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# **Electronic Transfer of Government Benefits**

John C. Wood and Dolores S. Smith, of the Board's Division of Consumer and Community Affairs, prepared this article.

In 1990, the federal government paid recipients more than \$400 billion in social security and other government benefits, and state-administered programs paid another \$95 billion or so. Almost 60 percent of the federal payments and nearly all the state funds were disbursed by paper check. To increase the efficiency and minimize the cost of disbursing funds, and to improve the service to benefit recipients, agencies at the federal and state levels are working to move toward electronic delivery of these payments. The Social Security Administration and the Department of the Treasury, for example, have launched a major effort to increase the direct deposit of social security payments to recipients' bank accounts.

A problem arises when an individual has no deposit account at a financial institution: Benefits cannot then be disbursed by direct deposit of funds. Government agencies are exploring an alternative method called electronic benefit transfer (EBT) for delivering cash benefits, particularly to low-income recipients. In the EBT systems now in place, recipients use automated teller machines (ATMs), point-of-sale (POS) terminals, and other electronic devices to withdraw their benefits. The recipient generally gains access to the funds by using a combination of a plastic card with a magnetic stripe and a personal identification number. The electronic terminals that disburse benefits are attended in some cases, unattended in others. Some facilities are part of an existing commercial ATM or POS network. Other facilities are specially dedicated terminals in a stand-alone system---that is, a system that operates for the sole benefit of these recipients.

Government interest in EBT is not limited to those agencies that disburse cash benefits. The U.S. Department of Agriculture (USDA), which administers the food stamp program at the federal level through its Food and Nutrition Service, has been a pioneer in testing the use of EBT to replace the issuance of food stamp coupons. Electronic delivery of food stamp benefits enables eligible recipients, using electronic POS terminals at participating grocery stores, to shop with an EBT card instead of with coupons. The Congress recently authorized USDA to offer state agencies EBT systems as an alternative method for delivering food stamp benefits. Until now, states have been required by federal law to issue paper coupons unless they obtain special approval for EBT demonstration projects.

An EBT system offers opportunities for improving the delivery service to recipients, maximizing the efficiency of operations at state agencies, and minimizing costs for all parties. It also brings major challenges: Building these systems to work efficiently and cost effectively for all the parties involved will take cooperative effortsamong government agencies at the federal and state levels, financial institutions, regional networks of ATMs and POS terminals, members of the retail food industry, others in the private sector, and benefit recipients. This article gives an overview of the developing interest in EBT among these various parties. It describes some of the pilot programs that have tested the practicality of electronic delivery and reviews issuesincluding those related to the Electronic Fund Transfer Act and the Federal Reserve Board's Regulation E-that the implementation of EBT programs raises.

#### BACKGROUND

Most government benefits today are paid by checks mailed to recipients. The check-based system can pose difficulties, however. Because checks can be lost in the mail or stolen, some recipients may never receive their checks and

	Total		Without bank accounts	
Program	Percent of U.S. population'	Number	Percent	Number
Aid to Families with Dependent Children	3	2,791 798 1 916	75 74 73	2,084 587 4,294
Women and infant care Supplemental security income Social security Pensions	2	5,916 1,384 2,205 23,887 7,770	56 50 14 8	4,294 782 1,106 3,395 597

Families, total and those without bank accounts, participating in selected government programs, 1985 Number in thousands

1. Based on a projected population of 92.9 million families. SOURCE. U.S. Department of Commerce, Bureau of the Census, Survey

may need to have them replaced. Delays in mail delivery may make the benefits late. Those recipients who have no deposit accounts may have difficulty or may incur high costs in converting the checks into spendable funds. And recipients who must take the entire benefit payment at once run risks in carrying around several hundred dollars or more.

In some benefit programs, such as social security and U.S. government pensions, a large proportion of recipients receive the funds through direct deposit to their account at a financial institution, a system that is well established and generally works smoothly for them. Those recipients who have no bank account, however, do not have the option of direct deposit.

### Account Holding and Check Cashing

According to Census Bureau data, the proportion of households not having deposit accounts is considerably higher among recipients of government benefit programs than among the general population. In 1985, 39 percent of families receiving state and local government benefit payments had no bank accounts, compared with about 17 percent of all U.S. families. A similar trend holds for federal benefit programs: Among recipients of supplemental security income payments, for example, 50 percent had no bank accounts (table 1).

Low-income consumers are in general the least likely to hold deposit accounts: As table 2 shows, 26 percent of households in the lowest income quintile in 1986 had no checking or savings account, compared with less than 0.5 percent of of Income and Program Participation, 1985 data as analyzed by the General Accounting Office, Government Check-Cashing Issues (GAO, 1988), p. 44.

households in the two highest quintiles. Many of these low-income households receive government benefit payments.

Some of the reasons that low-income consumers give for not holding deposit accounts are the cost, the lack of sufficient funds to open an account or to make having one worthwhile, difficulty in monitoring the account balance, preference for dealing with cash and money orders rather than checks, mistrust of financial institutions, and inconvenient bank hours or locations.

Consumers without an account can receive government payments in check form, cash the check, and conduct their financial affairs using cash and money orders. They may have problems, however, in places where depository institutions will not cash checks for noncustomers. Surveys show varying results on the willingness of depository institutions to cash checks for noncustomers. A report by the General Accounting Office (GAO) to the Congress indicated that in 1985 some 86 percent of banks and 55 percent of thrifts cashed U.S. Treasury

2. Percentage of households holding no deposit accounts, by income quintile, 1977 and 1986<sup>1</sup>

	Quintile	197	7 1986
Lowest			26
Third Fourth		oui au	
Highest All			10
en crande	felicea marria	2125	

1. \* Less than 0.5 percent.

SOURCES. Thomas A. Durkin and Gregory E. Elliehausen, 1977 Consumer Credit Survey; June 1986 Survey of Consumer Attitudes, Survey Research Center, University of Michigan. checks for noncustomers. The GAO noted that other studies had yielded differing figures: The Independent Bankers Association of America (IBAA) had surveyed 1,767 banks, one quarter of its membership, in 1984 and found that 68 percent of responding institutions cashed government checks free of charge for noncustomers. In contrast, the Association of Community Organizations for Reform Now in a 1986 study of 344 institutions reported 12 percent were willing, and the Consumer Federation of America (CFA) in a 1988 survey of 191 institutions found 29 percent.

Differences in the results of these studies may have resulted partly from the way the surveys were conducted. The GAO study was limited to the cashing of U.S. Treasury checks. That some institutions may be more willing to cash federal checks than to cash state or local government checks could have contributed to the high percentage of institutions in the GAO study. Moreover, of the four surveys, the GAO survey was the only one based on sampling techniques that could be projected nationwide. Institutions in the CFA survey were located mainly in urban areas; those in the IBAA survey, mostly in small towns or rural communities where banks appear more willing to cash checks for noncustomers than are their counterparts in metropolitan areas.

