government. Seasonally adjusted M2 is computed by adjusting its non-M1 component as a whole and then adding this result to seasonally adjusted M1.

M3: M2 plus (1) large time deposits and term RP liabilities (in amounts of \$100,000 or more) issued by all depository institutions, (2) term Eurodollars held by U.S. residents at foreign branches of U.S. banks worldwide and at all banking offices in the United Kingdom and Canada, and (3) balances in both taxable and tax-exempt, institution-only money market funds. Seasonally adjusted M2.

L. M3 plus the nonbank public holdings of U.S. savings bonds, short-term Treasury securities, commercial paper, and bankers acceptances, net of money

market fund holdings of these assets. Seasonally adjusted L is computed by summing U.S. savings bonds, short-term Treasury securities, commercial paper, and bankers acceptances, each seasonally adjusted separately, and then adding this result to M3.

this result to M3.

Debt: Debt of domestic nonfinancial sectors consists of outstanding credit market debt of the U.S. government, state and local governments, and private nonfinancial sectors. Private debt consists of corporate bonds, mortgages, consumer credit (including bank loans), other bank loans, commercial paper, bankers acceptances, and other debt instruments. Data are derived from the Federal Reserve Board's flow of funds accounts. Debt data are based on monthly averages. This sum is seasonally adjusted as a whole.

3. Currency outside the U.S. Treasury, Federal Reserve Banks, and vaults of depository institutions.

4. Outstanding amount of U.S. dollar-denominated travelers checks of non-

 Outstanding amount of U.S. dollar-denominated travelers checks of non-bank 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 institutions, less cash items in the process of collection and Federal Reserve float.
  6. Consists of NOW and ATS account balances at all depository institutions,
- credit union share draft account balances, and demand deposits at thrift institu-
- 7. Sum of (1) overnight RPs and overnight Eurodollars, (2) money market fund balances (general purpose and broker-dealer), (3) MMDAs, and (4) savings and small time deposits.
- 8. Sum of (1) large time deposits, (2) term RPs, (3) term Eurodollars of U.S. residents, and (4) money market fund balances (institution-only), less a consolidation adjustment that represents the estimated amount of overnight RPs and

dation adjustment that represents the estimated amount of overnight RPs and Eurodollars held by institution-only money market funds.

9. 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, and foreign banks and official institutions.

#### Domestic Financial Statistics ☐ June 1993 A16

## 1.22 BANK DEBITS AND DEPOSIT TURNOVER<sup>1</sup>

Debits are in billions of dollars; turnover is ratio of debits to deposits; monthly data are at annual rates

		2	1992 <sup>2</sup>			1992			1993			
Bank group, or type of customer	1990 <sup>2</sup>	1991 <sup>2</sup>	1992		Sept.	Oct.r	Nov.r	Dec.	Jan.			
DEBITS TO	_	Seasonally adjusted										
Demand deposits <sup>3</sup> 1 All insured banks	277,157.5	277,758.0	315,806.1	306,923.0	346,658.3	326,893.0	322,187.1	331,038.8	300,484.5			
	131,699.1	137,352.3	165,572.7	157,221.1	184,740.9	176,372.6	173,393.4	176,089.1	159,069.5			
	145,458.4	140,405.7	150,233.5	149,702.0	161,917.4	150,520.4	148,793.7	154,949.8	141,415.0			
4 Other checkable deposits <sup>4</sup> 5 Savings deposits including MMDAs <sup>5</sup>	3,349.0	3,645.5	3,788.1	3,763.9	3,942.1	3,700.5	3,610.0	3,683.9	3,311.3			
	3,483.3	3,266.1	3,331.3	3,139.8	3,559.1	3,468.2	3,497.2	3,407.3	3,054.9			
Deposit Turnover												
Demand deposits <sup>3</sup> 6 All insured banks. 7 Major New York City banks. 8 Other banks.	797.8	803.5	832.4	800.0	892.4	818.9	796.1	830.5	748.1			
	3,819.8	4,270.8	4,797.9	4,550.9	5,254.5	4,855.5	4,624.0	4,693.3	4,151.2			
	464.9	447.9	435.9	428.8	458.3	414.8	405.2	429.1	389.2			
9 Other checkable deposits <sup>4</sup>	16.5	16.2	14.4	14.2	14.7	13.5	12.9	13.1	11.6			
10 Savings deposits including MMDAs <sup>5</sup>	6.2	5.3	4.7	4.4	4.9	4.7	4.7	4.6	4.1			
<b>D</b> ЕВІТЅ ТО				Not s	seasonally adj	usted						
Demand deposits <sup>3</sup> 11 All insured banks 12 Major New York City banks 13 Other banks.	277,290.5	277,715.4	315,808.2	315,724.4	334,831.5	335,289.0	308,015.6	340,982.1	304,640.9			
	131,784.7	137,307.2	165,595.0	162,973.3	178,998.2	182,584.2	167,578.4	179,987.6	159,075.0			
	145,505.8	140,408.3	150,213.3	152,751.0	155,833.4	152,704.8	140,437.2	160,994.5	145,565.9			
14 Other checkable deposits <sup>4</sup>	3,346.7	3,645.6	3,788.1	3,696.9	3,945.7	3,689.7	3,351.3	3,849.3	3,616.8			
15 Savings deposits including MMDAs <sup>5</sup>	3,483.0	3,267.7	3,329.0	3,173.5	3,374.3	3,403.2	3,240.4	3,588.0	3,273.0			
DEPOSIT TURNOVER												
Demand deposits <sup>3</sup> 16 All insured banks 17 Major New York City banks 18 Other banks	798.2	803.4	832.5	836.5	864.2	839.2	754.3	815.2	739.7			
	3,825.9	4,274.3	4,803.5	4,870.2	5,180.1	5,025.6	4,494.4	4,418.1	3,933.2			
	465.0	447.9	436.0	444.1	441.6	420.5	378.5	426.5	392.0			
19 Other checkable deposits <sup>4</sup>	16.4	16.2	14.4	14.1	14.9	13.7	12.1	13.5	12.5			
20 Savings deposits including MMDAs <sup>5</sup>	6.2	5.3	4.7	4.4	4.6	4.6	4.4	4.8	4.4			

<sup>1.</sup> Historical tables containing revised data for earlier periods can be obtained from the Banking and Money Market Statistics Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, DC 20551.

Data in this table also appear on the Board's G.6 (406) monthly statistical release. For ordering address, see inside front cover.

Annual averages of monthly figures.
 Represents accounts of individuals, partnerships, and corporations and of states and political subdivisions.
 Accounts authorized for negotiable orders of withdrawal (NOWs) and accounts authorized for automatic transfer to demand deposits (ATSs).
 Money market deposit accounts.

## 1.23 LOANS AND SECURITIES All Commercial Banks<sup>1</sup>

Billions of dollars, averages of Wednesday figures

					1992						1993	
Item				т	1	г	1	<del>,</del>	т		1775	
	Apr.	May	June	July	Aug.	Sept. <sup>r</sup>	Oct. <sup>r</sup>	Nov. <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb.	Mar.
						Seasonall	y adjusted					
l Total loans and securities <sup>1</sup>	2,874.3	2,875.3	2,882.8	2,886.9	2,902.2	2,918.2	2,930.2	2,937.4	2,943.7	2,939.8	2,944.5	2,958.0
2 U.S. government securities	590.8	600.2	610.7	619.2	632.6	640.8	648.7	653.4	659.8	659.9	670.5	685.1
	178.5	176.9	175.8	177.9	178.2	178.4	179.5	177.7	176.4	174.2	175.6	177.6
	2,104.9	2,098.2	2,096.2	2,089.8	2,091.4	2,099.0	2,101.9	2,106.2	2,107.5	2,105.6	2,098.4	2,095.3
	609.0	607.6	604.6	602.5	601.4	601.1	600.9	601.3	599.0	600.2	598.3	594.2
	6.5	6.7	6.3	6.5	6.5	6.3	7.4	7.6	7.1	6.9	8.2	8.4
industrial  8 U.S. addressees <sup>3</sup> 9 Non-U.S. addressees <sup>1</sup> 10 Real estate 11 Individual 12 Security 13 Nonbank financial	602.6	600.9	598.4	596.0	594.9	594.8	593.5	593.7	591.9	593.2	590.1	585.8
	593.2	590.8	588.3	585.3	584.3	583.5	582.4	582.4	580.8	581.9	578.6	573.9
	9.4	10.1	10.1	10.7	10.6	11.3	11.1	11.3	11.1	11.4	11.5	11.9
	881.8	883.3	881.8	881.5	883.1	887.1	892.3	893.9	893.9	890.4	888.6	888.9
	360.8	359.2	359.0	358.6	357.4	357.1	356.1	355.7	355.7	358.2	360.2	360.7
	63.4	60.9	63.3	60.5	61.6	64.0	64.7	64.3	65.0	63.2	61.9	62.8
institutions	43.2	43.3	42.4	41.5	42.0	44.1	44.2	45.1	44.1	45.5	45.3	45.0
	34.3	34.3	34.6	34.9	35.3	35.2	35.1	35.1	34.8	34.4	34.3	34.2
subdivisions  subdivisions  Foreign banks  Foreign official institutions  Lease-financing receivables  All other loans	27.6	27.3	26.8	26.2	25.9	25.8	25.4	25.2	24.8	24.3	23.7	23.5
	6.7	7.0	7.5	7.7	7.2	7.9	7.3	7.0	7.0	6.9	7.7	7.3
	2.0	2.0	2.0	2.2	2.3	2.5	2.4	2.8	2.9	2.9	3.1	3.0
	31.1	30.9	31.0	30.8	30.8	31.0	30.7	30.6	30.6	30.0	29.9	29.9
	45.1	42.4	43.3	43.2	44.3	43.1	42.8	45.3	49.9	49.7	n.a.	n.a.
					١	lot seasona	ılly adjuste	d				
20 Total loans and securities <sup>1</sup>	2,875.8	2,870.7	2,882.9	2,876.1	2,894.5	2,915.7	2,929.4	2,944.0	2,953.5	2,941.9	2,947.4	2,961.8
21 U.S. government securities	592.6	599.4	608.9	615.3	631.3	638.9	646.5	656.1	658.5	660.3	674.1	690.9
	178.0	176.5	175.4	176.8	178.1	178.1	179.8	178.8	176.6	174.8	175.8	177.3
	2,105.2	2,094.8	2,098.7	2,084.0	2,085.0	2,098.7	2,103.0	2,109.1	2,118.4	2,106.7	2,097.5	2,093.7
	612.1	609.4	606.5	601.5	597.6	597.5	598.5	601.5	602.0	598.6	597.5	597.4
	6.3	6.6	6.2	6.3	6.3	6.2	7.2	7.8	7.4	7.1	8.5	8.5
industrial	605.8	602.7	600.3	595,2	591.4	591.3	591.3	593.7	594.6	591.5	588.9	588.9
	596.3	592.7	589.5	584,2	580.5	580.2	580.5	583.0	583.6	580.2	577.4	577.2
	9.5	10.0	10.8	11.0	10.8	11.1	10.8	10.7	11.0	11.3	11.6	11.8
	880.7	883.4	882.0	881,6	883.7	887.9	893.0	895.4	895.2	890.2	886.8	886.3
	358.1	357.4	357.2	356,4	356.9	358.7	356.5	356.5	360.1	362.3	360.2	358.2
	66.9	58.4	63.5	58,0	59.4	62.5	64.2	63.6	65.7	64.7	64.9	64.8
32 Nonbank financial institutions	42.6	42.8	42.9	41.3	41.8	43.6	43.8	45.4	46.1	45.7	45.2	44.6
	33.5	34.0	35.1	35.8	36.5	36.6	36.0	35.1	34.6	33.6	33.0	32.9
state and pointed subdivisions  55 Foreign banks 66 Foreign official institutions 77 Lease-financing receivables 78 All other loans	27.6	27.3	26.8	26.1	25.9	25.9	25.5	25.2	24.8	24.1	23.6	23.5
	6.4	6.8	7.3	7.8	7.0	8.0	7.6	7.3	7.4	6.9	7.5	7.0
	2.0	2.0	2.0	2.2	2.3	2.5	2.4	2.8	2.9	2.9	3.1	3.0
	31.2	30.9	31.0	30.6	30.6	30.8	30.6	30.5	30.5	30.3	30.2	30.1
	44.1	42.5	44.4	42.6	43.2	44.5	44.6	45.7	49.1	47.5	n.a.	n.a.

Adjusted to exclude loans to commercial banks in the United States.
 Includes nonfinancial commercial paper held.

<sup>3.</sup> United States includes the fifty states and the District of Columbia.

#### Domestic Financial Statistics □ June 1993 A18

#### 1.24 MAJOR NONDEPOSIT FUNDS OF COMMERCIAL BANKS<sup>1</sup>

Billions of dollars, monthly averages

					1992						1993	
Source of funds	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
						Seasonall	y adjusted	ı				
1 Total nondeposit funds <sup>2</sup>	291.9	292.4	295.9	297.0	302.4	309.4 <sup>r</sup>	304.9 <sup>r</sup>	309.1 <sup>r</sup>	312.9	312.9 <sup>r</sup>	312.3	323.9
	50.9	53.7	61.2	61.7	61.4	64.0	63.8 <sup>r</sup>	67.9 <sup>r</sup>	71.1	74.1 <sup>r</sup>	73.3	80.0
Borrowings from other than commercial banks in United States     Domestically chartered banks.     Foreign-related banks.	241.0	238.7	234.7	235.3	241.1	245.4 <sup>r</sup>	241.1	241.2	241.8 <sup>r</sup>	238.8	239.0	243.9
	154.6	151.8	147.6	147.2	151.5	153.4	154.5	153.7	154.3	155.1	156.1	161.1
	86.5	86.9	87.2	88.1	89.6	92.1 <sup>r</sup>	86.6	87.5	87.4	83.7	82.9	82.8
		<b>+</b>		!	N	ot season	ally adjust	ed		•		
6 Total nondeposit funds <sup>2</sup> . 7 Net balances due to related foreign offices <sup>3</sup> 8 Domestically chartered banks 9 Foreign-related banks 10 Borrowings from other than commercial banks in United States <sup>4</sup>	288.4	297.1	295.2	291.5	297.5	304.0°	307.2 <sup>r</sup>	314.3 <sup>r</sup>	312.7	311.8	316.6	328.8
	47.9	55.9	59.2	58.4	57.6	61.6	65.0 <sup>r</sup>	69.6 <sup>r</sup>	75.2	76.7	75.1	80.7
	-4.6	-4.5	-6.3	-7.0	-9.3	-11.0	-13.4 <sup>r</sup>	-12.6 <sup>r</sup>	-15.1	-15.9	-10.6	-7.0
	52.6	60.4	65.6	65.4	66.9	72.6	78.3 <sup>r</sup>	82.1 <sup>r</sup>	90.3	92.6	85.7	87.8
11 Domestically chartered banks	240.5	241.2	236.0	233.1	239.9	242.3 <sup>r</sup>	242.3	244.8	237.5	235.1	241.5	248.0
	152.7	153.3	147.4	144.1	150.4	152.2	155.7	158.1	153.4	152.1	157.8	164.0
borrowings <sup>5</sup>	149.2	149.4	143.3	139.9	146.5	148.4	152.1	154.0	149.4	148.4	154.5	n.a.
	3.4	3.9	4.1	4.2	3.9	3.8	3.6	4.1	4.0	3.6	3.2	n.a.
	87.8	87.9	88.6	89.0	89.5	90.1 <sup>r</sup>	86.6	86.6	84.1	83.0	83.7	84.0
MEMO Gross large time deposits <sup>7</sup> 15 Seasonally adjusted	401.5	397.5	393.3	387.7	385.8	383.2	375.7	371.3	366.6	359.9°	358.4	355.7
	400.5	399.4	394.9	387.4	387.1	383.6	374.9	371.1	365.5	358.0°	358.0	356.6
U.S. Treasury demand balances at commercial banks <sup>8</sup> 17 Seasonally adjusted	20.8	19.2	24.7	23.1	28.0	24.1	21.5	20.7	20.4	25.6	23.6	18.8
	17.7	21.0	25.2	19.6	22.4	28.6	21.9	16.5	19.5	33.1 <sup>r</sup>	29.5	17.3

<sup>1.</sup> Commercial banks are nationally and state-chartered banks in the fifty states and the District of Columbia, agencies and branches of foreign banks, New York investment companies majority owned by foreign banks, and Edge Act corporations owned by domestically chartered and foreign banks.

Data in this table also appear in the Board's G.10 (411) release. For ordering address, see inside front cover.

2. Includes federal funds, repurchase agreements (RPs), and other borrowing from nonbanks and net balances due to related foreign offices.

3. Reflects net positions of U.S. chartered banks, Edge Act corporations, and U.S. branches and agencies of foreign banks with related foreign offices plus net positions with own International Banking Facilities (IBFs).

4. Borrowings through any instrument, such as a promissory note or due bill, given for the purpose of borrowing money for the banking business. This includes

borrowings from Federal Reserve Banks and from foreign banks, term federal funds, loan RPs, and sales of participations in pooled loans.

5. Figures are based on averages of daily data reported weekly by approximately 120 large banks and quarterly or annual data reported by other banks.

6. Figures are partly averages of daily data and partly averages of Wednesday data.

7. Time deposits in denominations of \$100,000 or more. Estimated averages of daily data.

daily data.

8. U.S. Treasury demand deposits and Treasury tax and loan notes at commercial banks. Averages of daily data.

## 1.25 ASSETS AND LIABILITIES OF COMMERCIAL BANKS<sup>1</sup> Wednesday figures Millions of dollars

Account	j 				1993				
Account	Feb. 3	Feb. 10	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31
All Commercial Banking Institutions <sup>2</sup>					ĺ				
Assets  1 Loans and securities 2 Investment securities 3 U.S. government securities 4 Other 5 Trading account assets 6 U.S. government securities 7 Other securities 8 Other trading account assets 9 Total loans 10 Interbank loans 11 Loans excluding interbank 12 Commercial and industrial 13 Real estate 14 Revolving home equity 15 Other 16 Individual 17 All other 18 Total cash assets 19 Balances with Federal Reserve Banks 20 Cash in vault 21 Demand balances at U.S. depository institutions 22 Cash items 23 Other cash assets	3,118,497 809,779 648,632 161,147 38,214 24,484 2,359 11,372 2,270,504 165,927 2,104,577 601,125 887,582 73,081 814,501 361,281 361,281 254,588 210,622 32,591 29,340 29,694 40,366 289,163	3,101,583 807,871 646,996 160,875 37,268 23,426 2,747 11,095 2,256,444 157,585 2,098,860 73,066 815,703 360,843 252,367 195,806 23,825 30,913 27,810 71,524 41,307 287,081	3,107,865 808,337 646,885 161,452 40,623 25,915 2,617 12,091 2,258,906 162,766 2,096,139 73,064 813,074 360,669 252,378 227,314 28,745 32,630 33,517 91,596 40,232 282,083	3,085,402 813,306 651,254 162,052 37,014 22,989 2,217 11,808 2,235,082 145,781 2,089,302 595,478 884,179 73,060 811,119 359,614 250,031 199,105 27,888 32,474 69,239 40,292 281,425	3,132,722 820,520 657,933 162,587 39,280 24,254 2,109 12,917 2,272,922 169,158 2,103,764 599,000 887,717 73,516 814,201 358,413 258,635 210,519 28,655 29,708 30,533 81,013 40,032 290,299	3,120,772 824,462 661,035 163,428 39,929 25,886 2,199 11,843 2,256,381 162,802 2,093,579 596,470 888,194 73,472 357,595 251,320 195,068 24,017 30,973 28,282 70,767 40,452 287,240	3,131,520 828,667 666,417 162,250 41,232 26,785 2,284 12,162 2,261,622 160,438 2,101,184 559,488 885,691 73,473 812,218 358,081 257,925 199,599 21,818 30,940 29,443 75,241 41,580 280,677	3,101,833 830,804 667,899 162,905 37,743 23,408 2,427 11,908 2,233,286 145,064 2,088,223 596,290 884,738 73,473 811,265 357,791 249,404 197,328 27,982 31,483 26,633 26,633 26,633 26,633 28,052	3,125,370 835,164 672,074 163,089 37,326 2,2823 2,768 11,735 2,252,880 166,903 2,085,977 596,765 885,256 73,602 241,971 30,455 31,971 30,455 31,731 39,933 248,530
25 Total assets	3,618,283	3,584,470	3,617,262	3,565,933	3,633,540	3,603,079	3,611,796	3,582,213	3,621,871
Liabilities  26 Total deposits	2,490,711 745,285 4,190 39,279 701,816 745,372 636,553 363,500 512,214 36,822 475,392 340,395	2,478,784 731,402 3,092 36,591 691,719 749,492 634,889 363,001 494,457 31,599 462,858 335,259	2,503,772 758,882 3,482 45,159 710,240 750,326 633,433 361,131 504,864 21,749 483,115 332,448	2,462,605 718,645 3,645 36,419 678,581 746,203 633,159 364,598 487,072 16,048 471,024 338,454	2,503,169 754,761 3,388 38,867 712,506 750,723 636,033 361,652 505,450 5,636 499,814 345,622	2,482,906 734,576 2,967 35,623 695,987 754,157 635,233 358,940 495,543 8,032 487,511 344,869	2,482,159 739,186 2,884 38,026 698,276 752,182 633,494 357,297 507,327 21,073 486,254 342,690	2,462,845 725,248 3,252 36,618 685,378 749,917 631,915 355,764 492,766 15,814 476,952 347,348	2,491,606 757,356 3,882 35,411 718,064 751,509 631,077 351,664 496,115 14,856 481,259 352,502
38 Total liabilities	3,343,320 274,963	3,308,500 275,970	3,341,083 276,180	3,288,130 277.802	3,354,241 279,298	3,323,317 279,762	3,332,176 279.620	<b>3,302,959</b> 279,254	3,340,223 281,648
39 Residual (assets less flaolities)	2/4,303	2/3,9/0	270,180	211,002	217,298	2/9,/02	2/9,020	417,434	201,048

Footnotes appear on the following page.

## A20 Domestic Financial Statistics □ June 1993

## 1.25 ASSETS AND LIABILITIES OF COMMERCIAL BANKS<sup>1</sup> Wednesday figures—Continued Millions of dollars

<del></del>					1993				
Account	ļ	1			1223	<del>, </del>	Γ		
	Feb. 3	Feb. 10	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31
Domestically Chartered Commercial Banks <sup>4</sup>									
Assets   40   Loans and securities   41   Investment securities   42   U.S. government securities   43   Other   44   Trading account assets   45   U.S. government securities   46   Other securities   47   Other trading account assets   48   Total loans   10   Total loans   10	2,760,488 743,685 604,437 139,248 38,214 24,484 2,359 11,372 1,978,590 144,615 1,833,975 437,982 835,517 73,081 762,436 361,281 199,194 184,063 31,768 29,307 28,074 76,086 18,226 177,133	2,745,746 743,335 604,389 138,946 37,268 23,426 2,747 11,095 1,965,143 134,598 1,830,545 435,871 836,707 73,066 763,641 360,843 197,124 168,451 23,330 30,880 26,277 68,711 18,827 177,954	2,751,436 741,316 601,850 139,466 40,623 25,915 2,617 12,091 1,969,497 139,173 1,830,324 436,827 834,275 73,064 761,210 360,069 199,153 201,564 27,962 32,592 31,592	2,733,909 745,544 605,669 139,875 37,014 22,989 2,217 11,808 1,951,351 126,340 1,825,011 436,084 832,704 4359,614 1596,610 172,647 27,409 32,440 27,094 66,781 18,457 171,332	2,770,088 751,900 611,858 140,042 39,280 24,254 2,109 12,917 1,978,908 143,35,511 438,750 836,523 73,516 763,007 358,413 201,825 182,687 27,784 29,675 29,007 78,875 16,769	2,760,187 754,262 613,870 140,392 39,929 25,886 2,199 11,843 1,965,996 135,272 11,830,725 73,472 763,780 357,595 198,369 168,152 23,516 30,940 26,800 68,466 173,380	2,769,015 756,955 617,447 139,508 41,232 26,785 2,284 12,162 1,970,829 137,059 1,833,769 1,833,769 238,4,378 73,473 760,905 358,081 202,358 171,611 20,885 30,907 27,928 73,073 18,241 171,004	2,745,135 760,059 619,836 140,224 37,743 23,408 2,427 11,908 1,947,333 1,823,500 436,722 833,614 1357,791 195,373 169,815 27,474 31,449 27,045 177,753 177,753	2,762,833 762,295 621,494 140,801 37,326 22,823 2,768 11,735 1,963,212 136,765 1,826,446 439,124 835,440 73,602 761,838 358,951 192,932 182,901 192,932 31,576 26,606 78,439 17,048 181,496
64 Total assets	3,121,685	3,092,151	3,128,276	3,077,888	3,128,711	3,101,718	3,111,629	3,086,415	3,127,230
Liabilities  65 Total deposits  66 Transaction accounts  67 Demand, U.S. government  68 Demand, depository institutions  69 Other demand and all checkable deposits  70 Savings deposits (excluding checkable).  71 Small time deposits  72 Time deposits over \$100,000  73 Borrowings  74 Treasury tax and loan notes  75 Other  76 Other liabilities.	2,333,422 734,352 4,190 36,780 693,382 740,868 634,106 224,097 385,627 36,822 348,805 131,282	2,321,559 720,103 3,091 34,115 682,896 632,446 224,046 367,429 31,599 335,830 130,800	2,349,717 749,024 3,481 42,856 702,687 745,783 631,003 223,907 376,339 21,749 354,590 129,649	2,303,891 708,348 3,645 34,091 670,612 741,596 630,742 223,205 366,667 16,048 350,619 133,135	2,346,905 744,186 3,387 36,365 704,434 746,140 633,617 222,963 369,026 5,636 363,390 137,089	2,329,044 724,536 2,967 33,288 688,281 749,571 632,847 222,091 358,299 8,032 350,267 138,222	2,329,157 728,806 2,884 35,467 690,455 747,786 631,144 221,421 370,290 21,073 349,217 136,169	2,309,667 715,134 3,251 34,361 677,522 745,474 629,574 219,485 365,526 15,814 349,712 135,576	2,334,274 745,441 3,881 32,925 708,635 746,990 628,735 213,108 368,998 14,856 354,142 145,919
77 Total liabilities	2,850,331	2,819,789	2,855,705	2,803,694	2,853,021	2,825,565	2,835,617	2,810,769	2,849,191
78 Residual (assets less liabilities) <sup>3</sup>	271,354	272,362	272,571	274,194	275,690	276,154	276,012	275,646	278,040

Excludes assets and liabilities of International Banking Facilities.
 Includes insured domestically chartered commercial banks, agencies and branches of foreign banks, Edge Act and Agreement corporations, and New York State foreign investment corporations. Data are estimates for the last Wednesday of the month based on a sample of weekly reporting foreign-related and domestic institutions and quarter-end condition reports.

<sup>3.</sup> This balancing item is not intended as a measure of equity capital for use in

This obtaining term is not intended as a measure of equity capital for use in capital adequacy analysis.

4. Includes all member banks and insured nonmember banks. Loans and securities data are estimates for the last Wednesday of the month based on a sample of weekly reporting banks and quarter-end condition reports.

## 1.26 ASSETS AND LIABILITIES OF LARGE WEEKLY REPORTING COMMERCIAL BANKS

Millions of dollars, Wednesday figures

		-			1993				
Account		E-1 10	E-1-17	E.b. 24	M 1	M 10	Mar. 17	M 24	Mar. 21
	I'eb. 3	Feb. 10	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31
Assets		•		•	ĺ				
Cash and balances due from depository institutions     U.S. Treasury and government securities	108,828 276,421	97,411 274,967	120,597 277,181	100,834 275,657	105,080 281,664	96,357 282,581	98,967 285,962	98,936 284,736	105,648 283,362
3 Trading account	21,617 254,804	20,504 254,463	23,109 254,071	20,506 255,151	21,932 259,732	23,026 259,555	23,132 262,830	20,521	19,020 264,341
4 Investment account 5 Mortgage-backed securities!	78,639	78,659	78,840	80,662	81,194	81,341	83,447	264,215 83,813	83,943
6 One year or less	36,566	36,852	36,698	37,071	37,827	37,240	38,213	38,894	41,253
7 One year through five years	76,343 63,257	75,166 63,786	75,459 63,074	75,092 62,326	77,354 63,358	76,150 64,824	76,659 64,511	77,052 64,456	73,914 65,232
9 Other securities	55,707	55,862	56,042	55,908	56,199	56,647	55,944	56,575	57,052
10 Trading account	2,207 53,500	2,357 53,505	2,009 54,032	1,767 54,141	1,777 54,423	1,860 54,787	1,913 54,031	2,069 54,506	2,276 54,776
12 State and political subdivisions, by maturity	20,226	20,262	20,135	20,124	19,986	20,009	19,986	19,995	20,016
13 One year or less	3,299 16,927	3,327 16,935	3,250 16.884	3,406 16,718	3,381 16,604	3,378 16,631	3,361 16,625	3,363 16,632	3,392 16,624
15 Other bonds, corporate stocks, and securities	33,274	33,243	33,898	34,016	34,437	34,778	34,045	34,511	34,760
16 Other trading account assets	11,109	10,845	11,839	11,557	12,655	11,586	11,910	11,656	11,472
17 Federal funds sold <sup>2</sup>	89,607 61,923	78,600 51,875	83,946 57,113	75,422 48,697	89,680 60,491	80,916 52,051	85,559 56,247	75,957 47,358	81,787 58.603
18 To commercial banks in the United States	22,634	22,732	22,637	23,229	24,797	24,169	24,877	24,460	19,473
20 To others <sup>3</sup>	5,050 982,808	3,993	4,196	3,496	4,391	4,696 976,948	4,435	4,138	3,711 975,430
21 Other loans and leases, gross	278,905	980,124 276,887	981,936 278,157	974,476 276,670	981,342 279,114	277,978	979,640 278,504	970,600 275,852	277.468
23 Bankers acceptances and commercial paper	2,422	3,031	3,030	2,781	2,924	2,952	3,141	2,670	2,705
24 All other	276,483 274,702	273,856 272,083	275,128 273,379	273,889 272,145	276,190 274,571	275,025 273,396	275,363 273,786	273,182 271,632	274,763 273,196
26 Non-U.S. addressees	1,781	1,772	1,749	1,745	1,619	1,630	1,577	1,550	1,567
27 Real estate loans	398,560 43,236	399,407 43,215	397,427 43,199	394,603 43,107	397,443 43,465	398,035 43,410	395,172 43,438	394,163 43,400	394,963 43,473
28 Revolving, home equity	355,325	356,192	354,227	351,496	353,978	354,625	351,734	350,763	351,490
30 To individuals for personal expenditures	185,024	184,631	184,390	183,845	183,753	183,288	183,576	183,351	183,938
To financial institutions	35,440 13,314	34,712 12,899	35,886 13,438	33,361 12,522	34,826 12,481	33,269 12,431	34,054 12,860	33,325 12,822	33,772 12,553
33 Banks in foreign countries	1,970	2,151	2,999	2,377	3,306	2,233	2,636	2,461	2,107
Nonbank financial institutions	20,156 15,363	19,662 16,023	19,449 15,199	18,462 17,160	19,040 16,066	18,606 15,784	18,557   18,135	18,041   15,741	19,112 15,634
For purchasing and carrying securities To finance agricultural production	5,524	5,485	5,513	5,522	5,502	5,500	5,568	5,504	5,531
37 To states and political subdivisions	14,303	14,299	14,229	14,258	14,221	14,186	14,177	14,145	14,035
38 To foreign governments and official institutions	1,508 23,912	1,394 22,867	1,556 24,934	1,486 22,939	1,712 24,047	1,555 22,821	1,463 24,475	1,403   22,801	1,406 24,211
40 Lease-financing receivables	24,269	24,418	24,645	24,632	24,658	24,532	24,516	24,315	24,473
41 Less: Unearned income	2,247 36,758	2,245 36,866	2,271 36,780	2,253 36,756	2,203 37,119	2,213 37,038	2,201 37,012	2,189 36,886	2,154 36,289
43 Other loans and leases, net	943,803	941,012	942,885	935,466	942,021	937,697	940,427	931,525	936,987
44 Other assets	163,006	164,630	160,047	158,596	160,954	159,212	157,300	157,935	164,628
45 Total assets	1,648,482	1,623,327	1,652,536	1,613,441	1,648,253	1,624,997	1,636,069	1,617,320	1,640,934

Footnotes appear on the following page.

## 1.26 ASSETS AND LIABILITIES OF LARGE WEEKLY REPORTING COMMERCIAL BANKS—Continued Millions of dollars, Wednesday figures

Account					1993				
Account	Feb. 3	Feb. 10	Feb. 17	Feb. 24	Mar. 3	Маг. 10	Mar. 17	Mar. 24	Mar. 31
Liabilities									
46 Deposits 47 Demand deposits 48 Individuals, partnerships, and corporations 49 Other holders 50 States and political subdivisions 51 U.S. government 52 Depository institutions in the United States 53 Banks in foreign countries 54 Foreign governments and official institutions 55 Certified and officers' checks 56 Transaction balances other than demand deposits' 57 Nontransaction balances 58 Individuals, partnerships, and corporations 59 Other holders 50 States and political subdivisions 60 U.S. government 61 U.S. government 62 Depository institutions in the United States 63 Foreign governments, official institutions, and banks	1,108,340 261,092 209,951 51,141 9,728 2,824 22,325 5,377 564 10,322 119,209 728,038 702,726 25,312 20,827 2,086 329	1,103,346 256,903 206,151 50,752 8,859 1,945 20,839 5,555 618 12,936 116,551 729,891 703,725 26,166 21,440 2,152 2,243 332	1,124,498 278,322 221,986 56,335 9,363 2,073 26,678 6,832 524 10,866 116,588 729,588 703,387 26,201 21,502 2,129 2,241 328	1,091,103 252,959 204,906 48,053 8,936 2,388 21,349 5,243 114,646 723,499 697,665 25,833 21,422 2,051 2,030 330	1,115,967 266,306 216,753 49,553 8,847 2,094 22,182 5,811 5,556 10,062 121,220 728,441 702,566 25,875 21,415 2,040 2,088 332	1,102,419 255,039 209,670 45,369 8,576 1,835 20,511 4,742 858 8,847 118,168 729,212 703,585 25,627 21,067 2,203 332	1,105,643 261,756 212,914 48,841 8,759 1,694 21,394 5,715 739 10,540 117,506 726,381 701,163 25,218 20,694 2,026 2,158 340	1,091,549 254,274 205,350 48,923 8,805 2,138 20,727 6,014 810 10,429 116,245 721,031 695,980 25,051 20,475 2,082 2,152 342	1,102,516 268,492 221,484 47,008 8,899 2,346 20,469 5,117 712 9,466 119,189 714,834 692,326 22,508 487 1,558 336
64 Liabilities for borrowed money <sup>5</sup> 65 Borrowings from Federal Reserve Banks 66 Treasury tax and loan notes 67 Other liabilities for borrowed money <sup>6</sup> 68 Other liabilities (including subordinated notes and debentures)	298,280 65 31,935 266,280 100,977	277,765 0 27,029 250,735 100,426	285,886 0 18,102 267,784 99,531	277,617 0 12,932 264,685 102,576	283,744 35 4,476 279,232 105,888	272,951 0 6,461 266,490 106,760	282,539 860 17,791 263,888 104,926	278,614 0 12,658 265,956 103,508	280,917 707 11,624 268,586 112,434
69 Total liabilities	1,507,596	1,481,536	1,509,914	1,471,295	1,505,599	1,482,130	1,493,109	1,473,671	1,495,867
70 Residual (total assets less total liabilities) <sup>7</sup>	140,886	141,791	142,623	142,145	142,654	142,867	142,961	143,649	145,067
MEMO 71 Total loans and leases, gross, adjusted, plus securities <sup>8</sup> . 72 Time deposits in amounts of \$100,000 or more 73 Loans sold outright to affiliates 74 Commercial and industrial 75 Other 76 Foreign branch credit extended to U.S. residents <sup>10</sup> . 77 Net due to related institutions abroad	1,340,416 115,165 916 452 464 24,324 -12,273	1,335,624 114,902 922 452 470 23,892 -14,758	1,340,392 114,874 910 452 458 23,807 -13,611	1,331,801 113,962 909 452 458 23,756 -10,277	1,348,568 113,729 898 453 446 23,407 -8,870	1,344,197 112,598 897 452 445 23,846 -10,560	1,349,907 111,983 896 451 445 23,850 -8,945	1,339,343 110,167 893 449 444 23,150 -10,070	1,337,946 104,124 869 447 422 23,225 -12,388

9. Affiliates include a bank's own foreign branches, nonconsolidated nonbank affiliates of the bank, the bank's holding company (if not a bank), and nonconsolidated nonbank subsidiaries of the holding company.

10. Credit extended by foreign branches of domestically chartered weekly reporting banks to nonbank U.S. residents. Consists mainly of commercial and industrial loans, but includes an unknown amount of credit extended to other than roofinancial businesses. nonfinancial businesses.

Norte. Data that formerly appeared in table 1.28, Assets and Liabilities of Large Weekly Reporting Commercial Banks in New York City, can be obtained from the Board's H.4.2 (504) weekly statistical release. For ordering address, see inside

Includes certificates of participation, issued or guaranteed by agencies of the U.S. government, in pools of residential mortgages.
 Includes securities purchased under agreements to resell.
 Includes allocated transfer risk reserve.
 Includes negotiable order of withdrawal accounts (NOWs), automatic transfers service (ATS), and telephone and preauthorized transfers of savings deposits.
 Includes borrowings only from other than directly related institutions.
 Includes federal funds purchased and securities sold under agreements to repurchase.

repurchase.

7. This balancing item is not intended as a measure of equity capital for use in capital-adequacy analysis.

8. Excludes loans to and federal funds transactions with commercial banks in the United States.

#### 1.30 LARGE WEEKLY REPORTING U.S. BRANCHES AND AGENCIES OF FOREIGN BANKS Assets and Liabilities1

Millions of dollars, Wednesday figures

					1993				
Account	Feb. 3	Feb. 10	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31
1 Cash and balances due from depository institutions	17,543	18,122	17,055	17,493	18,488	17,941	18,588	18,277	19,477
2 U.S. Treasury and government agency securities	27,157 8,246	26,206 8,259	27,803 8,307	28,054 8,355	28,414 8,516	29,245 8,755	30,199 8,590	29,671 8,577	31,416 8,478
3 Other securities	23,360	22,514	20,171	18,346	22,841 5,960	22,931 7,213	23,720	21,931	23,044
5 To commercial banks in the United States 6 To others <sup>2</sup>	4,706 18,654	5,264 17,250	5,394 14,777	3,784 14,562	16,881	15,718	5,316 18,404	4,678 17,252	8,710 14,334
7 Other loans and leases, gross	163,546 98,916	163,684 97,754	164,649 97,747	163,256 96,589	165,205 97,212	162,364 96,968	162,457 97,337	161,115 96,841	160,810 96,272
paper	2,571 96,345	2,546 95,207	2,776 94,971	2,768 93,821	2,676 94,536	2,697 94,271	2,580 94,758	2,644 94,198	2,699 93,572
11 U.S. addressees	93,254 3,090	92,162 3,046	91,663 3,307	90,517 3,304	91,112 3,424	90,900 3,371	91,363 3,394	90,776 3,421	90,282 3,291
13 Loans secured by real estate	33,758 23,980	33,801 25,493	33,778 26,449	33,415 26,446	33,297 27,285	33,307 25,707	33,356 26,074	33,272 25,313	32,604 25,135
To financial institutions	5,357 1,919	5,582	5,814	5,608	6,311 2,195	5,582 1,819	5,771	5,396	4,956
16 Banks in foreign countries	16,704	2,004 17,907	2,014 18,621	1,999 18,840	18,780	18,306	1,784 18,520	1,666 18,251	1,866 18,313
18 For purchasing and carrying securities 19 To foreign governments and official	4,201	3,902	4,069	4,371	4,906	3,903	3,299	2,585	3,794
institutions	333 2,358	407 2,327	412 2,194	395 2,040	398 2,107	396 2,082	386 2,004	370 2,734	368 2,637
21 Other assets (claims on nonrelated parties)	31,916	31,916	31,117	31,714	32,209	32,090	30,910	30,741	33,934
22 Total assets <sup>3</sup>	307,487	304,749	302,616	302,014	312,754	310,535	309,771	306,975	306,235
23 Deposits or credit balances due to other than directly related institutions	102,342	101,909	100,295	103,096	101,333	99,966	99,680	99,825	102,792
24 Demand deposits <sup>4</sup>	4,365	4,551	3,765	3,998	4,148	3,859	4,061	3,911	4,933
corporations	2,653 1,712	2,868 1,683	2,878 887	2,952 1,046	3,144 1,004	2,962 897	3,060 1,001	3,219 693	3,413 1,519
27 Nontransaction accounts	97,977	97,357	96,530	99,098	97,185	96,107	95,619	95,914	97,859
corporations.	69,466 28,511	68,244 29,113	66,900 29,630	69,106 29,992	67,619 29,566	67,240 28,866	66,701 28,918	66,456 29,458	67,958 29,901
30 Borrowings from other than directly related institutions	87.797	88,234	88,470	83.919	94,763	94,459	94,217	88,359	86,619
31 Federal funds purchased	47,476	45,592	45,320	41,104	47,578	44,887	47,768	43,257	45,148
United States	14,970 32,506	11,836 33,757	14,851 30,469	10,863 30,242	14,652 32,926	14,994 29,893	16,264 31,504	11,999 31,259	18,625 26,523
33 From others	40,321	42,641	43,150	42,815	47,185	49,573	46,450	45,101	20,343 41,471
35 To commercial banks in the United States	8,733	9,331	9,459	8,544	9,154	9,981	10,194	9,619	9,317
36 To others	31,588 31,127	33,310 31,938	33,691 30,994	34,271 31,276	38,030 31,245	39,591 32,486	36,256 30,136	35,483 30,320	32,154 32,462
38 Total liabilities <sup>6</sup>	307,487	304,749	302,616	302,014	312,754	310,535	309,771	306,975	306,235
MEMO 39 Total loans (gross) and securities, adjusted <sup>7</sup> 40 Net due to related institutions abroad	212,246 50,502	209,817 48,620	209,722 49,342	208,619 48,926	212,705 48,332	210,498 46,414	213,879 50,431	211,219 51,807	210,082 55,286

5. Includes securities sold under agreements to repurchase.
6. Includes net to related institutions abroad for U.S. branches and agencies of foreign banks having a net "due to" position.
7. Excludes loans to and federal funds transactions with commercial banks in the United States.

Includes securities purchased under agreements to resell.
 Includes transactions with nonbank brokers and dealers in securities.
 Includes net due from related institutions abroad for U.S. branches and agencies of foreign banks having a net "due from" position.

### A24 Domestic Financial Statistics ☐ June 1993

### 1.32 COMMERCIAL PAPER AND BANKERS DOLLAR ACCEPTANCES OUTSTANDING

Millions of dollars, end of period

		Year	ending Dec	ember	-		19	92		19	93
ltem	1988	1989	1990	1991	1992	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
			Cor	nmercial pa	per (seasor	nally adjust	ed unless n	oted otherv	vise)		
1 All issuers	458,464	525,831	562,656	531,724 <sup>r</sup>	549,433°	550,727°	557,915 <sup>7</sup>	558,414 <sup>r</sup>	549,433 <sup>r</sup>	542,438	529,400
Financial companies Dealer-placed paper 2 Total Sank-related (not seasonally adjusted) Total Total Sank-related (not seasonally adjusted) Directly placed paper 4 Total Sank-related (not seasonally adjusted) Nonfinancial companies 5	159,777 1,248 194,931 43,155 103,756	183,622 n.a. 210,930 n.a. 131,279	214,706 <sup>r</sup> n.a. 200,036 <sup>r</sup> n.a. 147,914 <sup>r</sup>	213,823 <sup>r</sup> n.a. 183,379 <sup>r</sup> n.a. 134,522 <sup>r</sup> Bankers d	228,260 <sup>r</sup> n.a. 172,813 <sup>r</sup> n.a. 148,360 <sup>r</sup>	234,242 <sup>r</sup> n.a. 178,184 <sup>r</sup> n.a. 138,301 <sup>r</sup> tances (not	231,751 <sup>r</sup> n.a. 181,388 <sup>r</sup> n.a. 144,776 <sup>r</sup> seasonally	230,966 <sup>r</sup> n.a. 179,279 <sup>r</sup> n.a. 148,169 <sup>r</sup> adjusted) <sup>6</sup>	228,260 <sup>r</sup> n.a. 172,813 <sup>r</sup> n.a. 148,360 <sup>r</sup>	215,126 n.a. 181,264 n.a. 146,048	203,716 n.a. 177,370 n.a. 148,314
7 Total	66,631	62,972	54,771	43,770	38,194	37,814	37,599	37,651	38,194	35,995°	35,212
Holder 8 Accepting banks 9 Own bills 10 Bills bought from other banks Federal Reserve Banks 11 Foreign correspondents 12 Others	9,086 8,022 1,064 1,493 56,052	9,433 8,510 924 1,066 52,473	9,017 7,930 1,087 918 44,836	11,017 9,347 1,670 1,739 31,014	10,555 9,097 1,458 1,276 26,364	10,436 9,073 1,363 1,803 25,575	10,236 8,764 1,472 1,204 26,159	10,301 9,156 1,145 1,289 26,061	10,555 9,097 1,458 1,276 26,364	9,115 <sup>r</sup> 7,922 <sup>r</sup> 1,193 1,317 25,563 <sup>r</sup>	9,869 8,352 1,516 1,169 24,175
Basis 13 Imports into United States	14,984 14,410 37,237	15,651 13,683 33,638	13,095 12,703 28,973	12,843 10,351 20,577	12,209 8,096 17,890	12,227 8,051 17,536	12,116 7,849 17,633	12,133 7,673 17,846	12,209 8,096 17,890	11,146 7,740 <sup>r</sup> 17,109	11,120 7,547 16,545

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.
 Bank-related series were discontinued in January 1989.
 As reported by financial companies that place their paper directly with investors.