Cashing checks for a fee at nonbank locations, such as check-cashing centers or various retail outlets, is an alternative for these recipients. According to the National Check Cashers Association, a trade group, about 3,000 check-cashing centers were in operation in 1988, mostly in urban areas. Check-cashing fees are regulated in only a few states, including Illinois, New York, and New Jersey. Even in these states, the fees allowed may seem high to low-income recipients of government benefits. Cashing a \$500 social security check, for example, can cost up to \$7.50 in New Jersey, where cashing out-of-state checks (including checks drawn on the U.S. Treasury) is subject to a 1.5 percent charge. A 1987 survey of sixty check-cashing centers in twenty major cities by the CFA reported a median charge to cash a \$500 government check of 1.5 percent (\$7.50) and an average charge of 1.69 percent (\$8.47).

# Legislative Proposals

Concern that existing systems may inadequately meet the financial services needs of benefit recipients (or of low-income consumers in general) has led to proposed legislation intended to remedy the situation. Bills introduced in recent sessions of the Congress call for depository institutions to offer government check-cashing services and basic banking accounts. (Basic banking often refers to an account that has low fees and minimum balance requirements and that allows the writing of a limited number of checks.) In the current session, Chairman Henry Gonzalez of the House Committee on Banking, Finance and Urban Affairs has introduced an omnibus bill for the reform and restructuring of the banking industry that includes provisions for basic banking and government check cashing. H.R. 6 calls for banks to offer basic accounts with limited fees, a minimum balance of no more than \$25, a maximum balance of \$1,000 (to limit the use of the accounts to low-income consumers), and at least ten withdrawals per month. The bill also calls for institutions to cash government checks of \$1,500 or less for a fee of no more than \$2.00 for individuals who register with the bank.

Senator Howard Metzenbaum has also introduced legislation. S.415 is similar to the basic banking provisions of H.R. 6; the minimum balance that banks can set for maintenance of the account, however, cannot exceed \$1.00. S.414 generally parallels the government check-cashing provisions of H.R.6, except that the permissible fee for check cashing, rather than being set at \$2.00, is limited to an amount to be determined by the Federal Reserve Board based on cost studies. Financial institutions generally have opposed such legislation, arguing that it would subject them to increased risk from fraud and costs not adequately covered by revenues. They also have said that such legislation is unnecessary because many institutions already offer basic banking and government check-cashing services on a voluntary basis.

Some states—including Connecticut, Illinois, Massachusetts, Minnesota, Pennsylvania, and Rhode Island—have enacted basic banking or check-cashing laws. Most of these laws are more limited than the legislation before the Congress, and some apply only to individuals in certain age groups. In Massachusetts, for example, banks may not impose fees, other than for the dishonor of a check for insufficient funds, on a checking or savings account held by anyone 65 years of age or older or 18 years or younger. In Minnesota and Pennsylvania, basic banking laws come into play only when an institution engages in or is applying for interstate operations.

Though the pending federal legislation addresses some needs of government benefit recipients—primarily those revolving around fees and minimum balances for accounts—it does not resolve other problems that recipients are perceived to have with the present paper-based payment system.

## SUPPORT FOR EBT

Interest in and support for examining EBT as a delivery alternative to paper-based systems is building in both the public and private sectors. The Department of the Treasury, which serves as the federal government's money manager, has taken a lead in promoting the development of systems for electronic benefit transfers as a complement to the agency's activities on the directdeposit front.

One of the Treasury's goals for EBT is to help ensure that cost-effective electronic technologies are used in ways that best meet the needs of both the recipients and the providers. For the past two years, the Treasury has regularly convened task forces with representation from government agencies, financial institutions, the retail food industry, and consumer groups. Through these efforts, the Treasury is seeking to ensure the coordination of EBT among the multitude of federal agencies engaged in benefits delivery and to facilitate effective liaison with the private sector.

In support of the Treasury's interagency coordination, the Office of Management and Budget (OMB) recently established a steering committee of top-level officials to develop the government's plan for implementing EBT. OMB has identified EBT as a management objective, its goal being to improve the quality and reduce the costs of benefit payment services. The agency projects that annual savings of up to \$250 million are possible.

Among the federal program agencies that administer benefits delivery to recipients, two are at the forefront of EBT development: USDA's Food and Nutrition Service, with its food stamp program, and the Family Support Administration (part of the Department of Health and Human Services), which oversees the delivery of Aid to Families with Dependent Children (AFDC) benefits. The agencies have funded, separately and jointly, pilot projects to test EBT in different environments, utilizing various electronic technologies and systems. They serve as the conduit for federal dollars to state government agencies, which will also be major players in the development of EBT given their role as the local administrators of food stamp, AFDC, and other public assistance programs.

A major impetus for the development and growth of food stamp EBT programs, in particular, will come from the recent enactment of the Food, Agriculture, Conservation, and Trade Act of 1990 (Pub. L. 101-624), which amends the Food Stamp Act. Until now, federal law has required that benefits under the food stamp program be issued in paper form. To engage in EBT, state agencies have had to obtain a special waiver from USDA for demonstration projects. With USDA's approval, states will be able to establish EBT programs for food stamp benefits on a permanent basis, instead of only as pilot projects like those instituted thus far.

The 1990 amendments direct USDA to issue regulations establishing standards for cost-effectiveness; protection of recipients (to ensure "privacy, ease of use, and access to and service in retail food stores"); terms of participation by retailers and financial institutions; and the security, reliability, and processing speed of the system. The regulations are to ensure that the operational cost of an EBT system, including the pro rata cost of capital expenditures and other startup costs, does not exceed the cost of the paperbased food stamp system.

Another new federal law may provide added incentive for greater use of electronics for governmental fund transfers. The Cash Management Improvement Act of 1990 (Pub. L. 101-453) directs the Treasury to issue regulations that will ensure equity between federal and state agencies in the transfer of funds. The act will require the payment of interest if funds are drawn in advance of the state's need or are held longer than necessary. If a state agency draws federal funds on the same day that benefit checks are mailed, for example, the state may have to pay interest to the federal government from that day until the day the checks are paid. If the agency instead transfers benefit funds electronically on the same day it draws the federal funds, the state can avoid interest payments. The regulations must be in place by October 1992.

In the private sector, various groups are directly affected by the implementation of EBT. For financial institutions and regional networks, EBT can bring added transactions at ATMs not operating at full capacity and thus generate revenues from fees. In EBT programs that replace food stamp coupons with electronic delivery, depository institutions will no longer have to be involved in the redemption of coupons. There will also be reduced need for check-cashing services and, thus, less risk of loss from fraud. The American Bankers Association has sponsored two annual conferences on EBT, drawing attendees from state and federal agencies and the private sector. The Consumer Bankers Association recently prepared an issues paper to familiarize its members with the implications of EBT and to encourage their participation in its development.