Percent per year

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

Date of change	Rate	Period	Average rate	Period	Average rate	Period	Average rate
1990— Jan. 1	10.50 10.00 9.50 9.00 8.50 7.50 6.50	1990	10.01 8.46 6.25 10.11 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	1991— Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	9.52 9.00 9.00 8.50 8.50 8.50 8.20 7.21	1992— Jan. Feb. Mar. Apr. May June July Aug Sept. Oct. Nov. Dec.  1993— Jan. Feb. Mar. Apr.	6.50 6.50 6.50 6.50 6.50 6.50 6.00 6.00

<sup>1.</sup> 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.

<sup>5.</sup> Includes public utilities and firms engaged primarily in such activities as communications, construction, manufacturing, mining, wholesale and retail trade,

communications, construction, manuacturing, initing, wholesale and retail trade, transportation, and services.

6. Data on bankers acceptances are gathered from approximately 100 institutions. The reporting group is revised every January.

7. In 1977 the Federal Reserve discontinued operations in bankers acceptances for its own account.

### 1.35 INTEREST RATES Money and Capital Markets

Averages, percent per year; weekly, monthly, and annual figures are averages of business day data unless otherwise noted

				1992		1993			199	3, week en	ding	
Item	1990	1991	1992	Dec.	Jan.	Feb,	Mar.	Feb. 26	Mar. 5	Mar. 12	Mar. 19	Mar. 26
MONEY MARKET INSTRUMENTS												
1 Federal funds <sup>1,2,3</sup>	. 8.10 6.98	5.69 5.45	3.52 3.25	2.92 3.00	3.02 3.00	3.03 3.00	3.07 3.00	2.91 3.00	3.24 3.00	3.02 3.00	3.04 3.00	2.93 3.00
Commercial paper <sup>3,5,6</sup> 3 1-month 4 3-month 5 6-month	8.15 8.06 7.95	5.89 5.87 5.85	3.71 3.75 3.80	3.71 3.67 3.70	3.21 3.25 3.35	3.14 3.18 3.27	3.15 3.17 3.24	3.11 3.15 3.23	3.13 3.15 3.23	3.15 3.18 3.26	3.16 3.18 3.24	3.14 3.16 3.21
Finance paper, directly placed <sup>3,5,7</sup> 6 1-month	. 8.00 7.87	5.73 5.71 5.60	3.62 3.65 3.63	3.68 3.58 3.52	3.25 3.32 3.29	3.18 3.27 3.21	3.15 3.17 3.14	3.17 3.26 3.20	3.20 3.24 3.17	3.18 3.21 3.17	3.16 3.17 3.16	3.09 3.09 3.09 3.08
Bankers acceptances <sup>3,5,8</sup> 9 3-month	. 7.93 . 7.80	5.70 5.67	3.62 3.67	3.44 3.47	3.14 3.23	3.06 3.15	3.07 3.14	3.05 3.10	3.06 3.11	3.08 3.15	3.08 3.15	3.07 3.13
Certificates of deposit, secondary   market <sup>1,9</sup>	. 8.15	5.82 5.83 5.91	3.64 3.68 3.76	3.57 3.48 3.55	3.14 3.19 3.33	3.08 3.12 3.22	3.10 3.11 3.20	3.06 3.10 3.18	3.10 3.11 3.19	3.09 3.12 3.21	3.10 3.11 3.21	3.10 3.11 3.19
14 Eurodollar deposits, 3-month <sup>3,10</sup>		5.86	3.70	3.50	3.22	3.12	3.11	3.08	3.08	3.13	3.13	3.13
U.S. Treasury bills Secondary market 3,5 15 3-month 16 6-month 17 1-year Auction average 3,5(1) 18 3-month 19 6-month 10 1-year	7.46 7.35 7.51 7.47	5.38 5.44 5.52 5.42 5.49 5.54	3.43 3.54 3.71 3.45 3.57 3.75	3.22 3.36 3.55 3.25 3.39 3.57	3.00 3.14 3.35 3.06 3.17 3.52	2.93 3.07 3.25 2.95 3.08 3.32	2.95 3.05 3.20 2.97 3.08 3.09	2.95 3.04 3.17 2.96 3.06 n.a.	2.95 3.04 3.17 2.97 3.05 n.a.	2.98 3.09 3.26 2.98 3.09 3.09	2.97 3.08 3.22 3.00 3.12 n.a.	2.92 3.03 3.16 2.94 3.05 n.a.
U.S. TREASURY NOTES AND BONDS	7.50	3.31	3.75	3.57	5.52	3.50	3.03			5.05		71.41
Constant maturities <sup>12</sup> 21	8.16 8.26	5.86 6.49 6.82 7.37 7.68 7.86 8.14	3.89 4.77 5.30 6.19 6.63 7.01 7.67	3.71 4.67 5.21 6.08 6.46 6.77 7.44	3,50 4,39 4,93 5,83 6,26 6,60 7,34	3.39 4.10 4.58 5.43 5.87 6.26 7.09	3.33 3.95 4.40 5.19 5.66 5.98 6.82	3.31 3.95 4.38 5.21 5.64 6.02 6.89	3.30 3.85 4.28 5.09 5.54 5.90 6.79	3.39 4.03 4.47 5.24 5.65 5.96 6.76	3.36 3.99 4.46 5.23 5.73 6.03 6.85	3.30 3.93 4.39 5.20 5.67 5.98 6.83
Composite 28 More than 10 years (long-term)	-	8.16	7.52	7.30	7.17	6.89	6.65	6.70	6.58	6.59	6.69	6.67
STATE AND LOCAL NOTES AND BONDS		l	<u> </u>									
Moody's series <sup>13</sup> 29 Aaa 30 Baa	6.96 7.29 7.27	6.56 6.99 6.92	6.09 6.48 6.44	5.91 6.27 6.22	5.91 6.28 6.16	5.61 5.98 5.87	5.42 5.81 5.64	5.47 5.84 5.60	5.29 5.66 5.47	5.18 5.58 5.58	5.64 6.05 5.71	5.57 5.95 5.78
Corporate Bonds												
32 Seasoned issues, all industries 15	. 9.77	9.23	8.55	8.35	8.24	8.01	7.83	7.88	7.81	7.80	7.85	7.83
Rating group 33 Ana 34 Aa 35 A 36 Baa	. 9.82	8.77 9.05 9.30 9.80	8.14 8.46 8.62 8.98	7.98 8.24 8.37 8.81	7.91 8.11 8.26 8.67	7.71 7.90 8.03 8.39	7.58 7.72 7.86 8.15	7.61 7.77 7.90 8.22	7.56 7.70 7.84 8.12	7.54 7.70 7.83 8.11	7.61 7.74 7.88 8.16	7.59 7.72 7.87 8.15
37 A-rated, recently offered utility bonds 16	. 10.01	9.32	8.52	8.27	8.13	7.80	7.61	7.63	7.47	7.62	7.58	7.73
Мемо Dividend-price ratio 17  38 Preferred stocks 39 Common stocks	8.96 3.61	8.17 3.25	7.46 2.99	7.45 2.90	7.25 2.88	7.37 2.81	6.70 2.76	7.29 2.82	6.82 2.77	6.66 2.73	6.73 2.78	6.63 2.78

The daily effective federal funds rate is a weighted average of rates on trades through New York brokers.
 Weekly figures are averages of seven calendar days ending on Wednesday of the current week; monthly figures include each calendar day in the month.
 Annualized using a 360-day year or bank interest.
 Rate for the Federal Reserve Bank of New York.

Rate for the Federal Reserve Bank of Ivew LOIK.
 Quoted on a discount basis.
 An average of offering rates on commercial paper placed by several leading dealers for firms whose bond rating is AA or the equivalent.
 An average of offering rates on paper directly placed by finance companies.
 Representative closing yields for acceptances of the highest-rated money

center banks.

9. An average of dealer offering rates on nationally traded certificates of

deposit.
10. Bid rates for Eurodollar deposits at 11 a.m. London time. Data are for

indication purposes only.

11. Auction date for daily data; weekly and monthly averages computed on an issue-date basis.

- 12. Yields on actively traded issues adjusted to constant maturities. Source: U.S. Treasury.

  13. General obligations based on Thursday figures; Moody's Investors Service. 14. General obligations only, with twenty years to maturity, issued by twenty state and local governmental units of mixed quality. Based on figures for Thursday.

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

  16. Compilation of the Federal Reserve. This series is an estimate of the yield on recently offered, A-rated utility bonds with a thirty-year maturity and five years of call protection. Weekly data are based on Friday quotations.

  17. Standard and Poor's corporate series. Preferred stock ratio based on a sample of ten issues: four public utilities, four industrials, one financial, and one transportation. Common stock ratios on the 500 stocks in the price index.

  NOTE. These data also appear in the Board's H.15 (519) and G.13 (415) releases. For ordering address, see inside front cover.

#### 1.36 STOCK MARKET Selected Statistics

			4000			19	992				1993	
Indicator	1990	1991	1992	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
				Prices	s and tradi	ng volume	(averages	of daily f	igures)			
Common stock prices (indexes)  1 New York Stock Exchange	183.66 226.06 158.80 90.72 133.21 335.01	206.35 258.16 173.97 92.64 150.84 376.20 360.32	229.00 284.26 201.02 99.48 179.29 415.75 391.28	228.17 281.90 198.36 101.18 180.96 415.05	230.07 284.44 191.31 103.41 180.47 417.93 385.80	230.13 285.76 191.61 102.26 178.27 418.48 382.67	226.97 279.70 192.30 101.62 181.36 412.50	232.84 287.80 204.63 101.13 189.27 422.84	239.47 290.77 212.35 103.85 196.87 435.64 392.69	239.75 <sup>r</sup> 292.11 221.00 105.52 203.38 435.40 <sup>r</sup> 402.75 <sup>r</sup>	243.41 294.40 226.96 109.45 209.93 441.76 409.39	248.12 298.75 229.42 112.53 217.01 450.15 418.56
Volume of trading (thousands of shares)  8 New York Stock Exchange	156,359 13,155	179,411 12,486	202,558 14,171	194,138 10,722	174,003 11,875	191,774 11,198	204,787 11,966	208,221 14,925	222,736 16,523	266,011 17,184	288,540 18,154	251,170 16,150
			, (	Customer f	inancing (	millions of	dollars, e	nd-of-perio	od balance	es)		<u> </u>
10 Margin credit at broker-dealers <sup>3</sup>	28,210	36,660	43,990	39,640	39,940	41,250	41,590	43,630	43,990	44,020	44,290	45,160
Free credit balances at brokers <sup>4</sup> 11 Margin accounts	8,050 19,285	8,290 19,255	8,970 22,510	7,920 18,775	8,060 18,305	8,060 19,650	8,355 18,700	8,500 19,310	8,970 22,510	8,980 20,360	9,790 22,190	9,650 21,450
			М	argin requ	irements (	percent of	market va	lue and ef	fective da	te) <sup>6</sup>		
	Mar. 1	1, 1968	June 8	3, 1968	May 6	5, 1970	Dec. 6	5, 1971	Nov. 2	24, 1972	Jan. 3	, 1974
13 Margin stocks	5	70 50 70	6	30 50 30		55 50 55	! :	55 50 55	l :	65 50 65		50 50 50

<sup>1.</sup> Effective July 1976, includes a new financial group, banks and insurance companies. With this change the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40

on securities other than options 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; Regulation G, effective Mar. 11, 1968; and Regulation X, effective Nov. 1, 1071

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. Effective Jan. 31, 1986, the SEC approved new maintenance margin rules, permitting margins to be the price of the option plus 15 percent of the market value of the stock underlying the option. Effective June 8, 1988, margins were set to be the price of the option plus 20 percent of the market value of the stock underlying the option (or 15 percent in the case of stock-index options).

financial.

2. On July 5, 1983, the American Stock Exchange rebased its index, effectively cutting previous readings in half.

3. 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.

4. Free credit balances are amounts in accounts with no unfulfilled commitments to brokers and are subject to withdrawal by customers on demand.

5. New series since June 1984.

6. These 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

## 1.37 SELECTED FINANCIAL INSTITUTIONS Selected Assets and Liabilities

Millions of dollars, end of period

Aggaret	1990	1991					1992					1993
Account	1990		Арг.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
					S	SAIF-insure	d institution	s				
1 Assets	1,084,821	919,979	872,026	870,334	861,517	856,390	856,165	847,235	846,730	840,605	<b>†</b>	4
2 Mortgages	633,385	551,322	524,954	521,911	516,654	512,264	512,077	508,815	502,863	496,974	)	
3 Mortgage-backed securities	155,228	129,461	124,763	124,225	123,282	122,385	120,438	119,715	120,715	120,292		
4 Contra-assets to mortgage assets <sup>1</sup> .	16,897	12,307	10,959	11,120	11,282	11,044	11,164	11,073	11,207	10,509		
5 Commercial loans 6 Consumer loans	24,125 48,753	17,139 41,775	15,075 37,999	14,607 37,868	14,020 37,403	13,929 37,230	13,525 37,123	13,419 36,732	13,630 35,938	13,180 36,019		]
7 Contra-assets to non- mortgage loans	1,939	1,239	980	949	944	910	932	982	931	845	n.a.	n.a.
8 Cash and investment securities	146,644	120,077	116,462	120,763	119,539	120,220	124,140	120,684	126,719	127,893	1	
9 Other <sup>2</sup>	95,522	73,751	64,711	63,030	62,844	62,317	60,958	59,925	59,002	57,600		
0 Liabilities and net worth.	1,084,821	919,979	872,026	870,334	861,517	856,390	856,165	847,235	846,730	840,605		1 1
1 Deposits	835,496 197,353	731,937 121,923	689,777 111,262	688,199 110,126	682,535 108,943	676,141 109,036	672,354 110,109	667,027 110,022	660,906 114,123	654,047 114,354		
3 FHLBB	100,391 96,962	65,842 56,081	62,268 48,994	61,439 48,687	62,760 46,183	62,359	62,225 47,884	64,105 45,917	63,065	64,742 49,612		
4 Other	21,332 30,640	17,560 48,559	18,883 52,103	19,626 52,383	17,740 52,299	46,677 18,570 52,642	20,523 53,178	18,017 52,169	51,058 19,853 51,846	20,406 51,798	1	

<sup>1.</sup> Contra-assets are credit-balance accounts that must be subtracted from the corresponding gross asset categories to yield net asset levels. Contra-assets to mortgage assets, mortgage loans, contracts, and pass-through securities—include loans in process, unearned discounts and deferred loan fees, valuation allowances for mortgages "held for sale," and specific reserves and other valuation allowances. Contra-assets to momortgage loans include loans in process, unearned discounts and deferred loan fees, and specific reserves and valuation allowances.

2. Includes holding of stock in Federal Home Loan Bank and finance leases rules interest.

plus interest.

Note. Components do not sum to totals because of rounding. Data for credit unions and life insurance companies have been deleted from this table. Starting in the December 1991 issue, data for life insurance companies are shown in a special

table of quarterly data.

Source. Office of Thrift Supevision (OTS), insured by the Savings Association Insurance Fund (SAIF) and regulated by the OTS.

#### 1.38 FEDERAL FISCAL AND FINANCING OPERATIONS

Millions of dollars

		Fiscal year				Calend	ar year		
Type of account or operation	4000	1001	1000		1992			1993	
	1990	1991	1992 <sup>r</sup>	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
U.S. budget  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  Source of financing (total) 10 Borrowing from the public 11 Operating cash (decrease, or increase (-))	1,031,308 749,654 281,654 1,251,766 1,026,701 225,064 -220,458 -277,047 56,590	1,054,265 760,382 293,883 1,323,757 1,082,072 241,685 -269,492 -321,690 52,198 276,802 -1,329	1,090,499 788,073 302,426 1,380,482 1,128,143 252,339 -289,983 -340,070 50,087	76,832 55,056 21,776 125,627 103,786 <sup>1</sup> 21,841 -48,795 <sup>7</sup> -48,795 <sup>7</sup> -65	74,633 51,219 23,414 107,361 <sup>1</sup> 83,442 <sup>2</sup> 23,919 -32,728 <sup>7</sup> -32,728 <sup>7</sup> -505	113,690 <sup>r</sup> 89,594 <sup>r</sup> 24,096 152,636 <sup>r</sup> 116,575 <sup>r</sup> 36,061 -38,946 <sup>r</sup> -26,981 <sup>r</sup> -11,965	112,718 <sup>r</sup> 90,129 22,589 82,903 <sup>r</sup> 84,928 <sup>r</sup> -2,025 29,815 <sup>r</sup> 5,201 <sup>r</sup> 24,614 -8,355 -16,436	66, 136 <sup>7</sup> 41,036 <sup>7</sup> 25,100 113,730 <sup>7</sup> 89,274 <sup>7</sup> 24,456 -47,594 -48,238 <sup>7</sup> 644 30,689 27,227	83,453 57,259 26,194 128,029 103,793 24,237 -46,577 -46,534 1,957
12 Other 2	-461 40,155 7,638 32,517	-5,981 41,484 7,928 33,556	-3,630 58,789 24,586 34,203	19,369 4,413 14,956	-21,895 <sup>r</sup> 26,715 6,985 19,729	21,043 <sup>r</sup> 29,890 7,492 22,399	-5,024 <sup>r</sup> 46,326 9,572 36,754	-10,322 19,099 5,350 13,749	9,302 21,551 6,752 14,799

<sup>1.</sup> In accordance with the Balanced Budget and Emergency Deficit Control Act of 1985, all former off-budget entries are now presented on-budget. Federal Financing Bank (FFB) activities are now shown as separate accounts under the agencies that use the FFB to finance their programs. The act also moved two social security trust funds (federal old-age survivors insurance and federal disability insurance) off budget, The Postal Service is included as an off-budget ittem in the Monthly Treasury Statement beginning in 1990.

2. 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; 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.

Sources. Monthly Treasury Statement of Receipts and Outlays of the U.S. Government (MTS) and the Budget of the U.S. Government.

# 1.39 U.S. BUDGET RECEIPTS AND OUTLAYS1

Millions of dollars

	Fisca	ıl year				Calendar yea	r		
Source or type	1991	1992	19	991	19	992		1993	
	1991	1992	HI	H2	H1 <sup>r</sup>	H2	Jan.	Feb.	Mar.
RECEIPTS									
1 All sources	1,054,265	1,090,499 <sup>r</sup>	540,504	519,180 <sup>r</sup>	560,341	540,501 <sup>r</sup>	112,718 <sup>r</sup>	66,136	83,453
2 Individual income taxes, net	467,827 404,152 32	476,122 <sup>r</sup> 408,352 30	232,389 193,440 31	234,939 <sup>r</sup> 210,552 1	236,719 198,868 20	246,961 215,591 10	73,704 36,255 0	23,947 33,652 4	27,935 40,006 6
5 Nonwithheld	142,693 79,050	149,342 81,691 <sup>r</sup>	109,405 70,487	33,296 8,910 <sup>r</sup>	110,997 73,165	39,371 8,011	38,452 1,003	967 10,677	5,253 17,330
7 Gross receipts	113,599	117,951 17,680	58,903 7,904	54,016 8,649	61,682 9,403	58,022 7,219	3,969 758	2,510 1,719	14,644 1,920
net	396,011 370,526	413,689 385,491	214,303 199,727	175,802	224,570 208,110	192,599 180,758	29,416 28,209	34,251 31,623	33,652 32,980
11 Self-employment taxes and contributions	25,457 20,922 4,563	24,421 23,410 4,788	22,150 12,296 2,279	3,306 8,721 2,317	20,433 14,070 2,389	3,988 9,397 2,445	-3,032 844 363	1,487 2,259 369	873 240 432
14 Excise taxes 15 Customs deposits 16 Estate and gift taxes 17 Miscellaneous receipts <sup>5</sup>	42,430 15,921 11,138 22,852	45,570 17,359 11,143 26,507 <sup>r</sup>	20,703 7,488 5,631 8,991	24,429 8,694 5,507 13,405 <sup>r</sup>	22,389 8,146 5,701 10,686	23,456 9,497 5,733 11,467 <sup>r</sup>	3,307 1,310 888 881 <sup>r</sup>	3,342 1,347 822 1,637	4,514 1,598 977 2,051
OUTLAYS									
18 All types	1,323,757	1,380,482 <sup>r</sup>	632,153	694,362 <sup>r</sup>	704,279	723,201 <sup>r</sup>	82,903 <sup>r</sup>	113,730	128,029
19 National defense 20 International affairs 21 General science, space, and technology 22 Energy 3 Natural resources and environment 24 Agriculture	272,514 16,167 15,946 2,511 18,708 14,864	298,361 16,106 16,409 4,509 20,017 14,997	122,089 7,592 7,496 1,235 8,324 7,684	147,669 7,691 8,472 1,698 11,130 7,418	147,064 8,537 7,952 1,442 8,607 7,526	155,501 9,911 8,521 3,109 11,617 8,881	19,683 1,161 1,395 15 1,372 1,206	22,903 1,253 1,325 399 1,282 1,145	25,511 1,181 1,103 560 1,549 4,244
25 Commerce and housing credit	75,639 31,531 7,432	9,753 <sup>r</sup> 33,759 <sup>r</sup> 7,923 <sup>r</sup>	17,992 14,748 3,552	36,534 17,093 3,783	15,610 15,676 3,902	-7,843 18,477 4,540	-1,832 2,363 650	-3,532 2,093 690	-1,368 3,383 760
social services	41,479	45,248	21,234	21,114	23,225	20,922	4,360	4,068	4,607
29 Health	71,183 373,495 171,618	89,570 406,569 <sup>r</sup> 197,867 <sup>r</sup>	35,608 190,247 88,778	41,459 193,098 87,693 <sup>r</sup>	44,034 205,500 104,951	47,223 232,109 98,693 <sup>r</sup>	7,828 10,376 16,135 <sup>r</sup>	8,053 35,005 21,259	8,379 37,235 21,056
32 Veterans benefits and services	31,344 12,295 11,358 195,012 -39,356	34,133 14,450 12,939 199,429 -39,280	14,326 6,187 5,212 98,556 -18,702	17,425 6,574 6,794 99,149 -20,436	15,596 7,434 5,050 100,401 -18,228	18,561 7,283 8,138 98,549 -20,914	1,641 1,222 133 17,858 -2,660	2,649 1,060 994 15,893 -2,809	4,090 1,270 1,040 16,415 -2,987

<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 outlays does 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. Old-age, disability, and hospital insurance.

4. Federal employee retirement contributions and civil service retirement and disability fund.

5. Deposits of earnings by Federal Reserve Banks and other miscellaneous receipts.
6. Includes interest received by trust funds.
7. Consists of rents and royalties for the outer continental shelf and U.S. government contributions for employee retirement.
SOURCES. U.S. Department of the Treasury, Monthly Treasury Statement of Receipts and Outlays of the U.S. Government, and the U.S. Office of Management and Budget, Budget of the U.S. Government, Fiscal Year 1994.

#### 1.40 FEDERAL DEBT SUBJECT TO STATUTORY LIMITATION

Billions of dollars, end of month

trom		19	91				92		1993
ltem	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31
l Federal debt outstanding	3,492	3,563	3,683	3,820	3,897	4,001	4,083	4,196	n.a.r
2 Public debt securities. 3 Held by public. 4 Held by agencies	3,465 2,598 867	3,538 2,643 895	3,665 2,746 920	3,802 2,833 969	3,881 2,918 964	3,985 2,977 1,008	4,065 3,048 1,016	4,177 3,129 1,048	4,231 <sup>r</sup> n.a. <sup>r</sup> n.a. <sup>r</sup>
5 Agency securities 6 Held by public. 7 Held by agencies	27 26 0	25 25 0	81 81 0	19 19 0	16 16 0	16 16 0	18 18 0	19 19 0	n,a." n.a." n.a."
8 Debt subject to statutory limit	3,377	3,450	3,569	3,707	3,784	3,891	3,973	4,086	4,140 <sup>r</sup>
9 Public debt securities	3,377 0	3,450 0	3,569 0	3,706 0	3,783 0	3,890 0	3,972 0	4,085 0	4,139 <sup>r</sup> 0 <sup>r</sup>
Мемо 11 Statutory debt limit	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145	4,145 <sup>r</sup>

Consists of guaranteed debt of Treasury and other federal agencies, specified participation certificates, notes to international lending organizations, and District of Columbia stadium bonds.

# 1.41 GROSS PUBLIC DEBT OF U.S. TREASURY Types and Ownership

Billions of dollars, end of period

Type and holder	1989	1990	1991	1992		1992		1993
Type and noider	1909	1990	1991	1992	Q2	Q3	Q4	Q1
i Total gross public debt	2,953.0	3,364,8	3,801.7	4,177.0	3,984.7	4,064.6	4,177.0	4,230.6
By type 2 Interest-bearing 3 Marketable 4 Bills 5 Notes 6 Bonds 7 Nonmarketable 8 State and local government series. 9 Foreign issues 10 Government 11 Public 12 Savings bonds and notes. 13 Government account series 14 Non-interest-bearing	2,931.8 1,945.4 430.6 1,151.5 348.2 986.4 163.3 6.8 0 115.7 695.6 21.2	3,362.0 2,195.8 527.4 1,265.2 388.2 1,166.2 160.8 43.5 43.5 0 124.1 813.8 2.8	3,798.9 2,471.6 590.4 1,430.8 435.5 1,327.2 159.7 41.9 .0 135.9 959.2 2.8	4,173.9 2,754.1 657.7 1,608.9 472.5 1,419.8 153.5 37.4 .0 155.0 1,043.5 3.1	3,981.8 2,605.1 618.2 1,517.6 454.3 1,376.7 161.9 38.7 .0 143.2 1,002.5 2.9	4,061.8 2,677.5 634.3 1,566.4 461.8 1,384.3 157.6 37.0 0 148.3 1,011.0 2.8	4,173.9 2,754.1 657.7 1,608.9 472.5 1,419.8 153.5 37.4 .0 155.0 1,043.5 3.1	4,227.6 2,807.1 659.9 1,652.1 480.2 1,420.5 151.6 37.0 0 161.4 1,040.0 3.0
By holder   15 U.S. Treasury and other federal agencies and trust funds. 16 Federal Reserve Banks. 17 Private investors. 18 Commercial banks 19 Money market funds 20 Insurance companies. 21 Other companies. 22 State and local treasuries Individuals 23 Savings bonds. 24 Other securities. 25 Foreign and international  26 Other miscellaneous investors  27 Other miscellaneous investors  28 Other miscellaneous investors  29 Other miscellaneous investors  20 Other miscellaneous investors  20 Other miscellaneous investors  21 Other miscellaneous investors  22 Other miscellaneous investors  23 Other miscellaneous investors  24 Other miscellaneous investors  25 Foreign and international  26 Other miscellaneous investors  27 Other miscellaneous investors  28 Other miscellaneous investors  29 Other miscellaneous investors  20 Other miscellaneous investors  20 Other miscellaneous investors  20 Other miscellaneous investors  20 Other miscellaneous investors  21 Other miscellaneous investors  22 Other miscellaneous investors  23 Other miscellaneous investors  24 Other miscellaneous investors  25 Other miscellaneous investors  26 Other miscellaneous investors  27 Other miscellaneous investors  28 Other miscellaneous investors  29 Other miscellaneous investors  20 Other miscellaneous investors  20 Other miscellaneous investors  20 Other miscellaneous investors  20 Other miscellaneous  20 Other miscellaneous investors  20 Other miscellaneous  20 Other  20 Other miscellaneous  20 Other  20 Other	707.8 228.4 2,015.8 164.9 14.9 125.1 93.4 487.5 117.7 98.7 392.9 520.7	828.3 259.8 2,288.3 171.5 45.4 142.0 108.9 490.4 126.2 107.6 421.7 674.5	968.7 281.8 2,563.2 233.4 80.0 168.7 150.8 520.3 138.1 125.8 455.0 691.1	1,047.8 302.5 2,839.9 292.0 80.6 183.0 192.5 532.0 157.3 131.9 512.5 758.1	1,007.9 276.9 2,712.4 267.3 <sup>r</sup> 79.4 180.8 <sup>r</sup> 175.0 528.5 145.4 129.7 492.9 713.5 <sup>r</sup>	1,016.3 296.4 2,765.5 286.7 <sup>r</sup> 79.8 <sup>r</sup> 181.6 <sup>r</sup> 180.8 530.0 150.3 130.9 499.0 726.3 <sup>r</sup>	1,047.8 302.5 2,839.9 292.0 80.6 183.0 192.5 532.0 157.3 131.9 512.5 758.1	n.a.

l. Includes (not shown separately) securities issued to the Rural Electrification Administration, depository bonds, retirement plan bonds, and individual retire-

Administration, depository obnos, retriement plan bonds, and individual retriement bonds.

2. Nonmarketable series denominated in dollars, and series denominated in foreign currency held by foreigners.

3. Held almost entirely by U.S. Treasury and other federal agencies and trust funds.

4. Data for Federal Reserve Banks and U.S. government agencies and trust funds are actual holdings; data for other groups are Treasury estimates.

5. Consists of investments of foreign balances and international accounts in the United States.
6. 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. SOURCES. U.S. Treasury Department, data by type of security, Monthly Statement of the Public Debt of the United States; data by holder, the Treasury Bulletin.

SOURCES. U.S. Treasury Department, Monthly Statement of the Public Debt of the United States and Treasury Bulletin.

# 1.42 U.S. GOVERNMENT SECURITIES DEALERS Transactions<sup>1</sup>

Millions of dollars, daily averages

	1992	19	93			<u> </u>	199	3, week en	ding			
Item	Dec.	Jan.	Feb.	Feb. 3	Feb. 10	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24	Mar. 31
Immediate Transactions <sup>2</sup>						-						
By type of security U.S. Treasury securities 1 Bills Coupon securities, by maturity 2 Less than 3.5 years. 3 3.5 to 7.5 years 4 7.5 to 15 years 5 15 years or more Federal agency securities Debt, by maturity	42,358	48,056	44,513	42,512	46,358	43,801	45,439	42,368	60,426	37,544	39,583	36,322
	36,143	47,717	56,575	50,106	58,885	55,363	63,656	45,826	55,509	43,753	47,550	43,291
	28,723	46,216	48,292	46,365	44,155	42,127	60,642	46,067	53,711	43,393	40,783	42,606
	13,054	19,149	28,505	21,061	30,741	27,176	33,253	25,537	30,411	24,281	19,568	17,455
	11,093	16,239	21,480	16,349	18,095	26,574	25,249	15,485	23,961	19,067	14,606	13,979
6 Less than 3.5 years	5,635	6,170 <sup>r</sup>	6,719	7,082	7,228	6,727	6,213	6,151	4,902	5,281	6,042	6,718
	551 <sup>r</sup>	824 <sup>r</sup>	881	877	955	715	880	1,123	854	706	887	503
	827	1,169 <sup>r</sup>	1,194	1,046	1,350	1,157	1,186	1,138	1,070	1,022	1,171	1,228
9 Pass-throughs	14,208	20,000	22,544	15,083	29,594	24,142	20,093	18,247	22,852	14,743	9,641	9,461
	3,122	3,751 <sup>r</sup>	4,505	4,909	3,406	3,413	5,772	6,206	3,641	3,391	3,517	4,369
By type of counterparty Primary dealers and brokers 11 U.S. Treasury securities Federal agency securities	80,472	109,246	123,551	108,449	124,847	119,783	141,507	107,496	137,942	106,929	99,558	97,963
12 Debt	1,275 <sup>r</sup>	1,779 <sup>r</sup>	1,970	2,051	2,052	1,957	1,787	2,133	1,711	1,550	1,776	1,832
	7,917	10,454 <sup>r</sup>	11,755	8,613	15,762	12,384	10,043	9,153	10,936	7,283	5,164	5,108
14 U.S. Treasury securities Federal agency securities	50,898	68,131	75,815	67,945	73,387	75,258	86,733	67,787	86,077	61,111	62,531	55,689
15 Debt	5,737 <sup>r</sup>	6,384 <sup>r</sup>	6,825	6,954	7,481	6,642	6,493	6,278	5,116	5,458	6,324	6,616
	9,413	13,296	15,295	11,379	17,238	15,172	15,821	15,299	15,558	10,851	7,995	8,722
Futures and Forward Transactions												
By type of deliverable security U.S. Treasury securities 17 Bills Coupon securities, by maturity 18 Less than 3.5 years 19 3.5 to 7.5 years 20 7.5 to 15 years 21 15 years or more Federal agency securities Debt, by maturity	2,464	2,584	2,670	3,106	2,280	1,800	3,029	4,271	3,630	1,192	1,693	1,067
	1,637	2,155	2,622	2,104	2,560	2,420	3,230	2,542	3,156	2,058	2,269	1,791
	1,179	1,486	1,885	1,675	1,396	1,562	2,624	2,382	3,240	1,913	1,841	2,096
	2,336	2,668	3,845	3,114	3,985	3,900	3,803	4,557	5,315	2,719	2,578	2,937
	6,427	9,140	11,748	8,940	10,777	13,241	13,161	11,121	17,788	11,479	8,436	7,764
22 Less than 3.5 years	97	45	72	53	63	73	108	28	79	21	243	63
	48	114	129	216	196	46	46	248	40	73	100	105
	18	78 <sup>r</sup>	44	16	92	45	19	25	17	39	38	39
25 Pass-throughs	11,895	16,656	17,476	14,680	20,912	18,287	13,656	20,604	27,008	26,029	18,238	18,189
	829	1,274 <sup>r</sup>	1,478	789	987	2,127	1,734	1,480	1,095	1,802	1,893	1,089
Options Transactions <sup>5</sup>												
By type of underlying security U.S. Treasury, coupon securities, by maturity Less than 3.5 years 28 3.5 to 7.5 years 29 7.5 to 15 years 30 15 years or more Federal agency, mortgage-	1,401	1,537	1,692	1,077	1,300	2,218	2,025	1,450	2,564	1,538	1,271	1,400
	378	782	443	538	318	339	712	197	418	408	534	503
	341	573	679	385	586	431	1,020	1,118	710	620	745	413
	820	1,233	1,286	775	1,217	1,236	1,881	865	1,231	1,150	835	737
backed securities 31 Pass-throughs	338	563	563	448	472	580	781	371	709	610	479	675

<sup>1.</sup> Transactions are market purchases and sales of securities as reported to the Federal Reserve Bank of New York by the U.S. government securities dealers on its published list of primary dealers. Averages are based on the number of trading days in the period. Immediate, forward, and futures transactions are reported at the face value of the underlying securities.

Dealers report cumulative transactions for each week ending Wednesday.

2. Transactions for immediate delivery include purchases or sales of securities (other than mortgage-backed 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 days or less. Stripped securities are reported at market value by maturity of coupon or corpus.

3. Includes such securities are collateralized mortgage obligations (CMOs), real estate mortgage investment conduits (REMICs), interest-only securities (IOs), and principal-only securities (POs).

<sup>4.</sup> Futures transactions are standardized agreements arranged on an exchange. 4. Futures transactions are standardized agreements arranged on an exchange. Forward transactions are agreements made in the over-the-counter market that specify delayed delivery. All futures transactions are included regardless of time to 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 days.

5. 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. In tables 1.42 and 1.43, "n.a." indicates that data are not published because of insufficient activity.

Data for several types of options transactions—U.S. Treasury securities, bills; \*\*Cederal agency securities, debt; and mortgage-backed securities, other than pass-throughs—are no longer available because activity is insufficient.

#### 1.43 U.S. GOVERNMENT SECURITIES DEALERS Positions and Financing

Millions of dollars

Minions of donars											
ltem	1992	19	993				1993, we	ek ending			
	Dec.	Jan.	Feb.	Feb. 3	Feb. 10	Feb. 17	Feb. 24	Mar. 3	Mar. 10	Mar. 17	Mar. 24
						Positions <sup>2</sup>					
NET IMMEDIATE POSITIONS <sup>3</sup>											
By type of security U.S. Treasury securities 1 Bills	15,994	6,278	4,883	1	3,812	6,383	4,898	7,769	6,217	6,902	14,322
Coupon securities, by maturity 2 Less than 3.5 years	25 -7.221	-4,518 -7 905	800 -10,824	-1,172 -7,477	1,001	-3,186 -14,471	3,014 -9,228	5,028 -8,561	1,793 -12,575	-3,334	2,800 -15,846
3 3.5 to 7.5 years 4 7.5 to 15 years 5 15 years or more Federal agency securities	-10,158 7,071	-13,562 7,040	-9,682 7,126	-7,477 -12,296 6,194	-11,500 -7,470 6,230	-9,376 8,957	-10,188 6,671	-11,245 6,988	-8,861 9,114	-15,080 -9,285 9,691	-11,208 10,149
Debt, by maturity 6 Less than 3.5 years	4,297° 3,282	5,267° 2,617°	6,674 2,708	8,112 2,188	7,881 2,545	7,125 2,169	4,245 3,239	6,943 3,397	6,310 3,303	8,741 3,411	5,604 3,372
Mortgage-backed 9 Pass-throughs	3,331 24,575	3,802 <sup>r</sup> 35,214 24,531	34,699	3,750 32,976 23,742	3,440 40,227 23,289	3,424 35,792	32,868 34,069	27,607 27,871	42,168	37,448 24,782	5,240 32,746
Other money market instruments Certificates of deposit	24,932	2,907	3,571 6,911	3,623 8,109	3,035	3,463	3,913 5,428	4,063 7,097	3,127 6,426	2,652	24,828 2,987
12 Commercial paper	7,368 758	6,947 672	990	814	7,338 811	7,348 1,222	919	1,151	1,002	6,261 1,096	5,883 1,247
By type of deliverable security U.S. Treasury securities	•			ļ		ĺ					į
14 Bills. Coupon securities, by maturity 15 Less than 3.5 years	-1,820 612	-4,355 1,488	-5,805 839	-4,422 1,495	-4,800 1,558	-5,672 1,455	-7,199 133	-6,392 -757	~4,055 -181	-4,647 166	-5,860 -394
16 3.5 to 7.5 years	609 2,138 -7,258	2,352 3,002 -6,174	2,513 1,851 -3,781	844 2,811 -5,142	2,467 1,747 -3,844	3,008 1,428 -5,207	3,031 2,084 -2,241	2,075 1,645 -2,849	4,703 1,056 -4,024	3,729 2,453 -7,131	4,474 3,616 -4,895
Debt, by maturity 19	-123 -115 -16	-37 -11 20 <sup>r</sup>	-50 -12 22	-1 -108 -55	38 2 117	46 29 -24	-300 -35 19	29 1 -3	0 -23 64	-295 -77 170	-303 -24 -43
Mortgage-backed 22 Pass-throughs 23 All others 24 Certificates of deposit	-1,280 366 -71,895	-12,104 1,450 -66,597	-14,374 3,326 -117,589	-11,557 1,908 -70,026	-20,522 2,810 -99,094	-14,965 4,003 -112,864	-11,743 5,198 -143,753	-9,299 832 -148,110	-20,252 1,094 -141,247	-17,652 4,034 -155,743	-12,455 5,787 -167,837
						Financing <sup>6</sup>	, . <u>-</u>	<u></u>			
Reverse repurchase agreements 25 Overnight and continuing	208,601 <sup>r</sup> 332,250 <sup>r</sup>	230,130 <sup>r</sup> 345,749 <sup>r</sup>	230,919 364,102	232,519 373,888	219,987 398,647	247,572 339,373	223,160 363,266	233,287 341,048	246,770 371,688	238,647 391,491	226,850 384,258
Repurchase agreements 27 Overnight and continuing	357,327 <sup>r</sup> 326,266 <sup>r</sup>	387,080 <sup>r</sup> 328,425 <sup>r</sup>	404,809 351,505	398,496 352,277	393,011 382,749	415,205 335,085	402,444 352,857	416,133 322,617	419,689 355,986	422,128 380,850	395,822 382,400
Securities borrowed 29 Overnight and continuing	99,894 <sup>r</sup> 46,975 <sup>r</sup>	102,138 <sup>r</sup> 52,406 <sup>r</sup>	113,700 52,467	108,787 52,082	108,642 56,900	112,995 52,575	118,472 53,055	119,119 43,779	117,135 42,739	117,945 40,464	116,661 40,793
Securities loaned 31 Overnight and continuing	3,999 <sup>r</sup> 601 <sup>r</sup>	3,724 <sup>r</sup> 351	3,898 467	3,654 560	3,312 226	4,105 221	4,066 580	4,450 1,053	3,473 277	3,810 358	3,123 871
Collateralized loans 33 Overnight and continuing	16,800	16,882	0	0	0	0	0	0	0	0	0
MEMO: Matched book <sup>7</sup> Reverse repurchase agreements 34 Overnight and continuing	157,104 <sup>r</sup> 289,665 <sup>r</sup>	166,917 <sup>r</sup> 304,402 <sup>r</sup>	162,596 318,706	169,239 326,022	154,952 349,876	171,838 294,472	156,983 319,422	164,638 299,829	167,598 324,918	164,012 337,456	154,575 335,227
Repurchase agreements 36 Overnight and continuing	191,950 <sup>r</sup> 243,216 <sup>r</sup>	218,405 <sup>r</sup> 254,159 <sup>r</sup>	222,893 271,090	226,737 278,965	224,321 300,353	222,536 256,312	219,324 268,533	224,383 244,311	226,875 275,087	221,903 295,198	210,643 294,732

delivery. Forward contracts for U.S. Treasury securities and federal agency debt

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 days.

6. 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.

7. Matched-book data reflect financial intermediation activity in which the borrowing and lending transactions are matched. Matched-book data are included in the financing breakdowns given above. The reverse repurchase and repurchase numbers are not always equal because of the "matching" of securities of different values or different types of collateralization.

Note. Data for futures and forward commercial paper and bankers acceptances and for term financing of collateralized loans are no longer available because of insufficient activity.

<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; monthly figures are averages of weekly data.

2. Securities positions are reported at market value.

3. 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 of mortgage-backed agency securities include securities purchased or sold that have been delivered or are scheduled to be delivered in thirty days or less.

4. Includes such securities as collateralized mortgage obligations (CMOs), real estate mortgage investment conduits (REMICs), interest-only securities (IOs), and principal-only securities (POs).

5. Futures positions reflect surgements made in the over-the-counter market that specify delayed delivery. All futures positions are included regardless of time to

#### Domestic Financial Statistics ☐ June 1993 A32

#### 1.44 FEDERAL AND FEDERALLY SPONSORED CREDIT AGENCIES Debt Outstanding

Millions of dollars, end of period

	1000	1000	1000	1001		19	92		1993
Agency	1988	1989	1990	1991	Sept.	Oct.	Nov.	Dec.	Jan.
1 Federal and federally sponsored agencies	381,498	411,805	434,668	442,772	475,606	479,978	481,050	483,970	0
2 Federal agencies 3 Defense Department 1 4 Export-Import Bank <sup>1,3</sup> 5 Federal Housing Administration 1 6 Government National Mortgage Association certificates of	35,668 8 11,033 150	35,664 7 10,985 328	42,159 7 11,376 393	41,035 7 9,809 397	41,319 7 7,698 301	41,470 7 7,698 309	42,081 7 7,698 344	41,829 7 7,208 374	41,641 7 7,208 231
participation <sup>5</sup> 7 Postal Service <sup>6</sup> 8 Tennessee Valley Authority 9 United States Railway Association <sup>6</sup>	6,142 18,335 0	6,445 17,899 0	6,948 23,435 0	8,421 22,401 0	10,123 23,190 0	10,123 23,333 0	10,660 23,372 0	10,660 23,580 0	10,660 23,535 0
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  17 Farm Credit Financial Assistance Corporation 18  18 Resolution Funding Corporation 19	345,832 135,836 22,797 105,459 53,127 22,073 5,850 690 0	375,428 136,108 26,148 116,064 54,864 28,705 8,170 847 4,522	392,509 117,895 30,941 123,403 53,590 34,194 8,170 1,261 23,055	401,737 107,543 30,262 133,937 52,199 38,319 8,170 1,261 29,996	434,287 110,830 36,750 155,232 52,734 38,830 8,170 1,261 29,996	438,508 112,436 34,108 159,764 52,510 39,766 8,170 1,261 29,996	438,969 114,364 30,914 161,308 52,728 39,737 8,170 1,261 29,996	442,141 114,733 29,631 166,300 51,910 39,650 8,170 1,261 29,996	0 113,253 34,479 165,958 52,264 39,812 8,170 1,261 29,996
MEMO 19 Federal Financing Bank debt <sup>13</sup>	142,850	134,873	179,083	185,576	164,422	159,899	156,579	154,994	151,059
Lending to federal and federally sponsored agencies 20 Export-Import Bank 21 Postal Service <sup>6</sup> 22 Student Loan Marketing Association 23 Tennessee Valley Authority 24 United States Railway Association <sup>6</sup>	11,027 5,892 4,910 16,955 0	10,979 6,195 4,880 16,519 0	11,370 6,698 4,850 14,055	9,803 8,201 4,820 10,725	7,692 9,903 4,820 7,175 0	7,692 9,903 4,790 7,175 0	7,692 10,440 4,790 6,975 0	7,202 10,440 4,790 6,975 0	7,202 10,440 4,790 6,825 0
Other lending 14 25 Farmers Home Administration	58,496 19,246 26,324	53,311 19,265 23,724	52,324 18,890 70,896	48,534 18,562 84,931	42,979 18,143 73,710	42,979 18,172 69,188	42,979 18,172 65,531	42,979 18,172 64,436	42,979 18,037 60,786

10. 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 is areder 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, while the Rural Electrification Administration entry consists of both agency assets and guaranteed loans.

Consists of mortgages assumed by the Defense Department between 1957 and 1963 under family housing and homeowners assistance programs.
 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 maybet. securities market.

Securities market.

5. 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.

Veterans' Administration.

6. Off-budget.

7. Includes outstanding noncontingent liabilities: notes, bonds, and debentures. Some data are estimated.

8. Excludes borrowing by the Farm Credit Financial Assistance Corporation, 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.

# 1.45 NEW SECURITY ISSUES Tax-Exempt State and Local Governments Millions of dollars

Type of issue or issuer,	1990	1991	1002			1992				1993	
or use	1990	1991	1992	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
I All issues, new and refunding 1	120,339	154,402	215,191	19,774	18,698	21,092	14,133	19,577	17,981 <sup>r</sup>	17,793	27,471
By type of issue 2 General obligation 3 Revenue	39,610 81,295	55,100 99,302	78,611 136,580	7,005 12,769	7,461 11,237	7,733 13,359	5,203 8,930	6,024 13,553	4,840 <sup>r</sup> 13,141 <sup>r</sup>	6,963 10,830	8,254 19,217
By type of issuer 4 State 5 Special district or statutory authority <sup>2</sup> 6 Municipality, county, or township	15,149 72,661 32,510	24,939 80,614 48,849	25,295 127,618 60,210	2,933 11,203 5,638	1,710 11,054 5,934	2,742 13,113 5,237	1,688 8,197 4,248	2,339 11,159 6,079	1,339 12,556 3,994	3,485 n.a. 4,654	2,139 n.a. 6,977
7 Issues for new capital	103,235	116,953	120,272	11,993	10,496	13,760	8,028	8,010	5,875	4,636	9,716
By use of proceeds 8 Education 9 Transportation 10 Utilities and conservation 11 Social welfare 12 Industrial aid 13 Other purposes	17,042 11,650 11,739 23,099 6,117 34,607	21,121 13,395 21,039 25,648 8,376 30,275	22,071 17,334 20,058 21,796 5,424 33,589	1,737 2,130 2,604 767 503 4,252	1,237 1,977 2,265 1,869 1,176 1,972	2,083 1,364 3,340 2,365 367 4,241	1,800 531 960 1,070 581 3,086	1,658 831 1,258 1,121 339 2,803	1,033 <sup>r</sup> 829 <sup>r</sup> 894 <sup>r</sup> 777 337 2,005	1,264 131 423 618 69 2,131	1,482 2,111 538 1,556 765 3,264

Par amounts of long-term issues based on date of sale.
 Includes school districts.

Sources, Securities Data Company beginning January 1993. Investment Dealer's Digest for earlier data.

# 1.46 NEW SECURITY ISSUES U.S. Corporations

Millions of dollars

Type of issue, offering,	1990	1991	1992			19	92			19	93
or issuer	1990	1991	1992	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
1 All issues <sup>1</sup>	340,049	465,483	n.a.	46,235	37,091	42,849	39,280°	35,525°	39,424	50,793	59,403
2 Bonds <sup>2</sup>	299,884	390,018	404,992	39,758	31,815	37,539	32,314 <sup>r</sup>	31,026 <sup>r</sup>	33,375	45,559	49,343
By type of offering 3 Public, domestic 4 Private placement, domestic 5 Sold abroad.	188,848 86,982 23,054	287,125 74,930 27,962	377,453 n.a. 27,539	37,833 n.a. 1,924	28,561 n.a. 3,254	36,185 n.a. 1,355	30,249 n.a. 2,066 <sup>r</sup>	28,774 <sup>r</sup> n.a. 2,252 <sup>r</sup>	31,835 n.a. 1,540	41,675 n.a. 3,884	47,165 n.a. 2,178
By industry group 6 Manufacturing 7 Commercial and miscellaneous 8 Transportation 9 Public utility 10 Communication 11 Real estate and financia	51,779 40,733 12,776 17,621 6,687 170,288	86,628 36,666 13,598 23,945 9,431 219,750	69,538 30,049 6,497 44,643 13,073 241,192	5,509 3,488 766 6,902 2,081 21,011	4,720 2,159 393 4,509 1,053 18,982	5,974 2,374 677 5,230 1,191 22,093	7,975 2,813 290 3,700 427 17,110 <sup>r</sup>	3,467 2,396 <sup>r</sup> 0 1,289 374 23,499 <sup>r</sup>	4,232 2,176 611 2,867 516 22,973	9,393 3,074 316 4,282 3,019 25,475	8,080 2,268 248 5,624 2,890 30,234
12 Stocks <sup>2</sup>	40,165	75,467	n.a.	6,477	5,276	5,310	6,966	4,499	6,049	5,234	10,060
By type of offering 13 Public preferred 14 Common 15 Private placement <sup>3</sup> .	n.a. n.a. 16,736	17,408 47,860 10,109	21,332 57,099 n.a.	2,413 4,064 n.a.	1,148 4,129 n.a.	1,233 4,077 n.a.	2,901 4,065 n.a.	1,540 2,958 n.a.	1,608 4,441 n.a.	1,112 4,122 n.a.	1,898 8,161 n.a.
By industry group 16 Manufacturing 17 Commercial and miscellaneous 18 Transportation 19 Public utility 20 Communication 21 Real estate and financial	5,649 10,171 369 416 3,822 19,738	24,154 19,418 2,439 3,474 475 25,507	n.a. n.a. n.a. n.a. n.a. n.a.	857 1,599 n.a. 564 n.a. 3,457	713 1,315 n.a. 921 n.a. 2,327	307 602 59 595 1,051 2,695	1,779 940 53 359 99 3,735	288 1,366 304 150 22 2,369	1,468 2,226 118 92 126 2,019	722 1,688 65 310 0 2,438	2,616 2,021 64 350 0 5,009

<sup>1.</sup> 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 closed-end, intracorporate transactions, equities sold abroad, and Yankee bonds. Stock data include ownership securities issued by limited partnerships.

2. Monthly data cover only public offerings.
3. Monthly data are not available.
Sources. IDD Information Services, Inc., the Board of Governors of the Federal Reserve System, and, before 1989, the U.S. Securities and Exchange Commission.

# 1.47 OPEN-END INVESTMENT COMPANIES Net Sales and Assets

Millions of dollars

v. 1	1004	1002			19	992			19	993
Item¹	1991 <sup>r</sup>	1992	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>r</sup>	Jan.	Feb.
1 Sales of own shares <sup>2</sup>	463,645	647,055	54,915	50,627	50,039	52,214	52,019	70,618	71,607	60,716
2 Redemptions of own shares	342,547 121,098	447,140 199,915	34,384 20,703	35,223 15,404	37,862 12,177	37,134 15,080	34,126 17,893	51,993 18,625	46,545 25,062	39,686 21,030
4 Assets <sup>4</sup>	808,582	1,056,310	951,806	957,145	978,507	983,151	1,019,618	1,056,310	1,082,653	1,116,652
5 Cash <sup>5</sup>	60,292 748,290	73,999 982,311	72,732 879,074	77,245 879,900	76,498 902,009	75,808 907,343	80,247 939,371	73,999 982,311	76,764 1,005,889	80,321 1,036,331

Data on sales and redemptions exclude money market mutual funds but include limited-maturity municipal bond funds. Data on assets exclude both money market mutual funds and limited-maturity municipal bond funds.
 Lincludes reinvestment of dividends. Excludes reinvestment of capital gains

#### 1.48 CORPORATE PROFITS AND THEIR DISTRIBUTION

Billions of dollars; quarterly data at seasonally adjusted annual rates

	1990	1991	1992		19	91			19	192	
Account	1990	1991	1992	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4 <sup>r</sup>
Profits with inventory valuation and capital consumption adjustment     Profits before taxes     Profits tax liability     Profits after taxes     Dividends     Undistributed profits.	218.7 149.3 69.4	346.3 334.7 124.0 210.7 146.5 64.2	394.5 372.3 140.5 231.8 149.3 <sup>r</sup> 82.5	349.6 337.6 121.3 216.3 150.6 65.7	347.3 332.3 122.9 209.4 146.2 63.2	341.2 336.7 127.0 209.6 145.1 64.5	347.1 332.3 125.0 207.4 143.9 63.4	384.0 366.1 136.4 229.7 143.6 86.2	388.4 376.8 144.1 232.7 146.6 86.1	374.1 354.1 131.8 222.2 151.1 71.1	428.5 389.4 148.5 241.0 155.9 <sup>r</sup> 85.0
7 Inventory valuation	-14.2 20.5	3.1 8.4	-7.4 <sup>r</sup> 29.5 <sup>r</sup>	6.7 5.3	9.9 5.1	-4.8 9.3	.7 14.1	-5.4 23.3	~15.5 27.0	-9.7 <b>2</b> 9.7	

Source. U.S. Department of Commerce, Survey of Current Business.

# 1.50 NONFARM BUSINESS EXPENDITURES on New Plant and Equipment

Billions of dollars quarterly data at seasonally adjusted annual rates

	1001	1000	19931	19	91		19	92	_	19	93
Industry	1991	1992	1993	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2 <sup>1</sup>
1 Total nonfarm business	528.39	546.08	582.31	526.59	529.87	535.72	540.91	547,53	560.16	571.41	578.15
Manufacturing 2 Durable goods industries	77.64 105.17	73.41 100.50	77.11 106.24	74.94 102.55	76.40 102.66	74.19 99.79	74.26 97.52	71.84 100.39	73.34 104.28	80.68 103.01	77.62 103.48
Nonmanufacturing 4 Mining	10.02	8.90	9.32	10.09	9.99	8.87	9.18	9.09	8.44	9.52	9.49
5 Raifroad	5,95 10.17 6.54	6.77 8.97 7.04	7.36 7.10 8.60	6.32 9.61 6.63	5.44 10.41 6.45	6.65 8.86 6.37	6.50 9.75 7.27	6.87 10.13 7.69	7.08 7.13 6.84	6.26 7.36 8.07	7.71 9.10 7.51
8 Electric	43.76 22.82 246.32	48.05 23.91 268.54	53.32 24.08 289.18	43.27 23.25 249.94	44.75 22.67 251.11	46.06 22.75 262.17	48.45 24.19 263.80	47.73 23.92 269.86	49.95 24.78 278.32	52.61 23.46 280.44	53.05 24.22 285.98

Figures are amounts anticipated by business.
 "Other" consists of construction, wholesale and retail trade, finance and insurance, personal and business services, and communication.

SOURCE. U.S. Department of Commerce, Survey of Current Business.

distributions.

3. Excludes sales and redemptions resulting from transfers of shares into or out of money market mutual funds within the same fund family.

Market value at end of period, less current liabilities.

manket vaue at end of period, less current liabilities.

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 new companies.

#### 1.51 DOMESTIC FINANCE COMPANIES Assets and Liabilities<sup>1</sup>

Billions of dollars, end of period; not seasonally adjusted

	1000	1001	1004		1991			19	992	
Account	1990	1991	1992	Q2	Q3	Q4	QI	Q2	Q3	Q4
Assets									-	
1 Accounts receivable, gross <sup>2</sup> . 2 Consumer. 3 Business. 4 Real estate	492.9 133.9 293.5 65.5	480.3 121.9 292.6 65.8	482.1 117.1 296.5 68.4	488.5 127.5 295.2 65.7	484.7 125.3 293.2 66.2	480.3 121.9 292.6 65.8	475.7 118.4 291.6 65.8	476.8 <sup>r</sup> 116.7 293.7 <sup>r</sup> 66.4	475.8 116.6 291.1 68.1	482.1 117.1 296.5 68.4
5 Less: Reserves for unearned income 6 Reserves for losses	57.6 9.6	55.1 12.9	50.8 15.8	58.0 11.1	57.6 13.1	55.1 12.9	53.6 13.0	51.2 12.3	50.8 12.0	50.8 15.8
7 Accounts receivable, net	425.7 113.9	412.3 149.0	415.5 150.6	419.3 122.8	414.1 136.4	412.3 149.0	409.1 145.5	413.3 <sup>r</sup> 139.4	412.9 146.5	415.5 150.6
9 Total assets	539.6	561.2	566.1	542.1	550.5	561.2	554.6	552.7 <sup>r</sup>	559.4	566.1
LIABILITIES AND CAPITAL		J								
10 Bank loans	31.0 165.3	42.3 159.5	37.6 156.4	36.9 156.1	39.6 156.8	42.3 159.5	38.0 154.4	37.8 147.7	38.1 153.2	37.6 156.4
Debt 12 Other short-term 13 Long-term 14 Owed to parent 15 Not elsewhere classified 16 All other liabilities 17 Capital, surplus, and undivided profits	n.a. n.a. 37.5 178.2 63.9 63.7	n.a. n.a. 34.5 191.3 69.0 64.8	n.a. n.a. 37.8 195.3 71.2 67.8	n.a. n.a. 34.2 184.5 67.1 63.3	n.a. n.a. 36.5 185.0 68.8 63.8	n.a. n.a. 34.5 191.3 69.0 64.8	n.a. n.a. 34.5 189.8 72.0 66.0	n.a. n.a. 34.8 191.9 73.4 67.1	n.a. n.a. 34.9 191.4 73.7 68.1	n.a. n.a. 37.8 195.3 71.2 67.8
18 Total liabilities and capital	539.6	561.2	566.1	542.1	550.5	561.2	554.6	552.7 <sup>r</sup>	559.4	566.1

<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 since they are not on the books.

# 1.52 DOMESTIC FINANCE COMPANIES¹ Consumer, Real Estate, and Business Credit

Millions of dollars, amounts outstanding, end of period

Town of multi-	1000	1001	10025		19	92		19	93
Type of credit	1990	1991	1992 <sup>r</sup>	Sept.	Oct.	Nov.	Dec.r	Jan.	Feb.
				Sea	sonally adju	sted			
1 Total	<b>523,023</b> 161,070	<b>519,573</b>	<b>531,864</b> 157,707	<b>527,858</b> 155,618	<b>527,323</b> 154,501	<b>529,232</b> 156,593	<b>531,864</b> 157,707	<b>526,254</b> 156,551	<b>528,395</b>
2 Consumer	65,147 296,807	65,388 299,400	68,011 306,146	67,717 304,523	68,035 304,787	67,838 304,801	68,011 306,146	68,942 300,761	70,016 300,646
				Not se	asonally ad	justed			
5 Total	526,441	522,853	535,158	524,999	526,874	528,895	535,158	525,847	525,490
6 Consumer. 7 Motor vehicles 8 Other consumer. 9 Securitized motor vehicles. 10 Securitized other consumer. 11 Real estate. 12 Business 13 Motor vehicles 14 Retail. 15 Wholesale. 16 Leasing. 17 Equipment 18 Retail. 19 Wholesale. 10 Leasing. 20 Leasing. 21 Other business. 22 Securitized business assets. 23 Retail 24 Wholesale. 25 Leasing.	161,965 75,045 88,818 19,837 8,265 55,509 298,972 26,401 33,573 32,098 137,654 31,968 11,101 94,585 63,774 63,774 63,774 63,774 63,774 1,519	155,677 63,413 58,488 23,166 10,610 65,764 301,412 90,319 22,507 31,216 100,766 8,807 5,285 2,946	158,631 57,635 59,522 29,775 11,729 308,118 87,456 19,303 27,158 38,191 151,607 32,215 8,669 110,726 111,590 1,118 1,159 1,118	156,416 59,806 56,808 28,204 11,598 68,064 300,519 85,261 120,407 n.a. 39,506 147,319 31,571 8,994 106,754 99,447 152 152 152 153 18,797 18,79	155,505 59,290 57,013 27,823 11,379 68,477 302,892 86,747 20,763 n.a. 39,536 147,146 31,475 8,928 106,743 58,898 10,101 63,895 10,101 63,895 10,101 63,895 10,101 63,895 10,101	157,005 58,286 58,128 58,128 28,964 11,626 68,016 19,708 n.a. 39,020 148,202 31,427 8,824 107,952 59,269 10,782 6813 4,362	158,631 57,605 59,525 29,775 11,729 68,410 308,118 87,456 19,303 n.a. 38,191 151,607 32,212 8,669 110,726 11,590 1,118 5,756 4,716	156,430 57,164 28,894 11,527 68,889 300,527 86,491 19,124 n.a. 38,640 146,820 32,458 8,582 105,780 57,780 57,780 55,780 55,780 55,780 4,839	155,929 54,036 58,651 32,860 10,383 69,216 300,345 86,412 17,881 n.a. 38,472 145,886 32,430 8,318 105,138 55,138 57,040 973 6,408 4,704

<sup>1.</sup> Includes finance company subsidiaries of bank holding companies but not of retailers and banks. Data are before deductions for unearned income and losses. Data in this table also appear in the Board's G.20 (422) monthly statistical release. For ordering address, see inside front cover.

2. Includes all loans secured by liens on any type of real estate, for example, first and junior mortgages and home equity loans.

3. Includes personal cash loans, mobile home loans, and loans to purchase other types of consumer goods such as appliances, apparel, general merchandise, and recreation vehicles.

<sup>2.</sup> Before deduction for unearned income and losses.

recreation vehicles

<sup>4.</sup> Outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator.

Passenger car fleets and commercial land vehicles for which licenses are required.
 Credit arising from transactions between manufacturers and dealers, that is, floor plan financing.
 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 ☐ June 1993 A36

# 1.53 MORTGAGE MARKETS Conventional Mortgages on New Homes

Millions of dollars except as noted

				1	19	92			1993	
ltem	1990	1991	1992	Sept.	Oct.	Nov,	Dec.	Jan.	Feb.	Mar.
			Ter	ms and yie	ds in prima	iry and seco	ondary mar	kets		
PRIMARY MARKETS										
Terms <sup>1</sup> 1 Purchase price (thousands of dollars)  2 Amount of loan (thousands of dollars)  3 Loan-price ratio (percent)  4 Maturity (years)  5 Fees and charges (percent of loan amount) <sup>2</sup> 6 Contract rate (percent per year)	153.2 112.4 74.8 27.3 1.93 9.68	155.0 114.0 75.0 26.8 1.71 9.02	158.1 118.1 76.6 25.6 1.60 7.98	146.0 109.3 77.0 25.7 1.52 7.68	159.2 119.7 77.3 25.2 1.42 7.65	165.4 117.3 75.3 24.9 1.54 7.81	154.0 117.7 77.7 26.1 1.31 7.65	158.6 119.5 76.8 25.7 1.49 7.57	159.7 114.5 75.4 23.8 1.43 7.52	156.2 121.5 79.3 26.9 1.50 7.22
Yield (percent per year) 7 OTS series 8 HUD series 4	10.01 10.08	9.30 9.20	8.25 8.43	7.93 7.95	7.90 8.29	8.07 8.38	7.88 8.19	7.82 7.93	7.77 7.63	7.46 7.59
SECONDARY MARKETS										
Yield (percent per year) 9 FHA mortgages (HUD series) <sup>5</sup>	10.17 9.51	9.25 8.59	8.46 7.77	8.06 7.31	8.29 7.53	8.54 7.90	8.12 7.57	8.04 7,39	7.55 7.02	7.57 6.79
				Act	ivity in seco	ondary mar	kets			
Federal National Mortgage Association										
Mortgage holdings (end of period) 11 Total 12 FHA/VA-insured 13 Conventional	113,329 21,028 92,302	122,837 21,702 101,135	142,833 22,168 120,664	144,904 22,275 122,629	149,133 22,399 126,734	153,306 22,372 130,934	158,119 22,593 135,526	159,204 22,640 136,564	159,766 22,573 137,193	161,147 22,700 138,447
Mortgage transactions (during period) 14 Purchases	23,959	37,202	75,905	6,779	8,380	7,980	8,832	4,993	4,118	4,730
Mortgage commitments (during period) <sup>7</sup> 15 Issued <sup>8</sup>	23,689 5,270	40,010 7,608	74,970 10,493	8,880 148	8,195 0	6,084 237	6,185 1,811	4,189 1,159	4,177 221	6,644 0
FEDERAL HOME LOAN MORTGAGE CORPORATION										
Mortgage holdings (end of period) <sup>9</sup>   17 Total	20,419 547 19,871	24,131 484 23,283	29,959 408 29,552	31,629 371 31,259	32,995 365 32,630	32,703 359 32,343	33,665 352 33,313	32,370 347 32,023	32,454 343 32,112	35,421 337 35,084
Mortgage transactions (during period) 20 Purchases	75,517 73,817	97,727 92,478	191,125 179,208	16,391 14,267	20,199 18,771	19,607 19,154	20,792 19,602	15,512 16,536	12,063 12,105	12,587 10,286
Mortgage commitments (during period) <sup>10</sup> 22 Contracted	102,401	114,031	261,637	17,132	27,380	29,717	32,453	17,591	23,366	21,103

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 carrying the prevailing ceiling rate. Monthly figures are averages of Friday figures from the Wall Street Journal.

7. Includes some multifamily and nonprofit hospital loan commitments in addition to one- to four-family loan commitments accepted in the Federal National Mortgage Association's (FNMA's) free market auction system, and through the FNMA-GNMA tandem plans.

8. Does not include standby commitments issued, but includes standby commitments converted.

commitments converted.

<sup>1.</sup> Weighted averages based on sample surveys of mortgages originated by major institutional lender groups; compiled by the Federal Housing Finance Board in cooperation with the Federal Deposit Insurance Corporation.

2. Includes all fees, commissions, discounts, and "points" paid (by the borrower or the seller) to obtain a loan.

3. Average effective interest rates on loans closed, assuming prepayment at the end of ten years; from Office of Thrift Supervision (OTS).

4. Average contract rates on new commitments for conventional first mortgages; from U.S. Department of Housing and Urban Development (HUD).

5. Average gross yields 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. Large monthly movements of average yields may reflect market adjustments to changes in maximum permissible contract rates.

6. Average net yields to investors on fully modified pass-through securities backed by mortgages and guaranteed by the Government National Mortgage

commitments converted.

9. Includes participation loans as well as whole loans.

10. Includes conventional and government-underwritten loans. The Federal Home Loan Mortgage Corporation's mortgage commitments and mortgage transactions include activity under mortgage securities swap programs, while the corresponding data for FNMA exclude swap activity.

#### 1.54 MORTGAGE DEBT OUTSTANDING1

				1991		19	92	
Type of holder and property	1989	1990	1991	Q4	Q1	Q2	Q3	Q4 <sup>p</sup>
1 All holders.	3,570,906	3,795,210	3,915,871	3,915,871	3,938,198	3,976,483	4,012,983	4,057,012
By type of property 2 One- to four-family residences 3 Multifamily residences 4 Commercial 5 Farm	2,424,258 307,672 754,952 84,025	2,635,428 311,113 764,953 83,716	2,764,447 310,427 758,063 82,934	2,764,447 310,427 758,063 82,934	2,790,734 310,499 754,290 82,674	2,838,732 306,038 748,496 83,218	2,890,842 305,379 733,083 83,679	2,942,958 302,211 728,404 83,439
By type of holder 6 Major financial institutions 7 Commercial banks* 8 One- to four-family 9 Multifamily 10 Commercial 11 Farm 12 Savings institutions* 13 One- to four-family 14 Multifamily 15 Commercial 16 Farm 17 Life insurance companies 18 One- to four-family 19 Multifamily 19 Multifamily 20 Commercial 21 Farm	1,931,537 767,069 389,632 38,876 321,906 16,656 6910,254 669,220 106,014 134,370 650 254,214 12,231 26,907 205,472 9,604	1,914,315 844,826 455,931 37,015 334,648 17,231 801,628 600,154 91,806 500 267,861 13,005 28,979 215,121 10,756	1,846,910 876,284 486,572 37,424 333,852 18,436 705,367 538,358 79,881 86,741 388 265,258 11,547 29,562 214,105 10,044	1,846,910 876,284 486,572 37,424 333,852 18,436 705,367 538,358 79,881 86,741 388 265,258 11,547 29,562 214,105	1,825,983 880,377 492,910 37,710 330,837 18,919 682,338 524,536 77,166 80,278 358 263,269 11,214 29,693 212,865 9,497	1,803,488 884,598 496,518 38,314 330,229 19,538 659,624 508,545 74,788 75,947 345 259,266 10,676 29,425 210,139 9,026	1,793,505 891,484 506,658 38,985 325,934 19,906 648,178 501,604 73,723 72,517 334 253,843 10,451 28,804 205,709 8,878	1,771,502 893,793 511,306 38,013 324,596 19,878 627,531 489,217 69,788 68,202 324 250,178 10,110 28,558 202,989 8,522
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 Commercial 30 Farm 31 Federal Housing and Veterans Administrations. 30 One- to four-family. 31 Multifamily. 32 One- to four-family. 33 Multifamily. 34 Resolution Trust Corporation. 35 One- to four-family. 36 Multifamily. 37 Commercial. 38 Farm 39 Federal National Mortgage Association. 40 One- to four-family. 41 Multifamily. 42 Federal Land Banks. 43 One- to four-family. 44 Federal Land Banks. 45 Federal Home Loan Mortgage Corporation. 46 One- to four-family. 47 Multifamily. 48 Federal Home Loan Mortgage Corporation. 49 One- to four-family. 40 One- to four-family. 41 Federal Home Loan Mortgage Corporation. 42 Federal Home Loan Mortgage Corporation. 43 One- to four-family.	197,778 23 23 24 1,176 18,422 9,054 4,443 9,257 6,087 0 0 0 99,001 90,575 8,426 29,640 1,210 28,430 21,851 18,248 3,603	239,003 20 20 20 41,439 9,640 4,690 8,582 8,801 3,593 5,208 32,660 15,800 8,736 0 104,870 94,323 10,547 29,416 1,838 27,577 21,857 19,185 2,672	266,156 19 19 0 41,713 18,496 10,141 4,905 8,171 10,733 4,036 6,697 45,822 14,535 15,018 16,269 0 112,283 100,387 11,896 28,777 1,693 27,084 26,809 24,125 2,684	266,156 19 0 41,713 18,496 10,141 4,905 8,171 10,733 4,036 6,697 45,822 14,535 15,018 16,269 0 112,283 100,387 11,896 28,777 1,693 27,084 26,809 24,125 2,684	278,396 19 19 19 0 41,791 18,488 10,270 4,961 8,072 11,332 4,254 7,078 49,345 15,458 16,266 17,621 0 118,238 105,869 12,36	278,131 23 23 24,628 17,718 10,356 4,998 8,557 11,480 7,077 44,624 15,032 13,316 16,276 0 0 122,979 110,223 12,756 28,775 1,693 27,082 28,621 26,001 2,620	277,485 27 27 27 27 27 27 10,468 5,072 8,839 11,768 4,531 7,236 37,099 12,614 11,130 13,356 0,26,476 13,407 13,069 28,815 1,695 27,119 31,629 29,039 2,591	286,428 31 31 31 31 41,695 16,912 10,575 5,158 9,050 12,581 5,153 7,428 32,045 9,658 11,038 11,350 0 137,584 124,016 13,568 28,827 1,696 27,131 33,665 31,032 2,633
48 Mortgage pools or trusts5 49 Government National Mortgage Association 50 One to four-family 51 Multifamily 52 Federal Home Loan Mortgage Corporation 53 One to four-family 54 Multifamily 55 Federal National Mortgage Association 66 One to four-family 77 Multifamily 78 Farmers Home Administration4 79 One to four-family 70 Multifamily 71 Multifamily 72 Commercial 73 Farm 74 Private mortgage conduits 75 One to four-family 76 Multifamily 77 Multifamily 78 Multifamily 79 One to four-family 79 One to four-family 70 Multifamily 70 Commercial 70 Farm 71 Multifamily 72 Multifamily 73 Multifamily 74 Multifamily 75 Multifamily 75 Multifamily 75 Multifamily 75 Commercial 75 Farm	951,740 368,367 358,142 10,225 272,870 266,060 6,810 228,232 219,577 8,655 80 21 0 26 33 82,191 77,217 462 4,512	1,116,452 403,613 391,505 12,108 316,359 308,369 7,990 299,833 291,194 8,639 66 17 0 24 26 96,581 90,684 731 5,166	1,270,862 425,295 415,767 9,528 359,163 351,906 7,257 371,984 362,667 9,317 47 11 0 19 17 114,373 104,196 3,698 6,479	1,270,862 425,295 415,767 9,528 359,163 351,906 7,257 371,984 362,667 9,317 47 11 0 19 17 114,373 104,196 3,698 6,479 0	1,288,823 421,977 412,574 9,404 367,878 360,887 6,991 389,853 380,617 9,236 43 10 0 18 16 109,071 95,600 4,686 8,784	1,341,338 422,922 413,828 9,094 382,797 376,177 6,620 413,226 403,940 9,286 43 15 122,350 105,700 5,796 10,855	1,385,460 422,255 413,063 9,192 391,762 385,400 6,362 429,935 420,835 9,100 41 9 0 18 141,468 123,000 5,796 12,673	1,425,546 419,516 410,675 8,841 407,514 401,525 5,989 444,979 9,000 38 8 0 17 13 153,499 132,000 6,305 15,194
68 Individuals and others <sup>6</sup> 69 One- to four-family. 70 Multifamily. 71 Commercial 72 Farm	489,851 300,805 85,427 84,224 19,395	525,440 331,282 87,713 87,400 19,045	531,943 330,131 87,324 95,693 18,795	531,943 330,131 87,324 95,693 18,795	544,996 340,424 86,917 98,925 18,730	553,526 348,245 86,591 100,035 18,656	556,532 351,217 88,922 97,805 18,588	573,535 363,641 90,475 100,898 18,522

Based on data from various institutional and governmental sources; figures for some quarters estimated in part by the Federal Reserve. 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 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 1986:4 because of accounting changes by the Farmers Home Administration.

Outstanding principal balances of mortgage-backed securities insured or guaranteed by the agency indicated.
 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.

# 1.55 CONSUMER INSTALLMENT CREDIT<sup>1</sup>

Millions of dollars, amounts outstanding, end of period

	1000	4001	togat.		19	92		19	93
Holder and type of credit	1990	1991	1992 <sup>r</sup>	Sept.	Oct.	Nov.	Dec.r	Jan.	Feb.
				Sea	asonally adjus	ted			
1 Total	735,338	727,799	726,653	722,104	722,372	723,448	726,653	727,647	728,815
2 Automobile 3 Revolving 4 Other	284,993 222,950 227,395	263,003 242,785 222,012	260,097 251,258 215,298	257,384 250,017 214,703	256,846 250,454 215,071	257,740 250,620 215,088	260,097 251,258 215,298	259,720 252,785 215,143	260,763 255,177 212,876
				Not :	seasonally adj	usted			
5 Total	748,524	742,058	741,381	724,198	722,760	725,178	741,381	732,490	726,265
By major holder 6 Commercial banks 7 Finance companies. 8 Credit unions. 9 Retailers. 10 Savings institutions 11 Gasoline companies 12 Pools of securitized assets <sup>2</sup> .	347,087 133,863 93,057 44,822 46,969 4,822 77,904	339,565 121,901 92,254 44,030 40,315 4,362 99,631	329,603 117,086 92,648 44,952 33,861 4,365 118,866	324,046 116,650 92,698 38,778 35,069 4,499 112,458	324,697 116,304 92,228 39,299 34,148 4,452 111,632	324,529 116,414 91,838 39,539 34,171 4,365 114,322	329,603 117,086 92,648 44,952 33,861 4,365 118,866	326,807 116,059 92,381 42,585 33,902 4,366 116,390	324,358 112,687 91,777 40,671 33,754 4,148 118,870
By major type of credit <sup>3</sup> 13 Automobile	285,050 124,913 75,045 24,428	263,108 111,912 63,413 28,057	260,227 108,581 57,604 33,593	260,395 108,355 59,806 31,971	259,055 108,068 59,290 31,757	258,539 107,675 58,286 32,672	260,227 108,581 57,604 33,593	258,473 108,432 57,165 32,388	258,833 108,580 54,036 35,930
17 Revolving. 18 Commercial banks 19 Retailers 20 Gasoline companies 21 Pools of securitized assets <sup>2</sup>	235,056 133,385 40,003 4,822 44,335	255,895 137,968 39,352 4,362 60,139	264,801 132,921 40,064 4,365 72,695	248,692 127,234 34,148 4,499 68,252	248,526 127,257 34,654 4,452 67,699	251,422 128,164 34,857 4,365 69,415	264,801 132,921 40,064 4,365 72,695	257,992 129,056 37,719 4,366 71,927	254,258 127,252 35,815 4,148 72,024
22 Other 23 Commercial banks 24 Finance companies 25 Retailers 26 Pools of securitized assets <sup>2</sup>	228,418 88,789 58,818 4,819 9,141	223,055 89,685 58,488 4,678 11,435	216,353 88,101 59,482 4,888 12,578	215,111 88,457 56,844 4,630 12,235	215,179 89,372 57,014 4,645 12,176	215,217 88,690 58,128 4,682 12,235	216,353 88,101 59,482 4,888 12,578	216,025 89,319 58,894 4,866 12,075	213,174 88,526 58,651 4,856 10,916

<sup>1.</sup> The Board's series on amounts of credit covers most short— and intermediate—term credit extended to individuals that is scheduled to be repaid (or has the option of repayment) in two or more installments.

Data in this table also appear in the Board's G.19 (421) monthly statistical release. For ordering address, see inside front cover.

#### 1.56 TERMS OF CONSUMER INSTALLMENT CREDIT<sup>1</sup>

Percent per year except as noted

	1990	1991	1002	1992					19	993
Item	1990	1991	1992	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
INTEREST RATES										
Commercial banks <sup>2</sup> 1 48-month new car	11.78	11.14	9.29	9.15	n.a.	n.a.	8.60	n.a.	n.a.	8.57
	15.46	15.18	14.04	13.94	n.a.	n.a.	13.55	n.a.	n.a.	13.57
	14.02	13.70	12.67	12.57	n.a.	n.a.	12.36	n.a.	n.a.	12.38
	18.17	18.23	17.78	17.66	n.a.	n.a.	17.38	n.a.	n.a.	17.26
Auto finance companies  5 New car	12.54	12.41	9,93	8.88	8.65	9.51	9.65	9.65	10.08	10.32
	15.99	15.60	13.80 <sup>r</sup>	13.49	13.44	13.37	13.37	13.66 <sup>r</sup>	13.72	13.90
Maturity (months) 7 New car	54.6	55.1	54.0	53.6	53.3	54.1	54.1	53.6	53.9	54.3
	46.0	47.2	47.9 <sup>r</sup>	47.9	47.7	47.9	47.8	47.7 <sup>r</sup>	49.2	49.0
Loan-to-value ratio 9 New car	87	88	89	90	90	89	89	90	90	91
	95	96	97	97	97	97	97	97	97	98
Amount financed (dollars) 11 New car 12 Used car	12,071	12,494	13,584 <sup>r</sup>	13,745	13,889	13,885	14,043	14,315 <sup>r</sup>	13,975	13,849
	8,289	8,884	9,119 <sup>r</sup>	9,238	8,402	9,373	9,475	9,464 <sup>r</sup>	9,472	9,457

<sup>1.</sup> Data in this table also appear in the Board's G.19 (421) monthly statistical release. For ordering address, see inside front cover.

Outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator.
 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

			4000				1991			19	92	
Transaction category or sector	1988	1989	1990	1991	1992	Q2	Q3	Q4	Q1	Q2 <sup>r</sup>	Q3 <sup>r</sup>	Q4
					1	Nonfinanc	ial sector	s				
l Total net borrowing by domestic nonfinancial sectors	775.8	740.8	665.0	442.7°	587.4	534.4 <sup>r</sup>	401.4 <sup>r</sup>	371.1 <sup>r</sup>	687.5°	583.0	476.0	603.2
By sector and instrument 2 U.S. government. 3 Treasury securities 4 Agency issues and mortgages.	155.1 137.7 17.4	146.4 144.7 1.6	246.9 238.7 8.2	278.2 292.0 -13.8	304.0 303.8 .2	276.7 282.9 -6.2	288.4 317.2 -28.8	320.4 316.6 3.8	368.9 380.1 -11.2	351.9 351.5 .4	193.4 184.4 9.0	301.7 299.1 2.7
5 Private	620.7	594.4	418.2	164.4 <sup>r</sup>	283.5	257.7 <sup>r</sup>	113.0 <sup>r</sup>	50.7°	318.6 <sup>r</sup>	231.1	282.6	301.5
By instrument   Debt capital instruments   7   Tax-exempt obligations   8   Corporate bonds   9   Mortgages   10   Home mortgages   11   Multifamily residential   12   Commercial   13   Farm   14   Other debt instruments   15   Consumer credit   16   Bank loans n.e.c.   17   Open market paper   18   Other   18   O	474.1 53.7 103.1 317.3 241.8 16.7 60.8 -2.1 146.6 50.1 41.0 11.9 43.6	441.8 65.0 73.8 303.0 245.3 16.4 42.7 -1.5 152.6 41.7 40.2 21.4 49.3	342.3 51.2 47.1 244.0 219.4 3.7 21.0 1 75.8 17.5 4.4 9.7 44.2	244.7 <sup>r</sup> 45.8 78.8 120.1 <sup>r</sup> 129.0 <sup>r</sup> 9 <sup>r</sup> - 7.3 <sup>r</sup> 8 - 80.2 - 12.5 - 33.4 - 18.4 - 15.8	280.4 53.3 66.3 160.8 198.5 -8.3 -29.9 .5 3.0 2.4 -16.8 9.8 7.5	321.0 <sup>r</sup> 48.5 96.5 175.9 <sup>r</sup> 147.3 <sup>r</sup> 12.7 <sup>r</sup> 16.6 <sup>r</sup> -6.6 <sup>r</sup> -63.3 -7.8 -34.5 -15.9	177.8 <sup>r</sup> 53.5 81.6 <sup>r</sup> 42.6 <sup>r</sup> 118.6 <sup>r</sup> -31.0 <sup>r</sup> -42.6 <sup>r</sup> -2.4 <sup>r</sup> -64.8 -24.0 -18.2 -36.3 13.7	175.4° 45.5 60.2° 69.7° 93.0° 8.0° -31.4° -8.0 -124.7 -8.0 -66.1 -7.0 -43.6	333.0° 52.0 76.3 204.8° 221.5° -15.7° -1.0° -14.4 3.1 -26.9 12.6 -3.2	267.1 73.0 77.5 116.6 155.5 -17.9 -23.2 -2.2 -36.0 -12.4 -21.5 -3.4 1.3	253.7 52.3 61.3 140.1 202.8 -2.7 -61.8 28.8 -3.2 1.7 30.0	267.9 35.9 50.3 181.7 214.2 -12.7 -18.8 -1.0 33.6 18.8 -15.4 28.4
By borrowing sector State and local government Household Nonfinancial business Farm Nonfarm noncorporate Corporate	48.9 318.6 253.1 -7.5 61.8 198.8	63.2 305.6 225.6 1.6 50.4 173.6	48.3 254.2 115.6 2.5 26.7 86.4	38.5 144.9 <sup>r</sup> -18.9 <sup>r</sup> .9 -23.6 3.7 <sup>r</sup>	48.1 215.1 20.2 .9 -34.2 53.5	38.6 178.0 <sup>r</sup> 41.1 <sup>r</sup> 2.2 <sup>r</sup> 9.8 29.1 <sup>r</sup>	37.6 132.3 <sup>r</sup> -56.9 <sup>r</sup> -2 <sup>r</sup> -65.9 9.2 <sup>r</sup>	41.9 104.2 <sup>r</sup> -95.4 <sup>r</sup> -2.2 -51.5 -41.7 <sup>r</sup>	46.1 229.0° 43.6° -1.6 -20.7 65.9°	63.4 177.2 -9.4 6.6 -50.6 34.7	50.0 220.7 11.9 1.0 -40.3 51.1	32.9 233.7 34.9 -2.3 -25.2 62.4
25 Foreign net borrowing in United States 26 Bonds 27 Bank loans n.e.c. 28 Open market paper 29 U.S. government loans.	6.4 6.9 -1.8 8.7 -7.5	10.2 4.9 1 13.1 -7.6	23.9 21.4 -2.9 12.3 -6.9	14.1 14.9 3.1 6.4 -10.2	24.1 18.5 1.6 5.2 -1.2	-63.2 10.6 -3.5 -51.9 -18.3	15.6 15.5 1.4 16.0 -17.2	41.0 22.3 6.5 14.9 -2.7	9.9 4.9 1.5 -7.8 11.4	55.2 21.9 14.1 27.7 -8.5	30.6 22.3 3.9 12.8 -8.4	.8 25.1 -13.2 -11.9 .7
30 Total domestic plus foreign	782,2	750.9	688.9	456.8r	611.6	471.2°	417.0 <sup>r</sup>	412.1 <sup>r</sup>	697.4°	638.2	506.6	604.0
						Financia	d sectors	<del></del>		,	<del></del>	
31 Total net borrowing by financial sectors	211.4	220,1	187.1	131.5°	223.3	106.0°	143,8 <sup>r</sup>	165.6 <sup>r</sup>	159.5°	241.6	265.2	227.0
By instrument 32 U.S. government-related 33 Sponsored-credit-agency securities 34 Mortgage pool securities 35 Loans from U.S. government	119.8 44.9 74.9 .0	151.0 25.2 125.8 .0	167.4 17.1 150.3 1	150.0 <sup>r</sup> 9.2 140.9 <sup>r</sup> .0	167.1 40.2 126.9 .0	129.4 <sup>r</sup> -29.7 159.0 <sup>r</sup> .0	156.0 <sup>r</sup> 20.6 135.5 <sup>r</sup> .0	158.5 <sup>r</sup> 32.6 125.9 <sup>r</sup> 1	137.4 <sup>r</sup> 11.5 125.9 <sup>r</sup> .0	222.8 48.3 174.4 .0	165.6 67.7 97.9 .0	142.7 33.5 109.2
36 Private. 37 Corporate bonds 38 Mortgages. 39 Bank loans n.e.c. 40 Open market paper. 41 Loans from Federal Home Loan Banks.	91.7 16.2 .3 .6 54.8 19.7	69.1 46.8 .0 1.9 31.3 -11.0	19.7 34.4 .3 1.2 8.6 -24.7	-18.6 <sup>r</sup> 47.7 <sup>r</sup> .6 3.2 -32.0 -38.0	56.2 50.0 .3 7.2 -2.1 .8	-23.4 72.4 .9 -2.9 -46.0 -47.7	-12.3 <sup>r</sup> 29.5 .4 <sup>r</sup> 10.2 -16.7 -35.7	7.1 <sup>r</sup> 47.5 <sup>r</sup> 8 <sup>r</sup> 4.5 -12.7 -33.0	22.1 <sup>r</sup> 14.9 <sup>r</sup> .9 8.2 7.6 -9.5	18.9 25.5 .1 3.9 -16.3 5.7	99.6 59.8 .3 5.4 12.8 21.3	84,3 99,9 .1 11.1 -12.6 -14.2
By borrowing sector  42 Sponsored credit agencies 43 Mortgage pools 44 Private 45 Commercial banks 46 Bank affiliates 47 Savings and loan associations 48 Mutual savings banks 49 Finance companies 50 Real estate investment trusts (REITs) 51 Securitized credit obligation (SCO) issuers	44.9 74.9 91.7 -3.0 5.2 19.9 1.9 31.5 3.6 32.5	25.2 125.8 69.1 -1.4 6.2 -14.1 -1.4 59.7 -1.9 22.0	17.0 150.3 19.7 -1.1 -27.7 -29.9 5 35.6 -1.9 45.2	9.1 140.9 <sup>r</sup> -18.6 <sup>r</sup> -13.3 -2.5 -39.5 -3.5 4.5 <sup>r</sup> .0 35.6	40.2 126.9 56.2 4.5 1.1 -4.6 1.7 14.3 1.8 37.4	29.7 159.0° -23.4 -11.7 -3.5 -48.7 -1.7 38.7	20.6 135.5 <sup>r</sup> -12.3 <sup>r</sup> -9.2 -6.8 -41.1 -5.5 12.2 -3 <sup>r</sup> 38.5	32.5 125.9 <sup>r</sup> 7.1 <sup>r</sup> -14.1 9.6 -25.1 -8.7 12.9 <sup>r</sup> .1 <sup>r</sup> 32.3	11.5 125.9v 22.1r 7.2 2.7 -20.3 4.3 1.0v 4.6 22.5	48.3 174.4 18.9 .8 -8.2 2.7 .3 -20.9 43.2	67.7 97.9 99.6 1.6 10.5 10.0 8.3 28.9 1.3 39.1	33.5 109.2 84.3 8.2 4 -10.6 -6.2 48.0 .5 44.8