Food retailers that currently deal with paper food stamps may be able to improve efficiency through the use of electronic substitutes. The Food Marketing Institute, which represents about 1,600 food retailers and wholesalers (including almost every major supermarket chain), has had a committee on electronic fund transfers since the early 1980s to keep up to date on the use of debit cards in POS transactions at checkout lanes. The institute encourages the involvement of grocer representatives while EBT projects are being planned, so that their concerns about POS installations may be adequately addressed. The group has voiced strong support for the concept of EBT and for its implementation at the most rapid practical pace.

Others in the private sector, too, are taking a direct role in the evolution of EBT. In 1990, the

Electronic Funds Transfer Association, a group representing the various industries involved in electronic funds transfer, established an interindustry task force to target the creation of operational standards for implementing EBT and to resolve other issues while systems are still being developed and tested. Representatives on the task force include financial institutions, retailers, data-processing vendors, ATM and POS regional networks, and others interested in addressing the many issues raised by EBT. Staff members from the Treasury Department, the Federal Reserve Board, the Food and Nutrition Service, the Family Support Administration, and other agencies join in task force discussions to facilitate the exchange of ideas and information between the private and public sectors. The association also recently hosted its first annual conference on EBT.

Added support for EBT has come from the Federal Reserve's Consumer Advisory Council, particularly members of its Committee on Depository and Delivery Systems. The council's thirty members represent consumer and communitybased organizations, financial institutions, colleges and universities, and state government. At its meeting in June 1990, the council unanimously adopted a resolution urging the Federal Reserve Board to take a leadership role in encouraging the development of EBT.

# EARLY EBT PROJECTS: TESTING THE SYSTEM

Programs at the federal and state levels have tested the practicality of EBT. Such programs in parts of New York, Pennsylvania, and Minnesota have become fully operational and permanent after going through a demonstration or pilot phase. For these programs, the focus now is on expansion to other counties or even to the entire state. In Maryland, New Mexico, Texas, and other states, EBT projects are still in their formative stages.

In general, an EBT system functions much like a commercial system for electronic fund transfers. An eligible recipient receives a plastic magnetic-striped card and a personal identification number (PIN). The card may also carry a photo-

graph of the recipient and a signature panel. To access the benefits, a recipient goes to a terminal that may be dedicated to the system or may be part of an existing ATM or POS network. The recipient inserts the card into a device that reads the magnetic stripe or, in the case of an attended terminal, presents the card to a clerk who sweeps the card through the stripe reader. The recipient's identity is usually verified by the PIN, and the terminal communicates with an authorization center to ascertain that the recipient is eligible for benefits, that the card has not been reported lost or stolen, and that benefits are available. In an attended terminal system, the recipient may sign a voucher printed by the terminal to permit a clerk to compare signatures. If everything is in order, the recipient receives the benefits through a cash disbursement or, in the case of food stamp benefits, by authorization for a food purchase.

Programs may use either government accounts or accounts in recipients' names. If government accounts are used, a settlement takes place after the close of each business day: The program agency authorizes a fund transfer from its account to a contractor financial institution, which in turn reimburses the terminal-operating institutions and retail grocers. If accounts in recipients' names are used, the program agency transfers funds monthly, by way of the automated clearing house, to the contractor financial institution so that funds are there to cover withdrawals of benefits during the cycle.

# New York City: Automated Delivery of Cash and Coupons

New York City was among the first areas to have automated delivery of government benefits. Its system for handling the disbursement of AFDC benefits and food stamps, known as the Electronic Payment File Transfer System, began operations as a pilot in 1981. It received high marks from recipients in the pilot: Ninety-four percent preferred it to the check-based system. By 1986 the system was in full-scale operation, and now it serves about 500,000 households. It is limited to disbursing public assistance in cash and food stamp benefits in the form of paper coupons at attended terminals. Because of its reliance on manual disbursement, some may not consider it an EBT system in the strictest sense; but it does demonstrate a use of electronic technology to facilitate the delivery of benefits.

The New York City system uses attended terminals in approximately 425 locations, most in check-cashing centers and some in bank branches. The card issued to participants contains a photograph, a signature panel, and a magnetic stripe; a clerk disburses the benefits after verifying the identity of the holder through the magnetic stripe and by comparing the person presenting the card to the photograph and the signature on a voucher that the person signs to the signature on the card.

When the benefit is redeemed, the recipient must take the entire amount due. The recipient's benefits are debited immediately to prevent duplicate issuance. Transactions for each day are processed nightly through the automated clearing house, and funds are transferred to reimburse the redemption centers.

Participants have reacted favorably to the system. The New York City Human Resources Administration reports reduced administrative and check-reconciliation costs, reduced incidence of lost or stolen benefits, and increased ability to prevent the issuance of benefits after a case is closed (for example, when a recipient dies or becomes ineligible). Agency savings amount to about \$9 million annually. The recipients also favor the arrangement: They can obtain public assistance benefits and food stamps at the same time and place, they have no check-cashing fees to pay, and stolen checks are no longer a problem. For financial institutions that cash checks for noncustomers, the New York City delivery system means that branches can avoid the congestion caused by many people cashing government checks on the day of receipt and that the likelihood of accepting a fraudulent check is reduced.

## Reading, Pennsylvania: Electronic Delivery of Food Stamp Benefits

In 1984 a demonstration project for the electronic delivery of food stamp benefits began in Reading, Pennsylvania, under the auspices of the Food and Nutrition Service of the USDA. The system used POS terminals in about 125 grocery stores, with cards and PINs issued to participants to replace the traditional paper coupons. Unlike the New York City system, the Reading program enabled recipients to pay directly for food by debiting their benefit account at the checkout counter. No limitation was placed on the number of draws permitted per month for participants. About 3,400 households were involved in the pilot.

Participating financial institutions, recipients, and food retailers generally favored the electronic system over the previous paper-based program. The evaluation report indicated that loss and theft of benefits were reduced and that costs to banks and retailers of handling food coupons were eliminated, as were costs to the government of producing, storing, and shipping the coupons.

Administrative costs, however, were much higher in the electronic system than in the paperbased system (about \$27 per case per month compared with about \$3 in the old system). The higher cost resulted from the special installation of the POS terminals for the pilot and from an initially small caseload. Now operated by the state, the Reading project in 1988 reported costs of about \$9 per case per month.

## Ramsey County, Minnesota: AFDC Benefits

Minnesota's Ramsey County, in which St. Paul is located, has an EBT system that began as a pilot project in 1987. The program is now in full-scale operation, with about 12,000 recipients. Benefits disbursed include AFDC and other categories of cash public assistance. In developing the system, the county specified that the access card should be designed so that it could eventually also accommodate other programs such as food stamp benefits, which the county expects to add sometime in 1991, and medicaid.

Recipients receive plastic cards with a magnetic stripe, photograph, and signature panel. The Ramsey County system uses ATMs that are part of three existing regional networks. The system also uses attended POS terminals. If clients cannot demonstrate at the end of the training sessions that they can use an ATM, they are restricted to using POS terminals. For both ATM and POS transactions, recipients need not withdraw the entire authorized benefit in one transaction; the county has found that recipients typically average three to four transactions per month.