# A40 Domestic Financial Statistics □ June 1993

# 1.57—Continued

T	1000	1000	1000	1001	1002	_	1991			19	92	
Transaction category or sector	1988	1989	1990	1991	1992	Q2	Q3	Q4	Q١	Q2 <sup>r</sup>	Q3 <sup>r</sup>	Q4
						All se	ectors					
52 Total net borrowing, all sectors	993.6	971.0	876.0	588.3°	834.9	577.2 <sup>r</sup>	560.8°	577.7°	856.9°	879.8	771.8	831.0
53 U.S. government securities 54 State and local obligations 55 Corporate and foreign bonds 56 Mortgages. 57 Consumer credit 58 Bank loans n.e.c. 59 Open market paper. 60 Other loans	274.9 53.7 126.3 317.5 50.1 39.9 75.4 55.8	297.3 65.0 125.5 303.0 41.7 41.9 65.9 30.6	414.4 51.2 102.9 244.3 17.5 2.8 30.7 12.4	428.3 <sup>r</sup> 45.8 141.3 <sup>r</sup> 120.7 <sup>r</sup> -12.5 -27.1 -44.0 -64.2	471.1 53.3 134.9 161.1 2.4 -8.0 12.9 7.1	406.1 <sup>r</sup> 48.5 179.5 176.9 <sup>r</sup> -7.8 -40.9 -113.8 -71.2	444.4 <sup>r</sup> 53.5 126.7 <sup>r</sup> 43.0 <sup>r</sup> -24.0 -6.7 -37.0 -39.1	479.0° 45.5 130.0° 70.5° -8.0 -55.1 -4.9 -79.3	506.3 <sup>r</sup> 52.0 96.0 <sup>r</sup> 205.7 <sup>r</sup> 3.1 -17.2 12.4 -1.3	574.7 73.0 124.9 116.7 -12.4 -3.5 8.1 -1.6	359.0 52.3 143.4 140.3 .4 6.1 27.3 43.0	444.4 35.9 175.3 181.8 18.8 -17.5 3.9 -11.6
				External	corporate	equity fi	ınds raise	d in Uni	ted States			
61 Total net share issues	-118.4	-65.7	22.1	198.8	272.1	182.3	232.5°	268.2°	230.3r	291.7	288.6	277.7
62 Mutual funds 63 All other 64 Nonfinancial corporations 65 Financial corporations 66 Foreign shares purchased in United States	6,1 -124,5 -129,5 4,1 ,9	38.5 -104.2 -124.2 2.7 17.2	67.9 -45.8 -63.0 9.8 7.4	150.5 48.3 18.3 1 30.2	206.4 65.7 26.8 7.4 31.5	125.6 56.7 12.0 8.1 36.6	182.5 50.0 <sup>r</sup> 19.0 -3.2 <sup>r</sup> 34.1	195.9 72.3 <sup>r</sup> 48.0 1.4 <sup>r</sup> 22.9	148.4° 81.9 46.0 6.0 29.9	236.3 55.4 36.0 8.4 11.0	233.3 55.3 11.0 8.1 36.2	207.5 70.2 14.0 7.3 48.9

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables F.2 through F.5. 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

	1000		4000	1001			1991			19	992	
Transaction category or sector	1988	1989	1990	1991	1992	Q2	Q3	Q4	Q1 <sup>r</sup>	Q2 <sup>r</sup>	Q3 <sup>r</sup>	Q4
NET LENDING IN CREDIT MARKETS <sup>2</sup>												j
1 Total net lending in credit markets	993.6	971.0	876.0	588.3 <sup>r</sup>	834.9	577.2 <sup>r</sup>	560,8 <sup>r</sup>	577,7°	856.9	879.8	771.8	831.0
2 Private domestic nonfinancial sectors 3 Households 4 Nonfarm noncorporate business 5 Nonfinancial corporate business 6 State and local governments 7 U.S. government 8 Foreign 9 Financial sectors.	226.2 198.9 3.1 5.7 18.6 -10.6 96.3 681.8	209.6 179.5 8 12.9 17.9 -3.1 74.1 690.4	203.8 172.3 -1.4 6.6 26.2 33.7 58.4 580.2	10.5 <sup>r</sup> -24.8 <sup>r</sup> -1.9 20.9 16.3 10.0 42.6 <sup>r</sup> 525.1 <sup>r</sup>	60.6 65.8 -2.1 8.4 -11.5 -12.4 97.6 689.1	187.7 <sup>r</sup> 171.3 <sup>r</sup> -2.0 29.0 -10.6 24.8 51.4 313.3 <sup>r</sup>	-143.2 <sup>r</sup> -185.8 <sup>r</sup> -1.6 32.2 12.1 -2.1 37.3 668.7 <sup>r</sup>	-59.7° -105.9° -2.1 30.1 18.2 -17.9 71.0 584.3°	206.5 227.2 -1.9 -2.7 -16.1 13.9 88.4 548.0	120.6 111.3 -2.5 8.4 3.4 -24.9 138.4 645.6	-162.8 -160.3 -1.9 15.4 -15.9 -26.8 64.2 897.2	78.0 84.9 -1.9 12.5 -17.6 -12.0 99.6 665.5
10 Sponsored credit agencies 11 Mortgage pools 12 Monetary authority 13 Commercial banking 14 U.S. commercial banks 15 Foreign banking offices 16 Bank affiliates 17 Banks in U.S. possession	37.1 74.9 10.5 157.1 127.1 29.4 1	5 125.8 -7.3 176.8 145.7 26.7 2.8 1.6	16.4 150.3 8.1 125.4 95.2 28.4 -2.8 4.5	14.2 140.9 <sup>r</sup> 31.1 84.0 38.9 48.5 -1.5 -1.9	62.7 126.9 27.9 90.7 69.2 14.5 6.7	-25.2 <sup>r</sup> 159.0 <sup>r</sup> -4.0 34.7 6.4 33.7 -2.6 -2.8	35.8 <sup>r</sup> 135.5 <sup>r</sup> 48.1 82.4 26.5 56.7 2.4 -3.3	18.6 <sup>r</sup> 125.9 <sup>r</sup> 22.3 104.3 45.6 61.3 -1.1 -1.5	93.0 125.9 33.2 98.9 91.9 .6 6.4	40.0 174.4 9.8 58.4 .5 58.6 6 1	76.4 97.9 10.8 157.4 132.0 6.5 18.5	41.6 109.2 57.8 48.1 52.4 -7.6 2.5
18 Private nonbank finance 19 Thrift institutions 20 Savings and loan associations 21 Mutual savings banks 22 Credit unions 23 Insurance 24 Life insurance companies 25 Other insurance companies 26 Private pension funds 27 State and local government retirement funds 28 Finance n.e.c. 29 Finance companies 30 Mutual funds	402.2 119.0 87.4 15.3 16.3 186.2 103.8 29.2 18.1	395.7 -91.0 -93.9 -4.8 7.7 207.7 93.1 29.7 36.2	279.9 -151.9 -143.9 -16.5 8.5 188.5 94.4 26.5 16.6	255,0 <sup>r</sup> -144,9 -140,9 -15,5 11,5 218,7 <sup>r</sup> 83,2 34,7 63,9 <sup>r</sup>	380.9 -63.8 -77.0 -2.8 16.0 184.9 94.9 17.3 37.8	148.8° -164.8 -144.0 -31.1 10.2 216.3° 132.8 37.0 -2.5°	367.0° - 176.8 - 156.3 - 30.8 10.3 257.1° 73.8 36.8 113.1°	313.1 <sup>r</sup> -49.7 -83.3 11.5 22.2 156.5 <sup>r</sup> 13.2 32.1 94.2 <sup>r</sup>	197.0 -113.3 -137.9 7.6 17.0 114.2 80.6 33.1 -28.7	362.9 -81.6 -92.4 -7.4 18.3 183.6 81.9 22.2 49.5	554.7 -41.9 -38.5 -13.0 9.6 227.8 96.5 2.5 90.5	408.8 -18.5 -39.1 1.5 19.0 213.9 120.4 11.2 39.7
27 State and local government retirement funds. 28 Finance n.e.c. 29 Finance companies. 30 Mutual funds. 31 Money market funds. 32 Real estate investment trusts (REITs). 33 Brokers and dealers. 34 Securitized credit obligation (SCOs) issuers.	35.1 96.9 49.2 11.9 10.7 .9 -8.2 32.5	48.7 278.9 69.3 23.8 67.1 5 96.3 22.0	51.0 243.3 41.6 41.4 80.9 7 34.9 45.2	37.0 181.3 <sup>r</sup> -23.1 <sup>r</sup> 90.3 30.1 7 49.0 35.6	35.0 259.8 20.8 123.6 2.5 1.5 74.0 37.4	49.0 97.4 -14.5 75.3 -68.9 1 66.8 38.7	33.4 286.7 <sup>r</sup> -5.2 117.1 1.1 6 <sup>r</sup> 135.8 38.5	17.0 206.3° -54.1° 124.8 53.8° 9 50.5 32.3	29.2 196.1 40.8 64.0 61.9 7 7.5 22.5	30.0 260.9 -23.0 169.1 -20.9 2.6 89.8 43.2	38.2 368.9 14.2 150.7 -16.3 -2.8 184.0 39.1	42.6 213.4 51.2 110.4 -14.7 7.0 14.7 44.8
RELATION OF LIABILITIES TO FINANCIAL ASSETS				[			ĺ					
35 Net flows through credit markets	993.6	971.0	876.0	588.3°	834.9	577.2 <sup>r</sup>	560.8°	577.7°	856.9	879.8	771.8	831.0
Other financial sources 36 Official foreign exchange 37 Treasury currency and special drawing rights 38 Life insurance reserves 39 Pension fund reserves 40 Interbank claims 41 Deposits at financial institutions 42 Checkable deposits and currency 43 Small time and savings deposits 44 Large time deposits 45 Money market fund shares 46 Security repurchase agreements 47 Foreign deposits 48 Mutual fund shares 49 Corporate equities 50 Security credit. 51 Trade debt 52 Taxes payable 53 Noncorporate proprietors' equity 54 Miscellaneous	4.0 25.3 193.6 2.9 259.9 43.2 120.8 53.6 21.9 23.5 -3.1 -124.5 3.0 89.2 53.3 -31.2 222.3	24.8 4.1 28.8 221.4 -16.5 290.0 6.1 96.7 17.6 90.1 78.3 1.1 38.5 -104.2 15.6 60.0 2.0 -32.5 269.9	2.0 2.5 25.7 186.8 34.2 96.8 44.2 59.9 -66.7 70.3 -23.5 12.6 67.9 -45.8 3.5 44.1 -55 -39.3 120.5	-5.9 .0 24.5° 267.7° -3.7° 61.1 75.8 16.7 -60.9 41.2° -16.4 4.6 150.5 48.3 51.4 10.4° -9.0° -8° 140.1°	-3.5 -1.8 32.0 227.3 46.4 50.8 122.1 -62.8 -79.1 8.3 71.8 -9.5 206.4 65.7 11.1 51.2 4.7 -10.6 201.8	-4.8 31.4 194.7 -79.6 -75.6 -75.6 -7.9 -63.0 -58.7 -3.6 125.6 56.7 -20.1 41.2 -11.4 -33.6 89.0	-15.5 19.4 342.2 <sup>r</sup> 99.9 <sup>r</sup> 27.3 104.5 -42.4 4.0 36.3 3.0 182.5 50.0 <sup>r</sup> 82.4 47.6 <sup>r</sup> 13.1 <sup>r</sup> 45.6 <sup>r</sup> 38.7 <sup>r</sup>	~5.0 .5 19.2r 241.5r -32.5r 47.8 114.4 13.0 -5.0 195.9 72.3r 120.7 -7.3r -3.2r 205.1r	3.5 129.0 56.1 74.7 88.6 -29.9 -78.8 106.2 15.5 -26.9 148.4 81.9 -70.0 75.2 -2.3 -19.0 194.7	-6.5 3 28.7 178.6 20.8 -55.2 92.8 -89.3 -104.9 -38.3 136.9 -52.5 236.3 55.4 -4.3 36.0 10.7 11.6 275.8	-8.5 32.5 305.3 119.4 223.9 202.7 -79.0 128.7 39.3 233.3 55.3 7.1 -16.2 214.8	-2.4 -7.7 36.4 296.2 -10.7 -40.3 104.1 -52.9 -77.8 -21.7 6.1 2.0 207.5 70.2 42.5 41.8 3.4 -18.9 121.9
55 Total financial sources	1,650,2	1,772.7	1,374.3	1,323.0°	1,716.4	931.6 <sup>r</sup>	1,494.5 <sup>r</sup>	1,438.0 <sup>r</sup>	1,559.8	1,668.1	2,066.9	1,571.0
Floats not included in assets (-) 56 U.S. government checking deposits 57 Other checkable deposits 58 Trade credit	1.6 .8 ~.9	8.4 -3.2 .6	3.3 2.5 21.5	~13.1 2.0 18.4 <sup>r</sup>	.1 1.6 -4.5	15.6 3.0 40.7 <sup>r</sup>	23.9 -2.1 27.2 <sup>r</sup>	-73,1 -6,1 -3.7 <sup>r</sup>	4.4 16.7 6.7	-11.7 2.5 -29.1	-5,3 -13,9 24,3	13.0 1.1 -19.8
Liabilities not identified as assets (-) 59 Treasury currency 60 Interbank claims 61 Security repurchase agreements 62 Taxes payable 63 Miscellaneous	1 -3.0 -29.8 6.3 4.4	2 -4.4 23.9 2.3 -95.6	.2 1.6 -34.8 6.5 -13.8	6 26,2 10.4 5.6 <sup>r</sup> -30.6 <sup>r</sup>	2 -6.3 41.5 9.8 -19.2	3 20.8 76.2 2.0 6.4 <sup>r</sup>	2 28.4 36.9 23.4 -191.8 <sup>r</sup>	1 .2 44.0 11.4 <sup>r</sup> 182.3 <sup>r</sup>	4 13.4 -41.1 -11.3 -71.0	1 -15.1 104.2 25.7 -76.1	3 -2.6 76.4 23.0 3.6	1 -20.8 26.6 1.8 66.8
64 Totals identified to sectors as assets	1,670.7	1,841.0	1,387.5	1,304.7 <sup>r</sup>	1,693.6	767.1°	1,548.9 <sup>r</sup>	1,283.1 <sup>r</sup>	1,642.4	1,667.8	1,961.6	1,502.5

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables F.6 and F.7. For ordering address, see inside front cover.

<sup>2.</sup> Excludes corporate equities and mutual fund shares.

# A42 Domestic Financial Statistics June 1993

# 1.59 SUMMARY OF CREDIT MARKET DEBT OUTSTANDING<sup>1</sup>

	1000	1000	1001	1003		1991			19	92	
Transaction category or sector	1989	1990	1991	1992	Q2	Q3	Q4	Q1	Q2	Q3 <sup>r</sup>	Q4
					Non	financial se	ctors				
Total credit market debt owed by     domestic nonfinancial sectors	10,087.1	10,760.8	11,200.9°	11,788.3	10,960.1°	11,081.3 <sup>r</sup>	11,200.9°	11,331.8°	11,471.8°	11,615.3	11,788.3
By lending sector and instrument 2 U.S. government 3 Treasury securities 4 Agency issues and mortgages	2,251.2 2,227.0 24.2	2,498.1 2,465.8 32.4	2,776.4 2,757.8 18.6	3,080.3 3,061.6 18.8	2,591.9 2,567.1 24.8	2,687.2 2,669.6 17.6	2,776.4 2,757.8 18.6	2,859.7 2,844.0 15.8	2,923.3 2,907.4 15.9	2,998.9 2,980.7 18.1	3,080.3 3,061.6 18.8
5 Private	7,835.9	8,262.6	8,424.5 <sup>r</sup>	8,708.0	8,368.2 <sup>r</sup>	8,394.1 <sup>r</sup>	8,424.5 <sup>r</sup>	8,472.0 <sup>r</sup>	8,548.5 <sup>r</sup>	8,616.4	8,708.0
By instrument   Debt capital instruments   Tax-exempt obligations   T	5,577.9 1,004.4 926.1 3,647.5 2,515.1 304.4 742.6 85.3 2,258.0 791.8 760.7 107.1 598.4	5,936.0 1,055.6 973.2 3,907.3 2,760.0 305.8 757.6 84.0 2,326.7 809.3 758.0 116.9 642.6	6,180.6 <sup>f</sup> 1,101.4 1,051.9 <sup>f</sup> 4,027.3 <sup>f</sup> 2,889.0 <sup>f</sup> 750.3 <sup>f</sup> 83.2 2,243.9 796.7 724.6 98.5 624.1	6,461.1 1,154.7 1,118.3 4,188.1 3,087.5 296.6 720.4 83.7 2,246.9 799.2 707.8 108.3 631.6	6,087.4 <sup>r</sup> 1,072.5 1,016.5 3,998.5 <sup>r</sup> 2,835.3 <sup>r</sup> 310.6 <sup>r</sup> 768.8 <sup>r</sup> 83.8 2,280.8 786.7 742.0 119.4 632.6	6,137.2° 1,089.3 1,036.9 4,011.1° 2,866.9° 758.1° 83.2° 2,256.9 785.9 734.1 107.0 629.8	6,180.6 <sup>r</sup> 1,101.4 1,051.9 <sup>r</sup> 4,027.3 <sup>r</sup> 2,889.0 <sup>r</sup> 750.3 <sup>r</sup> 83.2 2,243.9 796.7 724.6 98.5 624.1	6,252.0 <sup>r</sup> 1,111.5 1,071.0 4,069.4 <sup>r</sup> 2,935.3 <sup>r</sup> 746.4 <sup>r</sup> 82.9 2,220.0 775.7 712.5 110.3 621.6	6,326.7 <sup>r</sup> 1,128.6 1,090.4 4,107.7 <sup>r</sup> 2,983.3 <sup>r</sup> 740.6 <sup>r</sup> 83.5 <sup>r</sup> 2,221.9 <sup>r</sup> 775.8 709.4 111.7 624.9 <sup>r</sup>	6,395.4 1,145.7 4,144.1 3,035.4 299.7 725.1 83.9 2,221.0 781.1 705.2 108.3 626.4	6,461.1 1,154.7 1,118.3 4,188.1 3,087.5 296.6 720.4 83.7 2,246.9 799.2 707.8 108.3 631.6
By borrowing sector State and local government. Understand the sector of	815.7 3,508.2 3,512.0 139.2 1,177.5 2,195.3	864.0 3,780.6 3,618.0 140.5 1,204.2 2,273.4	902.5 3,925.5 <sup>r</sup> 3,596.5 <sup>r</sup> 138.8 1,180.6 2,277.1 <sup>r</sup>	950.6 4,140.6 3,616.7 139.7 1,146.4 2,330.6	878.5 3,846.7 <sup>r</sup> 3,643.0 <sup>r</sup> 139.6 1,210.8 2,292.7 <sup>r</sup>	891.4 3,886.0 <sup>f</sup> 3,616.7 <sup>f</sup> 140.4 1,191.0 2,285.3 <sup>r</sup>	902.5 3,925.5 <sup>r</sup> 3,596.5 <sup>r</sup> 138.8 1,180.6 2,277.1 <sup>r</sup>	911.3 3,950.6 <sup>f</sup> 3,610.1 <sup>f</sup> 136.4 <sup>f</sup> 1,174.9 2,298.9 <sup>f</sup>	925.9 4,008.1 <sup>r</sup> 3,614.5 <sup>r</sup> 140.1 <sup>r</sup> 1,163.7 <sup>r</sup> 2,310.7 <sup>r</sup>	942.3 4,068.6 3,605.5 141.2 1,150.6 2,313.7	950.6 4,140.6 3,616.7 139.7 1,146.4 2,330.6
25 Foreign credit market debt held in United States	254.8	278.6	292.7	307.6	277.6	282.2	292.7	282.4	298.4 <sup>r</sup>	306.9	307.6
26 Bonds. 27 Bank loans n.e.c. 28 Open market paper. 29 U.S. government loans	88.0 21.4 63.0 82.4	109.4 18.5 75.3 75.4	124.2 21.6 81.8 65.2	142.7 23.2 77.7 64.0	114.8 19.7 74.0 69.1	118.6 20.0 78.0 65.6	124.2 21.6 81.8 65.2	125.4 22.0 70.5 64.4	130.9 <sup>r</sup> 25.5 77.5 64.5 <sup>r</sup>	136.5 26.5 80.7 63.4	142.7 23.2 77.7 64.0
30 Total credit market debt owed by nonfinancial sectors, domestic and foreign	10,341.9	11,039.4	11,493.6 <sup>r</sup>	12,095.9	11,237.7 <sup>r</sup>	11,363.5°	11,493.6 <sup>r</sup>	11,614.1 <sup>r</sup>	11,770.2 <sup>r</sup>	11,922.2	12,095.9
					Fir	nancial sect	ors				_
31 Total credit market debt owed by financial sectors	2,333.0	2,524.2	2,665.9°	2,890.1	2,578.2 <sup>r</sup>	2,615.1 <sup>r</sup>	2,665.9 <sup>r</sup>	2,697.7°	2,756.6 <sup>r</sup>	2,824.0	2,890.1
By instrument 32 U.S. government-related 33 Sponsored credit-agency securities 34 Mortgage pool securities 35 Loans from U.S. government 36 Private 37 Corporate bonds 38 Mortgages 39 Bank loans n.e.c. 40 Open market paper 41 Loans from Federal Home Loan Banks.	1,249.3 373.3 871.0 5.0 1,083.7 491.9 3.4 37.5 409.1 141.8	1,418.4 393.7 1,019.9 4.9 1,105.8 528.2 4.2 38.6 417.7 117.1	1,574.3 <sup>r</sup> 402.9 1,166.7 <sup>r</sup> 4.8 1,091.6 <sup>r</sup> 580.2 <sup>r</sup> 4.8 41.8 385.7 79.1	1,741.5 443.1 1,293.5 4.8 1,148.6 621.8 5.1 49.0 392.8 79.9	1,489.6 <sup>r</sup> 389.6 1,095.2 <sup>r</sup> 4.9 1,088.6 562.2 4.5 37.0 390.1 94.7	1,531.1 <sup>r</sup> 394.7 1,131.5 <sup>r</sup> 4.9 1,084.0 <sup>r</sup> 569.5 4.6 <sup>r</sup> 39.0 387.0 83.9	1,574.3 <sup>r</sup> 402.9 1,166.7 <sup>r</sup> 4.8 1,091.6 <sup>r</sup> 580.2 <sup>r</sup> 4.8 41.8 385.7 79.1	1,603.8 <sup>r</sup> 405.7 1,193.2 <sup>r</sup> 4.8 1,094.0 578.2 5.0 41.6 392.9 76.3	1,658.3 <sup>r</sup> 417.8 1,235.6 <sup>r</sup> 4.8 1,098.3 583.2 5.0 43.7 389.5 76.9	1,702.0 434.7 1,262.5 4.8 1,122.0 598.4 5.1 44.5 393.9 80.2	1,741.5 443.1 1,293.5 4.8 1,148.6 621.8 5.1 49.0 392.8 79.9
By borrowing sector 42 Sponsored credit agencies 43 Mortgage pools 44 Private financial sectors 45 Commercial banks. 46 Bank affiliates 47 Savings and loan associations 48 Mutual savings banks 49 Finance companies 50 Real estate investment trusts (REITs). 51 Securitized credit obligation (SCO) issuers.	378.3 871.0 1,083.7 77.4 142.5 145.2 17.2 504.2 10.1 187.1	398.5 1,019.9 1,105.8 76.3 114.8 115.3 16.7 539.8 10.6 232.3	407.7 1,166.7 <sup>r</sup> 1,091.6 <sup>r</sup> 63.0 112.3 75.9 13.2 547.9 <sup>r</sup> 11.4 268.0	447.9 1,293.5 1,148.6 67.4 113.4 71.3 14.9 562.2 14.0 305.4	394.4 1,095.2 <sup>r</sup> 1,088.6 65.9 113.3 91.0 16.6 540.4 11.0 250.3	399.5 1,131.5 <sup>r</sup> 1,084.0 <sup>r</sup> 64.6 110.6 79.0 15.2 543.7 11.2 <sup>r</sup> 259.9	407.7 1,166.7 <sup>r</sup> 1,091.6 <sup>r</sup> 63.0 112.3 75.9 13.2 547.9 <sup>r</sup> 11.4 268.0	410.5 1,193.2 <sup>r</sup> 1,094.0 60.8 115.0 71.2 13.5 547.1 12.7 273.6	422.6 1,235.6 <sup>r</sup> 1,098.3 61.7 112.7 70.3 14.3 541.8 13.2 284.4	439.5 1,262.5 1,122.0 63.3 114.4 70.9 16.2 549.4 13.7 294.2	447.9 1,293.5 1,148.6 67.4 113.4 71.3 14.9 562.2 14.0 305.4
			<b>y-</b>	·	· · · · · ·	All sectors			<del></del> -		
52 Total credit market debt, domestic and foreign. 53 U.S. government securities 54 State and local obligations 55 Corporate and foreign bonds 56 Mortgages 57 Consumer credit 58 Bank loans n.e.c. 59 Open market paper	12,674.9 3,495.6 1,004.4 1,506.0 3,650.9 791.8 819.6 579.2	13,563.6 3,911.7 1,055.6 1,610.7 3,911.5 809.3 815.1 609.9	14,159.6° 4,345.9° 1,101.4 1,756.4° 4,032.1° 796.7 788.0 565.9	14,985.9 4,817.0 1,154.7 1,882.8 4,193.3 799.2 780.0 578.8	13,815.9 <sup>r</sup> 4,076.6 <sup>r</sup> 1,072.5 1,693.5 4,003.0 <sup>r</sup> 786.7 798.7 583.6	13,978.7° 4,213.5° 1,089.3 1,725.0 4,015.6° 785.9 793.2 572.0	14,159.6 <sup>r</sup> 4,345.9 <sup>r</sup> 1,101.4 1,756.4 <sup>r</sup> 4,032.1 <sup>r</sup> 796.7 788.0 565.9	14,311.9 <sup>r</sup> 4,458.7 <sup>r</sup> 1,111.5 1,774.6 4,074.5 <sup>r</sup> 775.7 776.1 573.7	14,526.8 <sup>r</sup> 4,576.8 <sup>r</sup> 1,128.6 1,804.5 <sup>r</sup> 4,112.7 <sup>r</sup> 775.8 778.7 578.7	14,746.2 4,696.0 1,145.6 1,840.5 4,149.2 781.1 776.1 582.9	14,985.9 4,817.0 1,154.7 1,882.8 4,193.3 799.2 780.0 578.8
60 Other loans	827.5	839.9	773.2	780.3	801.4	784.2	773.2	767.1	771.1 <sup>r</sup>	774,8	780.3

<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

	4800	4000				1991			19	992	
Transaction category or sector	1989	1990	1991	1992	Q2	Q3	Q4	Q1	Q2 <sup>r</sup>	Q3 <sup>r</sup>	Q4
Credit Market Debt Outstanding <sup>2</sup> 1 Total credit market assets	12,674.9	13,563.6	14,159.6°	14,985.9	13,815.9 <sup>r</sup>	13,978.7°	14,159.6 <sup>r</sup>	14,311.9 <sup>r</sup>	14,526.8	14,746.2	14,985.9
2 Private domestic nonfinancial sectors 3 Households 4 Nonfarm noncorporate business 5 Nonfinancial corporate business 6 State and local governments 7 U.S. government 8 Foreign 9 Financial sectors 10 Sponsored credit agencies 11 Mortgage pools 12 Monetary authority 13 Commercial banking 14 U.S. commercial banks 15 Foreign banking offices 16 Bank affiliates 17 Banks in U.S. possession 18 Private nonbank finance 19 Thrift institutions 20 Savings and loan associations 21 Mutual savings banks 22 Credit unions 23 Insurance 24 Life insurance companies 25 Other insurance companies 26 Private pension funds 27 State and local government retirement funds 28 Finance n.e.c 29 Finance companies 30 Mutual funds 31 Money market funds 32 Real estate investment trusts (REITs) 33 Brokers and dealers 34 Securitized credit obligation (SCOs) issuers	2,440.5 1,710.1 56.4 180.3 493.7 205.1 734.2 9,295.1 233.3 2,643.9 233.3 16.2 17.1 5,179.7 1,484.9 1,088.9 241.1 154.9 2,140.3 394.7 414.9 1,554.5 394.7 414.9 1,554.5	2,644.2 1,882.3 55.0 186.9 519.9 238.7 792.4 9,888.3 383.6 1,019.9 241.4 2,769.3 2,463.6 270.8 13.4 21.6 5,474.1 11,335.5 945.1 11,116.5 344.0 431.3 437.4 1,809.4 1,8	2,531.9 <sup>s</sup> 1,734.7 <sup>s</sup> 53.1 207.9 536.2 246.2 835.1 <sup>s</sup> 1,546.4 <sup>s</sup> 1,997.7 1,166.7 <sup>s</sup> 1,166.7 <sup>s</sup> 1,196.6 804.2 211.5 174.9 2,674.9 <sup>s</sup> 1,199.6 378.7 622.2 <sup>s</sup> 474.3 1,990.7 <sup>s</sup> 7.0 226.9 2268.0	2.584.0 1,791.9 51.1 216.3 524.7 233.7 932.8 11,235.5 1,293.5 1,293.5 1,294.0 2,944.0 2,944.0 2,944.0 2,00 6,237.1 1,126.8 727.2 208.7 190.9 2,859.8 1,294.5 396.0 509.3 2,250.5 666.0 509.3 2,250.5 656.4 574.0 405.2 8,59 8,59 8,59 8,59 8,59 8,59 8,59 8,59	2,661.3 <sup>1</sup> 1,889.5 <sup>1</sup> 53.3 189.7 528.8 252.9 807.9 <sup>1</sup> 10,093.8 <sup>2</sup> 10,093.8 <sup>2</sup> 252.9 2480.0 2480.0 2480.0 2480.0 1,13.3 20.9 5,566.4 <sup>1</sup> 11.3 20.9 5,566.4 <sup>1</sup> 11.3 216.4 866.3 216.4 437.1 461.7 1,874.1 <sup>2</sup> 1,874.1	2,653.8° 1,881.0° 52.9 189.9 530.0 252.0 817.2° 10,255.6° 264.7 2,817.8 2,488.7 2,488.7 1,131.5° 20.0 5,652.2° 1,205.1 826.1 208.7 1,70.2 2,507.4° 1,201.4 370.7 440.1 1,939.7 445.4° 4421.4 389.5 7.2 214.3 259.9	2,531,9 <sup>r</sup> 1,734,7 <sup>r</sup> 53.1 207.9 536.2 246.2 835.1 <sup>r</sup> 10,546.4 <sup>r</sup> 272.5 2,853.3 272.5 319.2 11.9 19.7 5,856.2 <sup>r</sup> 1,190.6 804.2 271.5 174.9 2,674.9 <sup>r</sup> 1,199.6 378.7 622.2 <sup>r</sup> 474.3 1,990.7 <sup>r</sup> 7.0 622.67 24.99 226.9	2,546.1° 1,766.5° 51.9° 196.2° 531.4° 250.2° 857.2° 10,658.4° 271.8° 2,860.6° 271.8° 2,860.6° 313.3° 13.6° 1,97.7° 1,161.8° 771.1° 213.4° 177.2° 2,708.0° 1,224.3° 387.0° 481.6° 2,043.3° 481.6° 2,043.3° 423.1° 6.8° 228.8° 223.6°	2,548.9 1,756.8 513.3 207.5 533.3 245.3 10,840.9 1,235.6 282.6 282.6 2,882.9 2,521.9 328.2 13.1 19.7 6,010.7 748.8 211.6 182.6 2,756.2 1,247.1 392.5 641.6 513.3 413.5 7.5 541.6 513.3 413.5 7.5 525.1 2,111.5 641.6 513.3 413.5 7.5 525.2 284.4	2,539,7 1,759,2 500,8 202,1 527,6 238,1 11,060,5 285,2 2,922,9 2,556,7 328,9 17,5 19,8 6,143,6	2,584.0 1,791.9 1,791.1 216.3 524.7 233.7 932.8 11,235.5 1,293
RELATION OF LIABILITIES TO FINANCIAL ASSETS  35 Total credit market debt	12,674.9	13,563.6	14,159.6°	14,985.9	13,815.9 <sup>r</sup>	13,978.7°	14,159.6 <sup>r</sup>	14,311.9 <sup>r</sup>	14,526.8	14,746.2	14,985.9
Other liabilities  36 Official foreign exchange  37 Treasury currency and special drawing rights certificates.  38 Life insurance reserves  39 Pension fund reserves  40 Interbank claims  41 Deposits at financial institutions  42 Checkable deposits and currency  43 Small time and savings deposits.  44 Large time deposits  45 Money market fund shares  46 Security repurchase agreements.  47 Foreign deposits  48 Mutual fund shares  49 Security credit  50 Trade debt  51 Taxes payable  52 Miscellaneous	53.6 23.8 354.3 3.210.5 32.4 4,644.6 888.6 2.265.4 428.1 43.9 566.2 133.9 903.9 81.8 2,508.3	61.3 26.3 380.0 3,303.0 64.0 4,741.4 932.8 2,325.3 548.7 498.4 379.7 56.6 602.1 137.4 938.0 81.4 2,678.8	55.4 26.3 402.0 4,223.4° 65.2° 4,802.5 1,008.5 2,342.0 487.9 539.6 61.2 813.9° 940.9° 72.3° 2,811.7°	51.8 24.5 434.0 4.585.8 111.4 4.853.3 1.130.3 2.279.3 409.0 547.9 435.2 51.6 1.056.5 224.3 992.1 77.1 2,921.0	53.6 26.1 392.3 3,550.9 <sup>r</sup> 4,765.7 933.1 2,331.5 532.6 532.8 61.7 683.7 137.5 909.4 65.8 2,699.2 <sup>r</sup>	52.9 26.2 397.2 3,716.5 60.9 4,769.5 948.3 2,339.7 517.1 533.1 9368.9 62.4 744.2 158.1 935.3 71.97 2,733.4	55.4 26.3 402.0 4,223.4 65.2 4,802.5 1,008.5 2,342.0 161.2 181.9 940.9 72.3 2,811.7	52.7 26.3 409.6° 4.242.1° 67.4° 4,796.7° 984.3° 2,340.9° 571.0 376.4 5 54.4° 857.7° 195.1 940.9° 74.2° 2,828.8°	54.4 26.4 416.8 4.294.2 70.7 4.790.9 1,032.3 2,314.7 557.2 406.8 41.3 935.5 194.1 945.3 69.8 2,875.3	55.4 26.5 424.9 4.429.1 101.8 4.843.1 1.071.6 2.294.3 428.8 553.2 444.1 51.1 977.4 213.1 974.6 74.8 2,915.2	51.8 24.5 434.0 4,585.8 111.4 4,853.3 1,130.3 2,279.3 409.0 547.9 435.2 51.6 1,056.5 224.3 992.1 77.1 2,921.0
	25,188.3	26,577.2	28,562.1 <sup>r</sup>	30,317.6	27,136.1 <sup>r</sup>	27,644.8°	28,562.1 <sup>r</sup>	28,803.3 <sup>r</sup>	29,200.2	29,782.1	30,317.6
Financial assets not included in liabilities (+) 54 Gold and special drawing rights 55 Corporate equities 56 Household equity in noncorporate business	21.0 <sup>r</sup> 3,819.7 2,524.9	22.0 <sup>r</sup> 3,506.6 2,449.4	22.3 <sup>r</sup> 4,630.0 2,367.8 <sup>r</sup>	19.6 5,127.7 2,263.6	21.4 <sup>r</sup> 4,104.7 2,511.8 <sup>r</sup>	21.8 <sup>r</sup> 4,338.5 2,495.2 <sup>r</sup>	22.3 <sup>r</sup> 4,630.0 2,367.8 <sup>r</sup>	22.0 <sup>r</sup> 4,739.7 2,373.5 <sup>r</sup>	22.1 4,678.1 2,354.7	23.2 4,860.5 2,330.9	19.6 5,127.7 2,263.6
Floats not included in assets (-) 57 U.S. government checking deposits 58 Other checkable deposits 59 Trade credit	6,1 26,5 -159,7	15.0 28.9 148.0	3.8 30.9 -134.0 <sup>r</sup>	6.8 32.5 -138.5	8.3 29.9 -157.7	19.8 23.6 -154.2	3.8 30.9 -134.0 <sup>r</sup>	.9 29.5 <sup>r</sup> -135.2 <sup>r</sup>	1.4 32.6 -154.7	4.0 23.3 -152.7	6.8 32.5 -138.5
Liabilities not identified as assets (-) 60 Treasury currency 61 Interbank claims 62 Security repurchase agreements. 63 Taxes payable 64 Miscellaneous	-4.3 -31.0 11.5 20.6 -251.1	-4.1 -32.0 -23.3 21.8 -247.3 <sup>r</sup>	-4.8 -4.2 -12.9 18.9 <sup>r</sup> -452.3 <sup>r</sup>	-5.0 -10.7 27.1 28.9 -549.3	-4.7 -9.9 -25.8 11.8 <sup>r</sup> -242.3 <sup>r</sup>	-4.7 -4.7 -10.6 17.6 <sup>r</sup> -300.8 <sup>r</sup>	-4.8 -4.2 -12.9 18.9 <sup>r</sup> -452.3 <sup>r</sup>	-4.9 -1.8 -10.1 11.5 <sup>r</sup> -443.0 <sup>r</sup>	-4.9 -4.0 11.6 18.0 -455.7	-5.0 -5.9 36.5 24.4 -510.1	-5.0 -10.7 27.1 28.9 -549.3
65 Totals identified to sectors as assets	31,935,2	32,944.3°	36,136.8 <sup>r</sup>	38,336.6	34,164.3 <sup>r</sup>	34,914.2 <sup>r</sup>	36,136.8 <sup>r</sup>	36,491.8 <sup>r</sup>	36,810.8	37,582.0	38,336.6

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables L.6 through L.7. For ordering address, see inside front cover.

<sup>2.</sup> Excludes corporate equities and mutual fund shares.

#### Domestic Nonfinancial Statistics June 1993 A44

# 2.10 NONFINANCIAL BUSINESS ACTIVITY Selected Measures

Monthly data seasonally adjusted, 1987=100 except as noted

	1000	1001	1000		_	19	992				1993	
Measure	1990	1991	1992	July	Aug.	Sept.	Oct.	Nov,r	Dec.r	Jan. <sup>r</sup>	Feb.	Mar.
1 Industrial production <sup>1</sup>	109.2	107.1	108.7	109.4	109,1	108.9	109.7	110.4	111.0	111.4	112.0	112.0
Market groupings 2 Products, total. 3 Final, total. 4 Consumer goods. 5 Equipment. 6 Intermediate. 7 Materials.	110.1 110.9 107.3 115.5 107.7 107.8	108.1 109.6 107.5 112.2 103.4 105.5	109.5 111.1 110.5 <sup>r</sup> 111.9 104.6 107.5 <sup>r</sup>	109.6 111.0 110.4 111.8 105.1 109.0	109.8 111.5 110.8 112.5 104.4 108.1	109.6 111.2 110.7 111.9 104.5 107.9	110.7 112.4 111.9 113.0 105.5 108.2	111.3 113.1 112.6 113.7 105.7 109.0	112.3 114.2 113.4 115.3 106.2 109.0	112.7 114.6 113.4 116.3 106.5 109.3	113.3 115.2 114.2 116.6 107.2 110.0	113.3 115.2 114.0 116.7 107.2 110.0
Industry groupings 8 Manufacturing	109.9	107.4	109.7	110.2	110.1	109.8	110.6	111.3	111.8	112.8	113.3	113.4
9 Capacity utilization, manufacturing (percent)2	82.3	78.2	77.8	78.1	77.9	77.5	77.9	78.3	78.5	79.0	79.2	79.1
10 Construction contracts <sup>3</sup>	95.3	89.7	92.8	89.0	90.0	89.0	104.0	92.0	90.0	100.0	95.0	n.a.
11 Nonagricultural employment, total <sup>4</sup>	107.4 101.0 100.5 100.1 109.5 122.7 121.3 113.5 122.9 120.2	106.0 96.4 97.0 96.1 109.0 127.0 124.4 113.6 128.0 121.3 <sup>r</sup>	106.1 94.8 95.6 95.2 109.7 133.0 129.0 115.4 134.7 127.1	106.3 94.9 95.9 95.5 109.9 132.8 128.7 115.5 134.5	106.2 94.6 95.4 94.9 109.9 133.0 129.6 115.3 134.6 127.3	106.2 94.3 95.2 94.6 110.0 133.6 129.5 115.3 135.2 128.1	106.2 94.2 94.9 94.3 110.1 135.3 <sup>r</sup> 130.5 116.5 137.0 <sup>r</sup> 130.7 <sup>r</sup>	106.3 94.2 95.0 94.6 110.2 135.3 131.2 116.0 136.8 130.5	106.4 94.2 94.9 94.7 110.3 136.6 132.3 118.0 138.2 131.9	106.5 94.2 95.1 95.2 110.5 137.3 133.0 117.1 138.7 132.0	106.9 94.6 95.2 95.2 110.8 137.5 132.9 117.8 139.0 131.5	106.9 94.3 95.2 95.2 110.9 n.a. n.a. n.a. 130.2
Prices <sup>7</sup> 21 Consumer (1982–84=100)	130.7 119.2	136.2 121.7	140.3 123.2	140.5 123.7	140.9 123.6	141.3 123.3	141.8 124.4 <sup>r</sup>	142.0 124.0	141.9 123.8	142.6 124.0	143.1 124.3	143.6 124.6

<sup>1.</sup> A major revision of the industrial production index and the capacity utilization rates was released in April 1990. 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.

6. Based on data from U.S. Bureau of the Census, Survey of Current Business.
7. Based on data not seasonally adjusted. Seasonally adjusted data for changes in the price indexes can be obtained from the Bureau of Labor Statistics, U.S. Department of Labor, Monthly Labor Review.

Note. Basic data (not indexes) for series mentioned in notes 4, 5, and 6, and indexes for series mentioned in notes 3 and 7 can also be found in the Survey of

Current Business.
Figures for industrial production for the latest month are preliminary, and many

figures for the three months preceding the latest month have been revised. See "Recent Developments in Industrial Capacity and Utilization," Federal Reserve Bulletin, vol. 76 (June 1990), pp. 411–35.

Federal Reserve, DRI McGlaw-IIII, C.S. Espain.

3. Index of dollar value of total construction contracts, including residential, nonresidential, and heavy engineering, from McGraw-Hill Information Systems Co., F.W. Dodge Division.

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

# 2.11 LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

Thousands of persons; monthly data seasonally adjusted except as noted

	4000	4004	1000		<del></del>	1992			1993		
Category	1990	1991	1992	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>r</sup>	Feb.	Mar.
Household Survey Data											
1 Noninstitutional population 1	190,216	191,883	193,542	193,749	193,893	194,051	194,210	194,379	194,514	194,641	194,829
Labor force (including Armed Forces) <sup>1</sup> Civilian labor force      Employment	126,954 124,787	127,421 125,303	128,948 126,982	129,363 127,404	129,220 127,274	128,986 127,066	129,259 127,365	129,461 127,591	128,953 127,083	129,182 127,327	129,299 127,429
Nonagricultural industries <sup>2</sup>	114,728 3,186	114,644 3,233	114,391 3,207	114,562 3,218	114,503 3,221	114,518 3,169	114,855 3,209	115,049 3,262	114,879 3,191	115,335 3,116	115,483 3,082
6 Number	6,874 5.5 63,262	8,426 6.7 64,462	9,384 7.4 64,594	9,624 7.6 64,386	9,550 7.5 64,673	9,379 7.4 65,065	9,301 7.3 64,951	9,280 7.3 64,918	9,013 7.1 65,561	8,876 7.0 65,459	8,864 7.0 65,904
ESTABLISHMENT SURVEY DATA											
9 Nonagricultural payroll employment <sup>3</sup>	109,782	108,310	108,434	108,485	108,497	108,571	108,646	108,752 <sup>r</sup>	108,865	109,232	109,210
10 Manufacturing 11 Mining. 12 Contract construction 13 Transportation and public utilities 14 Trade. 15 Finance. 16 Service. 17 Government.	19,117 710 5,133 5,808 25,877 6,729 28,130 18,304	18,455 691 4,685 5,772 25,328 6,678 28,323 18,380	18,192 635 4,594 5,741 25,120 6,672 28,903 18,578	18,145 626 4,591 5,729 25,070 6,661 28,981 18,682	18,102 620 4,574 5,738 25,079 6,669 29,065 18,650	18,046 623 4,601 5,731 25,115 6,680 29,152 18,623	18,068 622 4,590 5,732 25,092 6,669 29,188 18,685	18,062 <sup>r</sup> 619 4,582 <sup>r</sup> 5,742 <sup>r</sup> 25,132 <sup>r</sup> 6,677 29,253 <sup>r</sup> 18,685 <sup>r</sup>	18,092 616 4,559 5,763 25,222 6,682 29,267 18,664	18,112 604 4,652 5,765 25,367 6,680 29,366 18,686	18,103 607 4,593 5,772 25,362 6,673 29,426 18,674

Persons sixteen years of age and older. 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.
 Includes self-employed, unpaid family, and domestic service workers.
 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 1984 benchmark, and only seasonally adjusted data are available at this time.