Participation is mandatory for recipients, except for those who have bank accounts. The county expects to begin offering the recipients who have bank accounts the option of direct deposit of benefits.

In a 1990 evaluation of the pilot, the county reported that 89 percent of participants preferred EBT, whereas 4 percent continued to prefer checks. Advantages to recipients include earlier access to benefits, convenient locations and hours for obtaining benefits, and the flexibility of withdrawing benefits in one lump sum or in several smaller amounts. Ramsey County found that its costs for delivering benefits were lower than they had been under the check-based system.

Except for allowing the use of their ATMs for gaining access to benefits, banks have had little direct involvement in the program. Funds remain in a government account until drawn, and the program agencies and their contractors are responsible for accounting, resolving problems, detecting fraud, and auditing.

# Other EBT Projects

EBT projects are also under way in several other states, including Maryland and New Mexico. Benefits being disbursed in these projects include AFDC, other types of cash public assistance, food stamps, and child support payments.

Begun in 1989 under the auspices of the Family Support Administration and USDA's Food and Nutrition Service, the Maryland pilot makes multiple benefits (AFDC, child support payments, and food stamp benefits) available. It uses existing network ATMs and specially installed POS terminals. The project involves about 5,000 recipients, who may obtain benefits in several draws over the month. About 170 food stores in Baltimore are participating. Approval has just been granted to expand the project statewide.

Another project, sponsored by the Food and Nutrition Service, began in September 1990 in Albuquerque, New Mexico. Initially it involved

only food stamp benefits with AFDC to be added later. Of about 16,000 households receiving food stamps, 7,000 had voluntarily converted to EBT by January 1991; the program became mandatory in February. The program will also serve almost 6,000 households receiving AFDC payments (there is some overlap among recipients in the two programs). The Albuquerque program is noteworthy in that, beyond promoting EBT, it is also serving to advance POS in the commercial environment: The great majority of participating retail grocers have chosen to install terminals that will serve the general population of debit card customers and will even accept credit cards. The government agencies have subsidized the costs attributed to the EBT function; the retailers have paid the difference.

Other possible locations for pilots include Iowa (where food stamp benefits may be added to an existing system for cash benefits), New Jersey, and South Carolina. The Food and Nutrition Service will also test the off-line delivery of food stamp benefits to about 10,000 recipients in Dayton, Ohio. The system will use information in a magnetic chip embedded in the access cards (sometimes called smart cards) rather than in a computer database at a financial institution or data-processing contractor. Thus, the terminal at which benefits are obtained need not communicate with any outside facility at the time of a transaction. With such a system, telecommunication costs decrease (although the cards are more expensive than the ordinary magneticstriped version) and efficiency increases, as time waiting at the checkout counter for authorization may be reduced. As in other pilots, other types of benefits may be added later.

## **Treasury Initiatives**

Besides coordinating interagency efforts, the Treasury Department has pursued several EBT initiatives of its own. The Treasury's first pilot tested the electronic payment of supplemental security income (SSI) benefits through magneticstriped cards at ATMs and POS terminals. SSI benefits, which are payable to aged, blind, and disabled persons in financial need, total approximately \$15 billion annually and go to 4.6 million recipients throughout the United States. Carried out in Baltimore, the SSI pilot ran for twelve months, ending in October 1990. It differed from most other EBT projects to date in that participation was voluntary. About 250 recipients took part in the program. Benefits could be taken in multiple withdrawals rather than all at once. As time passed and they gained confidence in the system, participants became more likely to take advantage of this feature.

The Treasury just launched its second pilot, in Houston. As in Baltimore, participation is voluntary. Benefit funds are held in regular checking accounts, and recipients may make multiple withdrawals. The Houston project covers social security benefits as well as SSI. Almost 400 recipients participate in the program, with a control group of about 500. The control group was chosen from among persons who initially expressed an interest in participating but who ultimately did not sign up.

The primary contractor operating the pilot is a regional terminal network. Recipients can obtain benefits through any ATM or POS terminal in the network; the network itself issues the cards, and, therefore, no network interchange fees will be charged.

The evaluation of the Houston project will differ from evaluations in other pilots in that it will focus also on EBT's effects on crime. The National Institute of Justice, a cosponsor of the project with the Treasury Department and the Social Security Administration, has said that the test will consider robberies, thefts, physical assaults, and white collar crimes.

## **ISSUES RAISED BY EBT**

The projects conducted to date suggest that EBT systems can effectively meet the needs of benefits recipients, as evidenced by the positive endorsements the systems have received in New York City, Ramsey County, and elsewhere. These delivery systems may offer other participants in EBT, as well as the recipients, clear advantages over the paper-based systems they replace. But for EBT programs to become a reality on any major scale, all of the parties with an interest in EBT—including recipients, government program agencies, banks and other financial institutions, retailers, regional networks, service providers such as data-processing firms, and equipment vendors—must undertake cooperative efforts in EBT's evolution and implementation.

Addressing the issues in a way that will further the development of EBT calls for a common understanding of the perspectives of other participants from the private and public sectors. High on the list of the issues are cost factors, which will determine the willingness of the various parties to engage in the system, and factors related to the recipients' needs and concerns. To the extent that piggybacking on existing systems for electronic fund transfers may help make EBT economically feasible, the public and private sectors may have to shape compromises that take into account the interests of all the parties.

# Cost, Operational, and Technical Issues

The economics of EBT are fundamental to its viability. Unless the overall costs of an EBT system are no higher than the costs of the paperbased system it would replace, a government agency may have difficulty justifying and funding the switch from paper to electronics despite the favorable features for benefit recipients.

One factor that may influence the cost of EBT systems is the extent to which providers can use existing terminals and networks, instead of installing equipment specially designed for EBT purposes. Some EBT projects have used privatesector regional ATM networks already in place; because such networks exist in virtually all areas of the country, this approach appears feasible as far as ATMs are concerned. Because ATMs generally do not dispense currency in dollar bills or coins, some other means are required for recipients to obtain their entire benefit payments. Generally the means have been POS terminals, which enable the retail clerk to dispense funds from the cash register.

For the disbursement of food stamp benefits, POS terminals at grocery stores are a necessity. And unlike ATMs, POS terminals are not yet in place in many areas. Where few or no POS terminals exist, they must be installed for an EBT project to function. If the program agency pays the entire cost of installing terminals—as it has in the food stamp pilots thus far—startup costs will be correspondingly higher.

For the retail food industry the placement of terminals has been an important issue: Should terminals be placed in every checkout lane in a grocery store or only in selected lanes? The industry's position has been that terminals should be installed in all lanes to provide better service and to avoid stigmatizing EBT recipients. This issue will be resolved by the new regulations that USDA is to adopt by April 1992. In a mandatory EBT program, participating food stores are to have POS terminals at all checkout lanes, if the store's food stamp sales volume is 15 percent or more of the total sales volume. For stores with less food stamp business, POS terminals must be at a sufficient number of registers to provide "service that is comparable to service provided individuals who are not members of food stamp households," as determined in the regulations.

Even where substantial numbers of ATM and POS terminals exist, piggybacking on existing EFT networks may not necessarily be easy or cost-effective. In the EBT pilots to date, the federal agencies' specifications have included on-line authorization, the use of PINs by recipients, differentiation between food stamp and cash transactions, and the printing of account balances on receipts. Meeting some of these operational requirements could pose problems for the networks if existing equipment is incapable of fulfilling the requirements. The requirement that account balances appear on the transaction receipts that the terminals provide is one such example.

Another issue concerns the way costs will be allocated among participants. So far, the program agencies have borne the costs of EBT projects, compensating financial institutions, retailers, and others for the costs occasioned by EBT. To the extent that private-sector entities derive economic benefits from participating in EBT systems, government agencies may suggest that some sharing of costs is appropriate.

Recipients, too, may benefit economically from not having to pay fees to cash checks or maintain deposit accounts for cash benefits. Another advantage to recipients is the ability to withdraw funds in several transactions: In the check-based system, they had no choice but to take the entire amount in a lump sum. Because a program agency that pays fees on a per-transaction basis may face higher costs, however, the agency may seek to limit the number of free transactions allowed. An alternative is to provide recipients with a certain number of free transactions per month and to give them the option of making additional transactions for a fee.

If startup and other fixed costs can be spread over a large transaction base, the cost per transaction can be minimized. Ideally, for this purpose, the program agency would want to have the entire recipient population in the EBT program, to avoid having to operate dual paperbased and electronic systems.

The majority of EBT programs to date have made participation mandatory; the payment of benefits by check has not been an option in these programs. Pilots for the direct payment of federal benefits, such as the SSI pilot in Baltimore, have allowed voluntary participation. The Social Security Act provides that recipients of SSI benefits may not be required to take part in "experimental, pilot, or demonstration projects" involving SSI benefits; if they do agree to participate, they may still revoke the agreement at any time.

Other issues involve technical and operating standards, including equipment reliability, the availability of backup procedures in case of electronic failure, and security measures against unauthorized access. For example, what are the liabilities if the system breaks down or some other problem occurs? If multiple programs use a common EBT system, how and to what extent can these programs be made consistent? Will the system operate on line or off line? Will PINs or some other identification technology be used?

These are among the issues being studied, from the industry side through the Electronic Funds Transfer Association's EBT task force and other groups and from the government side through the coordinated efforts of the Treasury Department, the Office of Management and Budget, and the program agencies responsible for oversight of benefits delivery. The EFTA's task force, for example, set up a subgroup to address issues associated with using existing EFT networks. Recommendations to federal and state agencies and to EFT networks, processors, and financial institutions will cover a wide range of subjects: standards for the performance and availability of systems and authorization procedures; the authorization databases to support, through one card, the multiple programs for which a recipient is eligible; the card technology to support EBT, including the security standards for PIN encryption; and technical specifications for POS terminals.

### **Recipient Concerns**

Factors that affect costs, and that therefore interest program agencies, financial institutions, food retailers, and other organizations involved in EBT programs, also affect recipients. One example is the placement of terminals. For EBT to meet recipients' needs, the terminals for gaining access to benefits must be in the areas in which the recipients live. These areas are likely to be low-income neighborhoods, which typically have fewer ATMs and POS terminals than other communities. Access may be considered adequate, however, if terminals are available in business districts or in other areas that are adjacent to neighborhoods in which recipients live. Even with few ATMs in an area where programs are being established, access may be sufficient if POS terminals can be installed in grocery stores.

In rural areas, ATMs and POS terminals may be sparsely situated, so rural recipients may have difficulty in getting their benefits. However, bank branches, check-cashing centers, and grocery stores may also be distantly spaced in rural areas, so EBT may not impose any greater disadvantage than the present system.

The issue of accessibility also pertains to special groups such as handicapped, elderly, non-English-speaking, or illiterate recipients. Such people may have difficulty reaching or using terminals, especially ATMs. Some of these problems may be remedied by extra training or multilingual terminals or through allowing authorized representatives of recipients to pick up benefits.

The Americans with Disabilities Act of 1990 (Pub. L. 101-336) is aimed at preventing discrimination against physically or mentally disabled persons. It does not target EBT programs, but because benefit programs may have a relatively high proportion of disabled persons as recipients, issues involving the interpretation and application of the act may arise most often in EBT settings. For example, can the act be interpreted as requiring key pads at ATMs and POS terminals to be coded in Braille so that blind persons may have access? Might it require the installation of ramps for terminals to be accessible to persons in wheelchairs? The Department of Justice issued proposed regulations in February 1991 to implement the act; final rules will become effective January 1992.

A related issue is the personal safety of recipients. If the likelihood of being attacked at or near an ATM is perceived to be greater than it is for the traditional alternative such as a checkcashing center, the accessibility of benefits is somewhat compromised. In the check-based system, however, recipients without deposit accounts also face the risk of being attacked after cashing their checks. While the safety of a checkcashing center may be increased by the presence of other people such as clerical personnel, it may be decreased by the larger amount of cash carried by a recipient after cashing a benefit check.

Consumer groups have expressed concern about making EBT the only available delivery system. Although requiring recipients to obtain benefits through EBT tends to decrease costs, a mandatory system can be criticized for not affording the same freedom of choice to recipients of government benefits that is available to consumers generally. An employee of an organization that offers direct deposit of salary, for example, often can choose instead to receive a paycheck. Even after the funds are in the bank, the person may choose to withdraw them by cashing a check or using an ATM.

Another potential concern for recipients is privacy. Issues about the privacy of electronic data, including financial data, have been debated for some time; the National Commission on Electronic Fund Transfers and the Privacy Protection Study Commission, among others, have studied and reported on these questions. Electronic data systems can facilitate the collection, storage, manipulation, and retrieval of large amounts of information about individuals, and gaining access to data about individuals whose records are in the system can be easy and fast.

In practice, recipients using EBT systems

may have considerably more, rather than less, privacy in their financial dealings than those using paper-based systems. Withdrawing funds by ATM, for example, may allow greater privacy than cashing a public assistance check at a bank or a retail store, especially in a small-town environment. Paying for food purchases at a POS terminal with an EBT card may afford greater privacy than counting out food stamp coupons.

# **REGULATION E**

Among bankers particularly, a key question to any discussion of EBT systems is whether Regulation E applies. This regulation, which implements the Electronic Fund Transfer (EFT) Act (15 U.S.C. 1693 *et seq.*), creates the legal framework of rights and responsibilities for providers of EFT services to consumers. Among them are consumer rights to the disclosure of terms and conditions, to receipts and periodic statements, to error resolution within a certain period of time, and to limits on the consumer's liability for unauthorized transfers.