SOURCE. Based on data from U.S. Department of Labor, Employment and

# A46 Domestic Nonfinancial Statistics June 1993

# 2.12 OUTPUT, CAPACITY, AND CAPACITY UTILIZATION<sup>1</sup>

Seasonally adjusted

			1992			19	92			15	992		1993
Series		Q2	Q3	Q4 <sup>r</sup>	QI	Q2	Q3	Q4	Q1	Q2	Q3	Q4 <sup>r</sup>	Q1
			Output (1	1987 = 100)		Capaci	ity (percer	nt of 1987	output)	Capaci	ity utilizat	ion rate (p	ercent)
1 Total industry	<i>.</i>	108.5	109.1	110.4	111.8	137.7	138.4	139.1	139.8	78.8	78.8	79.3	79.9
2 Manufacturing		109.5	110.0	111.2	113.2	140.6	141.4	142.2	143.0	77.9	77.8	78.2	79.1
3 Primary processing 4 Advanced processing		105.4 111.4	106.4 111.7	107.1 113.2	108.8 115.2	129.6 145.6	129.9 146.7	130.3 147.7	130.6 148.8	81.3 76.5	81.9 76.2	82.2 76.6	83.3 77.4
5 Textile mill products		108.4 96.7 101.7 101.6 101.7 125.7 111.8 100.5	108.8 98.5 104.0 104.6 103.0 128.8 112.6 98.1	110.3 101.3 104.5 106.7 101.6 132.5 113.7 103.7	113.0 103.6 107.6 110.0 104.2 140.1 116.4 111.1	144.4 126.1 128.3 132.7 122.2 165.9 149.1 136.7	145.2 126.3 127.5 131.2 122.3 167.4 150.4 137.2	146.0 126.5 126.7 129.8 122.4 168.9 151.6 137.7	146.8 126.7 126.0 128.5 122.5 170.6 152.9 138.3	75.0 76.7 79.2 76.6 83.3 75.8 75.0 73.5	74.9 78.0 81.5 79.7 84.3 76.9 74.9 71.5	75.6 80.1 82.5 82.2 83.0 78.5 74.9 75.3	77.0 81.8 85.4 85.6 85.1 82.2 76.1 80.3 63.0
14 Nondurable goods		110.9 106.2 106.7 116.8 129.7 109.2	111.6 106.6 108.2 118.0 132.4 106.9	112.4 107.1 107.5 119.3 126.3 110.4	113.3 109.1 108.6 120.7 148.7 110.6	135.6 119.2 119.9 144.3 150.5 121.5	136.5 119.7 120.5 145.1 152.2 121.6	137.4 120.2 121.1 146.0 154.0 121.7	138.2 120.7 121.7 146.9 83.7 121.7	81.7 89.0 89.0 81.0 86.2 89.9	81.8 89.1 89.8 81.3 87.0 87.9	81.9 89.1 88.8 81.7 82.0 90.7	82.0 90.4 89.3 82.2 85.3 90.8
20 Mining 21 Utilities 22 Electric		98.9 107.4 110.3	99.2 109.4 113.2	98.9 112.4 115.5	95.7 113.4 116.2	114.7 129.8 126.0	114.8 130.1 126.4	114.8 130.4 126.8	114.8 130.7 127.1	86.2 82.7 87.6	86.5 84.1 89.5	86.2 86.2 91.1	83.3 86.8 91.4
	Previou	s cycle <sup>2</sup>	Latest	cycle <sup>3</sup>	1992			1992				1993	
	High	Low	High	Low	Mar.	Aug.	Sept.	Oct.	Nov.	Dec.r	Jan. <sup>r</sup>	Feb.r	Mar. <sup>p</sup>
					C	apacity ut	ilization ra	ate (percei	nt)				
1 Total industry	89.2	72.6	87.3	71.8	78.4	78.8	78.6	79.0	79.4 <sup>r</sup>	79.6	79.8	80.1	79.9
2 Manufacturing	88.9	70.8	87.3	70.0	77.5	77.9	77.5	77.9	78.3 <sup>r</sup>	78.5	79.0	79.2	79.1
3 Primary processing	92.2 87.5	68.9 72.0	89.7 86.3	66.8 71.4	80.8 76.1	81.7 76.3	81.3 76.0	81.9 76.3	82.5 <sup>r</sup> 76.6	82.2 77.0	83.0 77.4	83.5 77.5	83.5 77.3
5 Durable goods	88.8 90.1 100.6 105.8 92.9 96.4 87.8 93.4	68.5 62.2 66.2 66.6 61.3 74.5 63.8 51.1	86.9 87.6 102.4 110.4 90.5 92.1 89.4 93.0 81.1	65.0 60.9 46.8 38.3 62.2 64.9 71.1 44.5	74.3 78.8 78.7 76.7 81.8 74.5 74.8 69.1	75.2 78.3 81.8 79.5 85.2 77.3 75.1 72.5	74.4 76.6 80.1 78.8 82.2 76.9 74.3 70.8	75.1 79.7 82.0 81.6 82.7 77.4 74.5 73.6 66.3	75.5 <sup>r</sup> 80.9 <sup>r</sup> 83.1 <sup>r</sup> 82.6 <sup>r</sup> 83.8 <sup>r</sup> 78.0 <sup>r</sup> 75.6 <sup>r</sup> 74.3 <sup>r</sup>	76.0 79.6 82.4 82.3 82.5 80.0 74.8 77.9	76.7 82.5 83.4 82.9 84.1 81.0 75.4 81.4	77.2 81.7 86.5 87.1 85.6 82.4 76.4 80.2	77.1 81.1 86.4 86.9 85.6 83.0 76.7 79.4
14 Nondurable goods	87.9 92.0 96.9 87.9 102.0 96.7	71.8 60.4 69.0 69.9 50.6 81.1	87.0 91.7 94.2 85.1 90.9 89.5	76.9 73.8 82.0 70.1 63.4 68.2	81.7 88.5 88.5 79.9 85.0 90.3	81.6 88.7 88.2 81.1 86.0 85.8	81.7 88.9 90.0 81.4 85.1 88.3	81.7 88.4 87.8 81.4 82.8 91.5	82.0 89.4 <sup>r</sup> 88.9 82.1 <sup>r</sup> 84.1 91.0	81.9 89.5 89.6 81.6 79.1 89.7	82.1 91.3 89.1 82.2 85.2 89.7	82.0 90.4 88.6 82.2 85.3 91.7	81.8 89.6 90.0 82.1 85.4 91.1
20 Mining	94.4 95.6 99.0	88.4 82.5 82.7	96.6 88.3 88.3	80.6 76.2 78.7	84.9 83.1 88.1	86.1 83.6 89.2	85.6 84.6 89.9	86.1 85.0 89.8	86.6 <sup>r</sup> 86.2 <sup>r</sup> 91.0 <sup>r</sup>	85.8 87.5 92.5	85.4 84.3 88.7	82.8 87.7 92.4	81.8 88.3 93.1

<sup>1.</sup> Data in this table also appear in the Board's G.17 (419) monthly statistical release. For ordering address, see inside front cover. For a detailed description of the series, see "Recent Developments in Industrial Capacity and Utilization," Federal Reserve Bulletin, vol. 76 (June 1990), pp. 411-35.

Monthly high, 1973; monthly low, 1975.
 Monthly highs, 1978 through 1980; monthly lows, 1982.

# 2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value<sup>1</sup> Monthly data seasonally adjusted

	Monthly data seasonally adjusted	1987			· · · · · · · · · · · · · · · · · · ·			19	92					<u> </u>	1993	
	Group	pro- por- tion	1992 avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.r	Dec.r	Jan. <sup>r</sup>	Feb.	Mar.p
		-			l	·	Ц	L	Index	(1987 =	- 100)	1		L		
	Major Markets		,													
1	Total index	100.0	108.7	107.6	108.1	108.9	108.5	109.4	109.1	108.9	109.7	110.4	111.0	111.4	112.0	112.0
2 3 4 5 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 20 21 22 21 22 22 22 22 22 22 22 22 22 22	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, A/C, and TV Carpeting and furniture. Miscellaneous home goods Nondurable consumer goods Foods and tobacco Clothing Chemical products. Paper products Energy Fuels. Residential utilities	60.8 46.0 26.0 5.6 2.5 1.5 .9 .6 1.0 3.1 8 .8 .9 1.4 20.4 20.4 20.5 2.5 2.7 .7	109.5 111.1 110.5 107.9 106.6 102.0 90.0 122.1 113.6 108.9 104.7 102.5 115.3 111.2 108.5 95.2 122.6 124.2 108.1	108.5 109.8 109.3 106.2 103.6 95.7 81.9 118.8 115.5 108.3 102.5 114.2 107.8 95.1 119.4 124.6 107.0 103.7 108.2	109.0 110.6 110.1 107.9 106.5 102.5 93.1 118.3 112.5 109.1 104.4 115.2 110.7 107.6 95.3 120.8 125.1 108.9 105.1 110.3	109.7 111.4 110.8 111.1 110.6 107.8 98.6 123.3 114.8 111.5 107.4 105.9 117.3 110.7 107.7 96.4 121.4 124.3 107.2	109.0 110.5 109.6 109.2 108.0 104.0 97.6 114.8 114.0 110.2 106.2 103.2 116.9 107.2 95.5 121.6 121.7 104.8 104.8	109.6 111.0 110.4 108.6 106.6 100.5 92.3 114.3 115.7 110.3 102.3 103.8 118.8 110.8 121.5 121.9 107.4 105.3 107.4 105.3	109.8 111.5 110.8 109.2 106.8 100.6 87.2 123.1 116.2 111.1 110.6 103.6 116.1 111.2 110.1 95.0 121.8 106.2 99.9	109.6 111.2 110.7 106.9 104.5 98.2 88.1 115.1 114.0 108.9 108.9 114.2 108.9 95.5 124.1 124.2 108.1 109.7	110.7 112.4 111.9 108.1 108.8 105.9 88.5 135.1 113.3 107.6 103.8 100.5 114.3 112.9 126.8 94.9 126.8 124.1 111.5 110.3	111.3 113.1 112.6 108.9 110.2 107.2 89.4 137.1 114.7 107.8 103.8 101.4 114.1 113.7 110.1 95.4 128.3 126.1 112.2 108.0 113.7	112.3 114.2 113.4 111.1 114.3 116.5 97.7 148.1 111.0 108.6 104.0 102.3 115.2 114.0 109.9 96.0 129.1 126.0 114.0	112.7 114.6 113.4 113.3 119.4 123.9 102.3 160.3 112.5 108.6 104.5 114.5 113.4 109.9 95.6 128.7 125.6 110.1 106.1	113.3 115.2 114.2 114.3 119.0 120.3 101.8 151.4 116.9 110.6 108.7 105.8 114.7 110.6 94.9 128.5 125.8 114.7	113.3 115.2 114.0 118.0 118.2 100.5 147.9 117.7 111.4 105.2 114.4 114.0 110.1 95.3 128.3 128.3 125.9 114.6 106.7
23 24 25 26 27 28 29 30 31 32 33	Equipment. Business equipment Information processing and related Office and computing Industrial Transit Autos and trucks Other Defense and space equipment Oil and gas well drilling Manufactured homes.	20.0 13.9 5.6 1.9 4.0 2.5 1.2 1.9 5.4 .6	111.9 124.5 141.2 176.8 102.3 131.2 101.2 114.1 82.9 78.3 108.8	110.4 121.5 136.0 164.9 101.3 128.9 95.0 112.2 85.6 76.2 98.7	111.3 123.0 137.9 168.2 101.7 131.7 101.3 113.2 84.7 79.2 100.7	112.3 124.5 139.2 170.5 103.4 133.3 105.6 115.0 84.2 79.2 100.3	111.6 124.1 140.4 174.0 102.9 131.8 101.7 111.5 83.6 74.6 97.1	111.8 124.4 141.9 178.0 103.4 128.7 98.1 112.2 82.7 78.6 112.0	112.5 125.9 143.5 182.0 102.7 132.6 101.3 114.4 81.8 75.0 106.1	111.9 125.4 143.5 184.0 101.6 130.4 99.1 115.8 81.1 74.4 111.2	113.0 126.8 145.7 187.0 102.0 133.0 105.2 115.5 80.5 80.2 119.9	113.7 127.8 146.8 189.0 103.1 134.1 107.7 115.9 79.7 85.2 127.1	115.3 130.2 149.9 198.5 104.5 136.7 114.4 118.0 78.9 88.5 138.0	116.3 131.8 152.1 205.0 105.1 140.2 121.4 118.2 78.4 84.7 143.0	116.6 133.0 155.2 214.1 105.5 138.0 119.8 119.3 77.5 76.6 141.3	116.7 133.4 157.0  105.4 136.3 118.1 120.1 77.1 72.2
34 35 36	Intermediate products, total  Construction supplies  Business supplies	14.7 6.0 8.7	104.6 97.4 109.5	104.4 96.7 109.7	103.9 96.5 109.0	104.4 97.8 109.0	104.4 97.2 109.4	105.1 98.6 109.7	104.4 98.5 108.5	104.5 97.1 109.6	105.5 98.5 110.4	105.7 98.8 110.5	106.2 98.4 111.6	106.5 99.5 111.4	107.2 100.7 111.7	107.2 100.5 111.9
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 Pulp and paper materials Chemical materials Other Energy materials Primary energy Converted fuel materials	39.2 19.4 4.2 7.3 7.9 2.8 9.0 1.2 1.9 3.8 2.1 10.9 7.2 3.7	107.5 109.9 101.0 116.3 108.8 108.3 109.7 102.6 109.8 110.2 112.5 101.2 100.3 103.0	106.1 108.3 97.9 115.1 107.5 106.3 108.9 102.0 107.8 109.3 112.7 100.1 98.2 103.8	106.8 108.7 99.3 114.7 108.1 106.3 109.4 103.2 109.2 109.9 112.2 101.3 99.8 104.1	107.7 110.4 102.5 116.2 109.2 108.3 109.7 102.9 107.8 111.2 112.4 101.3 99.7 104.3	107.6 110.2 102.9 116.2 108.7 107.7 110.4 102.3 110.8 110.9 113.4 100.6 99.6 102.6	109.0 1111.2 101.8 117.5 110.2 111.5 111.7 103.9 111.8 113.4 112.8 102.9 102.3 104.1	108.1 111.1 103.9 117.0 109.5 110.9 110.3 102.9 101.9 111.9 112.6 100.9 101.4 100.0	107.9 109.9 102.3 116.4 108.1 108.1 110.5 103.9 112.7 110.9 111.5 102.0 101.8 102.5	108.2 110.9 103.5 117.2 109.1 108.5 109.7 103.3 109.6 110.2 112.6 102.0 102.1 101.7	109.0 112.0 103.8 118.7 110.2 111.3 110.6 103.8 111.0 111.1 112.9 102.4 102.3 102.4	109.0 112.1 104.0 119.1 109.9 108.8 110.2 102.7 113.2 109.0 114.1 102.3 101.9 103.1	109.3 113.4 104.8 121.0 111.0 109.6 111.6 104.7 110.3 112.0 115.6 100.1 99.9 100.5	110.0 114.4 105.2 122.3 112.1 111.5 111.7 104.4 111.1 112.5 114.9 100.6 98.7 104.4	110.0 114.4 105.0 122.5 111.8 111.2 112.5 103.4 114.4 113.2 114.6 100.3 97.9 104.9
	Special Aggregates															
52	Total excluding autos and trucks	97.3 95.3	108.9 109.2	107.9 108.2	108.3 108.6	109.0 109.2	108.6 108.8	109.6 109.9	109.3 109.6	109.2 109.5	109.8 110.1	110.5 110.8	110.9 111.2	111.0 111.3	111.8 112.0	111.8 112.1
	machines Consumer goods excluding autos and	97.5	107.0	106.1	106.6	107.4	106.8	107.6	107.3	107.0	107.8	108.4	108.8	109.0	109.4	109.3
55 56	trucks	24.5 23.3	111.0     110.7	110.2 109.6	110.6 110.3	110.9 111.2	109.9 110.1	111.0	111.4	111.4	112.2 111.9	113.0	113.2 113.3	112.7 113.7	113.8	113.8 114.0
57	trucks Business equipment excluding office and computing equipment Materials excluding energy	12.7 12.0 28.4	126.8 116.1 109.8	124.1 114.5 108.5	125.2 115.7 108.9	126.4 117.1 110.2	126.3 116.1 110.3	127.0 115.8 111.3	128.3 116.8 110.8	127.9 115.9 110.1	128.9 117.0 110.5	129.7 117.9 111.6	131.7 119.1 111.5	132.9 120.0 112.8	134.2 119.9 113.6	134.9 119.7 113.8

# 2.13—Continued

		SIC	1987 pro-	1992					19	992						1993	
	Group	code	por- tion	avg.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>p</sup>
										Inde	k (1987 =	100)	<b>.</b>			_	
	Major Industries			1	ĺ	1	İ		ĺ	İ			ľ	}	1		
1	Total index		100.0	108.7	107.6	108.1	108.9	108.5	109.4	109.1	108.9	109.7	110.4	111.0	111.4	112.0	112.0
2 3 4	Manufacturing		84.4 26.7 57.7	109.7 105.7 111.5	108.5 104.5 110.3	109.0 105.0 110.8	109.9 105.6 111.9	109.6 105.6 111.4	110.2 107.3 111.6	110.1 106.2 112.0	109.8 105.7 111.7	110.6 106.6 112.5	111.3 107.4 113.1	111.8 107.2 114.0	112.8 108.3 114.8	113.3 109.0 115.3	113.4 109.1 115.4
5 6 7	Durable goods	24 25	47.3 2.0 1.4	108.5 98.6 100.2	107.0 99.2 98.6	107.6 97.2 101.1	109.1 97.4 103.3	108.5 95.4 100.3	109.0 99.8 101.0	109.2 98.9 101.7	108.2 96.7 100.5	109.5 100.8 99.6	110.2 102.3 99.5	111.2 100.7 100.5	112.4 104.4 101.4	113.3 103.5 103.4	113.4 102.8 103.3
8 9 10	Clay, glass, and stone products Primary metals Iron and steel	32 33 331,2	2.5 3.3 1.9	96.2 103.0 104.1	95.0 101.4 102.5	95.6 100.9 100.9	96.7 102.0 102.2	96.6 102.1 101.8	97.1 105.6 106.4	96.4 104.3 104.4	96.1 102.0 103.0	97.7 104.2 106.3	97.8 105.3 107.2	98.3 104.2 106.5	98.2 105.2 106.8	99.0 109.0 111.9	99.2 108.6 111.2
11 12 13	Raw steel Nonferrous Fabricated metal	333-6,9	.1 1.4	101.2 101.6	98.8 99.9	99.9 100.9	98.5 101.8	101.5 102.5	105.3 104.4	101.9 104.2 102.5	99.8 100.5	101.7 101.2	101.5 102.6	100.4 101.0	106.6 103.0	106.9 104.9 105.2	104.9
14 15	Nonelectrical machinery Office and computing machines	34 35 357	5,4 8.6 2.5	101.8 127.3 176.8	100.0 122.9 164.9	100.6 124.1 168.2	102.2 126.7	102.2 126.4 174.0	102.6 127.8 178.0	129.3 182.0	101.3 129.1 184.0	102.9 130.4 187.0	103.4 131.7 189.0	104.5 135.5 198.5	105.2 137.8 205.0	140.6 214.1	105.2 142.0 218.3
16 17 18	Electrical machinery Transportation equipment	36 37	8.6 9.8	97.2	96.5	98.0	99.6	98.2	96.7	97.0	95.6	97.5	97.5	99.4	101.3	99.8	98.7
19	parts	371	4.7	98.7	94.2	98.5	102.7	100.4	97.7	99.4	97.2	101.2	102.4	107.4	112.5	111.0	109.9
20	trucks		2.3	100.2	93.7	101.1	106.5	103.0	99.3	98.6	96.7	103.1	104.6	113.7	120.7	117.6	115.6
21 22	tation equipment Instruments	372-6,9 38 39	5.1 3.3 1.2	96.0 118.1 119.5	98.6 118.6 120.0	97.4 119.0 118.9	96.8 119.8 118.4	96.3 118.5 117.8	95.7 118.5 120.4	94.9 118.2 118.2	94.1 118.1 118.6	94.1 117.8 119.7	93.0 116.8 120.0	92.2 116.8 120.3	91.3 116.2 118.8	89.7 116.2 118.1	88.6 116.4 118.0
23 24 25 26 27 28 29 30 31 32	Nondurable goods Foods Tobacco products Textile mill products Apparel products Paper and products Printing and publishing Chemicals and products Petroleum products		37.2 8.8 1.0 1.8 2.4 3.6 6.4 8.6 1.3	111.2 110.1 105.3 106.0 97.7 107.1 113.3 117.1 108.6	110.4 110.2 101.3 105.3 97.8 105.8 113.8 114.8 109.7	110.7 109.6 101.0 106.3 98.0 107.0 113.7 115.8 110.3	110.9 109.3 102.5 106.8 99.0 105.8 113.4 117.0 108.5	111.0 109.0 103.6 105.3 98.1 107.3 113.0 117.5 108.9	111.7 109.8 106.6 107.1 99.4 109.6 112.3 118.0 109.1	111.3 110.6 115.9 106.1 97.6 106.3 111.4 117.6 104.3	111.8 110.2 110.5 106.6 97.6 108.6 113.2 118.3 107.4	112.0 111.2 107.6 106.1 97.2 106.2 113.4 118.7 111.3	112.7 111.5 107.7 107.4 97.8 107.6 113.6 119.9 110.7	112.7 111.1 108.1 107.7 97.9 108.7 114.6 119.3 109.1	113.2 111.8 108.7 110.0 97.5 108.3 114.3 120.5 109.2	113.4 112.1 108.5 109.1 97.3 107.8 114.4 120.8 111.7	113.3 111.9 106.3 108.3 97.6 109.7 114.2 120.9 110.9
33	Rubber and plastic products	30 31	3.0 .3	117.2 85.3	115.4 82.9	116.5 84.1	117.1 86.2	117.3 86.2	118.5 87.1	119.0 84.8	117.3 86.4	118.3 87.0	119.3 86.0	119.3 86.9	119.7 87.1	120.5 87.3	120.1 87.1
34 35 36 37 38	Mining	10 11,12 13 14	7.9 .3 1.2 5.7 .7	98.8 158.0 105.5 93.2 105.8	97.5 155.8 103.0 91.9 107.4	99.1 154.2 104.0 94.2 105.9	99.7 166.4 107.6 93.4 108.0	98.0 154.0 98.6 93.9 105.6	100.6 163.7 112.0 94.0 106.2	98.8 165.6 107.5 92.4 106.4	98.3 158.6 103.7 93.0 105.2	98.8 155.7 103.9 93.9 104.9	99.4 167.1 106.8 93.4 105.5	98.5 159.7 106.7 92.6 104.7	98.0 156.9 110.1 91.3 105.6	95.1 157.8 103.4 88.8 104.1	94.0 157.8 99.2 88.1 104.8
39 40 41	Utilities	491,3PT 492,3PT	7.6 6.0 1.6	108.6 111.6 97.6	107.7 110.7 96.7	108.2 111.0 97.7	107.3 110.2 96.6	106.7 109.7 95.3	109.3 113.0 95.4	108.8 112.7 94.1	110.2 113.8 97.0	110.7 113.7 99.6	112.4 115.3 101.3	114.2 117.4 102.4	110.1 112.6 100.5	114.6 117.4 104.1	115.6 118.5 104.9
	SPECIAL AGGREGATES																
	Manufacturing excluding motor vehicles and parts		79.8	110.3	109.3	109.6	110.3	110.1	110.9	110.7	110.5	111.1	111.8	112.1	112.8	113.4	113.6
43	Manufacturing excluding office and computing machines		82.0	107.6	106.8	107.2	108.1	107.6	108.2	108.0	107.6	108.3	109.0	109.2	110.0	110.3	110.2
							Gross va	lue (billi	ons of 19	982 dolla	rs, annu	al rates)	1	·	<u> </u>	L	L
	Major Markets																
44	Products, total		1,734.8	1,932.5	1,902.8	1,918.7	1,935.5	1,920.1	1,936.2	1,935.9	1,937.0	1,969.8	1,981.4	2,001.9	2,024.1	2,041.6	2,040.3
46 47	Final Consumer goods Equipment Intermediate	•••	1,350.9 833.4 517.5 384.0	1,529.8 907.9 621.9 402.7	1,501.5 896.2 605.3 401.2	1,518.2 905.6 612.7 400.5	619.7	1,519.1 901.3 617.8 401.1	1,530.4 909.3 621.0 405.8	1,532.8 905.3 627.5 403.1	1,534.6 907.1 627.5 402.4	1,563.8 928.2 635.6 406.0		1,593.5 935.5 658.0 408.5	1,612.8 943.4 669.5 411.3	950.8	1,625.2 945.3 679.9 415.1

<sup>1.</sup> Data in this table also appear in the Board's G.17 (419) monthly statistical release. For ordering address, see inside front cover.

A major revision of the industrial production index and the capacity utilization rates was released in April 1990. See "Industrial Production: 1989

Developments and Historical Revision," Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187-204.

2. Standard industrial classification.

# 2.14 HOUSING AND CONSTRUCTION

Monthly figures at seasonally adjusted annual rates except as noted

-		4000	1001	10005		_	· · · · · · · · · · · · · · · · · · ·	19	992	-			19	993
	Item	1990	1991	1992 <sup>r</sup>	May	June	July	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec."	Jan.	Feb.
				Pri	vate resid	ential rea	l estate ac	tivity (the	usands of	units exc	ept às not	ed)		
	New Units									j			, "-	
2 3 4 5 6 7 8 9 10 11 12	Permits authorized One-family Two-or-more-family Started One-family Two-or-more-family Under construction at end of period One-family Two-or-more-family Completed One-family Two-or-more-family Two-or-more-family Mobile homes shipped	1,111 794 317 1,193 895 298 711 449 262 1,308 966 342 188	949 754 195 1,014 840 174 606 434 173 1,091 838 253 171	1,097 913 184 1,200 1,030 169 612 473 140 1,158 964 194 210	1,054 879 175 1,197 1,019 178 650 <sup>r</sup> 483 <sup>r</sup> 1,194 <sup>r</sup> 1,002 <sup>r</sup> 192 <sup>r</sup> 194	1,032 872 160 1,141 994 147 641 <sup>r</sup> 481 <sup>r</sup> 160 1,181 <sup>r</sup> 979 <sup>r</sup> 202 194	1,080 879 201 1,106 961 145 628 474 <sup>r</sup> 1,54 <sup>r</sup> 1,234 <sup>r</sup> 1,026 <sup>r</sup> 208 <sup>r</sup> 210	1,076 877 199 1,229 1,038 191 633 479 <sup>r</sup> 1,133 <sup>r</sup> 945 <sup>r</sup> 1,88 <sup>r</sup> 202	1,125 913 212 1,218 1,045 173 637 <sup>r</sup> 485 <sup>r</sup> 1,128 <sup>r</sup> 942 <sup>r</sup> 186 <sup>r</sup> 217	1,139 959 180 1,226 1,079 147 645 493 152 1,137 964 173 228	1,126 955 171 1,226 1,089 137 641 498 143 1,229 1,002 227 244	1,201 1,044 157 1,286 1,133 153 644 501 143 1,227 1,016 211 266	1,180 997 183 1,171 1,051 120 646 507 139 1,130 973 157 267	1,138 955 183 1,189 1,040 149 644 510 134 1,264 1,054 210 262
14	Merchant builder activity in one-family units Number sold Number for sale at end of period	535 321	507 284 <sup>r</sup>	609 265	552 <sup>r</sup> 273 <sup>r</sup>	584 <sup>r</sup> 273 <sup>r</sup>	622 <sup>r</sup> 271	625 <sup>r</sup> 270 <sup>r</sup>	672 <sup>r</sup> 267 <sup>r</sup>	637 264	615 262	652 265	569 267	595 271
16	Price of units sold (thousands of dollars) <sup>2</sup> Median	122.3 149.0	120.0 147.0	121.2 144.7	113.0 146.0	124.5 146.6	118.0 137.7	123.5 145.3	119.5 142.2	125.0 148.4	128.9 147.2	125.0 144.0	118.0 139.9	126.7 146.3
	Existing Units (one-family)													
	Number sold  Price of units sold (thousands	3,211	3,219	3,520	3,450 <sup>r</sup>	3,320 <sup>r</sup>	3,380 <sup>r</sup>	3,340 <sup>r</sup>	3,380 <sup>r</sup>	3,710	3,860	4,040	3,780	3,460
19	of dollars) <sup>2</sup> Median Average	95.2 118.3	99.7 127.4	103.6 130.8	103,1 <sup>r</sup> 131,0 <sup>r</sup>	105.5 <sup>r</sup> 133.9 <sup>r</sup>	102.8 <sup>r</sup> 132.2	105.0 <sup>r</sup> 132.4 <sup>r</sup>	103.5 <sup>r</sup> 131.0	103.4 129.3	102.7 128.8	104.2 131.0	103.1 129.4	103.6 129.6
				L	L	Value of	new cons	truction (	millions of	dollars)3	· · · · ·		L	
	Construction										[			
21	Total put in place	442,066	400,955	426,657	427,980	426,730	425,700	419,598	429,291	432,250	436,140	439,948	437,897	438,384
22 23 24 25 26 27 28	Private Residential Nonresidential, total Industrial buildings. Commercial buildings Other buildings Public utilities and other	334,153 182,856 151,297 23,849 62,866 21,591 42,991	290,707 157,837 132,870 22,281 48,482 20,797 41,310	308,246 184,127 124,119 20,173 40,417 21,514 42,015	306,999 182,892 124,107 21,008 39,643 21,993 41,463	312,182 184,630 127,552 20,285 43,310 21,991 41,966	305,848 181,162 124,686 20,594 39,988 22,228 41,876	301,984 184,201 117,783 17,862 37,010 21,518 41,393	308,813 186,343 122,470 19,019 39,333 22,068 42,050	315,855 192,553 123,302 18,646 40,195 21,545 42,916	317,451 194,801 122,650 19,083 40,379 21,542 41,646	320,720 198,538 122,182 18,721 38,326 21,370 43,765	324,415 201,198 123,217 18,661 39,331 20,952 44,273	324,133 200,650 123,483 18,567 39,173 22,646 43,097
29 30 31 32 33	Public Military. Highway Conservation and development Other	107,909 2,664 31,154 4,607 69,484	110,247 1,837 29,918 4,958 73,534	118,408 2,484 32,759 5,978 77,187	120,981 2,668 32,633 5,767 79,913	114,548 2,503 31,496 5,889 74,660	119,853 2,372 32,682 5,772 79,027	117,614 2,438 33,451 5,382 76,343	120,478 3,172 34,651 6,364 76,291	116,395 2,438 32,056 5,630 76,271	118,689 2,612 34,636 6,210 75,231	119,229 2,483 31,237 8,237 77,272	113,481 2,482 29,694 5,720 75,585	114,251 2,424 30,770 6,678 74,379

SOURCE. Census Bureau 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 17,000 jurisdictions beginning in 1984.

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 Census Bureau 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.

# A50 Domestic Nonfinancial Statistics □ June 1993

# 2.15 CONSUMER AND PRODUCER PRICES

Percentage changes based on seasonally adjusted data except as noted

		from 12 s earlier	Char		months eal rate)	arlier		Change for	rom l mor	nth earlier		Index
Item	1992	1993		1992		1993	19	92		1993		level, Mar. 1993
	Mar.	Mar.	June	Sept.	Dec.	Mar.	Nov.	Dec.	Jan.	Feb.	Mar.	
Consumer Prices <sup>2</sup> (1982–84=100)												
i All items	3.2	3.1	2.6	2.6	3.2	4.0	.2	.1	.5	.3	.1	143.6
2 Food	1.7 8 3.9 3.1 4.2	1.4 3.6 3.4 2.6 3.7	-1.2 8.6 2.8 2.5 3.1	3.2 1.2 2.5 1.8 2.9	1.4 1.9 3.8 1.5 4.7	2.6 3.1 4.3 4.6 4.4	.1 .2 .3 .1	.3 2 .2 1 .3	.4 .5 .5 .5 .4	.1 4 .5 .5	.1 .7 .1 .1	140.1 102.5 151.4 135.5 160.5
Producer Prices (1982=100)			 				l 					l
7 Finished goods	1.1 -1.5 -1.5 2.9 2.1	2.0 1.1 4.3 2.0 1.6	3.3 6 16.6 2.4 .9	1.3 4.3 -3.5 1.5 1.2	3 2.9 -9.8 .9 .3	3.9 -1.9 16.6 3.2 3.8	2 <sup>r</sup> 6 <sup>r</sup> -1.3 <sup>r</sup> .2 .2 <sup>r</sup>	.0 <sup>r</sup> 1.2 <sup>r</sup> -2.3 .1 .1 <sup>r</sup>	9 9 .9 .4 .3	1 1.7 .3 .5	.4 .5 1.3 .1	124.6 124.6 77.6 139.4 130.9
Intermediate materials 12 Excluding foods and feeds	6 2	2.2 1.8	5.0 1.7	.7 1.3	-1.4 3	4.6 4.3	2 <sup>r</sup> .0 <sup>r</sup>	.1 <sup>r</sup> .2	.3	.5 .5	.3 .2	116.2 123.8
Crude materials 14 Foods 15 Energy 16 Other	-2.5 -6.2 -3.1	.9 7.8 8.0	2.7 51.5 4.8	-4.8 19.8 2.2	4.3 -20.2 1.5	1.9 ~6.9 25.4	-,9 <sup>r</sup> 1.1 <sup>r</sup> -,5 <sup>r</sup>	1.0 -5.5r 2.1r	.3 .0 3.1	-2.5 -2.2	.1 .8 .4	108.2 77.8 138.4

Source. Bureau of Labor Statistics.

Not seasonally adjusted.
 Figures for consumer prices are for all urban consumers and reflect a rental-equivalence measure of homeownership.

# 2.16 GROSS DOMESTIC PRODUCT AND INCOME

Billions of current dollars except as noted; quarterly data at seasonally adjusted annual rates

				1991		19	992	
Account	1990	1991	1992 <sup>r</sup>	Q4	Qt	Q2	Q3	Q4 <sup>r</sup>
Gross Domestic Product								
1 Total	5,522.2	5,677.5	5,950.7	5,753.3	5,840.2	5,902.2	5,978.5	6,081.8
By source 2 Personal consumption expenditures 3 Durable goods 4 Nondurable goods 5 Services	3,748.4	3,887.7	4,095.8	3,942.9	4,022.8	4,057.1	4,108.7	4,194.8
	464.3	446.1	480.4	450.4	469.4	470.6	482.5	499.1
	1,224.5	1,251.5	1,290.7	1,251.4	1,274.1	1,277.5	1,292.8	1,318.6
	2,059.7	2,190.1	2,324.7	2,241.1	2,279.3	2,309.0	2,333.3	2,377.1
6 Gross private domestic investment 7 Fixed investment 8 Nonresidential 9 Structures 10 Producers' durable equipment 11 Residential structures	799.5	721.1	770.4	736.1	722.4	773.2	781.6	804.3
	793.2	731.3	766.0	726.9	738.2	765.1	766.6	794.0
	577.6	541.1	548.2	528.7	531.0	550.3	549.6	562.1
	201.1	180.1	168.4	169.7	170.1	170.3	166.1	167.0
	376.5	360.9	379.9	358.9	360.8	380.0	383.5	395.1
	215.6	190.3	217.7	198.2	207.2	214.8	217.0	231.9
12 Change in business inventories 13 Nonfarm	6.3	-10.2	4.4	9.2	-15.8	8.1	15.0	10.3
	3.3	-10.3	2.2	14.5	-13.3	6.4	9.7	6.2
14 Net exports of goods and services 15 Exports	-68.9	-21.8	-30.4	-16.0	-8.1	-37.1	-36.0	-40.5
	557.0	598.2	636.3	622.9	628.1	625.4	639.0	652.7
	625.9	620.0	666.7	638.9	636.2	662.5	675.0	693.2
17 Government purchases of goods and services 18 Federal	1,043.2	1,090.5	1,114.9	1,090.3	1,103.1	1,109.1	1,124.2	1,123.3
	426.4	447.3	449.1	440.8	445.0	444.8	455.2	451.6
	616.8	643.2	665.8	649.5	658.0	664.3	669.0	671.7
By major type of product 20 Final sales, total 21 Goods 22 Durable 23 Nondurable 24 Services 25 Structures	5,515.9	5,687.7	5,946.3	5,744.2	5,855.9	5,894.1	5,963.5	6,071.5
	2,160.1	2,192.8	2,260.3	2,188.4	2,233.6	2,233.2	2,258.4	2,316.1
	920.6	907.6	943.9	905.7	923.6	932.3	943.8	975.8
	1,239.5	1,285.1	1,316.4	1,282.7	1,310.0	1,300.8	1,314.6	1,340.3
	2,846.4	3,030.3	3,197.1	3,090.3	3,142.2	3,173.4	3,217.8	3,255.1
	509.4	464.7	488.8	465.5	480.1	487.6	487.3	500.3
26 Change in business inventories 27 Durable goods	6.3	-10.2	4.4	9.2	15.8	8.1	15.0	10.3
	9	-19.3	-3.5	-8.1	19.3	9.5	2.7	-6.9
	7.2	9.0	7.9	17.3		-1.4	12.3	17.2
Memo 29 Total GDP in 1987 dollars	4,877.5	4,821.0	4,922.6	4,838.5	4,873.7	4,892.4	4,933.7	4,990.8
National Income								
30 Total 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	3,291.2 2,742.9 514.8 2,228.0 548.4 277.4 271.0	3,390.8 2,812.2 543.5 2,268.7 578.7 290.4 288.3	4,744.1 3,525.2 2,916.6 562.5 2,354.1 608.6 302.9 305.7	3,433.8 2,845.0 546.4 2,298.6 588.7 293.7 295.0	3,476.3 2,877.6 554.6 2,323.0 598.7 299.4 299.2	3,506.3 2,901.3 561.4 2,339.9 605.0 301.5 303.6	3,534,3 2,923,5 564,3 2,359,1 610.8 302.9 307.9	3,583.7 2,963.9 569.6 2,394.3 619.8 307.6 312.2
38 Proprietors' income <sup>1</sup>	366.9	368.0	404.5	377.9	393.6	398.4	397.4	428.4
	325.2	332.2	364.9	340.0	353.6	359.9	365.9	380.4
	41.7	35.8	39.5	37.9	40.1	38.5	31.5	48.1
41 Rental income of persons <sup>2</sup>	~12.3	-10.4	4.7	-6.6	4.5	3.3	6.4	13.6
42 Corporate profits <sup>1</sup> 43 Profits before tax <sup>3</sup> 44 Inventory valuation adjustment 45 Capital consumption adjustment	361.7	346.3	394.5	347.1	384.0	388.4	374.1	431.3
	355.4	334.7	372.3	332.3	366.1	376.8	354.1	392.2
	-14.2	3.1	-7.4	.7	-5.4	-15.5	-9.7	1.0
	20.5	8.4	29.5	14.1	23.3	27.0	29.7	38.1
46 Net interest	460.7	449.5	415.2	446.9	430.0	420.0	407.3	403.6

 $<sup>1. \ \</sup> With inventory \ valuation \ and \ capital \ consumption \ adjustments. \\ 2. \ \ With \ capital \ consumption \ adjustment. \\$ 

<sup>3.</sup> For after-tax profits, dividends, and the like, see table 1.48. Source. U.S. Department of Commerce, Survey of Current Business.

# A52 Domestic Nonfinancial Statistics □ June 1993

# 2.17 PERSONAL INCOME AND SAVING

Billions of current dollars except as noted; quarterly data at seasonally adjusted annual rates

_			4004		1991		19	992	
	Account	1990	1991	1992 <sup>r</sup>	Q4	QI	Q2	Q3	Q4 <sup>r</sup>
_	Personal Income and Saving								
1	Total personal income	4,664.2	4,828.3	5,058.1	4,907.2	4,980.5	5,028.9	5,062.0	5,160.9
34 4 5 6 7	Commodity-producing industries  Manufacturing Distributive industries Service industries	2,742.8 745.6 556.1 634.6 847.8 514.8	2,812.2 737.4 556.9 647.4 883.9 543.6	2,918.1 743.2 565.7 666.8 945.5 562.5	2,845.0 741.5 563.9 652.9 904.3 546.4	2,877.6 736.8 559.9 660.9 925.3 554.6	2,901.3 743.1 564.7 662.9 933.9 561.4	2,923.5 742.4 565.5 667.7 949.1 564.3	2,969.9 750.6 572.8 675.8 973.9 569.6
10	Business and professional <sup>1</sup> Farm Rental income of persons <sup>2</sup> Dividends Personal interest income Transfer payments	271.0 366.9 325.2 41.7 -12.3 140.3 694.5 685.8 352.0	288.3 368.0 332.2 35.8 -10.4 137.0 700.6 771.1 382.0	305.7 404.5 364.9 39.5 4.7 139.3 670.2 866.1 414.1	295.0 377.9 340.0 37.9 -6.6 134.3 703.3 799.8 390.6	299.2 393.6 353.6 40.1 -4.5 133.9 684.8 842.7 405.7	303.6 398.4 359.9 38.5 3.3 136.6 675.2 859.7 412.1	307.9 397.4 365.9 31.5 6.4 141.0 663.2 874.1 417.1	312.2 428.4 380.4 48.1 13.6 145.8 657.8 888.0 421.6
17	Less: Personal contributions for social insurance	224.8	238.4	250.6	241.5	246.8	249.3	251.5	254.8
18	EQUALS: Personal income	4,664.2	4,828.3	5,058.1	4,907.2	4,980.5	5,028.9	5,062.0	5,160.9
19	Less: Personal tax and nontax payments	621.3	618.7	627.3	622.3	619.6	617.1	628.8	643.6
20	EQUALS: Disposable personal income	4,042.9	4,209.6	4,430.8	4,284.9	4,360.9	4,411.8	4,433.2	4,517.3
21	Less: Personal outlays	3,867.3	4,009.9	4,218.1	4,065.5	4,146.3	4,179.5	4,229.9	4,316.9
22	EQUALS: Personal saving	175.6	199.6	212.6	219.4	214.6	232.3	203.3	200.4
23 24 25	MEMO Per capita (1987 dollars) Gross domestic product Personal consumption expenditures Disposable personal income	19,513.0 13,043.6 14,068.0	19,077.1 12,824.1 13,886.0	19,271.4 12,973.9 14,035.0	19,066.0 12,802.6 13,913.0	19,158.5 12,930.2 14,017.0	19,181.8 12,893.3 14,021.0	19,288.4 12,973.3 13,998.0	19,456.3 13,098.4 14,105.0
26	Saving rate (percent)	4.3	4.7	4.8	5.1	4.9	5.3	4.6	4.4
27	Gross Saving	718.0	708.2	687.0	698.2	677.5	682.9	696.9	690.7
28	Gross private saving	854.1	901.5	969.2	934.8	950.1	968.1	992.1	966.6
29 30 31	Personal saving Undistributed corporate profits <sup>1</sup> Corporate inventory valuation adjustment	175.6 75.7 14.2	199.6 75.8 3.1	212.6 104.7 -7.4	219.4 78.3 .7	214.6 104.0 -5.4	232.3 97.7 -15.5	203.3 91.2 -9.7	200.4 125.7 1.0
32 33	Capital consumption allowances Corporate Noncorporate	368.3 234.6	383.0 243.1	394.8 258.6	386.3 250.7	386.1 245.3	391.2 247.0	407.2 290.4	394.7 251.8
34 35 36		-136.1 -166.2 30.1	-193.3 -210.4 17.1	-282.2 -297.8 15.5	-236.6 -258.7 22.0	-272.6 -289.2 16.6	-285.2 -302.9 17.7	-295.2 -304.4 9.2	-276.0 -294.6 18.6
37	Gross investment	723.4	730.1	720.4	714.6	706.5	713.8	732.0	729.5
38 39	Gross private domestic	799.5 -76.1	721.1 9.0	770.4 -49.9	736.1 -21.5	722.4 -16.0	773.2 -59.4	781.6 49.6	804.3 -74.7
40	Statistical discrepancy.	5.4	21.9	33.4	16.4	29.0	30.9	35.1	38.9

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 noted1

				1991		19	92	
Item	1990	1991	1992	Q4	QI	Q2	Q3 <sup>r</sup>	Q4 <sup>p</sup>
1 Balance on current account 2 Merchandise trade balance 3 Merchandise exports 4 Merchandise imports 5 Military transactions, net 6 Other service transactions, net 1 Investment income, net 8 U.S. government grants 9 U.S. government pensions and other transfers 9 Private remittances and other transfers 9	-90,428 -108,853 388,705 -497,558 -7,818 39,873 19,287 -17,597 -2,945 -12,374	-3,682 -73,436 415,962 -489,398 -5,524 50,821 16,429 24,487 -3,462 -12,996	-62,448 -96,275 439,272 -535,547 -2,503 57,628 10,062 -13,832 -3,736 -13,793	-7,218 -18,539 107,851 -126,390 -540 13,676 2,458 78 -1,080 -3,271	-6,374 <sup>r</sup> -17,663 <sup>r</sup> 107,634 <sup>r</sup> -125,297 <sup>r</sup> -624 14,450 <sup>r</sup> 4,394 <sup>r</sup> -2,620 -830 <sup>r</sup> -3,481 <sup>r</sup>	-18,279 <sup>r</sup> -25,004 <sup>r</sup> 107,148 <sup>r</sup> -132,152 <sup>r</sup> -623 13,242 <sup>r</sup> 1,851 <sup>r</sup> -3,085 -1,119 <sup>r</sup> -3,541 <sup>r</sup>	-15,771 -27,634 110,119 -137,753 -579 16,315 2,977 -2,521 -941 -3,388	-22,020 -25,974 114,371 -140,345 -677 13,625 839 -5,605 -846 -3,382
11 Change in U.S. government assets other than official reserve assets, net (increase, -)	2,304	3,397	-959	-437	-38	-277	-301	-344
12 Change in U.S. official reserve assets (increase, -)	-2,158 0 -192 731 -2,697	5,763 0 -177 -367 6,307	3,901 0 2,316 -2,692 4,277	1,225 0 -23 17 1,232	-1,057 0 -172 111 -996	1,464 0 -168 1 1,631	1,952 0 -173 -118 2,243	1,542 0 2,829 -2,685 1,398
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.	-56,467 7,469 -2,477 -28,765 -32,694	-71,379 -4,753 5,526 -45,017 -27,135	-47,843 32,372 3,742 -48,646 -35,311	-44,947 -23,219 1,269 -11,305 -11,692	-3,614 <sup>r</sup> 15,859 4,764 -8,703 -15,534 <sup>r</sup>	-1,610 <sup>r</sup> 10,943 3,137 -8,221 -7,469 <sup>r</sup>	-22,892 -1,274 -4,159 -13,934 -3,525	-19,726 6,844 -17,788 -8,782
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 26 Other U.S. liabilities reported by U.S. banks 27 Other foreign official assets	33,908 29,576 667 1,866 3,385 -1,586	18,407 15,815 1,301 1,600 -1,668 1,359	40,307 18,333 4,025 2,469 16,168 -688	12,819 12,619 1,075 -344 -914 383	21,192 14,909 540 96 5,534 113	20,895 11,126 1,699 598 7,547 -75	-7,269 -323 912 929 -7,787 -1,000	5,489 -7,379 874 846 10,874 274
28 Change in foreign private assets in United States (increase, +) 29 U.S. bank-reported liabilities 30 U.S. nonbank-reported liabilities 31 Foreign private purchases of U.S. Treasury securities, net 32 Foreign purchases of other U.S. securities, net. 33 Foreign direct investments in United States, net.	65,471 16,370 4,906 -2,534 1,592 45,137	48,573 -13,678 -405 16,241 34,918 11,498	80,093 14,667 4,413 35,077 29,884 -3,948	36,110 23,465 725 1,408 4,832 5,680	-2,577 <sup>r</sup> -4,474 1,942 -828 4,551 -3,768 <sup>r</sup>	26,571 <sup>r</sup> -551 1,141 10,286 10,333 5,362 <sup>r</sup>	29,246 22,905 1,330 4,870 2,693 -2,552	26,854 -3,213  20,749 12,307 -2,989
34 Allocation of special drawing rights 35 Discrepancy 36 Due to seasonal adjustment 37 Before seasonal adjustment	47,370 47,370	-1,078 -1,078	-13,051 -13,052	0 2,447 613 1,835	0 -7,532 <sup>r</sup> 4,901 <sup>r</sup> -12,433	0 -28,764 <sup>r</sup> 1,296 <sup>r</sup> -30,060	0 15,035 -6,640 21,675	0 8,205 439 7,767
MEMO Changes in official assets 38 U.S. official reserve assets (increase, -)	-2,158 32,042	5,763 16,807	3,901 37,838	1,225 13,163	-1,057 21,096	1,464 20,297	1,952 8,198	1,542 4,643
40 Change in Organization of Petroleum Exporting Countries official assets in United States (part of line 22)	1,707	-5,604	5,402	1,023	2,459	-2,125	3,062	2,006

<sup>1.</sup> Seasonal factors not calculated for lines 12-16, 18-20, 22-34, and 38-40.