Regulation E applies to transfers that debit or credit an "account." To date, the Federal Reserve Board has not covered EBT systems in Regulation E so as not to impede the development of the various state and federal pilot programs. This result has been achieved through a narrow interpretation of the regulation, focusing on the Board's legal definition of what constitutes an account. In the official staff commentary to Regulation E, the Board has stated that no "consumer asset account" exists where a government agency, rather than the consumer, has set up the account; consequently, any electronic transfer of funds from such an account-to a consumer or on the consumer's behalf-is not covered by the regulation.

# Application to EBT

Whether EBT programs involve the type of account relationship—with the program agency or a financial institution—that should be covered by the EFT act is currently under review. Several factors argue for coverage:

• The Congress intended the EFT act to have broad scope. The application of the law is not limited to banks and other traditional financial institutions. The statute directs the Federal Reserve Board, in the event that EFT services are offered other than by financial institutions, to ensure that the "disclosures, protections, responsibilities, and remedies" created by the statute are made applicable. Indeed, Regulation E has long reached nonbanking entities-whether or not they hold consumers' accounts-when they engage in activities governed by the statute. The regulation prohibits magazine telemarketers, for instance, from initiating electronic debits to a checking account based on a telephone call to the consumer. To so debit an account, the telemarketer must first obtain a written authorization signed by the consumer, just like any other provider of an electronic fund transfer service.

• The regulation already covers the direct deposit of government benefits into bank accounts—social security or SSI payments, for instance. Should the treatment be different for those who receive these same benefits through an EBT system?

• The law does not exempt governmental bodies. If a government agency chooses to disburse payroll electronically through an ATM system, the transactions are covered. Should the result differ if the funds being disbursed are entitlement monies rather than salary, or because the funds are disbursed through a state agency and not the federal government?

• EBT systems often piggyback on the ATM and POS terminals and networks used for transactions that Regulation E covers. Since Regulation E covers those transactions, coverage of the EBT transfers appears logical.

# Consequences of Coverage

The statute directs the Federal Reserve Board, in prescribing rules under the EFT act, to consider the costs and benefits to all parties—financial institutions, consumers, and other users of EFT. The Board must consider also the rules' effect on the availability of these services to different groups of consumers, particularly low-income consumers. To the extent practicable, the Board is also to demonstrate that the protection accorded consumers by regulations outweighs the costs of compliance imposed on consumers and financial institutions.

Among the questions to be dealt with are those revolving around who must comply and how exactly the rules would be applied. Even a preliminary analysis of the issues makes clear that, while some rules would be easy to implement in the EBT environment, others raise significant policy questions and difficult operational problems.

Issuance of Cards and PINs. Regulation E sets rules for the issuance of debit cards and PINs to consumers. In general, a card and PIN for making electronic fund transfers may be issued only upon request. In an EBT program, consumers applying to receive government benefits normally request cards and PINs willingly because these devices are required to obtain the benefits.

Disclosures. Regulation E requires the disclosure of applicable terms and conditions of EFT service. The purpose of this disclosure is to explain the features of the service and to help consumers understand their rights and responsibilities. Giving these disclosures probably poses little problem in EBT systems. Indeed, government agencies may go far beyond written disclosures in introducing recipients to the EBT program and the technology. In the EBT projects thus far, participants generally have received extensive hands-on training on electronic terminals before receiving their cards and PINs. The disclosures could easily be provided at the same time.

Documentation. Regulation E requires the giving of receipts, when transactions are made at an ATM or POS terminal, and a monthly statement. The receipt documents the transaction through such information as the date, the type and the amount of transfer, and the terminal location. The statement assembles data about all the transactions that took place during the cycle; it provides a way for spotting any errors or unauthorized transactions in account activity.

Because existing ATM and POS systems already provide receipts that comply with Regulation E, this requirement would probably impose little additional burden for EBT programs that piggyback on the commercial systems. Providing periodic statements, however, could be burdensome if statements were sent only because of the regulation, given the costs for paper, internal processing, printing, and postage.

If the transactions performed through an EBT system are relatively infrequent and are uniform in type, the recipients' need for statements may not be great. In the current check-based systems, recipients receive no statements from the program agencies except for notice of changes in the amount of the benefits. A periodic statement may prove less essential also if the terminal receipt contains information about balances or if the recipient can request the information by other means, such as from a terminal or by telephone.

The pilot EBT programs that have been conducted have generally required that the receipts show an account balance. This balance information is particularly useful if recipients can make multiple withdrawals over the month. Providing information about balances may not be a problem in programs that use facilities dedicated to EBT alone. Doing so may be less feasible in systems that piggyback on the existing ATM and POS network systems, which may not have the capacity to perform this function.

For recipients who receive payments from several different government programs, having to provide balances for each program could be a problem. An alternative, which might provide adequate documentation for the recipient, is an initial disclosure of the amount and the scheduled date of each benefit. Another alternative—to use separate cards for the different programs—goes against the objective of using a single EBT system to gain access to benefits from different agencies. Indeed, joint programs may be necessary to make the offering of EBT systems economically feasible.

Notice of Deposits Received. Without the tangible evidence that a paper check gives them, benefit recipients in EBT systems may be uncertain about whether benefits are available to them. For EFT transactions generally, Regulation E requires informing consumers that a scheduled transfer of funds has been credited to their account. Instead of sending a notice, financial institutions are allowed by the regulation to provide a telephone number that the consumer can call to obtain confirmation. EBT systems could use the same procedure. Indeed, the pilot programs have often used audio-response units that recipients can call at any time.

Liability for Loss or Theft. Application of the rules on liability to EBT systems probably represents the greatest dilemma in regard to coverage. Under the EFT act and Regulation E. a consumer is liable for at most \$50 of unauthorized transfers if the consumer reports a lost or stolen card within two business days of learning of the loss or theft. In other cases, the consumer's liability can be as high as \$500 or even unlimited. From the perspective of a low-income recipient, even \$50 may seem too high. Moreover, under the check-based system, if a check is lost or stolen and the endorsement forged, an agency will generally issue a replacement check if the recipient meets certain conditions, such as filing a police report and making a written claim.

While these rules create some protection for consumers, the question arises of who ultimately bears the loss for amounts greater than the consumer's liability. In the typical EFT case, these losses fall on whoever issued the card that gave access to the consumer's account.

In the EBT pilots so far, the unauthorized withdrawal of benefits appears not to have been a problem. State agencies currently apply rules for negligent behavior that impose the risk of loss on the client, and these may tend to discourage claims. Benefit recipients are warned against writing the PIN on the card and against letting others know their PIN. Agencies warn recipients that the card is like cash and that they do not replace lost cash.

Under Regulation E, the result would be different. The legislative record to the act makes clear that the Congress intended liability to be assessed based strictly on how promptly the consumer reports the loss or theft of a card. Writing a PIN on the ATM card or keeping it with the card does not increase the cardholder's liability. To minimize the risk to everyone involved, recipients could be allowed to choose their own PIN. Thus, they would have no need to write down a number they might have difficulty memorizing. The ultimate resolution of this issue could strongly influence an agency's decision on whether to proceed with the adoption of an EBT program.

*Error Resolution*. Regulation E requires investigations of errors to be completed within fixed periods of time. In general, once the consumer alleges an error, the institution has ten business days to resolve it. If more time is needed, the institution may take up to forty-five calendar days, in total, but it must provisionally credit the consumer's account within ten business days for the amount of the alleged error while its investigation continues.

It is not clear whether these rules would create problems for recipients, program agencies, and financial institutions. If benefits are not posted to an account or are posted in the wrong amount, the institution should be able to resolve the matter quickly. The institution would simply check whether in fact the correct amount was made available. If the question concerns the amount that the recipient is entitled to receive, the matter can be worked out between the recipient and the agency caseworker as is done with benefits transferred by check.

Difficulties may arise if an error cannot be resolved within ten business days. Under Regulation E the recipient's account has to be provisionally credited for the amount in question. The problem comes if a determination is later made that no error has occurred. In such a case, the institution is entitled to reclaim the amount previously credited. Under the laws that generally govern entitlement programs, however, an agency may not be allowed to collect the full amount of an overpayment from the installment next due. The percentage of the total benefit that can be recovered month to month is limited.

Mandatory Use of EFT. The EFT act provides that a consumer may not be required to establish an account "with a particular financial institution" for receiving electronic fund transfers as a condition of employment or of receipt of a government benefit. The act does not prohibit program agencies from making EBT the exclusive means of disbursing payments. Even if a particular institution is designated as the holder of the accounts for an EBT program, the situation may be different from that which the statutory provision was intended to remedy that a consumer who banks with a certain institution not be required to open an account at another institution to accommodate an employer or a government agency. The provision may also have been intended to enable the consumer to shop for the most economical and convenient EFT services, which again may not coincide with the arrangements made by the employer or agency. Neither of these concerns may be relevant to an EBT system that is offered to those without an account.

## Next Steps for Resolving Issues

These are some of the regulatory issues that are being considered as the Federal Reserve Board explores the possible coverage of EBT systems by Regulation E. One approach that could be taken involves establishing special rules for EBT programs within the existing framework of Regulation E. Such rules could remove legal uncertainty about the status of EBT systems and recipients' rights while allowing continued innovation in the electronic delivery of government benefits.

To ensure that adequate attention is given to the potential impact of Regulation E on EBT systems, the Board is consulting with federal and state agencies, financial institutions and other private-sector participants in EBT systems, members of the Federal Reserve's Consumer Advisory Council, and consumer advocacy groups. Any regulatory proposal that may result from this study will be published for comment and provide members of the public the opportunity to give their views.

### **CONCLUSION**

EBT systems offer federal and state government agencies the strong potential to enhance the delivery of benefits to recipients, particularly those who do not have bank accounts. These alternatives to paper-based systems also may enable agencies to restructure their operations in ways that can reduce their costs. In carrying out pilot projects, sponsoring agencies have tested different approaches and have worked with a variety of participants from the private sector. The experiences gained from these early efforts will be invaluable to the achievement of EBT systems that meet the needs of all parties.

Many policy and operational issues have been identified in the test projects. They must be addressed, by the agencies and others involved in the process, before EBT can become a nationwide reality. Special attention will have to be given to whether or how EBT service can piggyback on existing ATM and POS terminal networks, in areas where extensive terminal networks are already in place. Groups in the public and private sectors are working together to find the most efficient and cost-effective means of offering EBT services and to ensure that developing systems meet the needs of recipients and other parties. Such cooperation at the early stages of development is important to help achieve, to the extent possible, compatibility among procedures and standards.

It is encouraging to note that, in virtually all EBT projects to date, an overwhelming majority of recipients expressed a preference for EBT over the traditional paper-based system. Indeed, the potential advantages of EBT to all parties increase the likelihood that EBT can in time become an accepted method of delivery for a substantial portion of the nation's government benefit payments.

# REFERENCES

- City of New York. Electronic Payment File Transfer (EPFT): Pilot System Evaluation. New York: CNY, 1982.
- Durkin, Thomas A., and Gregory E. Elliehausen. 1977 Consumer Credit Survey. Washington: Board of Governors of the Federal Reserve System, 1978.
- Kirlin, John A., and others. The Feasibility of a Nationwide Electronic Benefit Transfer Sys-

tem for the Food Stamp Program. Report for the U.S. Department of Agriculture, Food and Nutrition Service. Cambridge, Mass.: Abt Associates, Inc., 1990.

- . The Impacts of the State-Operated Electronic Benefit Transfer System in Reading, Pennsylvania. Report for the U.S. Department of Agriculture, Food and Nutrition Service. Cambridge, Mass.: Abt Associates, Inc., 1990.
- National Commission on Electronic Fund Transfers. *EFT in the United States*. Washington: NCEFT, 1977.
- Ramsey County Community Human Services Department, Office of Research and Evaluation. Ramsey County Electronic Benefit System: Final Evaluation Report. St. Paul, Minn.: RCCHSD, 1988.
- Scott, Charlotte H. "Low-Income Banking Needs and Services," *Journal of Retail Banking*, vol. 10 (Fall 1988), pp. 32–40.
- University of Michigan, Survey Research Center. Survey of Consumer Attitudes. Ann Arbor, Michigan: UM, June 1986.
- U.S. Department of Labor, Office of Inspector General, President's Council on Integrity and Efficiency. *Applications of Computer Card Technology*. Washington: Government Printing Office, 1989.
- U.S. Department of the Treasury, Financial Management Service. From Paper to Plastic: The Electronic Benefit Transfer Revolution. Washington: Department of the Treasury, 1990.
- U.S. General Accounting Office. Government Check-Cashing Issues. Washington: GAO, 1988.
- U.S. Office of Technology Assessment. Electronic Delivery of Public Assistance Benefits: Technology Options and Policy Issues. Washington: Government Printing Office, 1988.

*Funds Transfer Issues: Privacy, Security, and Equity.* Washington: Government Printing Office, 1982.

# Payment of Household Debts

This article was prepared by Glenn B. Canner and Charles A. Luckett of the Board's Division of Research and Statistics, with assistance from Wayne C. Cook and Nellie D. Middleton.

The indebtedness of U.S. households grew substantially in the decade that ended last year. The sum of home mortgages and consumer debt outstanding rose from \$1.3 trillion at the end of 1980 to just under \$3.4 trillion at year-end 1990. This increase averaged out to a rate of 10 percent per year, which was one-third again as large as the average growth in after-tax income over the same period.