2. 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 6.

3. Reporting banks include all types of depository institution as well as some brokers and dealers.

<sup>4.</sup> 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, Survey of Current Business.

# A54 International Statistics □ June 1993

# 3.11 U.S. FOREIGN TRADE<sup>1</sup>

Millions of dollars; monthly data seasonally adjusted

	1000	1001	1003			1992			19	93
Item	1990	1991	1992	Aug.	Sept.	Oct.	Nov.	Dec.r	Jan.'	Feb. <sup>p</sup>
Exports of domestic and foreign merchandise, excluding grant-aid shipments	393,592	421,730	448,115	35,799	37,882	39,072	38,187	39,671	37,148	37,181
warehouses	495,311	487,129	532,380	44,974	46,551	46,324	45,535	46,562	44,306	44,378
3 Trade balance	-101,718	-65,399	-84,265	-9,174	-8,669	-7,252	-7,348	-6,891	-7,159	-7,197

<sup>1.</sup> Government and nongovernment shipments of merchandise between foreign countries and the fifty states, including the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and U.S. Foreign Trade Zones. Data exclude (1) shipments among the United States, Puerto Rico, the U.S. Virgin Islands, and other U.S. affiliated insular areas. (2) shipments to U.S. Armed Forces and diplomatic missions abroad for their own use, (3) U.S. goods returned to the United States bits Armed Forces, (4) personal and household effects of travelers, and (5) in-transit shipments. Data reflect the total arrival of merchandise from foreign countries that immediately entered consumption channels, warehouses, or U.S. Foreign Trade Zones (general imports). Import data are Customs value; export data are F.A.S. value. Beginning in 1990, data for U.S. exports to Canada are derived from import data compiled by Canada; similarly, in Canadian statistics, Canadian exports to the United States are derived from import data compiled by

the United States. Since Jan. 1, 1987, merchandise trade data have been released forty-five days after the end of the month; the previous month is revised to reflect late documents.

Data in this table differ from figures for merchandise trade shown in the U.S. balance of payments accounts (table 3.10, lines 2 to 4) primarily for reasons of coverage. For both exports and imports a large part of the difference is the treatment of military sales and purchases. The military sales to foreigners (exports) and purchases from foreigners (imports) that are included in this table as merchandise trade are shifted, in the balance of payments accounts, from "merchandise trade" into the broader category "military transactions."

Source. FT900, U.S. Merchandise Trade, (U.S. Department of Commerce, Bureau of the Census).

#### 3.12 U.S. RESERVE ASSETS

Millions of dollars, end of period

	1000	1000	1001		19	92			1993	
Asset	1989	1990	1991	Sept.	Oct.	Nov.	Dec.	Jan,	Feb.	Mar. <sup>p</sup>
1 Total	74,609	83,316	77,719	78,527	74,207	72,231	71,323	71,962	72,847	74,378
Gold stock, including Exchange     Stabilization Fund     Special drawing rights       Reserve position in International	11,059 9,951	11,058 10,989	11,057 11,240	11,059 12,111	11,060 11,561	11,059 11,495	11,056 8,503	11,055 8,546	11,055 8,651	11,054 8,787
Monetary Fund <sup>2</sup>	9,048 44,551	9,076 52,193	9,488 45,934	9,778 45,579	9,261 42,325	8,781 40,896	11,759 40,005	12,079 40,282	12,021 41,120	12,184 42,353

#### 3.13 FOREIGN OFFICIAL ASSETS HELD AT FEDERAL RESERVE BANKS<sup>1</sup>

	1000	4000	4001		19	92			1993	
Asset	1989	1990	1991	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>p</sup>
1 Deposits	589	369	968	546	415	229	205	325	296	317
Held in custody 2 U.S. Treasury securities <sup>2</sup> 3 Earmarked gold <sup>3</sup>	224,911 13,456	278,499 13,387	281,107 13,303	306,971 13,241	311,538 13,201	308,959 13,192	314,481 13,686	324,356 13,077	329,183 13,074	326,486 12,989

<sup>1.</sup> Excludes deposits and U.S. Treasury securities held for international and

<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 \$42.29 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, 16 currencies were used; since January 1981,

<sup>5</sup> currencies have been used. U.S. SDR holdings and reserve positions in the IMF also have been valued on this basis since July 1974.

3. 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—\$1,139 million; 1980—\$1,152 million; 1981—\$1,093 million; plus net transactions in SDRs.

4. Valued at current market exchange rates.

regional organizations.

2. Marketable U.S. Treasury bills, notes, and bonds and nonmarketable U.S. Treasury securities payable at face value in dollars or foreign currencies.

<sup>3.</sup> Held for foreign and international accounts and valued at \$42.22 per fine troy ounce; not included in the gold stock of the United States.

# 3.14 FOREIGN BRANCHES OF U.S. BANKS Balance Sheet Data<sup>1</sup> Millions of dollars, end of period

						1992			19	93
Account	1989	1990	1991	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct. <sup>r</sup>	Nov.	Dec. <sup>r</sup>	Jan.	Feb.
Assets					All foreign	countries				
1 Total payable in any currency	545,366	556,925	548,901	544,887	545,388	554,253	566,721 <sup>r</sup>	542,286	543,760	554,280
2 Claims on United States 3 Parent hank 4 Other banks in United States 5 Nonbanks 6 Claims on foreigners 7 Other branches of parent bank 8 Banks 9 Public borrowers 10 Nonbank foreigners 11 Other assets	198,835 157,092 17,042 24,701 300,575 113,810 90,703 16,456 79,606 45,956	188,496 148,837 13,296 26,363 312,449 135,003 72,602 17,555 87,289 55,980	176,301 137,509 12,884 25,908 303,934 111,729 81,970 18,652 91,583 68,666	163,103 128,267 9,181 25,655 321,707 116,604 87,347 20,450 97,306 60,077	167,419 134,119 8,083 25,217 320,111 118,952 83,756 20,511 96,892 57,858	174,986 138,940 10,683 25,363 319,139 115,521 86,560 20,809 96,249 60,128	177,443 <sup>r</sup> 141,542 <sup>r</sup> 10,019 <sup>r</sup> 25,882 328,592 <sup>r</sup> 125,143 86,086 <sup>r</sup> 20,378 96,985 60,686 <sup>r</sup>	166,798 132,275 9,703 24,820 318,071 123,256 82,190 20,756 91,869 57,417	169,278 134,217 9,571 25,490 314,737 116,325 81,811 19,984 96,617 59,745	169,765 136,253 9,249 24,263 320,407 117,862 84,439 19,822 98,284 64,108
12 Total payable in U.S. dollars	382,498	379,479	363,941	341,109	347,181	364,080	374,398 <sup>r</sup>	365,800	353,564	361,251
13 Claims on United States 14 Parent bank 15 Other banks in United States 16 Nonbanks 17 Claims on foreigners 18 Other branches of parent bank 19 Banks 20 Public borrowers 21 Nonbank foreigners 22 Other assets	191,184 152,294 16,386 22,504 169,690 82,949 48,396 10,961 27,384 21,624	180,174 142,962 12,513 24,699 174,451 95,298 36,440 12,298 30,415 24,854	169,662 133,476 12,025 24,161 167,010 78,114 41,635 13,685 33,576 27,269	157,469 124,737 8,876 23,856 161,663 70,689 40,350 13,686 36,938 21,977	161,463 130,446 7,476 23,541 166,762 72,348 42,274 13,990 38,150 18,956	169,290 136,156 9,360 23,774 173,457 76,098 45,436 13,966 37,957 21,333	171,938° 138,424° 9,291° 24,223 182,347° 83,902 45,931° 13,995 38,519 20,113°	162,125 129,329 9,266 23,530 183,555 83,117 47,250 14,313 38,875 20,120	164,681 131,553 9,214 23,914 171,041 77,606 41,450 13,883 38,102 17,842	165,234 133,733 8,704 22,797 177,265 80,220 43,067 13,710 40,268 18,752
	United Kingdom									_
23 Total payable in any currency	161,947	184,818	175,599	165,754	161,966	168,063	168,333	165,591	164,360	165,132
24 Claims on United States 25 Parent bank 26 Other banks in United States 27 Nonbanks 28 Claims on foreigners 29 Other branches of parent bank 30 Banks 31 Public borrowers 32 Nonbank foreigners 33 Other assets	39,212 35,847 1,058 2,307 107,657 37,728 36,159 3,293 30,477 15,078	45,560 42,413 792 2,355 115,536 46,367 31,604 3,860 33,705 23,722	35,257 31,931 1,267 2,059 109,692 35,735 36,394 3,306 34,257 30,650	37,511 34,593 744 2,174 108,895 37,732 37,711 3,046 30,406 19,348	35,891 32,929 1,067 1,895 107,675 38,894 36,039 3,371 29,371 18,400	39,558 36,413 1,400 1,745 109,919 40,594 36,701 3,692 28,932 18,586	38,358 35,027 925 2,406 113,193 45,092 34,559 3,370 30,172 16,782	36,403 33,460 1,298 1,645 111,623 46,165 33,399 3,329 28,730 17,565	37,609 34,290 886 2,433 108,362 42,894 33,513 3,059 28,896 18,389	32,380 30,240 783 1,357 112,959 43,856 36,601 2,542 29,960 19,793
34 Total payable in U.S. dollars	103,208	116,762	105,974	99,661	100,664	107,342	109,479	109,449	101,209	99,755
35 Claims on United States 36 Parent bank 37 Other banks in United States 38 Nonbanks 39 Claims on foreigners 40 Other branches of parent bank 41 Banks 42 Public borrowers 43 Nonbank foreigners 44 Other assets	36,404 34,329 843 1,232 59,062 29,872 16,579 2,371 10,240 7,742	41,259 39,609 334 1,316 63,701 37,142 13,135 3,143 10,281 11,802	32,418 30,370 822 1,226 58,791 28,667 15,219 2,853 12,052 14,765	34,948 32,786 625 1,537 55,812 26,825 15,565 2,353 11,069 8,901	33,618 31,578 711 1,329 59,338 28,225 16,800 2,604 11,709 7,708	37,359 35,299 769 1,291 61,658 30,217 17,269 2,515 11,657 8,325	35,956 33,765 438 1,753 65,164 34,434 16,848 2,501 11,381 8,359	34,508 32,186 1,022 1,300 66,335 34,124 17,089 2,349 12,773 8,606	35,481 33,070 684 1,727 59,339 30,823 14,150 2,154 12,212 6,389	30,390 29,020 428 942 63,234 31,395 16,800 1,883 13,156 6,131
	Bahamas and Cayman Islands									
45 Total payable in any currency	176,006	162,316	168,326	144,327	145,786	154,293	156,176 <sup>r</sup>	147,422	144,894	151,175
46 Claims on United States 47 Parent bank 48 Other banks in United States 49 Nonbanks 50 Claims on foreigners 51 Other branches of parent bank 52 Banks 53 Public borrowers 54 Nonbank foreigners 55 Other assets	124,205 87,882 15,071 21,252 44,168 11,309 22,611 5,217 5,031 7,633	112,989 77,873 11,869 23,247 41,356 13,416 16,310 5,807 5,823 7,971	115,244 81,520 10,907 22,817 45,229 11,098 20,174 7,161 6,796 7,853	94,659 64,454 8,060 22,145 41,486 8,596 17,570 7,152 8,168 8,182	96,911 68,309 6,562 22,040 41,884 7,753 18,412 7,128 8,591 6,991	102,726 72,207 8,199 22,320 42,844 7,287 19,840 7,146 8,571 8,723	104,245° 73,856° 8,282° 22,107 44,156° 8,238 20,122° 7,209 8,587 7,775°	96,280 66,608 7,828 21,844 44,509 7,293 21,212 7,786 8,218 6,633	96,976 67,219 7,962 21,795 41,185 7,041 18,464 7,564 8,116 6,733	102,836 73,825 7,892 21,119 40,821 7,311 17,440 7,422 8,648 7,518
56 Total payable in U.S. dollars	170,780	158,390	163,771	138,584	140,104	149,304	151,436 <sup>r</sup>	142,861	140,332	146,809

<sup>1.</sup> Since June 1984, reported claims held by foreign branches have been reduced by an increase in the reporting threshold for "shell" branches from \$50

million to \$150 million equivalent in total assets, the threshold now applicable to all reporting branches.

# 3.14 FOREIGN BRANCHES OF U.S. BANKS Balance Sheet Data<sup>1</sup>—Continued

						1992		<del>.</del>	19	93
Account	1989	1990	1991	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct. <sup>r</sup>	Nov.	Dec. <sup>r</sup>	Jan.	Feb.
Liabilities				•	All foreign	countries				
57 Total payable in any currency	545,366	556,925	548,901	544,887	545,388	554,253	566,721°	542,286	543,760	554,280
58 Negotiable certificates of deposit (CDs) 59 To United States 60 Parent bank	23,500 197,239 138,412 11,704 47,123	18,060 189,412 138,748 7,463 43,201	16,284 198,121 136,431 13,260 48,430	14,246 179,476 126,976 10,971 41,529	12,389 185,380 127,573 12,408 45,399	12,056 188,979 132,999 12,281 43,699	12,342 188,004 <sup>r</sup> 131,806 <sup>r</sup> 13,392 <sup>r</sup> 42,806 <sup>r</sup>	10,032 189,332 134,227 12,182 42,923	12,320 176,112 122,512 12,829 40,771	11,872 184,042 124,010 12,373 47,659
63 To foreigners 64 Other branches of parent bank 65 Banks 66 Official institutions 67 Nonbank foreigners 68 Other liabilities	296,850 119,591 76,452 16,750 84,057 27,777	311,668 139,113 58,986 14,791 98,778 37,785	288,254 112,033 63,097 15,596 97,528 46,242	314,823 120,509 68,522 18,237 107,555 36,342	312,390 120,714 68,493 16,720 106,463 35,229	315,400 118,001 70,439 20,572 106,388 37,818	330,314 126,018 74,536 20,645 109,115 36,061	309,704 125,160 62,189 19,731 102,624 33,218	321,052 120,178 67,843 23,655 109,376 34,276	319,638 119,601 70,056 21,469 108,512 38,728
69 Total payable in U.S. dollars	396,613	383,522	370,561	346,223	346,581	364,969	372,320 <sup>r</sup>	368,212	353,411	363,285
70 Negotiable CDs 71 To United States 72 Parent bank 73 Other banks in United States 74 Nonbanks	19,619 187,286 132,563 10,519 44,204	14,094 175,654 130,510 6,052 39,092	11,909 185,286 129,669 11,707 43,910	8,755 166,609 119,521 9,866 37,222	7,628 171,086 119,714 11,117 40,255	6,710 176,013 125,491 11,409 39,113	7,503 175,857 <sup>r</sup> 124,658 <sup>r</sup> 12,246 <sup>r</sup> 38,953 <sup>r</sup>	6,238 178,562 127,836 11,512 39,214	7,102 164,595 115,894 11,710 36,991	6,640 172,110 117,115 11,418 43,577
75 To foreigners 76 Other branches of parent bank 78 Banks 78 Official institutions 79 Nonbank foreigners 80 Other liabilities	176,460 87,636 30,537 9,873 48,414 13,248	179,002 98,128 20,251 7,921 52,702 14,772	158,993 76,601 24,156 10,304 47,932 14,373	157,482 74,060 22,973 10,713 49,736 13,377	155,266 73,208 22,822 9,939 49,297 12,601	165,960 77,197 25,210 12,097 51,456 16,286	175,293 82,957 28,404 12,342 51,590 13,667	171,676 83,700 26,118 12,430 49,428 11,736	169,077 79,144 23,281 14,094 52,558 12,637	170,756 79,594 25,571 14,034 51,557 13,779
					United K	ingdom			I	
81 Total payable in any currency	161,947	184,818	175,599	165,754	161,966	168,063	168,333	165,591	164,360	165,132
82 Negotiable CDs 83 To United States 84 Parent bank 85 Other banks in United States 86 Nonbanks	20,056 36,036 29,726 1,256 5,054	14,256 39,928 31,806 1,505 6,617	11,333 37,720 29,834 1,438 6,448	8,083 35,527 27,695 1,632 6,200	7,266 35,885 27,528 1,670 6,687	6,064 35,399 27,427 1,341 6,631	5,636 34,532 26,471 1,689 6,372	4,517 39,174 31,100 1,065 7,009	5,774 33,028 25,098 1,742 6,188	5,597 33,092 24,250 1,633 7,209
87 To foreigners 88 Other branches of parent bank 89 Banks 90 Official institutions 91 Nonbank foreigners 92 Other liabilities	92,307 27,397 29,780 8,551 26,579 13,548	108,531 36,709 25,126 8,361 38,335 22,103	98,167 30,054 25,541 9,670 32,902 28,379	104,892 31,234 26,435 10,699 36,524 17,252	101,999 30,756 25,823 9,131 36,289 16,816	109,358 33,696 28,792 11,687 35,183 17,242	113,395 35,560 30,609 11,438 35,788 14,770	107,176 35,983 25,231 12,090 33,872 14,724	111,103 35,376 25,965 14,188 35,574 14,455	110,514 35,143 27,227 12,938 35,206 15,929
93 Total payable in U.S. dollars	108,178	116,094	108,755	98,698	95,652	104,521	105,699	108,170	100,731	101,342
94 Negotiable CDs 95 To United States 96 Parent bank 97 Other banks in United States 98 Nonbanks	18,143 33,056 28,812 1,065 3,179	12,710 34,697 29,955 1,156 3,586	10,076 33,003 28,260 1,177 3,566	5,890 30,357 25,873 1,088 3,396	5,689 30,330 25,700 992 3,638	4,213 31,266 26,021 866 4,379	4,494 30,204 25,160 906 4,138	3,894 35,417 29,957 709 4,751	4,770 28,619 23,766 1,063 3,790	4,444 28,874 23,097 1,097 4,680
99 To foreigners 100 Other branches of parent bank 101 Banks 102 Official institutions 103 Nonbank foreigners 104 Other liabilities	50,517 18,384 12,244 5,454 14,435 6,462	60,014 25,957 9,488 4,692 19,877 8,673	56,626 20,800 11,069 7,156 17,601 9,050	54,381 18,983 9,289 6,956 19,153 8,070	51,916 17,986 9,112 6,156 18,662 7,717	59,938 22,080 10,956 8,142 18,760 9,104	62,899 22,896 13,050 8,459 18,494 8,102	62,048 22,026 12,540 8,847 18,635 6,811	60,033 20,807 9,740 10,114 19,372 7,309	59,643 20,516 10,359 9,967 18,801 8,381
				Bah	namas and C	ayman Islan	ds			
105 Total payable in any currency	176,006	162,316	168,326	144,327	145,786	154,293	156,176 <sup>r</sup>	147,422	144,894	151,175
106         Negotiable CDs           107         To United States           108         Parent bank           109         Other banks in United States           110         Nonbanks	678 124,859 75,188 8,883 40,788	646 114,738 74,941 4,526 35,271	1,173 129,872 79,394 10,231 40,247	1,814 106,049 64,190 8,522 33,337	872 109,296 63,057 9,801 36,438	1,394 114,327 69,537 10,303 34,487	1,939 116,587 <sup>r</sup> 71,269 <sup>r</sup> 10,944 <sup>r</sup> 34,374 <sup>r</sup>	1,350 111,749 67,235 10,445 34,069	1,355 108,037 65,009 10,265 32,763	1,142 110,616 62,223 10,059 38,334
111 To foreigners 112 Other branches of parent bank 113 Banks 114 Official institutions 115 Nonbank foreigners 116 Other liabilities	47,382 23,414 8,823 1,097 14,048 3,087	44,444 24,715 5,588 622 13,519 2,488	35,200 17,388 5,662 572 11,578 2,081	34,883 17,315 6,244 935 10,389 1,581	34,060 16,071 6,788 984 10,217 1,558	34,896 15,441 6,988 1,058 11,409 3,676	35,411 16,287 7,574 932 10,618 2,239	32,556 15,169 6,422 805 10,160 1,767	33,766 15,411 6,350 932 11,073 1,736	37,690 18,056 7,967 1,036 10,631 1,727
117 Total payable in U.S. dollars	171,250	157,132	163,603	139,100	140,298	149,320	151,527 <sup>r</sup>	143,150	140,734	146,875

#### 3.15 SELECTED U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS

Millions of dollars, end of period

								_	
No.	1000	1991				1993			
Item	1990		Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>r</sup>	Feb. <sup>p</sup>
1 Total <sup>1</sup>	344,529	360,530	407,154	393,687	405,465	394,845	398,672	411,816	412,534
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>	39,880 79,424 202,487 4,491 18,247	38,396 92,692 203,677 4,858 20,907	52,561 113,307 213,407 4,476 23,403	43,604 113,634 208,924 4,505 23,020	60,933 104,286 211,875 4,473 23,898	54,007 100,702 211,272 4,503 24,361	54,823 104,596 210,553 4,532 24,168	63,791 111,540 207,588 4,563 24,334	65,753 113,594 203,224 4,592 25,371
By area 7 Western Europe <sup>1</sup> 8 Canada 9 Latin America and Caribbean 10 Asia. 11 Africa 12 Other countries <sup>6</sup>	167,191 8,671 21,184 138,096 1,434 7,955	168,365 7,460 33,554 139,465 2,092 9,592	196,511 9,990 38,389 151,785 2,860 7,617	186,364 7,027 37,736 151,667 3,360 7,531	194,551 8,111 38,678 153,555 3,481 7,087	184,207 6,381 38,945 154,493 3,779 7,038	188,693 7,920 40,015 152,148 3,565 6,329	196,239 8,411 41,388 156,211 3,705 5,860	198,958 7,886 42,502 154,015 3,866 5,305

5. Debt securities of U.S. government corporations and federally sponsored agencies, and U.S. corporate stocks and bonds.
6. Includes countries in Oceania and Eastern Europe.
SOURCE. Based on Treasury Department data and on data reported to the Treasury Department by banks (including Federal Reserve Banks) and securities dealers in the United States and on the 1984 benchmark survey of foreign portfolio investment in the United States.

# 3.16 LIABILITIES TO, AND CLAIMS ON, FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in Foreign Currencies

Item	1989	1990	1991	1992 <sup>r</sup>					
				Mar.	June	Sept.	Dec.		
Banks' liabilities.     Banks' claims     Deposits     Other claims     Claims of banks' domestic customers <sup>2</sup>	67,835 65,127 20,491 44,636 3,507	70,477 66,796 29,672 37,124 6,309	75,129 73,195 26,192 47,003 3,398	68,434 60,424 23,270 37,154 2,962	71,240 58,262 23,466 34,796 4,375	84,487 72,003 28,074 43,929 3,987	73,225 62,740 24,186 38,554 4,432		

<sup>1.</sup> Data on claims exclude foreign currencies held by U.S. monetary

Includes the Bank for International Settlements.
 Principally demand deposits, time deposits, bankers acceptances, commercial paper, negotiable time certificates of deposit, and borrowings under repurchase agreements.
 Includes nonmarketable certificates of indebtedness (including those payable in foreign currencies through 1974) and Treasury bills issued to official institutions of foreign countries.

<sup>4.</sup> Excludes notes issued to foreign official nonreserve agencies. Includes bonds and notes payable in foreign currencies; zero coupon bonds are included at

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

-		1000	4004	10021			1992 <sup>r</sup>			19	993
	Item	1990	1991	1992 <sup>r</sup>	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.p
	Holder and Type of Liability										
1	Total, all foreigners	759,634	756,066	809,886	769,519	795,856	793,298	799,590	809,886	801,355	813,245
2 3 4 5 6	Banks' own liabilities Demand deposits Time deposits Other' Own foreign offices <sup>4</sup>	577,229 21,723 168,017 65,822 321,667	575,374 20,321 159,649 66,305 329,099	606,135 21,815 160,541 93,614 330,165	564,732 21,678 143,663 87,631 311,760	587,139 22,479 143,336 84,107 337,217	590,791 21,302 157,488 92,315 319,686	601,073 21,935 156,814 96,294 326,030	606,135 21,815 160,541 93,614 330,165	591,971 21,118 150,310 103,607 316,936	604,524 22,325 147,669 105,048 329,482
7 8 9	Banks' custodial liabilities <sup>5</sup>	182,405 96,796	180,692 110,734	203,751 127,649	204,787 135,744	208,717 134,894	202,507 127,993	198,517 122,480	203,751 127,649	209,384 133,799	208,721 135,399
10	instruments <sup>7</sup> Other	17,578 68,031	18,664 51,294	21,982 54,120	18,541 50,502	19,349 54,474	20,043 54,471	21,755 54,282	21,982 54,120	22,969 52,616	20,735 52,587
11 12 13 14 15	Nonmonetary international and regional organizations and an analysis and some some some some some some some some	5,918 4,540 36 1,050 3,455	8,981 6,827 43 2,714 4,070	9,350 6,951 46 3,214 3,691	12,914 9,807 21 2,620 7,166	11,285 8,648 24 2,577 6,047	10,727 7,001 73 1,899 5,029	9,915 6,982 58 2,561 4,363	9,350 6,951 46 3,214 3,691	11,086 7,824 39 2,796 4,989	11,308 8,654 47 2,321 6,286
16 17 18	Banks' custodial liabilities <sup>5</sup>	1,378 364	2,154 1,730	2,399 1,908	3,107 2,654	2,637 1,991	3,726 3,085	2,933 2,371	2,399 1,908	3,262 2,774	2,654 2,348
19	Other	1,014 0	424 0	486 5	453 0	646 0	641 0	561 1	486 5	488 0	306 0
20 21 22 23 24	Official institutions <sup>9</sup> Banks' own liabilities Demand deposits Time deposits <sup>2</sup> Other <sup>3</sup>	119,303 34,910 1,924 14,359 18,628	131,088 34,411 2,626 16,504 15,281	159,419 51,058 1,274 17,828 31,956	165,868 49,009 1,676 18,039 29,294	157,238 40,453 1,761 16,125 22,567	165,219 57,225 1,723 19,741 35,761	154,709 50,027 1,492 17,834 30,701	159,419 51,058 1,274 17,828 31,956	175,331 59,576 1,396 18,685 39,495	179,347 61,986 1,763 19,158 41,065
25 26 27	Banks' custodial liabilities <sup>5</sup>	84,393 79,424	96,677 92,692	108,361 104,596	116,859 113,307	116,785 113,634	107,994 104,286	104,682 100,702	108,361 104,596	115,755 111,540	117,361 113,594
28	instruments <sup>7</sup> Other	4,766 203	3,879 106	3,726 39	3,466 86	2,922 229	3,595 113	3,784 196	3,726 39	4,054 161	3,648 119
29 30 31 32 33 34 35	Banks'0 Banks' own liabilities Unaffiliated foreign banks Demand deposits Time deposits' Other'. Own foreign offices <sup>4</sup>	540,805 458,470 136,802 10,053 88,541 38,208 321,667	522,265 459,335 130,236 8,648 82,857 38,731 329,099	546,388 475,236 145,071 10,164 90,413 44,494 330,165	501,940 435,244 123,484 9,821 72,820 40,843 311,760	537,936 466,617 129,400 10,443 74,075 44,882 337,217	525,221 454,183 134,497 9,741 85,729 39,027 319,686	543,980 472,949 146,919 10,088 87,690 49,141 326,030	546,388 475,236 145,071 10,164 90,413 44,494 330,165	521,800 453,027 136,091 9,920 80,562 45,609 316,936	529,700 462,202 132,720 10,995 78,228 43,497 329,482
36 37 38	Banks' custodial liabilities <sup>5</sup>	82,335 10,669	62,930 7,471	71,152 11,087	66,696 10,429	71,319 10,905	71,038 10,481	71,031 10,444	71,152 11,087	68,773 9,685	67,498 9,296
39	Other negotiable and readily transferable instruments <sup>7</sup> Other	5,341 66,325	5,694 49,765	7,568 52,497	6,920 49,347	7,373 53,041	7,325 53,232	7,572 53,015	7,568 52,497	7,708 51,380	6,692 51,510
40 41 42 43 44	Other foreigners Banks' own liabilities Demand deposits Time deposits Other <sup>3</sup>	93,608 79,309 9,711 64,067 5,530	93,732 74,801 9,004 57,574 8,223	94,729 72,890 10,331 49,086 13,473	88,797 70,672 10,160 50,184 10,328	89,397 71,421 10,251 50,559 10,611	92,131 72,382 9,765 50,119 12,498	90,986 71,115 10,297 48,729 12,089	94,729 72,890 10,331 49,086 13,473	93,138 71,544 9,763 48,267 13,514	92,890 71,682 9,520 47,962 14,200
45 46 47	Banks' custodial liabilities <sup>5</sup> U.S. Treasury bills and certificates <sup>6</sup> Other negotiable, and readily transferable instruments' Other	14,299 6,339	18,931 8,841	21,839 10,058	18,125 9,354	17,976 8,364	19,749 10,141	19,871 8,963	21,839 10,058	21,594 9,800	21,208 10,161
48	instruments Other	6,457 1,503	8,667 1,423	10,202 1,579	7,702 1,069	8,408 1,204	8,482 1,126	9,838 1,070	10,202 1,579	10,719 1,075	10,089 958
49	MEMO Negotiable time certificates of deposit in custody for foreigners.	7,073	7,456	9,114	7,279	7,452	7,672	7,716	9,114	9,724	9,499

<sup>1.</sup> Reporting banks include all types of depository institution, as well as some brokers and dealers.
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 due to own foreign branches and foreign subsidiaries consolidated in Consolidated Report of Condition filed with bank regulatory agencies. For agencies, branches, and majority-owned subsidiaries of foreign banks, consists principally of amounts due to head office or parent foreign bank, and foreign branches, agencies, or wholly owned subsidiaries of 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.

<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 deposit.
8. 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.
9. Foreign central banks, foreign central governments, and the Bank for International Settlements.
10. Excludes central banks, which are included in "Official institutions."

						1992			11	993
ltem	1990	1991	1992 <sup>r</sup>	Aug.	Sept.	Oct.	Nov.	Dec.r	Jan.	Feb.p
Area										
1 Total, all foreigners	759,634	756,066	809,886	769,519 <sup>t</sup>	795,856 <sup>r</sup>	793,298 <sup>r</sup>	799,590°	809,886	801,355	813,245
2 Foreign countries	753,716	747,085	800,536	756,605°	784,571°	782,571°	789,675°	800,536	790,269	801,937
3 Europe 4 Austria 5 Belgium and Luxembourg 6 Denmark 7 Finland 8 France 9 Germany 10 Greece 11 Italy 12 Netherlands. 13 Norway 14 Portugal 15 Spain. 16 Sweden. 17 Switzerland.	254,452 1,229 12,382 1,399 602 30,946 7,485 934 17,735 5,350 2,357 2,958 7,544 1,837 36,690	249,097 1,193 13,337 937 1,341 31,808 8,619 765 13,541 7,161 1,866 2,184 11,391 2,222 37,238	308,391 1,613 20,572 3,060 1,299 41,459 18,631 910 10,041 7,372 3,319 2,465 9,789 2,986 39,440	289,957 <sup>t</sup> 1,427 18,455 <sup>t</sup> 1,329 976 29,461 <sup>t</sup> 11,032 934 10,992 10,432 <sup>t</sup> 1,341 2,664 14,904 4,162 40,569	290,435° 1,456 17,948° 1,760 685 32,158° 14,739 1,069 12,236 10,407° 1,851 2,245 15,589 33,194 39,314	306,547° 1,584 21,183° 1,788 949 34,881° 872 11,104 8,962° 1,577 2,258 14,602 5,312° 38,240°	311,875° 1,358 19,662° 1,481 1,144 39,968° 15,401 749 12,494 8,411 2,014 2,255 10,383 4,485 40,791	308,391 1,613 20,572 3,060 1,299 41,459 18,631 910 10,041 7,372 3,319 2,465 9,789 2,986 39,440	303,695 1,158 21,255 1,885 1,862 34,285 20,685 8,750 8,731 3,550 2,518 14,865 2,962 41,555	304,126 1,937 19,624 2,835 2,049 31,740 18,715 758 10,704 11,778 2,521 2,508 17,163 2,046 39,490
18   Turkey	1,169 109,555 928 11,689 119 1,545	1,598 100,292 622 9,274 241 3,467	2,666 112,434 504 25,832 577 3,422	2,021 111,569 <sup>r</sup> 554 22,372 <sup>r</sup> 525 4,238	2,087 115,817 <sup>r</sup> 567 12,867 499 3,947	2,524 114,705 <sup>r</sup> 577 27,228 450 3,941	2,360 117,353 <sup>r</sup> 575 26,691 601 3,699	2,666 112,434 504 25,832 577 3,422	2,533 106,700 506 25,926 436 2,718	2,862 105,885 512 28,170 447 2,382
24 Canada	20,349	21,605	22,746	20,410	22,668	21,378	22,052	22,746	21,467	22,870
25 Latin America and Caribbean         26 Argentina         27 Bahamas         28 Bermuda         29 Brazil         30 British West Indies         31 Chile         32 Colombia         33 Cuba         34 Ecuador         35 Guatemala         36 Jamaica         37 Mexico         38 Netherlands Antilles         39 Panama         40 Peru         41 Uruguay         42 Venezuela         43 Other	332,997 7,365 107,386 2,822 5,834 147,321 3,145 4,492 11 1,379 1,541 257 16,650 7,357 4,574 1,294 2,520 12,271 6,779	345,529 7,753 100,622 3,178 5,704 163,620 3,283 4,661 2 1,232 1,594 231 19,957 5,592 4,695 1,249 2,096 13,181 6,879	315,990 9,476 82,213 7,079 5,584 151,934 3,030 4,579 3 987 1,375 19,432 5,208 4,190 1,068 1,955 11,370 6,136	311,047'c 9,397 82,567' 4,782 5,283 148,212' 3,393 4,711 9 1,214 1,432 272 20,046 4,825 4,303' 1,136' 2,182 10,802 6,481	316,995' 9,065 77,633' 4,275 5,393 159,838' 3,440 4,792 33 1,073 1,416 309 19,650 4,751 4,596' 1,152' 2,019 11,101 6,459	310,015' 9,387 85,878' 5,889 5,828 143,311' 3,253 4,767 10 1,026 1,376 274 19,216' 4,708 4,116' 1,141' 2,087 11,504 6,244'	309,750° 8,715 86,310° 6,355° 5,235 143,084° 2,925 4,677 11 1,016 1,323 271 19,543 6,101 3,976° 1,047° 2,092 11,003 6,066°	315,990 9,476 82,213 7,079 5,584 151,934 3,030 4,579 3 987 1,375 371 19,432 5,208 4,190 1,068 1,955 11,370 6,136	313.071 10.790 84,557 6,319 5,321 146,875 3,638 4,438 2 945 1,311 20,023 4,352 4,013 1,052 1,898 11,106 6,137	319,446 10,606 86,848 6,473 5,551 149,158 3,420 4,417 3 886 1,311 4,209 1,045 2,098 10,943 6,121
44 AsiaChina	136,844	120,462	143,359	125,248 <sup>r</sup>	144,793 <sup>r</sup>	134,385 <sup>r</sup>	136,111 <sup>r</sup>	143,359	141,524	144,656
45	2,421 11,246 12,754 1,233 1,238 2,767 67,076 2,287 1,585 1,443 15,829 16,965	2,626 11,491 14,269 2,418 1,463 2,015 47,069 2,587 2,449 2,252 15,752 16,071	4,343 7,239 18,445 1,396 1,480 3,775 58,332 3,336 2,275 5,582 21,446 15,710	2,508 10,362 17,798 <sup>7</sup> 1,480 958 2,620 45,693 <sup>7</sup> 3,644 1,920 4,624 18,938 14,703	2,480 9,431 <sup>r</sup> 18,682 <sup>r</sup> 1,507 2,613 64,606 <sup>r</sup> 3,673 <sup>r</sup> 2,028 4,517 19,977 13,907	2,582 8,616 <sup>r</sup> 17,542 <sup>r</sup> 1,234 1,260 <sup>r</sup> 2,208 56,101 <sup>r</sup> 3,529 <sup>r</sup> 2,275 5,082 19,040 14,916 <sup>r</sup>	2,559 <sup>r</sup> 8,750 <sup>r</sup> 16,322 <sup>r</sup> 1,210 <sup>r</sup> 1,217 <sup>r</sup> 3,691 55,356 <sup>r</sup> 3,698 <sup>r</sup> 2,223 <sup>r</sup> 5,797 20,266 15,022	4,343 7,239 18,445 1,396 1,480 3,775 58,332 3,336 2,275 5,582 21,446 15,710	4,103 7,940 17,510 1,323 1,392 3,389 56,007 3,415 2,350 5,722 19,877 18,496	4,442 7,641 19,363 1,377 1,462 3,394 58,935 3,459 2,746 5,375 20,498 15,964
57 Africa 58 Egypt 59 Morocco 60 South Africa 61 Zaire 62 Oil-exporting countries 15 63 Other	4,630 1,425 104 228 53 1,110 1,710	4,825 1,621 79 228 31 1,082 1,784	5,881 2,472 76 190 19 1,346 1,778	5,314 2,143 93 275 24 1,090 1,689	5,592 2,243 100 190 14 1,339 1,706	5,843 2,598 98 240 24 1,201 1,682	6,062 2,601 93 214 23 1,402 1,729	5,881 2,472 76 190 19 1,346 1,778	5,913 2,756 88 158 25 1,125 1,761	6,364 3,077 92 319 17 1,135 1,724
64 Other	4,444 3,807 637	5,567 4,464 1,103	4,169 3,047 1,122	4,629 3,322 1,307	4,088 2,927 1,161	4,403 2,987 1,416	3,825 2,654 1,171	4,169 3,047 1,122	4,599 3,502 1,097	4,475 3,388 1,087
67 Nonmonetary international and regional organizations. 68 International 6 69 Latin American regional 7 70 Other regional 8	5,918 4,390 1,048 479	8,981 6,485 1,181 1,315	9,350 7,434 1,415 501	12,914 <sup>r</sup> 9,701 <sup>r</sup> 2,309 <sup>r</sup> 904	11,285 <sup>r</sup> 8,204 <sup>r</sup> 2,274 <sup>r</sup> 807	10,727 <sup>r</sup> 7,689 2,130 <sup>r</sup> 908	9,915 <sup>r</sup> 6,764 <sup>r</sup> 2,248 <sup>r</sup> 903	9,350 7,434 1,415 501	11,086 7,851 2,327 908	11,308 8,627 1,738 943

<sup>11.</sup> Beginning December 1992, excludes Bosnia, Croatia, and Slovenia.
12. Includes the Bank for International Settlements and Eastern European countries not listed in line 23. Beginning December 1992, includes, in addition, all former parts of the U.S.S.R. (except Russia), and Bosnia, Hercegovina, Croatia, and Slovenia.
13. Comprises Bulgaria, Czechoslovakia, Hungary, Poland, and Romania.
14. Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).

<sup>15.</sup> Comprises Algeria, Gabon, Libya, and Nigeria.
16. Principally the International Bank for Reconstruction and Development.
Excludes "holdings of dollars" of the International Monetary Fund.
17. Principally the Inter-American Development Bank.
18. Asian, African, Middle Eastern, and European regional organizations, except the Bank for International Settlements, which is included in "Other Western Europe."

#### 3.18 BANKS' OWN CLAIMS ON FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

Area and assistant	1990	1991	1992 <sup>r</sup>			1992			1993	
Area and country	1990	1991	1992	Aug.	Sept. <sup>r</sup>	Oct.r	Nov. <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb.p
1 Total, all foreigners	511,543	514,339	495,675	480,163 <sup>r</sup>	486,071	493,689	490,721	495,675	483,873	492,977
2 Foreign countries	506,750	508,056	490,593	475,774 <sup>r</sup>	481,900	491,217	487,840	490,593	480,773	488,869
3 Europe	113,093	114,310	124,085	119,248 <sup>r</sup>	117,349	126,170	122,143	124,085	117,252	124,744
4 Austria	362 5,473	327 6,158	341 6,404	631 <sup>r</sup> 6,353 <sup>r</sup>	367 7,533	414 6,980	463 6,423	341 6,404	366 6,473	535 5,919
6 Denmark	497	686	707	906	1,012	830	1,056	707	705	785
7 Finland	1,047	1,907	1,419	1,081	1,299	817	1,230	1,419	1,275	1,226
8 France	14,468 3,343	15,112 3,371	14,847	13,091 <sup>r</sup> 4,728 <sup>r</sup>	15,084 4,075	16,111 5,629	15,718 5,328	14,847 4,229	14,012 5,545	14,760 5,370
9 Germany 0 Greece	727	553	4,229 718	601 <sup>r</sup>	589	583	598	7,229	669	668
I Italy	6,052	8,242	9,048	9,874 <sup>r</sup>	9,485	9,752	9,443	9,048	8,716	8,466
2 Netherlands	1,761 782	2,546 669	2,497 356	2,075 707	1,980 639	2,334 666	3,006 435	2,497 356	2,927 649	3,254 750
3 Norway	292	344	325	387	383	327	330	325	390	494
5 Spain	2,668	1,881	2,772	2,590	3,304	4,642	3,481	2,772	2,596	4,158
6 Sweden	2,094 4,202	2,335 4,540	4,929 4,722	6,567 3,924 <sup>r</sup>	5,494 3,102	6,678 3,688	5,786 3,591	4,929 4,722	5,340 4,493	5,155 4,971
7 Switzerland	1,405	1,063	962	1,002	986	1,177	950	962	1,071	1.041
Q United Kingdom	65,151	60,395	63,934	58,878 <sup>r</sup>	56,483	60,209	58,991	63,934	56,202	61,313
0 Yugoslavia <sup>2</sup>	1,142	825 789	569 1,706	678	674	668	661	569 1,706	571 1,607	567 1,597
2 Russia	597 530	1,970	3,148	1,351 <sup>r</sup> 3,280	1,211 3,199	959 3,190	1,019 3,174	3,148	3,154	3,162
7 Yugoslavia <sup>2</sup> . 1 Others in Western Europe <sup>3</sup> . 2 Russia. 3 Other Eastern Europe <sup>4</sup> .	499	597	452	544	450	516	460	452	491	553
4 Canada	16,091	15,113	14,185	15,156 <sup>r</sup>	15,862	16,830	15,834	14,185	16,482	14,972
5 Latin America and Caribbean	231,506	246,137	213,780	217,721 <sup>r</sup>	210,580	213,423	217,040	213,780	218,416	210,752
6 Argentina	6,967	5,869 87,138	4,882 59,532	4,784 <sup>r</sup> 62,673 <sup>r</sup>	4,553 58,588	4,564 64,853	4,605 65,139	4,882 59,532	4,805 62,831	4,859 63,863
7 Bahamas 8 Bermuda	76,525 4,056	2,270	5,934	6,302	3,567	2,798	6,035	5,934	6,797	2,851
9 Brazil	17,995	11,894	10,737	12.286	11,308	11,558	11,583	10,737	10,926	10,506
0 British West Indies	88,565 3,271	107,846 2,805	98,738 3,397	99,960 <sup>r</sup> 3,203 <sup>r</sup>	99,580 3,300	96,906 3,323	96,325 3,309	98,738 3,397	100,926 3,690	94,906 3,795
1 Chile	2,587	2,425	2,750	2,322	2,475	2,595	2,698	2,750	2,753	2,819
3 Cuba	0	0	0	0	0	5	0	0	0	0
4 Ecuador	1,387	1,053 228	884 262	949	924	936	926 255	884	853	835
5 Guatemala	191 238	158	167	186 <sup>r</sup>   150	235 160	275 147	162	262 167	240 170	257 164
7 Mexico	14,851	16,567	15,049	16,523 <sup>r</sup>	17,234	16,621	16,495	15,049	15,225	15,988
8 Netherlands Antilles	7,998	1,207	1,379	966	1,045	1,080	1,529	1,379	1,736	1,938
9 Panama	1,471 663	1,560 739	4,474 730	2,025 <sup>r</sup> 700 <sup>r</sup>	1,937 724	1,979 713	2,080 723	4,474 730	2,027 735	2,304 708
1 Uruguay	786	599	936	799	921	882	877	936	895	844
2 Venezuela	2,571	2,516	2,525	2,583 <sup>r</sup>	2,653	2,700	2,880	2,525	2,414	2,485
3 Other	1,384	1,263	1,404	1,310	1,376	1,488	1,419	1,404	1,393	1,630
4 Asia	138,722	125,262	131,248	116,701 <sup>r</sup>	131,011	127,358	126,143	131,248	121,729	130,913
5 People's Republic of China	620 1,952	747 2.087	906 2,046	696 1,983	636 2,054	978 1,848	624 1,653	906 2,046	774 1,683	892 1,585
6 Republic of China (Taiwan)	10,648	9,617	9,673	7,986 <sup>r</sup>	10,057	9,095	9,287	9,673	9,145	10,283
8 India	655	441	529	528	499	500	539	529	532	550
9 Indonesia	933 774	952 860	1,189 820	1,108 920	1,089 800	1,112 826	1,135 937	1,189 820	1,323 877	1,291 809
U Israel	90,699	84,807	78,609	71,689	83,527	80,253	77,676	78,609	74,593	79,650
2 Korea (South)	5,766	6.048	6,170	6,201	6,247	6,113	6,288	6,170	6,062	6,753
3 Philinnines	1,247	1,910	2,145	1,776	2,144	2,181	2,034	2,145	1,871	1,842
4 Thailand	1,573 10,749	1,713 8,284	1,867 18,559	1,691 14,783	1,795 14,613	1,764 15,488	1,873 16,858	1,867 18,559	1,796 17,083	1,737 17,775
4 Thailand 5 Middle Eastern oil-exporting countries <sup>5</sup>	13,106	7,796	8,735	7,340	7,550	7,200	7,239	8,735	5,990	7,746
7 Africa	5,445	4,928	4,289	4,455	4,333	4,303	4,233	4,289	4,262	4,143
8 Egypt	380	294	194	243	256	229	214	194	171	291
9 Morocco	513 1,525	575 1,235	441	483	467	452	443	441	421	403
0 South Africa	1,323	1,433	1,041	1,066	1,055	1,036 4	1,063 4	1,041 4	1,069 3	1,030 3
2 Oil-exporting countries <sup>6</sup>	1,486	1,298	1,004	1,130	1,067	1,056	1,029	1,004	1,067	1,104
	1,525	1,522	1,605	1,529	1,484	1,526	1,480	1,605	1,531	1,312
4 Other 5 Australia	1,892 1,413	2,306 1,665	3,006 2,263	2,493 1,463	2,765 1,765	3,133 1,951	2,447 1,601	3,006 2,263	2,632 1,896	3,345 2,552
6 Other	479	641	743	1,030	1,000	1,182	846	743	736	2,552 793
7 Nonmonetary international and regional	j									
r rommonetary international allu IÇKIVIIII	4,793	6,283	5,082	4,389	4,171	2,472	2,881	5,082	3,100	4,108

Reporting banks include all types of depository institutions, as well as some brokers and dealers.
 Beginning December 1992, excludes Bosnia, Croatia, and Slovenia.
 Includes the Bank for International Settlements and Eastern European countries not listed in line 23. Beginning December 1992, includes, in addition, all former parts of the U.S.S.R. (except Russia), and Bosnia, Hercegovina, Croatia, and Slovenia.

Comprises Bulgaria, Czechoslovakia, Hungary, Poland, and Romania.
 Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
 Comprises Algeria, Gabon, Libya, and Nigeria.
 Excludes the Bank for International Settlements, which is included in "Other Western 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

QL:	1000	1001	1002			1992 <sup>r</sup>			19	193
Claim	1990	1991	1992 <sup>r</sup>	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>r</sup>	Feb.p
1 Total	579,044	579,683	555,659		548,286			555,659		
2 Banks' claims. 3 Foreign public borrowers 4 Own foreign offices' 5 Unafflitated foreign banks 6 Deposits 7 Other 8 All other foreigners.	511,543 41,900 304,315 117,272 65,253 52,019 48,056	514,339 37,126 318,800 116,602 69,018 47,584 41,811	495,675 31,353 299,677 109,976 61,172 48,804 54,669	480,163 32,370 288,020 106,377 56,290 50,087 53,396	486,071 31,504 298,287 105,768 54,315 51,453 50,512	493,689 32,056 298,056 112,224 60,856 51,368 51,353	490,721 30,955 290,974 112,512 61,999 50,513 56,280	495,675 31,353 299,677 109,976 61,172 48,804 54,669	483,873 33,148 290,862 101,989 53,629 48,360 57,874	492,977 30,454 303,726 102,434 51,020 51,414 56,363
9 Claims of banks' domestic customers <sup>3</sup> 10 Deposits	67,501 14,375	65,344 15,280	59,984 15,452		62,215 15,348		• • • •	59,984 15,452		
instruments <sup>4</sup>	41,333 11,792	37,125 12,939	31,400 13,132		33,687 13,180			31,400 13,132		
MEMO 13 Customer liability on acceptances	13,628	8,974	8,682		8,540			8,682		
14 Dollar deposits in banks abroad, reported by nonbanking business enterprises in the United States <sup>3</sup>	44,638	40,146 <sup>r</sup>	33,562	33,932	34,692	34,522	33,708	33,562	36,087	n.a.

<sup>1.</sup> For banks' claims, data are monthly; for claims of banks' domestic custom-

foreign bank, and foreign branches, agencies, or wholly owned subsidiaries of

toreign bank, and foreign branches, agencies, or wholly owned subsidiaries of head office or parent foreign bank.

3. Assets held by reporting banks for the account of their domestic customers.

4. Principally negotiable time certificates of deposit and bankers acceptances.

5. Includes demand and time deposits and negotiable and nonnegotiable certificates of deposit denominated in U.S. dollars issued by banks abroad. For description of changes in data reported by nonbanks, see Federal Reserve Bulletin, vol. 65 (July 1979), p. 550.

#### 3.20 BANKS' OWN CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Banks in the United States1 Payable in U.S. Dollars

Mark Start Language Language	1000	1000	1001	1992						
Maturity, by borrower and area	1989	1990	1991	Mar. <sup>r</sup>	Juner	Sept.r	Dec.p			
1 Total	238,123	206,903	195,302	194,450	196,768	187,398	195,682			
By borrower  2 Maturity of one year or less <sup>2</sup> 3 Foreign public borrowers  4 All other foreigners  5 Maturity of more than one year <sup>2</sup> 6 Foreign public borrowers  7 All other foreigners	178,346	165,985	162,573	161,566	162,433	155,254	164,131			
	23,916	19,305	21,050	20,253	20,528	17,863	17,867			
	154,430	146,680	141,523	141,313	141,905	137,391	146,264			
	59,776	40,918	32,729	32,884	34,335	32,144	31,551			
	36,014	22,269	15,859	16,182	15,145	13,295	13,206			
	23,762	18,649	16,870	16,702	19,190	18,849	18,345			
By area Maturity of one year or less² 8 Europe	53,913	49,184	51,835	52,911	54,997	55,986	53,952			
	5,910	5,450	6,444	6,958	7,986	5,949	6,118			
	53,003	49,782	43,597	48,536	49,094	45,241	50,325			
	57,755	53,258	51,059	43,645	41,409	40,824	45,862			
	3,225	3,040	2,549	2,470	2,127	2,183	1,810			
	4,541	5,272	7,089	7,046	6,820	5,071	6,064			
Maturity of more than one year'   Europe	4,121	3,859	3,878	4,315	6,752	6,625	5,360			
	2,353	3,290	3,595	3,289	3,158	3,227	3,290			
	45,816	25,774	18,277	18,120	16,827	15,092	15,149			
	4,172	5,165	4,459	4,714	4,979	4,815	4,977			
	2,630	2,374	2,335	2,207	2,356	2,107	2,364			
	684	456	185	239	263	278	411			

<sup>1.</sup> Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.

For banks' claims, data are monthly; for claims of banks' domestic customers, data are quarterly.
 Reporting banks include all types of depository institution, as well as some brokers and dealers.
 For U.S. banks, includes amounts due from own foreign branches and foreign subsidiaries consolidated in Consolidated Report of Condition filed with bank regulatory agencies. For agencies, branches, and majority-owned subsidiaries of foreign banks, consists principally of amounts due from head office or parent

Maturity is time remaining to maturity.
 Includes nonmonetary international and regional organizations.

# 3.21 CLAIMS ON FOREIGN COUNTRIES Held by U.S. Offices and Foreign Branches of U.S.-Chartered Banks<sup>1</sup> Billions of dollars, end of period

			1990		19	91			19	92	
Area or country	1988	1989	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.p
1 Total	346.3r	338.8	317.8	325.3	320.4	335.7	341.5	347.8°	357.5°	344.3 <sup>r</sup>	345.1
2 G-10 countries and Switzerland 3 Belgium and Luxembourg. 4 France. 5 Germany. 6 Italy. 7 Netherlands. 8 Sweden. 9 Switzerland. 10 United Kingdom. 11 Canada. 12 Japan.	152.7 9.0 10.5 10.3 6.8 2.7 1.8 5.4 66.2 5.0 34.9	152.9 6.3 11.7 10.5 7.4 3.1 2.0 7.1 67.2 5.4 32.2	132.1 5.9 10.4 10.6 5.0 3.0 2.2 4.4 60.8 5.9 23.9	129.9 6.2 9.7 8.8 4.0 3.3 2.0 3.7 62.3 6.8 23.2	129.8 6.1 10.5 8.3 3.6 3.3 2.5 3.3 59.5 8.2 24.6	134.0 5.8 11.1 9.7 4.5 3.0 2.1 3.9 64.9 5.8 23.2	137.2 6,0 11.0 8.3 5.6 4.7 1.9 3.4 68.5 5.8 22.2	130.6 <sup>r</sup> 5.3 10.0 8.4 5.4 4.3 1.9 <sup>r</sup> 3.2 64.8 6.6 <sup>r</sup> 20.7	135.7 <sup>r</sup> 6.2 12.0 <sup>r</sup> 8.8 <sup>r</sup> 8.0 3.3 1.9 4.6 65.8 <sup>r</sup> 6.7 18.3	137.2 <sup>r</sup> 6.2 15.5 <sup>r</sup> 10.9 6.4 3.7 2.2 5.2 <sup>r</sup> 62.2 <sup>r</sup> 6.7 18.3	133.2 5.6 15.3 9.3 6.5 2.8 2.3 4.7 61.3 6.5 18.8
13 Other industrialized countries.         14 Austria         15 Denmark         16 Finland         17 Greece.         18 Norway.         19 Portugal         20 Spain.         21 Turkey         22 Other Western Europe         23 South Africa         24 Australia.	21.3 <sup>r</sup> 1.5 1.1 1.1 1.8 1.8 4 6.2 1.5 1.7 <sup>r</sup> 2.4 1.8	21.0 <sup>r</sup> 1.5 1.1 1.0 2.5 1.4 7.1 1.2 1.0 <sup>r</sup> 2.0 1.6	22.9 <sup>r</sup> 1.4 1.1 .7 2.7 1.6 .6 8.3 1.7 1.2 <sup>r</sup> 1.8 1.8	23.5 <sup>r</sup> 1.4 .9 1.0 2.5 1.5 .6 9.0 1.7 1.2 <sup>r</sup> 1.8 1.9	21.3 <sup>r</sup> 1.1 1.2 .8 2.4 1.5 .6 7.1 1.9 1.1 <sup>r</sup> 1.8 2.0	22.1 <sup>r</sup> 1.0 .9 .6 2.3 1.4 .5 8.3 1.6 1.3 <sup>r</sup> 1.6 2.4	22.8 <sup>r</sup> .6 .9 .7 2.6 1.4 .6 8.3 1.4 1.8 <sup>r</sup> 1.9 2.7	21.5 <sup>r</sup> .8 .8 .8 2.3 1.5 7.7 1.2 1.5 <sup>r</sup> 1.8 2.3	25.5 .8 1.3 .8 2.8 1.7 .5 10.1 1.5 2.0° 1.7 2.3	25.1 <sup>r</sup> .8 <sup>r</sup> 1.5 1.0 2.9 <sup>r</sup> 1.6 .5 9.8 1.5 1.7 2.3	24.1 1.2 .9 .7 3.0 1.2 .4 9.0 1.3 1.7 1.7 2.9
25 OPEC <sup>2</sup> 26 Ecuador 27 Venezuela. 28 Indonesia 29 Middle East countries 30 African countries	16.6 1.7 7.9 1.7 3.4 1.9	17.1 1.3 7.0 2.0 5.0 1.7	12.8 1.0 5.0 2.7 2.5 1.7	17.1 .9 5.1 2.8 6.6 1.6	14.0 .9 5.3 2.6 3.7 1.5	15.6 .8 5.6 2.8 5.0 1.5	14.6 .7 5.4 2.8 4.2 1.5	15.8 .7 5.4 3.0 5.3 1.4	16.2 .7 5.3 3.0 5.9 1.4	15.9 .7 5.4 3.0 5.4 1.4	16.1 .6 5.2 3.0 6.2 1.1
31 Non-OPEC developing countries	85.3	77.5	65.4	66.4	65.0	65.0	64.3	70.6	68.6 <sup>r</sup>	73.4 <sup>r</sup>	72.6
Latin America 32 Argentina	9.0 22.4 5.6 2.1 18.8 .8 2.6	6.3 19.0 4.6 1.8 17.7 .6 2.8	5.0 14.4 3.5 1.8 13.0 .5 2.3	4.7 13.9 3.6 1.7 13.7 .5 2.2	4.6 11.6 3.6 1.6 14.3 .5 2.0	4.5 10.5 3.7 1.6 16.2 .4 1.9	4.8 9.6 3.6 1.7 15.5 .4 2.1	5.0 10.8 3.9 1.6 18.2 .4 2.2	5.1 10.6 4.0 1.6 16.3 <sup>r</sup> .4 2.2	6.2 10.8 4.2 1.7 17.1 .4 <sup>r</sup> 2.5	6.6 10.8 4.4 1.8 16.0 .5 2.6
Asia China China 39 Peoples Republic of China 40 Republic of China (Taiwan) 41 India 42 Israel 43 Korea (South) 44 Malaysia 45 Philippines 46 Thailand 47 Other Asia 41 China 42 Other Asia 43 Other Asia 44 Other Asia	.3 3.7 2.1 1.2 6.1 1.6 4.5 1.1	.3 4.5 3.1 .7 5.9 1.7 4.1 1.3 1.0	.2 3.5 3.3 .5 6.2 1.9 3.8 1.5	3.6 3.5 .5 6.8 2.0 3.7 1.6 2.1	.6 4.1 3.0 .5 6.9 2.1 3.7 1.7 2.3	.4 4.1 2.8 .5 6.5 2.3 3.6 1.9 2.3	.3 4.1 3.0 .5 6.8 2.3 3.7 1.7 2.4	.3 4.8 3.6 .4 6.9 2.5 3.6 1.7	.3 4.6 3.8 .4 6.9 2.7 3.1 <sup>r</sup> 1.9 3.0 <sup>r</sup>	.3 5.0 3.6 .4 7.4 3.0 3.6 <sup>r</sup> 2.2 3.3	.7 5.2 3.2 .4 6.6 3.0 3.6 2.2 3.1
Africa 48 Egypt	.4 .9 .0 1.1	.4 .9 .0 1.0	.4 .8 .0	.4 .8 .0	.4 .7 .0	.4 .7 .0	.4 .7 .0	.3 .7 .0 .7	.5 .7 .0	.3 .6 .0	.2 .6 .0 1.0
52 Eastern Europe 53 Russia	3.6 .7 1.8 1.1	3.5 .7 1.6 1.3	2.3 .2 1.2 .9	2.1 .3 1.0 .8	2.1 .4 1.0 .7	1.8 .4 .8 .7	2.4 .9 .9 .7	2.9 1.4 .8 .6	3.0 1.7 .7 .6	3.1 1.8 .7 .7	3.1 1.9 .6 .6
56 Offshore banking centers 57 Bahamas. 58 Bermuda 59 Cayman Islands and other British West Indies 60 Netherlands Antilles 61 Panama 62 Lebanon 63 Hong Kong 64 Singapore 65 Other 66 Miscellaneous and unallocated <sup>6</sup>	44.2 11.0 .9 12.9 1.0 2.5 .1 9.6 6.1 .0	36.6 5.5 1.7 9.0 2.3 1.4 .1 9.7 7.0 .0	42.5 2.8 4.4 11.5 7.9 1.4 .1 7.7 6.6 .0	50.0 8.3 4.4 14.1 1.1 1.5 .1 11.6 8.9 .0	48.3 6.8 4.2 14.9 1.4 1.3 .1 12.4 7.2 .0	52.7 6.7 7.1 13.8 3.9 1.3 .1 12.1 7.7 .0	52.0 11.9 2.3 15.8 1.2 1.3 .1 12.2 7.1 .0	58.5 14.1 <sup>r</sup> 3.9 17.4 1.0 1.3 .1 12.1 <sup>r</sup> 8.5 .0	59.4 <sup>r</sup> 12.3 <sup>r</sup> 5.1 18.1 <sup>r</sup> .8 1.7 <sup>r</sup> .1 14.9 <sup>r</sup> 6.4 .0 48.8 <sup>r</sup>	52.3 <sup>r</sup> 8.2 <sup>r</sup> 3.8 15.7 <sup>r</sup> .7 <sup>r</sup> 1.8 <sup>r</sup> .1 15.2 6.8 <sup>r</sup> .0 36.9 <sup>r</sup>	55.1 5.7 6.2 19.9 1.1 1.7 .1 13.8 6.5 .0

<sup>1.</sup> The banking offices covered by these data are the U.S. offices and foreign branches of U.S.-owned banks and of U.S. subsidiaries of foreign-owned banks. Offices not covered include (1) U.S. agencies and branches of foreign banks, and (2) foreign subsidiaries of U.S. banks. To minimize 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. The data in this table combine foreign branch claims in table 3.14 (the sum of lines 7 through 10) with the claims of U.S. offices in table 3.18 (excluding those held by agencies and branches of foreign banks and those constituting claims on own foreign branches). Since June 1984, reported claims held by foreign branches have been reduced by an increase in the reporting threshold for "shell" branches from \$50 million to

\$150 million equivalent in total assets, the threshold now applicable to all reporting branches.

2. 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).

3. Excludes Liberia.

4. Includes Canal Zone beginning December 1979.

5. Foreign branch claims only.

6. Includes New Zealand, Liberia, and international and regional organizations.

organizations.

# 3.22 LIABILITIES TO UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States1

	1000	tacat.	1001	le	991		19	992	
Type and area or country	1989	1990 <sup>F</sup>	1991	Sept.	Dec.	Mar.	June	Sept.	Dec.p
i Total	38,764	46,043	43,156	43,218 <sup>r</sup>	43,156 <sup>r</sup>	44,098 <sup>r</sup>	44,176 <sup>r</sup>	45,166 <sup>r</sup>	42,422
2 Payable in dollars	33,973 4,791	40,786 5,257	37,764 5,392	38,482 <sup>r</sup> 4,736	37,764 <sup>r</sup> 5,392	38,640 <sup>r</sup> 5,458 <sup>r</sup>	37,481 <sup>r</sup> 6,695	36,574 <sup>r</sup> 8,592 <sup>r</sup>	35,422 7,000
By type 4 Financial liabilities 5 Payable in dollars 6 Payable in foreign currencies	17,879 14,035 3,844	21,066 16,979 4,087	21,893 17,781 4,112	21,652 <sup>r</sup> 17,947 <sup>r</sup> 3,705	21,893 <sup>r</sup> 17,781 <sup>r</sup> 4,112	22,255 <sup>r</sup> 18,027 <sup>r</sup> 4,228	21,988 <sup>r</sup> 16,744 <sup>r</sup> 5,244	23,406 <sup>r</sup> 16,468 <sup>r</sup> 6,938 <sup>r</sup>	21,547 15,676 5,871
7 Commercial fiabilities 8 Trade payables 9 Advance receipts and other liabilities 10 Payable in dollars 11 Payable in foreign currencies	20,885 8,070 12,815 19,938 947	24,977 10,683 14,294 23,807 1,170	21,263 8,310 12,953 19,983 1,280	21,566 8,313 13,253 20,535 1,031	21,263 8,310 12,953 19,983 1,280	21,843 <sup>r</sup> 8,926 <sup>r</sup> 12,917 20,613 <sup>r</sup> 1,230 <sup>r</sup>	22,188 9,516 12,672 20,737 1,451	21,760 9,409 <sup>r</sup> 12,351 <sup>r</sup> 20,106 1,654	20,875 8,838 12,037 19,746 1,129
By area or country	11,660 340 258 464 941 541 8,818	10,978 394 975 621 1,081 545 6,357	11,905 217 2,106 682 1,056 408 6,429	12,311 <sup>r</sup> 397 2,164 682 1,050 497 6,589 <sup>r</sup>	11,905° 217 2,106 682 1,056 408 6,429°	12,449° 174 1,997 666 1,025 355 7,338°	13,030 <sup>r</sup> 194 2,324 836 979 490 7,344 <sup>r</sup>	14,070 <sup>r</sup> 256 2,785 <sup>r</sup> 941 <sup>r</sup> 980 <sup>r</sup> 627 <sup>r</sup> 7,680 <sup>r</sup>	12,152 407 1,608 740 606 585 7,516
19 Canada	610	229	267	305	267	283	337	320	498
20       Latin America and Caribbean         21       Bahamas         22       Bermuda         23       Brazil         24       British West Indies         25       Mexico         26       Venezuela	1,357 157 17 0 724 6 0	4,153 371 0 0 3,160 5 4	4,325 537 114 6 3,065 7 4	3,883 314 0 6 2,961 6 4	4,325° 537 114 6 3,065° 7	4,062 <sup>r</sup> 396 114 8 2,930 <sup>r</sup> 7	3,323 <sup>r</sup> 343 114 10 2,182 <sup>r</sup> 8 4	3,345° 220° 115 18 2,291° 12 5	3,480 249 214 19 2,307 11 6
27 Asia	4,151 3,299 2	5,295 4,065 5	5,338 4,102 13	5,149 <sup>r</sup> 4,000 <sup>r</sup> 19	5,338 <sup>r</sup> 4,102 <sup>r</sup> 13	5,366 <sup>r</sup> 4,107 <sup>r</sup> 13	5,209 <sup>r</sup> 4,116 <sup>r</sup> 10	5,581 <sup>r</sup> 4,548 <sup>r</sup> 17	5,384 4,353 19
30 Africa	2 0	2 0	6 4	3 2	6 4	7 6	0	5 0	6 0
32 All other <sup>4</sup>	100	409	52	1	52	88	89	85	27
Commercial liabilities 33 Europe 34 Belgium and Luxembourg 35 France 36 Germany 37 Netherlands 38 Switzerland 39 United Kingdom	9,071 175 877 1,392 710 693 2,620	10,310 275 1,218 1,270 844 775 2,792	7,808 248 830 944 709 488 2,310	8,084 225 992 911 751 492 2,217	7,808 248 830 944 709 488 2,310	7,501 <sup>r</sup> 256 678 <sup>r</sup> 880 <sup>r</sup> 574 482 2,445 <sup>r</sup>	7,144 240 659 702 605 400 2,404	6,714 <sup>r</sup> 173 688 <sup>r</sup> 744 601 369 2,262 <sup>r</sup>	6,624 285 660 592 555 398 2,225
40 Canada	1,124	1,261	990	1,011	990	1,095 <sup>r</sup>	1,077	1,085	987
41 Latin America and Caribbean 42 Bahamas 43 Bermuda 44 Brazil 45 British West Indies 46 Mexico 47 Venezuela	1,224 41 308 100 27 323 164	1,672 12 538 145 30 475 130	1,352 3 310 219 107 304 94	1,512 14 450 211 46 291 102	1,352 3 310 219 107 304 94	1,701 13 493 230 108 375 168	1,803 8 409 212 73 475 279	1,518 3 338 115 85 322 147	1,520 6 292 197 55 444 127
48 Asia	7,550 2,914 1,632	9,483 3,651 2,016	9,330 3,720 1,498	8,855 3,363 1,780	9,330 3,720 1,498	9,890 <sup>r</sup> 3,549 <sup>r</sup> 1,591	10,439 3,537 1,778	11,006 <sup>r</sup> 3,909 <sup>r</sup> 1,813	10,643 3,990 1,946
51 Africa	886 339	844 422	713 327	836 357	713 327	644 253	775 389	675 337	535 291
53 Other <sup>4</sup>	1,030	1,406	1,070	1,268	1,070	1,012	950	762	566

For a description of the changes in the international statistics tables, see Federal Reserve Bulletin, vol. 65, (July 1979), p. 550.
 Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).

<sup>3.</sup> Comprises Algeria, Gabon, Libya, and Nigeria.
4. Includes nonmonetary international and regional organizations.
5. Revisions include a reclassification of transactions, which also affects the totals for Asia and the grand totals.

## 3.23 CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States¹

Millions of dollars, end of period

	1000	1990	1991	19	991	1992			
Type, and area or country	1989	1990 1991		Sept.	Dec.	Mar.	June	Sept.	Dec.p
1 Total	33,173	35,348	42,667	38,315	42,667°	42,199 <sup>r</sup>	41,869 <sup>r</sup>	38,659 <sup>r</sup>	37,728
2 Payable in dollars	30,773 2,400	32,760 2,589	40,098 2,569	35,952 2,363	40,098 <sup>r</sup> 2,569 <sup>r</sup>	39,558 <sup>r</sup> 2,641 <sup>r</sup>	38,899 <sup>r</sup> 2,970 <sup>r</sup>	35,738 <sup>r</sup> 2,921	35,164 2,564
By type 4 Financial claims 5 Deposits 6 Payable in dollars 7 Payable in foreign currencies 8 Other financial claims 9 Payable in dollars 10 Payable in foreign currencies.	19,297 12,353 11,364 989 6,944 6,190 754	19,874 13,577 12,552 1,025 6,297 5,280 1,017	25,463 17,218 16,343 875 8,245 7,365 880	22,536 16,188 15,182 1,006 6,348 5,611 737	25,463 17,218 16,343 875 8,245 7,365 880	25,328 <sup>r</sup> 16,964 15,803 1,161 8,364 <sup>r</sup> 7,617 <sup>r</sup> 747	24,612 <sup>r</sup> 15,116 13,829 1,287 9,496 <sup>r</sup> 8,771 <sup>r</sup> 725	21,367 12,547 11,489 1,058 8,820 7,788 1,032	20,482 12,534 11,788 746 7,948 7,184 764
11 Commercial claims 12 Trade receivables 13 Advance payments and other claims 14 Payable in dollars 15 Payable in foreign currencies	13,876 12,253 1,624 13,219 657	15,475 13,657 1,817 14,927 548	17,204 14,479 2,725 16,390 814	15,779 13,429 2,350 15,159 620	17,204 <sup>t</sup> 14,479 <sup>t</sup> 2,725 16,390 <sup>t</sup> 814 <sup>t</sup>	16,871 <sup>r</sup> 14,266 <sup>r</sup> 2,605 16,138 <sup>r</sup> 733 <sup>r</sup>	17,257 <sup>r</sup> 14,756 <sup>r</sup> 2,501 16,299 <sup>r</sup> 958 <sup>r</sup>	17,292 <sup>r</sup> 14,552 <sup>r</sup> 2,740 16,461 <sup>r</sup> 831	17,246 14,888 2,358 16,192 1,054
By area or country   Financial claims	8,463 28 153 152 238 153 7,496	9,645 76 371 367 265 357 7,971	13,546 13 312 342 385 591 11,251	13,129 76 255 434 420 580 10,997	13,546 13 312 342 385 591 11,251	14,205 <sup>r</sup> 12 277 290 727 682 11,631	13,200F 25 786 381 732 779 8,768F	11,249 16 809 321 766 602 7,727	9,147 8 771 401 536 506 5,749
23 Canada	1,904	2,934	2,679	2,163	2,679	2,750 <sup>r</sup>	2,529 <sup>r</sup>	2,256	1,695
24 Latin America and Caribbean 25 Bahamas 26 Bermuda 27 Brazil 28 British West Indies 29 Mexico 30 Venezuela	8,020 1,890 7 224 5,486 94 20	6,201 1,090 3 68 4,635 177 25	7,932 758 8 192 6,384 321 40	6,289 652 19 137 5,106 176 32	7,932 758 8 192 6,384 321 40	7,070 415 12 191 5,912 318 34	7,260 523 12 181 6,018 343 32	6,523 1,099 65 135 4,792 222 26	8,278 625 40 234 6,749 270 29
31 Asia	590 213 8	860 523 8	957 385 5	614 277 3	957 385 5	961 <sup>r</sup> 380 3	1,275 <sup>r</sup> 712 4	995 481 4	836 684 3
34 Africa	140 12	37 0	57 1	61	57	60 0	57 0	66 1	74 9
36 All other <sup>4</sup>	180	195	292	280	292	282 <sup>r</sup>	291 <sup>r</sup>	278	452
Commercial claims   37	6,209 242 964 696 479 313 1,575	7,044 212 1,240 807 555 301 1,775	7,950 192 1,544 943 643 295 2,088	6,884 190 1,330 858 641 258 1,807	7,950 192 1,544 943 643 295 2,088	7,894 181 1,562 936 646 328 2,086	8,138 <sup>r</sup> 255 1,563 908 666 399 2,173	7,792 <sup>r</sup> 170 1,741 <sup>r</sup> 885 588 294 1,977	7,526 183 1,394 883 541 294 1,776
44 Canada	1,091	1,074	1,174	1,232	1,174	1,176	1,131	1,172	1,243
45 Latin America and Caribbean 46 Bahamas 47 Bermuda 48 Brazil 49 British West Indies 50 Mexico 51 Venezuela	2,184 58 323 297 36 508 147	2,375 14 246 326 40 661 192	2,591 11 263 418 41 829 202	2,494 8 255 385 37 741 196	2,591 11 263 418 41 829 202	2,572 11 272 364 45 892 206	2,672 9 291 438 32 847 251	3,141 7 245 395 43 968 302	2,844 18 237 336 25 822 316
52 Asia	3,570 1,199 518	4,127 1,460 460	4,573 1,878 621	4,282 1,808 496	4,573 <sup>r</sup> 1,878 <sup>r</sup> 621	4,354 <sup>r</sup> 1,782 <sup>r</sup> 635	4,463 <sup>r</sup> 1,786 609	4,308 <sup>r</sup> 1,793 <sup>r</sup> 512	4,648 1,848 653
55 Africa	429 108	488 67	418 95	431 80	418 95	418 75	422 73	430 66	536 77
57 Other <sup>4</sup>	393	367	498	456	498 <sup>r</sup>	457 <sup>r</sup>	431 <sup>r</sup>	449	449

<sup>1.</sup> For a description of the changes in the international statistics tables, see Federal Reserve Bulletin, vol. 65, (July 1979), p. 550.
2. 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.

#### 3.24 FOREIGN TRANSACTIONS IN SECURITIES

Millions of dollars

	į		1993			1992			19	993
Transaction and area or country	1991 1992 <sup>r</sup>	Jan Feb.	Aug.	Sept.	Oct. <sup>r</sup>	Nov. <sup>r</sup>	Dec. <sup>r</sup>	Jan. <sup>r</sup>	Feb.p	
				ι	J.S. corpora	ate securitie	es			
Stocks	)									
1 Foreign purchases	211,207 200,116	221,350 226,490	48,208 45,333	13,174 14,841	13,884 17,034	18,820 18,170	17,885 16,598	22,725 20,382	19,170 19,353	29,038 25,980
3 Net purchases or sales (-)	11,091	-5,140	2,875	-1,667	-3,150	650	1,287	2,343	-183	3,058
4 Foreign countries	10,522	-5,173	2,790	-1,622	-3,059	653	1,284	2,319	-178	2,968
5 Europe 6 France 7 Germany 8 Netherlands 9 Switzerland 10 United Kingdom 11 Canada 12 Latin America and Caribbean 13 Middle East 14 Other Asia 15 Japan 16 Africa 17 Other countries	53 9 -63 -227 -131 -352 3,845 2,177 -134 4,255 1,179 153 174	-4,934 -1,331 -64 -280 143 -3,294 1,405 2,209 -88 -3,944 -3,598 10 169	2,342 198 188 53 706 804 -284 336 -157 470 -596 31 52	-1,089 -46 -26 -54 -150 -652 -59 -24 -14 -442 -301 -1	-1,683 -234 -112 -107 -189 -869 -278 -90 136 -1,064 -97 14 -94	75 -92 -52 -24 -124 362 -227 235 -57 767 184 -21 -119	371 50 47 4 40 361 43 649 219 373 220 18 85	1,505 -154 162 190 221 705 176 422 70 122 215 -7 31	52 -25 91 64 205 -350 -341 305 -92 -123 28 4 17	2,290 223 97 -11 501 1,154 57 31 -65 593 -624 27 35
18 Nonmonetary international and regional organizations	568	33	85	-45	91	-3	3	24	-5	90
Bonds <sup>2</sup> 19 Foreign purchases	153,096	214,801	39,381	19,785	17,160	19,315	18,082	19,264	17,417	21,964
20 Foreign sales	125,637	175,310	34,146	16,620	14,452	15,224	16,317	15,513	15,439	18,707
21 Net purchases or sales (-)	27,459	39,491	5,235	3,165	2,708	4,091	1,765	3,751	1,978	3,257
22 Foreign countries	27,590	38,375	5,457	3,150	2,573	4,045	1,600	3,206	2,074	3,383
23 Europe	13,112 847 1,577 482 656 8,931 1,623 2,672 1,787 8,459 5,767 52 -116	18,314 1,221 2,503 531 -513 13,229 236 8,833 3,166 7,545 -450 354 -73	3,664 412 143 -252 69 3,067 -292 901 548 454 251 195 -13	1,516 -5 -13 22 -94 1,447 -100 878 878 284 593 -1,229 1 -22	1,818 155 387 58 -51 1,319 48 548 -5 171 -590 -7	1,993 -4 -34 133 -23 1,568 198 842 273 790 467 -50 -1	-492 -7 -113 144 -260 -312 281 540 515 692 266 -4 68	1,996 217 857 48 105 962 -38 513 360 119 9 302 -46	1,302 101 91 -119 122 349 -437 419 300 305 190 168	2,362 311 52 -133 -53 2,718 145 482 248 149 61 27 -30
36 Nonmonetary international and regional organizations	-131	1,116	-222	15	135	46	165	545	-96	-126
					Foreign :	securities				
37 Stocks, net purchases or sales (-) <sup>3</sup> 38 Foreign purchases 39 Foreign sales <sup>3</sup> 40 Bonds, net purchases or sales (-) 41 Foreign purchases 42 Foreign sales 43 Net purchases or sales (-), of stocks and bonds	-31,967 120,598 152,565 -14,828 330,311 345,139 -46,795	-32,186 149,987 182,173 -18,470 485,659 504,129 -50,656	-3,873 27,764 31,637 -14,888 93,891 108,779 -18,761	-2,950 <sup>r</sup> 9,779 <sup>r</sup> 12,729 <sup>r</sup> 276 <sup>r</sup> 45,943 <sup>r</sup> 45,667 <sup>r</sup> -2,674 <sup>r</sup>	-2,892 <sup>r</sup> 13,632 <sup>r</sup> 16,524 <sup>r</sup> -1,420 <sup>r</sup> 46,140 <sup>r</sup> 47,560 <sup>r</sup> -4,312 <sup>r</sup>	-4,260 12,477 16,737 -2,205 49,670 51,875	-3,636 11,672 15,308 -791 52,066 52,857 -4,427	-4,368 12,781 17,149 -2,874 39,607 42,481 -7,242	-2,328 12,722 15,050 -5,099 38,411 43,510 -7,427	-1,545 15,042 16,587 -9,789 55,480 65,269 -11,334
44 Foreign countries	-46,711	-53,992	-17,892	-2,761 <sup>r</sup>	-4,333 <sup>r</sup>	-6,492	-4,500	-7,196	-6,420	-11,472
45 Europe 46 Canada 47 Latin America and Caribbean 48 Asia 49 Africa 50 Other countries	-34,452 -7,004 759 -7,350 -9 1,345	-38,109 -6,653 -1,830 -6,583 -57 -760	-13,413 -5,146 190 186 -4 295	-1,234 <sup>r</sup> 207 -430 -1,376 11 61	-3,196 <sup>r</sup> -222 <sup>r</sup> 308 -1,667 -14 458 <sup>r</sup>	-6,851 -1,008 1,091 681 -2 -403	-5,001 571 -1,671 1,567 42 -8	-4,516 -1,167 512 -1,670 -11 -344	-6,468 -161 195 -381 -7 402	-6,945 -4,985 -5 567 3 -107
51 Nonmonetary international and regional organizations	-84	3,336	-869	87	21	27	73	46	-1,007	138

<sup>1.</sup> Comprises oil-exporting countries as follows: Bahrain, Iran, Iran, Iran, Coman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).

2. 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.

<sup>3.</sup> In a July 1989 merger, the former stockholders of a U.S. company received \$5,453 million in shares of the new combined U.K. company. This transaction is not reflected in the data.

#### A66 International Statistics □ June 1993

#### 3.25 MARKETABLE U.S. TREASURY BONDS AND NOTES Foreign Transactions

Millions of dollars

			1993	1993 1992					1993	
Country or area		1991 1992	Jan Feb.	Aug.	Sept.	Oct.	Nov.	Dec.r	Jan. <sup>r</sup>	Feb.p
	Transactions, net purchases or sales (-) during period <sup>1</sup>					<del></del>				
1 Estimated total	19,865	39,319 <sup>r</sup>	-820	6,458	-5,995	3,546 <sup>r</sup>	17,648 <sup>r</sup>	8	454	-1,274
2 Foreign countries	19,687	37,966 <sup>r</sup>	-2,296	6,785	-6,204	4,351 <sup>r</sup>	17,661 <sup>r</sup>	194	-129	-2,167
3 Europe 4 Belgium and Luxembourg. 5 Germany. 6 Netherlands 7 Sweden 8 Switzerland 9 United Kingdom 10 Other Western Europe 11 Eastern Europe 12 Canada	8,663 523 -4,725 -3,735 -663 1,007 6,218 10,024 13 -3,019	19,647° 1,985° 2,076 -2,923 -804 481 24,184° -6,002° 650° 562°	-968 -14 -935 -1,032 204 -654 2,207 -784 40 3,384	3,450 80 255 367 -1,289 -87 3,681 428 15 900	-4,655 -25 900 -239 -843 292 16 -4,761 5 -4,281	4,671 <sup>r</sup> 232 -8 -40 202 769 4,068 <sup>r</sup> -551 -1 458	7,284 <sup>r</sup> 370 -1,584 1,827 668 1,334 7,209 <sup>r</sup> -2,758 218 -1,087	3,163 -28 898 -804 -344 213 2,833 395 0 -99	-585 -59 -697 -1,238 -54 -199 2,025 -1,759 2 3,302	-383 45 -1,632 206 258 -455 182 975 38 82
13 Latin America and Caribbean 14 Venezuela 15 Other Latin America and Caribbean 16 Netherlands Antilles 17 Asia 18 Japan 19 Africa 20 Other	10,285 10 4,179 6,097 3,367 -4,081 689 -298	-3,223 539 -1,957 -1,805 23,526 <sup>r</sup> 9,817 <sup>r</sup> 1,103 -3,649	-1,050 4 -4,965 3,911 -2,168 61 -172 -1,322	-1,563 60 -758 -865 4,112 1,887 56 -170	-1,479 31 -2,537 1,027 4,004 2,448 59 148	-1,915 155 -3,233 1,163 1,416 -339 -37 -242	7,270 27 2,385 4,858 4,000 3,383 119 75	-4,519 11 415 -4,945 1,188 2,201 0 73	-1,495 -175 -3,309 1,989 -1,136 -743 -33 -182	445 179 -1,656 1,922 -1,032 804 -139 -1,140
21 Nonmonetary international and regional organizations	178 -358 -72	1,353 1,018 533	1,476 809 505	-327 -133 -75	209 -31 201	-805 -903 219	-13 -38 -31	202 76 97	583 228 270	893 581 235
MEMO 24 Foreign countries 25 Official institutions 26 Other foreign	19,687 1,190 18,496	37,966 <sup>r</sup> 6,876 <sup>r</sup> 31,090 <sup>r</sup>	-2,296 -7,329 5,033	6,785 697 6,088	-6,204 -4,483 -1,721	4,351 <sup>r</sup> 2,951 1,400 <sup>r</sup>	17,661 <sup>r</sup> -603 18,264 <sup>r</sup>	-194 -719 525	-129 -2,965 2,836	-2,167 -4,364 2,197
Oil-exporting countries 27 Middle East 2 28 Africa	-6,822 239	4,323 11	-2,093 8	1,093	750 4	-271 0	407 0	511 0	-238 8	-1,855 0

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 U.S. Treasury 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.

#### 3.26 DISCOUNT RATES OF FOREIGN CENTRAL BANKS<sup>1</sup>

Percent per year

	Percent Month Percent Mont			Rate on	Арг. 30, 1993		Rate on Apr. 30, 1993	
Country			Month effective	Country	Percent	Month effective		
Austria Belgium Canada Denmark France <sup>2</sup>	6.75 7.0 5.60 10.5 8.25	Apr. 1993 Mar. 1993 Apr. 1993 Mar. 1993 Apr. 1993	Germany. Italy. Japan. Netherlands	7.25 11.0 2.5 6.75	Apr. 1993 Apr. 1993 July 1992 Apr. 1993	Norway Switzerland United Kingdom	7.75 5.0 12.0	Apr. 1993 Mar. 1993 Sept. 1992

Rates shown are mainly those at which the central bank either discounts or
makes advances against eligible commercial paper or government securities for
commercial banks or brokers. For countries with more than one rate applicable to
such discounts or advances, the rate shown is the one at which it is understood
that the central bank transacts the largest proportion of its credit operations.

#### 3.27 FOREIGN SHORT-TERM INTEREST RATES<sup>1</sup>

Averages of daily figures, percent per year

	1000	1001	1002		1992			19	193	
Type or country	1990	1991	1992	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
I Eurodollars 2 United Kingdom 3 Canada 4 Germany 5 Switzerland 6 Netherlands 7 France 8 Italy 9 Belgium 10 Japan	8.16 14.73 13.00 8.41 8.71 8.57 10.20 12.11 9.70 7.75	5.86 11.47 9.07 9.15 8.01 9.19 9.49 12.04 9.30 7.33	3.70 9.56 6.76 9.42 7.67 9.25 10.14 13.91 9.31 4.39	3.30 8.23 7.57 8.85 6.28 8.63 10.82 15.52 8.70 3.85	3.67 7.16 7.63 8.84 6.44 8.66 9.58 14.38 8.64 3.77	3.50 7.11 7.93 8.93 6.13 8.55 10.75 13.60 8.65 3.76	3.22 6.88 7.03 8.50 5.52 8.00 11.69 12.56 8.19 3.70	3.12 6.10 6.38 8.29 5.34 7.98 11.70 11.43 8.75 3.27	3.11 5.91 5.59 7.85 5.05 7.47 10.89 11.26 8.27 3.26	3.10 5.90 5.43 7.81 4.97 7.43 8.73 11.41 7.94 3.22

<sup>1.</sup> Rates are for three-month interbank loans, with the following exceptions: Canada, finance company paper; Belgium, three-month Treasury bills; and Japan, CD rate.

<sup>2.</sup> Since Feb. 1981, the rate has been that at which the Bank of France discounts Treasury bills for seven to ten days.

#### International Statistics □ June 1993 A68

#### 3.28 FOREIGN EXCHANGE RATES<sup>1</sup>

Currency units per dollar except as noted

Control	1990	1001	1991 1992		1992		1993			
Country/currency unit	1990	1991			Dec.	Jan.	Feb.	Mar.	Apr.	
1 Australia/dollar <sup>2</sup> 2 Austria/schilling 3 Belgium/franc 4 Canada/dollar 5 China, P.R./yuan 6 Denmark/krone 7 Finland/markka. 8 France/franc 9 Germany/deutsche mark 10 Greece/drachma 11 Hong Kong/dollar 12 India/rupee 13 Ireland/pound <sup>2</sup> 14 Italy/lira 15 Japan/yen. 16 Malaysia/ringgit 17 Netherlands/guilder	78.069 11.331 33.424 1.1668 4.7921 6.1899 3.8300 5.4467 1.6166 158.59 7.7899 17.492 165.76 1,198.27 145.00 2.7057 1.8215	77.872 11.686 34.195 1.1460 5.3337 6.4038 4.0521 5.6468 1.6610 182.63 7.7712 22.712 161.39 1,241.28 134.59 2.7503 1.8720	73.521 10.992 32.148 1.2085 5.5206 6.0372 4.4865 5.2935 1.5618 190.81 7.7402 28.156 170.42 1,232.17 126.78 2.5463 1.7587	68.984 11.168 32.661 1.2674 5.6134 6.1166 5.0615 5.3706 1.5875 206.48 7.7348 28.474 166.17 1,364.45 123.88 2.5227 1.7862	68.974 11.130 32.545 1.2725 5.8106 6.1206 5.1444 5.3974 1.5822 209.48 7.7416 28.979 166.71 1.412.38 124.04 2.5710 1.7788	67.297 11.368 33.239 1.2779 5.7796 6.2319 5.4242 5.4751 1.6144 215.97 7.7376 29.043 163.37 1,491.07 124.99 2.5985 1.8155	68.294 11.556 33.841 1.2602 5.7874 6.3019 5.8534 5.5594 1.6414 220.60 7.7335 30.042 148.11 1,550.43 120.76 2.6295 1.8473	70.775 11.586 33.919 1.2471 5.7455 6.3242 5.9767 5.5944 1.6466 223.57 7.7332 31.939 147.58 1,591.35 117.02 2.6051 1.8507	71.155 11.234 32.857 1.2621 5.7202 6.1339 5.6190 5.3984 1.5964 217.90 7.7306 31.610 152.75 1.536.14 112.41 2.5777 1.7942	
18 New Zealand/dollar <sup>2</sup>	59.619 6.2541 142.70	57.832 6.4912 144.77	53.792 6.2142 135.07	51.996 6.4714 141.71	51.570 6.6804 142.05	51.270 6.8721 145.36	51.603 6.9779 149.89	53.026 6.9989 152.17	53.904 6.7399 148.25	
21 Singapore/dollar 22 South Africa/rand. 23 South Korea/won 24 Spain/peseta 25 Sri Lanka/rupee 26 Sweden/krona 27 Switzerland/franc 28 Taiwan/dollar 29 Thailand/bah 30 United Kingdom/pound²	1.8134 2.5885 710.64 101.96 40.078 5.9231 1.3901 26.918 25.609 178.41	1.7283 2.7633 736.73 104.01 41.200 6.0521 1.4356 26.759 25.528 176.74	1.6294 2.8524 784.58 102.38 44.013 5.8258 1.4064 25.160 25.411 176.63	1.6338 2.9959 787.09 113.83 44.404 6.2528 1.4291 25.405 25.462 152.68	1.6397 3.0140 791.75 112.95 45.046 6.8903 1.4219 25.452 25.488 155.10	1.6527 3.0713 794.87 114.62 46.307 7.2536 1.4774 25.452 25.523 153.25	1.6463 3.1313 799.25 117.51 46.351 7.5566 1.5178 25.837 25.508 143.95	1.6446 3.1790 796.42 117.71 47.069 1.5206 26.026 25.425 146.17	1.6228 3.1718 798.61 115.64 47.712 7.4500 1.4599 25.987 25.251 154.47	
Мемо 31 United States/dollar <sup>3</sup>	89.09	89.84	86.61	90.04	90.50	92.36	93.82	93.65	90.62	

<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.

2. Value in U.S. cents.

3. Index of weighted-average exchange value of U.S. dollar against the currencies of ten industrial countries. The weight for each of the ten countries is

the 1972-76 average world trade of that country 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, p. 700).

## Guide to Statistical Releases and Special Tables

STATISTICAL RELEASES—List Published Semiannually, with Latest Bulletin Referen	nce	
Anticipated schedule of release dates for periodic releases	Issue June 1993	Page A78
SPECIAL TABLES—Quarterly Data Published Irregularly, with Latest Bulletin Refe	rence	
Title and Date	Issue	Page
Assets and liabilities of commercial banks		
March 31, 1992	August 1992	A70
June 30, 1992	November 1992	A70
September 30, 1992	February 1993	A70
December 31, 1992	May 1993	A70
Terms of lending at commercial banks	11 <b>111</b> 1775	1170
May 1992	September 1992	A78
August 1992	November 1992	A76
November 1992	February 1993	A76
February 1993	May 1993	A76
	· ·	
Assets and liabilities of U.S. branches and agencies of foreign banks		
March 31, 1992	September 1992	A82
June 30, 1992	November 1992	A80
September 30, 1992	February 1993	A80
December 31, 1992	May 1993	A80
Pro forma balance sheet and income statements for priced service operations		
June 30, 1991	November 1991	A80
September 30, 1991	January 1992	A70
March 30, 1992	August 1992	A80
June 30, 1992	October 1992	A70
Julie 30, 1772	October 1992	Aio
Assets and liabilities of life insurance companies		
June 30, 1991	December 1991	A79
September 30, 1991	May 1992	A81
December 31, 1991	August 1992	A83
Sentember 30, 1992	March 1993	A71

### **Index to Statistical Tables**

References are to pages A3-A68 although the prefix "A" is omitted in this index

ACCEPTANCES, bankers (See Bankers acceptances) Demand deposits—Continued Agricultural loans, commercial banks, 21, 22 Turnover, 16 Assets and liabilities (See also Foreigners) Depository institutions Banks, by classes, 19-22 Reserve requirements, 9 Domestic finance companies, 35 Reserves and related items, 4, 5, 6, 13 Deposits (See also specific types) Federal Reserve Banks, 11 Banks, by classes, 4, 19-22, 23 Financial institutions, 27 Federal Reserve Banks, 5, 11 Foreign banks, U.S. branches and agencies, 23 Turnover, 16 Automobiles Discount rates at Reserve Banks and at foreign central banks and Consumer installment credit, 38 Production, 47, 48 foreign countries (See Interest rates) Discounts and advances by Reserve Banks (See Loans) BANKERS acceptances, 10, 24, 25 Dividends, corporate, 34 Bankers balances, 19-22. (See also Foreigners) Bonds (See also U.S. government securities) EMPLOYMENT, 45 New issues, 34 Eurodollars, 25 Rates, 25 Branch banks, 23, 55 FARM mortgage loans, 37 Business activity, nonfinancial, 44 Federal agency obligations, 5, 10, 11, 12, 30, 31 Business expenditures on new plant and equipment, 34 Federal credit agencies, 32 Business loans (See Commercial and industrial loans) Federal finance Debt subject to statutory limitation, and types and ownership CAPACITY utilization, 46 Capital accounts of gross debt, 29 Banks, by classes, 19 Receipts and outlays, 27, 28 Treasury financing of surplus, or deficit, 27 Federal Reserve Banks, 11 Treasury operating balance, 27 Central banks, discount rates, 67 Federal Financing Bank, 27, 32 Certificates of deposit, 25 Federal funds, 7, 18, 21, 22, 23, 25, 27 Commercial and industrial loans Federal Home Loan Banks, 32 Commercial banks, 17, 21 Federal Home Loan Mortgage Corporation, 32, 36, 37 Weekly reporting banks, 21-23 Commercial banks Federal Housing Administration, 32, 36, 37 Federal Land Banks, 37 Assets and liabilities, 19-22 Federal National Mortgage Association, 32, 36, 37 Commercial and industrial loans, 17, 19, 20, 21, 22, 23 Consumer loans held, by type and terms, 38 Federal Reserve Banks Condition statement, 11 Loans sold outright, 21 Discount rates (See Interest rates) Nondeposit funds, 18 U.S. government securities held, 5, 11, 12, 29 Real estate mortgages held, by holder and property, 37 Time and savings deposits, 4 Commercial paper, 24, 25, 35 Federal Reserve credit, 5, 6, 11, 12 Federal Reserve notes, 11 Federally sponsored credit agencies, 32 Condition statements (See Assets and liabilities) Finance companies Construction, 44, 49 Consumer installment credit, 38 Assets and liabilities, 35 Business credit, 35 Consumer prices, 44, 46 Loans, 38 Consumption expenditures, 52, 53 Paper, 24, 25 Corporations Nonfinancial, assets and liabilities, 34 Financial institutions Loans to, 21, 22, 23 Profits and their distribution, 34 Selected assets and liabilities, 27 Security issues, 33, 65 Float, 51 Cost of living (See Consumer prices) Flow of funds, 39, 41, 42, 43 Credit unions, 38 Foreign banks, assets and liabilities of U.S. branches and agencies, 22, 23 Currency in circulation, 5, 14 Customer credit, stock market, 26 Foreign currency operations, 11 DEBITS to deposit accounts, 16 Foreign deposits in U.S. banks, 5, 11, 21, 22 Foreign exchange rates, 68 Debt (See specific types of debt or securities) Foreign trade, 54 Demand deposits Banks, by classes, 19-23 Foreigners Ownership by individuals, partnerships, and Claims on, 55, 57, 60, 61, 62, 64 Liabilities to, 22, 54, 55, 57, 58, 63, 65, 66 corporations, 23

GOLD Certificate account, 11 Stock, 5, 54	Real estate loans—Continued Financial institutions, 27 Terms, yields, and activity, 36
Government National Mortgage Association, 32, 36, 37 Gross domestic product, 51	Type of holder and property mortgaged, 37 Repurchase agreements, 7, 18, 21, 22, 23
HOUSING, new and existing units, 49	Reserve requirements, 9 Reserves Commercial banks, 19
INCOME, personal and national, 44, 51, 52 Industrial production, 44, 47	Depository institutions, 4, 5, 6, 13
Installment loans, 38	Federal Reserve Banks, 11 U.S. reserve assets, 54
Insurance companies, 29, 37	Residential mortgage loans, 36
Interest rates Bonds, 25	Retail credit and retail sales, 38, 39, 44
Consumer installment credit, 38	SAVING
Federal Reserve Banks, 8 Foreign central banks and foreign countries, 67	Flow of funds, 39, 41, 42, 43
Money and capital markets, 25	National income accounts, 51 Savings and loan associations, 37, 38, 39. (See also SAIF-insured
Mortgages, 36	institutions)
Prime rate, 24	Savings Association Insurance Funds (SAIF) insured institutions, 27
International capital transactions of United States, 53–67	Savings banks, 27, 37, 38
International organizations, 57, 58, 60, 63, 64	Savings deposits (See Time and savings deposits)
Inventories, 51 Investment companies, issues and assets, 34	Securities ( <i>See also specific types</i> ) Federal and federally sponsored credit agencies, 32
Investments (See also specific types)	Foreign transactions, 65
Banks, by classes, 19, 20, 21, 22, 23, 27	New issues, 33
Commercial banks, 4, 17, 19–22	Prices, 26
Federal Reserve Banks, 11, 12	Special drawing rights, 5, 11, 53, 54
Financial institutions, 37	State and local governments
LABOR force, 45	Deposits, 21, 22 Holdings of U.S. government securities, 29
Life insurance companies (See Insurance companies)	New security issues, 33
Loans (See also specific types)	Ownership of securities issued by, 21, 22
Banks, by classes, 19–22	Rates on securities, 25
Commercial banks, 4, 17, 19–22	Stock market, selected statistics, 26
Federal Reserve Banks, 5, 6, 8, 11, 12 Financial institutions, 27, 37	Stocks (See also Securities) New issues, 33
Insured or guaranteed by United States, 36, 37	Prices, 26
	Student Loan Marketing Association, 32
MANUFACTURING	
Capacity utilization, 46	TAX receipts, federal, 28
Production, 46, 48 Margin requirements, 26	Thrift institutions, 4. (See also Credit unions and Savings and
Margin requirements, 26 Member banks (See also Depository institutions)	loan associations) Time and savings deposits, 4, 14, 18, 19, 20, 21, 22, 23
Federal funds and repurchase agreements, 7	Trade, foreign, 54
Reserve requirements, 9	Treasury cash, Treasury currency, 5
Mining production, 48	Treasury deposits, 5, 11, 27
Mobile homes shipped, 49	Treasury operating balance, 27
Monetary and credit aggregates, 4, 13	LINEMDL OVMENT 45
Money and capital market rates, 25 Money stock measures and components, 4, 14	UNEMPLOYMENT, 45 U.S. government balances
Mortgages (See Real estate loans)	Commercial bank holdings, 19, 20, 21, 22
Mutual funds, 34	Treasury deposits at Reserve Banks, 5, 11, 27
Mutual savings banks (See Thrift institutions)	U.S. government securities
NATIONAL defence outlose 20	Bank holdings, 19–22, 23, 29
NATIONAL defense outlays, 28 National income, 51	Dealer transactions, positions, and financing, 31 Federal Reserve Bank holdings, 5, 11, 12, 29
rational meone, or	Foreign and international holdings and
OPEN market transactions, 10	transactions, 11, 29, 66
	Open market transactions, 10
PERSONAL income, 52	Outstanding, by type and holder, 27, 29
Prices	Rates, 24
Consumer and producer, 44, 50 Stock market, 26	U.S. international transactions, 53–67
Prime rate, 24	Utilities, production, 48
Producer prices, 44, 50	VETERANS Administration, 36, 37
Production, 44, 47	
Profits, corporate, 34	WEEKLY reporting banks, 21-23
DEAL	Wholesale (producer) prices, 44, 50
REAL estate loans Banks, by classes, 17, 21, 22, 37	YIELDS (See Interest rates)
Dains, by Classes, 17, 21, 22, 37	TILLIDS (See IIIICICM TAICS)

# Federal Reserve Board of Governors and Official Staff

ALAN GREENSPAN, Chairman DAVID W. MULLINS, JR., Vice Chairman WAYNE D. ANGELL EDWARD W. KELLEY, JR.

#### OFFICE OF BOARD MEMBERS

JOSEPH R. COYNE, Assistant to the Board
DONALD J. WINN, Assistant to the Board
THEODORE E. ALLISON, Assistant to the Board for Federal
Reserve System Affairs
LYNN S. FOX, Special Assistant to the Board
WINTHROP P. HAMBLEY, Special Assistant to the Board
BOB STAHLY MOORE, Special Assistant to the Board
DIANE E. WERNEKE, Special Assistant to the Board

#### LEGAL DIVISION

J. VIRGIL MATTINGLY, JR., General Counsel
SCOTT G. ALVAREZ, Associate General Counsel
RICHARD M. ASHTON, Associate General Counsel
OLIVER IRELAND, Associate General Counsel
KATHLEEN M. O'DAY, Associate General Counsel
MARYELLEN A. BROWN, Assistant to the General Counsel

#### OFFICE OF THE SECRETARY

WILLIAM W. WILES, Secretary
JENNIFER J. JOHNSON, Associate Secretary
BARBARA R. LOWREY, Associate Secretary
ELLEN MALAND, Assistant Secretary

#### DIVISION OF BANKING SUPERVISION AND REGULATION

RICHARD SPILLENKOTHEN, Director STEPHEN C. SCHEMERING, Deputy Director DON E. KLINE, Associate Director WILLIAM A. RYBACK, Associate Director FREDERICK M. STRUBLE, Associate Director HERBERT A. BIERN, Deputy Associate Director ROGER T. COLE, Deputy Associate Director JAMES I. GARNER, Deputy Associate Director HOWARD A. AMER, Assistant Director GERALD A. EDWARDS, JR., Assistant Director JAMES D. GOETZINGER, Assistant Director STEPHEN M. HOFFMAN, JR., Assistant Director LAURA M. HOMER, Assistant Director JAMES V. HOUPT, Assistant Director JACK P. JENNINGS, Assistant Director MICHAEL G. MARTINSON, Assistant Director RHOGER H PUGH, Assistant Director SIDNEY M. SUSSAN, Assistant Director MOLLY S. WASSOM, Assistant Director

#### DIVISION OF INTERNATIONAL FINANCE

EDWIN M. TRUMAN, Staff Director
LARRY J. PROMISEL, Senior Associate Director
CHARLES J. SIEGMAN, Senior Associate Director
DALE W. HENDERSON, Associate Director
DAVID H. HOWARD, Senior Adviser
DONALD B. ADAMS, Assistant Director
PETER HOOPER III, Assistant Director
KAREN H. JOHNSON, Assistant Director
RALPH W. SMITH, JR., Assistant Director

#### DIVISION OF RESEARCH AND STATISTICS

MICHAEL J. PRELL, Director
EDWARD C. ETTIN, Deputy Director
WILLIAM R. JONES, Associate Director
THOMAS D. SIMPSON, Associate Director
LAWRENCE SLIFMAN, Associate Director
DAVID J. STOCKTON, Associate Director
MARTHA BETHEA, Deputy Associate Director
PETER A. TINSLEY, Deputy Associate Director
MYRON L. KWAST, Assistant Director
PATRICK M. PARKINSON, Assistant Director
MARTHA S. SCANLON, Assistant Director
JOYCE K. ZICKLER, Assistant Director
JOHN J. MINGO, Adviser
LEVON H. GARABEDIAN, Assistant Director
(Administration)

#### **DIVISION OF MONETARY AFFAIRS**

DONALD L. KOHN, Director
DAVID E. LINDSEY, Deputy Director
BRIAN F. MADIGAN, Associate Director
RICHARD D. PORTER, Deputy Associate Director
DEBORAH DANKER, Assistant Director
NORMAND R.V. BERNARD, Special Assistant to the Board

#### DIVISION OF CONSUMER AND COMMUNITY AFFAIRS

GRIFFITH L. GARWOOD, Director GLENN E. LONEY, Associate Director DOLORES S. SMITH, Associate Director MAUREEN P. ENGLISH, Assistant Director IRENE SHAWN MCNULTY, Assistant Director

#### JOHN P. LAWARE LAWRENCE B. LINDSEY

#### SUSAN M. PHILLIPS

#### OFFICE OF STAFF DIRECTOR FOR MANAGEMENT

S. DAVID FROST, Staff Director
WILLIAM SCHNEIDER, Special Assignment:
Project Director, National Information Center
PORTIA W. THOMPSON, Equal Employment Opportunity
Programs Officer

#### DIVISION OF HUMAN RESOURCES MANAGEMENT

DAVID L. SHANNON, Director JOHN R. WEIS, Associate Director ANTHONY V. DIGIOIA, Assistant Director JOSEPH H. HAYES, JR., Assistant Director FRED HOROWITZ, Assistant Director

#### OFFICE OF THE CONTROLLER

GEORGE E. LIVINGSTON, Controller
STEPHEN J. CLARK, Assistant Controller (Programs and Budgets)
DARRELL R. PAULEY, Assistant Controller (Finance)

#### DIVISION OF SUPPORT SERVICES

ROBERT E. FRAZIER, Director GEORGE M. LOPEZ, Assistant Director DAVID L. WILLIAMS, Assistant Director

## DIVISION OF INFORMATION RESOURCES MANAGEMENT

STEPHEN R. MALPHRUS, Director
BRUCE M. BEARDSLEY, Deputy Director
MARIANNE M. EMERSON, Assistant Director
PO KYUNG KIM, Assistant Director
RAYMOND H. MASSEY, Assistant Director
EDWARD T. MULRENIN, Assistant Director
DAY W. RADEBAUGH, JR., Assistant Director
ELIZABETH B. RIGGS, Assistant Director
RICHARD C. STEVENS, Assistant Director

#### DIVISION OF RESERVE BANK OPERATIONS AND PAYMENT SYSTEMS

CLYDE H. FARNSWORTH, JR., Director
DAVID L. ROBINSON, Deputy Director (Finance and Control)
CHARLES W. BENNETT, Assistant Director
JACK DENNIS, JR., Assistant Director
EARL G. HAMILTON, Assistant Director
JEFFREY C. MARQUARDT, Assistant Director
JOHN H. PARRISH, Assistant Director
LOUISE L. ROSEMAN, Assistant Director
FLORENCE M. YOUNG, Assistant Director

#### OFFICE OF THE INSPECTOR GENERAL

BRENT L. BOWEN, Inspector General DONALD L. ROBINSON, Assistant Inspector General BARRY R. SNYDER, Assistant Inspector General

# Federal Open Market Committee and Advisory Councils

#### FEDERAL OPEN MARKET COMMITTEE

#### **MEMBERS**

#### ALAN GREENSPAN, Chairman

E. GERALD CORRIGAN, Vice Chairman

Wayne D. Angell Edward G. Boehne Silas Keehn

EDWARD W. KELLEY, JR. JOHN P. LAWARE LAWRENCE B. LINDSEY ROBERT D. McTEER, JR.

DAVID W. MULLINS, JR. SUSAN M. PHILLIPS GARY H. STERN

#### **ALTERNATE MEMBERS**

J. Alfred Broaddus, Jr. Robert P. Forrestal JERRY L. JORDAN JAMES H. OLTMAN ROBERT T. PARRY

#### STAFF

DONALD L. KOHN, Secretary and Economist Normand R.V. Bernard, Deputy Secretary Joseph R. Coyne, Assistant Secretary Gary P. Gillum, Assistant Secretary J. Virgil Mattingly, Jr., General Counsel Ernest T. Patrikis, Deputy General Counsel Michael J. Prell, Economist Edwin M. Truman, Economist Richard G. Davis, Associate Economist

RICHARD W. LANG, Associate Economist
DAVID E. LINDSEY, Associate Economist
LARRY J. PROMISEL, Associate Economist
ARTHUR J. ROLNICK, Associate Economist
HARVEY ROSENBLUM, Associate Economist
KARL A. SCHELD, Associate Economist
CHARLES J. SIEGMAN, Associate Economist
THOMAS D. SIMPSON, Associate Economist
LAWRENCE SLIFMAN, Associate Economist

WILLIAM J. McDonough, Manager of the System Open Market Account Margaret L. Greene, Deputy Manager for Foreign Operations Joan E. Lovett, Deputy Manager for Domestic Operations

#### FEDERAL ADVISORY COUNCIL

E. B. ROBINSON, JR., President JOHN B. McCoy, Vice President

MARSHALL N. CARTER, First District CHARLES S. SANFORD, JR., Second District ANTHONY P. TERRACCIANO, Third District JOHN B. McCoy, Fourth District EDWARD E. CRUTCHFIELD, JR., Fifth District E.B. ROBINSON, JR., Sixth District EUGENE A. MILLER, Seventh District ANDREW B. CRAIG, III, Eighth District JOHN F. GRUNDHOFER, Ninth District DAVID A. RISMILLER, Tenth District CHARLES R. HRDLICKA, Eleventh District RICHARD M. ROSENBERG, Twelfth District

HERBERT V. PROCHNOW, Secretary WILLIAM J. KORSVIK, Associate Secretary

#### CONSUMER ADVISORY COUNCIL

DENNY D. DUMLER, Denver, Colorado, Chairman JEAN POGGE, Chicago, Illinois, Vice Chairman

BARRY A. ABBOTT, San Francisco, California JOHN R. ADAMS, Philadelphia, Pennsylvania JOHN A. BAKER, Atlanta, Georgia VERONICA E. BARELA, Denver, Colorado MULUGETTA BIRRU, Pittsburgh, Pennsylvania DOUGLAS D. BLANKE, St. Paul, Minnesota GENEVIEVE BROOKS, BRONX, New York TOYE L. BROWN, BOSTON, MASSACHUSETTS CATHY CLOUD, Washington, D.C. MICHAEL D. EDWARDS, Yelm, Washington MICHAEL FERRY, St. LOUIS, MISSOURI NORMA L. FREIBERG, New Orleans, Louisiana LORI GAY, LOS Angeles, California DONALD A. GLAS, Hutchinson, Minnesota

BONNIE GUITON, Charlottesville, Virginia
JOYCE HARRIS, Madison, Wisconsin
GARY S. HATTEM, New York, New York
JULIA E. HILER, Marietta, Georgia
RONALD HOMER, BOSTON, Massachusetts
THOMAS L. HOUSTON, Dallas, Texas
HENRY JARAMILLO, Belen, New Mexico
EDMUND MIERZWINSKI, Washington, D.C.
JOHN V. SKINNER, Irving, Texas
LOWELL N. SWANSON, Portland, Oregon
MICHAEL W. TIERNEY, Washington, D.C.
GRACE W. WEINSTEIN, Englewood, New Jersey
JAMES L. WEST, Tijeras, New Mexico
ROBERT O. ZDENEK, Washington, D.C.

#### THRIFT INSTITUTIONS ADVISORY COUNCIL

DANIEL C. ARNOLD, Houston, Texas, President BEATRICE D'AGOSTINO, Somerville, New Jersey, Vice President

WILLIAM A. COOPER, Minneapolis, Minnesota PAUL L. ECKERT, Davenport, Iowa GEORGE R. GLIGOREA, Sheridan, Wyoming THOMAS J. HUGHES, Merrifield, Virginia KERRY KILLINGER, Seattle, Washington CHARLES JOHN KOCH, Cleveland, Ohio ROBERT McCARTER, New Bedford, Massachusetts NICHOLAS W. MITCHELL, JR., Winston-Salem, North Carolina STEPHEN W. PROUGH, Irvine, California THOMAS R. RICKETTS, Troy, Michigan

### Federal Reserve Board Publications

For ordering assistance, write PUBLICATIONS SERVICES, MS-138, Board of Governors of the Federal Reserve System, Washington, DC 20551 or telephone (202) 452-3244 or FAX (202) 728-5886. When a charge is indicated, payment should accompany request and be made payable to the Board of Governors of the Federal Reserve System. Payment from foreign residents should be drawn on a U.S. bank.

THE FEDERAL RESERVE SYSTEM—PURPOSES AND FUNCTIONS. 1984, 120 pp.

Annual Report.

Annual Report: Budget Review, 1991–92

FEDERAL RESERVE BULLETIN. Monthly. \$25.00 per year or \$2.50 each in the United States, its possessions, Canada, and Mexico. Elsewhere, \$35.00 per year or \$3.00 each.

ANNUAL STATISTICAL DIGEST: period covered, release date, number of pages, and price.

1981	October 1982	239 pp.	\$ 6.50
1982	December 1983	266 pp.	\$ 7.50
1983	October 1984	264 pp.	\$11.50
1984	October 1985	254 pp.	\$12.50
1985	October 1986	231 pp.	\$15.00
1986	November 1987	288 pp.	\$15.00
1987	October 1988	272 pp.	\$15.00
1988	November 1989	256 pp.	\$25.00
1980-89	March 1991	712 pp.	\$25.00
1990	November 1991	185 pp.	\$25.00
1991	November 1992	215 pp.	\$25.00

SELECTED INTEREST AND EXCHANGE RATES—WEEKLY SERIES OF CHARTS. Weekly. \$30.00 per year or \$.70 each in the United States, its possessions, Canada, and Mexico. Elsewhere, \$35.00 per year or \$.80 each.

THE FEDERAL RESERVE ACT and other statutory provisions affecting the Federal Reserve System, as amended through August 1990. 646 pp. \$10.00.

REGULATIONS OF THE BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM.

ANNUAL PERCENTAGE RATE TABLES (Truth in Lending— Regulation Z) Vol. I (Regular Transactions). 1969. 100 pp. Vol. II (Irregular Transactions). 1969. 116 pp. Each volume \$2.25; 10 or more of same volume to one address, \$2.00 each.

Introduction to Flow of Funds. 1980. 68 pp. \$1.50 each; 10 or more to one address, \$1.25 each.

Federal Reserve Regulatory Service. Looseleaf; updated at least monthly. (Requests must be prepaid.)

Consumer and Community Affairs Handbook. \$75.00 per year.

Monetary Policy and Reserve Requirements Handbook. \$75.00 per year.

Securities Credit Transactions Handbook. \$75.00 per year.

The Payment System Handbook. \$75.00 per year. Federal Reserve Regulatory Service. 3 vols. (Contains all four Handbooks plus substantial additional material.) \$200.00 per year.

Rates for subscribers outside the United States are as follows and include additional air mail costs:

Federal Reserve Regulatory Service, \$250.00 per year.

Each Handbook, \$90.00 per year.

THE U.S. ECONOMY IN AN INTERDEPENDENT WORLD: A MULTI-COUNTRY MODEL, May 1984. 590 pp. \$14.50 each.

WELCOME TO THE FEDERAL RESERVE, March 1989, 14 pp. INDUSTRIAL PRODUCTION—1986 EDITION. December 1986. 440 pp. \$9.00 each.

FINANCIAL FUTURES AND OPTIONS IN THE U.S. ECONOMY. December 1986. 264 pp. \$10.00 each.

FINANCIAL SECTORS IN OPEN ECONOMIES: EMPIRICAL ANALY-SIS AND POLICY ISSUES. August 1990. 608 pp. \$25.00 each.

#### CONSUMER EDUCATION PAMPHLETS

Short pamphlets suitable for classroom use. Multiple copies are available without charge.

Consumer Handbook on Adjustable Rate Mortgages

Consumer Handbook to Credit Protection Laws

A Guide to Business Credit for Women, Minorities, and Small

How to File A Consumer Credit Complaint

Series on the Structure of the Federal Reserve System

The Board of Governors of the Federal Reserve System The Federal Open Market Committee

Federal Reserve Bank Board of Directors

Federal Reserve Banks

Organization and Advisory Committees

A Consumer's Guide to Mortgage Lock-Ins

A Consumer's Guide to Mortgage Settlement Costs

A Consumer's Guide to Mortgage Refinancings

Home Mortgages: Understanding the Process and Your Right to Fair Lending

Making Deposits: When Will Your Money Be Available?

When Your Home is on the Line: What You Should Know About Home Equity Lines of Credit

### STAFF STUDIES: Summaries Only Printed in the Bulletin

Studies and papers on economic and financial subjects that are of general interest. Requests to obtain single copies of the full text or to be added to the mailing list for the series may be sent to Publications Services.

Staff Studies 1-145 are out of print.

- 146. THE ROLE OF THE PRIME RATE IN THE PRICING OF BUSINESS LOANS BY COMMERCIAL BANKS, 1977–84, by Thomas F. Brady. November 1985. 25 pp.
- 147. REVISIONS IN THE MONETARY SERVICES (DIVISIA) IN-DEXES OF THE MONETARY AGGREGATES, by Helen T. Farr and Deborah Johnson. December 1985. 42 pp.
- 148. THE MACROECONOMIC AND SECTORAL EFFECTS OF THE ECONOMIC RECOVERY TAX ACT: SOME SIMULATION RESULTS, by Flint Brayton and Peter B. Clark. December 1985. 17 pp.
- 149. THE OPERATING PERFORMANCE OF ACQUIRED FIRMS IN BANKING BEFORE AND AFTER ACQUISITION, by Stephen A. Rhoades. April 1986. 32 pp.
- 150. STATISTICAL COST ACCOUNTING MODELS IN BANKING: A REEXAMINATION AND AN APPLICATION, by John T. Rose and John D. Wolken. May 1986. 13 pp.
- 151. RESPONSES TO DEREGULATION: RETAIL DEPOSIT PRICING FROM 1983 THROUGH 1985, by Patrick I. Mahoney, Alice P. White, Paul F. O'Brien, and Mary M. McLaughlin. January 1987. 30 pp.
- 152. DETERMINANTS OF CORPORATE MERGER ACTIVITY: A REVIEW OF THE LITERATURE, by Mark J. Warshawsky. April 1987. 18 pp.
- 153. STOCK MARKET VOLATILITY, by Carolyn D. Davis and Alice P. White. September 1987. 14 pp.
- 154. THE EFFECTS ON CONSUMERS AND CREDITORS OF PROPOSED CEILINGS ON CREDIT CARD INTEREST RATES, by Glenn B. Canner and James T. Fergus. October 1987. 26 pp.
- 155. THE FUNDING OF PRIVATE PENSION PLANS, by Mark J. Warshawsky. November 1987. 25 pp.
- 156. International Trends for U.S. Banks and Banking Markets, by James V. Houpt. May 1988. 47 pp.
- 157. M2 PER UNIT OF POTENTIAL GNP AS AN ANCHOR FOR THE PRICE LEVEL, by Jeffrey J. Hallman, Richard D. Porter, and David H. Small. April 1989. 28 pp.
- 158. THE ADEQUACY AND CONSISTENCY OF MARGIN REQUIRE-MENTS IN THE MARKETS FOR STOCKS AND DERIVATIVE PRODUCTS, by Mark J. Warshawsky with the assistance of Dietrich Earnhart. September 1989. 23 pp.
- 159. New Data on the Performance of Nonbank Subsidiaries of Bank Holding Companies, by Nellie Liang and Donald Savage. February 1990. 12 pp.

- 160. BANKING MARKETS AND THE USE OF FINANCIAL SER-VICES BY SMALL AND MEDIUM-SIZED BUSINESSES, by Gregory E. Elliehausen and John D. Wolken. September 1990. 35 pp.
- 161. A REVIEW OF CORPORATE RESTRUCTURING ACTIVITY, 1980–90, by Margaret Hastings Pickering. May 1991. 21 pp.
- 162. EVIDENCE ON THE SIZE OF BANKING MARKETS FROM MORTGAGE LOAN RATES IN TWENTY CITIES, by Stephen A. Rhoades. February 1992. 11 pp.
- 163. CLEARANCE AND SETTLEMENT IN U.S. SECURITIES MAR-KETS, by Patrick Parkinson, Adam Gilbert, Emily Gollob, Lauren Hargraves, Richard Mead, Jeff Stehm, and Mary Ann Taylor. March 1992. 37 pp.

#### REPRINTS OF SELECTED Bulletin ARTICLES

Some Bulletin articles are reprinted. The articles listed below are those for which reprints are available. Most of the articles reprinted do not exceed twelve pages. Limit of ten copies

Recent Developments in the Bankers Acceptance Market. 1/86. The Use of Cash and Transaction Accounts by American Families. 2/86.

Financial Characteristics of High-Income Families, 3/86.

Prices, Profit Margins, and Exchange Rates. 6/86.

Agricultural Banks under Stress. 7/86.

Foreign Lending by Banks: A Guide to International and U.S. Statistics. 10/86.

Recent Developments in Corporate Finance, 11/86.

Measuring the Foreign-Exchange Value of the Dollar. 6/87.

Changes in Consumer Installment Debt: Evidence from the 1983 and 1986 Surveys of Consumer Finances. 10/87.

Home Equity Lines of Credit. 6/88.

Mutual Recognition: Integration of the Financial Sector in the European Community. 9/89.

The Activities of Japanese Banks in the United Kingdom and in the United States, 1980–88. 2/90.

Industrial Production: 1989 Developments and Historical Revision. 4/90.

Recent Developments in Industrial Capacity and Utilization.

6/90.

Developments Affecting the Profitability of Commercial Ranks

Developments Affecting the Profitability of Commercial Banks. 7/90.

Recent Developments in Corporate Finance. 8/90.

U.S. Exchange Rate Policy: Bretton Woods to Present. 11/90.The Transmission Channels of Monetary Policy: How Have They Changed? 12/90.

Changes in Family Finances from 1983 to 1989: Evidence from the Survey of Consumer Finances. 1/92.

U.S. International Transactions in 1991. 5/92.

## ANTICIPATED SCHEDULE OF RELEASE DATES FOR PERIODIC RELEASES—BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM<sup>1</sup> (PAYMENT MUST ACCOMPANY REQUESTS)

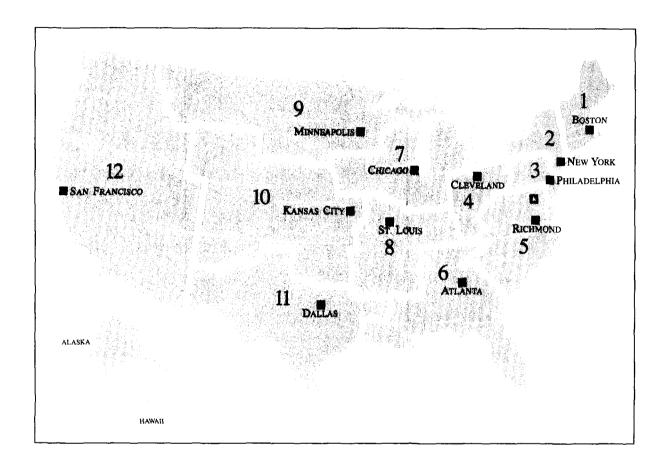
Weekly Releases	Annual rate	Approximate release days	Date of period to which data refer
☐ Aggregate Reserves of Depository Institutions and the Monetary Base. H.3 (502) [1.20]	\$15.00	Thursday	Week ended previous Wednesday
☐ Actions of the Board: Applications and Reports Received. H.2 (501)	\$35.00	Friday	Week ended previous Saturday
☐ Assets and Liabilities of Insured Domestically Chartered and Foreign Related Banking Institutions. H.8 (510) [1.25]	\$15.00	Monday	Wednesday, 3 weeks earlier
☐ Factors Affecting Reserves of Depository Institutions and Condition Statement of Federal Reserve Banks. H.4.1 (503) [1.11]	\$15.00	Thursday	Week ended previous Wednesday
☐ Foreign Exchange Rates. H.10 (512) [3.28]	\$15.00	Monday	Week ended previous Friday
☐ Money Stock, Liquid Assets, and Debt Measures. H.6 (508) [1.21]	\$35.00	Thursday	Week ended Monday of previous week
☐ Selected Borrowings in Immediately Available Funds of Large Commercial Banks. H.5 (507) [1.13]	\$15.00	Wednesday	Week ended Thursday of previous week
☐ Selected Interest Rates. H.15 (519) [1.35]	\$15.00	Monday	Week ended previous Saturday
☐ Weekly Consolidated Condition Report of Large Commercial Banks, and Domestic Subsidiaries. H.4.2 (504) [1.26, 1.30]	\$15.00	Friday	Wednesday, 1 week earlier
Monthly Releases			
☐ Consumer Installment Credit. G.19 (421) [1.55, 1.56]	\$ 5.00	5th working day of month	2nd month previous
☐ Debits and Deposit Turnover at Commercial Banks. G.6 (406) [1.22]	\$ 5.00	12th of month	Previous month
☐ Finance Companies. G.20 (422) [1.51, 1.52]	\$ 5.00	5th working day of month	2nd month previous
☐ Foreign Exchange Rates. G.5 (405) [3.28]	\$ 5.00	1st of month	Previous month
☐ Industrial Production and Capacity Utilization. G.17 (419) [2.12, 2.13]	\$15.00	Midmonth	Previous month
☐ Loans and Securities at all Commercial Banks. G.7 (407) [1.23]	\$ 5.00	3rd week of month	Previous month
☐ Major Nondeposit Funds of Commercial Banks. G.10 (411) [1.24]	\$ 5.00	3rd week of month	Previous month
☐ Research Library—Recent Acquisitions. G.15 (417)	Free of charge	1st of month	Previous month
☐ Selected Interest Rates. G.13 (415) [1.35]	\$ 5.00	1st Tuesday of month	Previous month

<sup>1.</sup> Release dates are those anticipated or usually met. However, please note that for some releases there is normally a certain variability because of reporting or processing procedures. Moreover, for all series unusual circumstances may, from time to time, result in a release date being later than anticipated.

The respective Bulletin tables that report the data are designated in brackets.

Quarterly Releases	Annual rate	Approximate release days	Date of period to which data refer
☐ Agricultural Finance Databook. E.15 (125)	\$ 5.00	End of March, June, September, and December	January, April, July, and October
☐ Country Exposure Lending Survey. E.16 (126)	\$ 5.00	January, April, July, and October	Previous quarter
☐ Flow of Funds Accounts: Seasonally Adjusted and Unadjusted. Z.1 (780) [1.57, 1.58]	\$25.00	23rd of February, May, August, and November	Previous quarter
☐ Flow of Funds Summary Statistics. Z.7 (788) [1.59, 1.60]	\$ 5.00	15th of February, May, August, and November	Previous quarter
☐ Geographical Distribution of Assets and Liabilities of Major Foreign Branches of U.S. Banks. E.11 (121)	\$ 5.00	15th of March, June, September, and December	Previous quarter
☐ Survey of Terms of Bank Lending to Business. E.2 (111) [4.23]	\$ 5.00	Midmonth of March, June, September, and December	February, May, August, and November
☐ List of OTC Margin Stocks. E.7 (117)	Free of charge	January, April, July, and October	February, May, August, and November
Semiannual Releases			
☐ Balance Sheets for the U.S. Economy. C.9 (108)	\$ 5.00	October and April	Previous year
☐ Report on the Terms of Credit Card Plans. E.5 (115)	\$ 5.00	March and August	January and June
Annual Releases			
☐ Aggregate Summaries of Annual Surveys of Securities Credit Extension. C.2 (101)	\$ 5.00	February	End of previous June

## Maps of the Federal Reserve System



#### LEGEND

#### Both pages

- Federal Reserve Bank city
- Board of Governors of the Federal Reserve System, Washington, D.C.

#### Facing page

- Federal Reserve Branch city
- Branch boundary

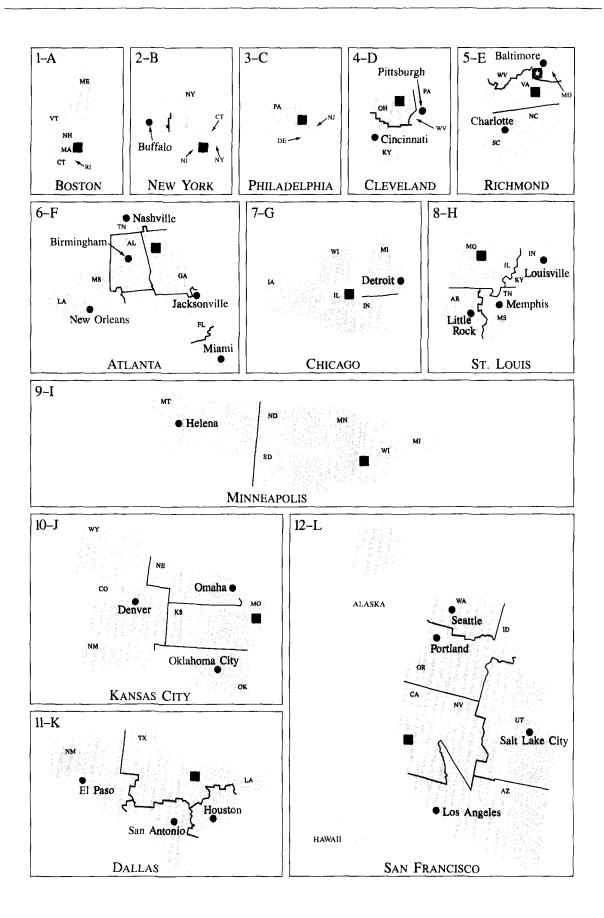
#### NOTE

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 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 December 1991.



# Federal Reserve Banks, Branches, and Offices

FEDERAL RESERVE BANK branch, or facility Zip	Chairman Deputy Chairman	President First Vice President	Vice President in charge of branch
BOSTON* 02106	Jerome H. Grossman Warren B. Rudman	Richard F. Syron Cathy E. Minehan	
NEW YORK* 10045	Ellen V. Futter Maurice R. Greenberg	E. Gerald Corrigan James H. Oltman	
Buffalo14240	Joseph J. Castiglia		James O. Aston
PHILADELPHIA 19105	Jane G. Pepper James M. Mead	Edward G. Boehne William H. Stone, Jr.	
CLEVELAND* 44101	A. William Reynolds G. Watts Humphrey, Jr.	Jerry L. Jordan Sandra Pianalto	
Cincinnati         45201           Pittsburgh         15230	Marvin Rosenberg Robert P. Bozzone	<del>-</del>	Charles A. Cerino <sup>1</sup> Harold J. Swart <sup>1</sup>
RICHMOND*23219	Anne Marie Whittemore Henry J. Faison	J. Alfred Broaddus, Jr. Jimmie R. Monhollon	
Baltimore	Rebecca Ĥahn Windsor Anne M. Allen		Ronald B. Duncan! Walter A. Varvel! John G. Stoides!
ATLANTA 30303	Edwin A. Huston Leo Benatar	Robert P. Forrestal Jack Guynn	Donald E. Nelson <sup>1</sup>
Birmingham       35283         Jacksonville       32231         Miami       33152         Nashville       37203         New Orleans       70161	Donald E. Boomershine Joan D. Ruffier R. Kirk Landon James R. Tuerff Lucimarian Roberts	Jack Guyun	Fred R. Herr I James D. Hawkins I James T. Curry III Melvyn K. Purcell Robert J. Musso
CHICAGO*	Richard G. Cline Robert M. Healey J. Michael Moore	Silas Keehn William C. Conrad	Roby L. Sloan <sup>1</sup>
ST. LOUIS63166	Robert H. Quenon Janet McAfee Weakley	Thomas C. Melzer James R. Bowen	
Little Rock       72203         Louisville       40232         Memphis       38101	Robert D. Nabholz, Jr. John A. Williams Seymour B. Johnson	Junes II. Dowell	Karl W. Ashman Howard Wells John P. Baumgartner
MINNEAPOLIS 55480	Delbert W. Johnson Gerald A. Rauenhorst	Gary H. Stern Colleen K. Strand	
Helena 59601	James E. Jenks		John D. Johnson
KANSAS CITY 64198	Burton A. Dole, Jr. Herman Cain	Thomas M. Hoenig Henry R. Czerwinski	
Denver         80217           Oklahoma City         73125           Omaha         68102	Barbara B. Grogan Ernest L. Holloway Sheila Griffin	·	Kent M. Scott David J. France Harold L. Shewmaker
DALLAS 75201	Leo E. Linbeck, Jr. Cece Smith	Robert D. McTeer, Jr. Tony J. Salvaggio	
El Paso       79999         Houston       77252         San Antonio       78295	W. Thomas Beard, III Judy Ley Allen Erich Wendl		Sammie C. Clay Robert Smith, III <sup>1</sup> Thomas H. Robertson
SAN FRANCISCO 94120	James A. Vohs Judith M. Runstad	Robert T. Parry Patrick K. Barron	
Los Angeles       90051         Portland       97208         Salt Lake City       84125         Seattle       98124	Donald G. Phelps William A. Hilliard Gary G. Michael George F. Russell, Jr.	-	John F. Moore <sup>1</sup> E. Ronald Liggett <sup>1</sup> Andrea P. Wolcott Gordon Werkema <sup>1</sup>

<sup>\*</sup>Additional offices of these Banks are located at Lewiston, Maine 04240; Windsor Locks, Connecticut 06096; Cranford, New Jersey 07016; Jericho, New York 11753; Utica at Oriskany, New York 13424; Columbus, Ohio 43216; Columbia, South Carolina 29210; Charleston, West Virginia 25311; Des Moines, Iowa 50306; Indianapolis, Indiana 46204; and Milwaukee, Wisconsin 53202.

<sup>1.</sup> Senior Vice President.