The more rapid rise of debt than of income during the 1980s has raised concerns about the ability of individuals to meet their debt obligations comfortably. The recent slowdown in economic activity has intensified those concerns. Debt repayment problems can impair the profitability of lending institutions by generating higher loan-loss provisions and collection costs. Historically, few institutions have been seriously endangered by defaults on their portfolios of consumer or home mortgage loans, but lower profits in those areas could aggravate other problems. In a broader sense, higher delinquency and default rates could provoke a tightening of credit standards, curtailing the supply of credit and thereby damping consumption and housing activity. On the demand side, higher debt burdens could act as a drag on consumption because scheduled debt payments represent a competing claim on current income.

Various statistics on debt growth, personal bankruptcies, and loan delinquency rates provide some aggregate information on the extent to which households may be experiencing debt payment problems. These statistics, reviewed in the first part of this article, provide useful insights but have several shortcomings as well. Also, they contain no information about the concentration of debt problems among borrowers or about the individual characteristics of troubled debtors that can shed light on the extent and severity of repayment problems. To improve understanding of the financial condition of households, the second part of this article examines data on late payments by individual borrowers obtained from surveys of households conducted for the Federal Reserve by the Survey Research Center at the University of Michigan.

#### **REVIEW OF AGGREGATE STATISTICS**

The financial health of the household sector is often gauged in rough fashion by comparing the total debts of the sector to its aggregate income or asset holdings. In addition, data on the proportion of loans that have payments past due provide more direct measures of repayment problems, while personal bankruptcy statistics indicate the frequency of the most severe problems—those in which debtors find the situation so extreme as to seek resolution from the courts.

### **Debt-Burden Measures**

The two major categories of household sector debt are home mortgage debt, which amounted to about \$2.6 trillion at the end of 1990, and so-called consumer debt, which totaled about \$800 billion at year-end. Consumer debt has two subcategories: installment (repayable in two or more payments) and noninstallment debt, with the installment component accounting for 90 percent of the total.

Loans are categorized as mortgages or as consumer debt more by their collateral than by the purpose of the loan. The mortgage debt of individuals consists of all borrowing secured by a lien on a home, including various types of "home equity loans" that are often used for purposes

	Debt as a p	ercentage of dis	sposable pers	onal income
Year	/ /		Consu	imer debt
	(mortgage plus consumer)	mortgage debt	Total	Installment
1980	65,4	47.3	18.2	15.6
1981	63.6	46.6	17.0	14.5
1982	63.0	46.3	16.7	14.2
1983	62.5	45.7	16.8	14.3
1984	64.6	46.5	18.1	15.6
1985	68.5	48.6	19.9	17.3
1986	73.1	52.2	20.9	18.4
1987	77.2	56.3	20.8	18.6
1988	78.9	58.3	20.6	18.6
1989	81.3	60.8	20.5	18.7
1990	83.5 <sup>p</sup>	63.1 <sup>°</sup>	20.4	18.5

1. Debt of the household sector relative to income, 1980-90

p Preliminary.

SOURCE. Federal Reserve and U.S. Department of Commerce.

other than housing expenditure.<sup>1</sup> Consumer debt is often unsecured, like credit card debt and personal cash lending, or it may be collateralized by the goods it is used to finance, such as motor vehicles or household durables. While consumer credit is used predominately to purchase currently produced goods and services, no doubt it also finances some nonconsumption activities as well, like financial investments.

Ratios of household debts relative to income flows or asset holdings provide some indication of the burden that debts place on the resources available for repaying them. Interpretation of such ratios is beset by many complexities, however. Perhaps the most frequently cited debt burden measure is the debt-to-income ratio; the first problem encountered in its use is deciding which types of debt to include in it. When the broadest measure of debt is used--mortgage plus total consumer debt-the debt-to-income ratio (with disposable personal income as the denominator) now exceeds 80 percent (table 1). With mortgage and consumer debt both expanding more rapidly than income during most of the 1980s, this ratio rose more than 15 percentage points between 1980 and 1990. On its face, this rise seems to indicate a substantial increase in the burden of debt, but that conclusion is not necessarily warranted.

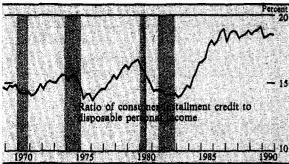
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Home mortgage debt, as noted, accounts for the largest part of the broad debt measure, and interpretation of a mortgage debt-to-income ratio is particularly murky. For instance, aside from those who own their home free and clear, virtually every household must make a regular outlay associated with their housing-either a mortgage payment or a rent assessment. The analytical usefulness of a debt-burden measure, including as it does one form of housing outlay (a mortgage) but not the other (rent obligation), seems at least guestionable. An increase in the homeownership rate would boost the level of debt and thus the calculated debt burden (while reducing the amount of rent). Because of this offsetting but unmeasured decline in rent burden, interpreting a rise in debt burden attributable to an increase in homeownership rates in the same manner as a rise in debt burden from other causes seems inappropriate. In addition, home mortgages carry such lengthy maturities that only a small portion of mortgage debt comes due in a given year. The significance of including the entirety of mortgage debt outstanding in a measure of burden thus seems questionable too, especially if one's analytical interest is the constraint imposed by debt obligations on near-term consumption.

For such reasons, the debt-to-income ratio often excludes mortgage debt. The ratio frequently leaves out noninstallment debt too, in part because much of it is very short term in nature, such as charge accounts on which full payment is required by the due date or "bridge loans" used to facilitate real estate transactions. Noninstallment debt is a small component, however, and its inclusion or exclusion makes little practical difference.

In any case, the most commonly used debt-toincome measure has only consumer installment credit in its numerator. The surge of installment borrowing in the mid-1980s raised this measure of debt burden from about 14 percent at the outset of the expansion to a high of 19 percent late in 1989 (chart 1). This increase is often cited as evidence that consumers on the whole have become overextended, but any such conclusion must be tempered by several caveats. First, as with mortgage debt, only a part of the outstanding stock of installment debt is payable in the near term, making it a less-than-perfect indicator

<sup>1.</sup> For an analysis of the home equity loan market and how such loans are used, see Glenn B. Canner, Thomas A. Durkin, and Charles A. Luckett, "Home Equity Lending," *Federal Reserve Bulletin*, vol. 75 (May 1989), pp. 333-44.



#### 1. Consumer installment debt burden

In this and the following charts, the shaded areas represent periods of business recession as defined by the National Bureau of Economic Research.

of current payment burden. This deficiency is not as acute for installment debt as for mortgage debt because installment loan maturities are much shorter than mortgage maturities, but it nevertheless hinders interpretation. Moreover, a steady lengthening of consumer loan maturities in recent years taints comparisons with earlier periods.<sup>2</sup>

Second, the installment-based measure, in common with other versions of the debt-to-income ratio, contains no information about the distribution of debt across households of differing income and asset profiles. The aggregate ratio thus gives no indication of whether a given buildup of debt is owed by people with the income, assets, or employment prospects to handle it comfortably, or by people of more limited resources who might be more vulnerable to payment difficulties. In addition, shifts in the content of consumer credit over time—such as the growing use of credit cards for "convenience credit"-make longer-term comparisons difficult, just as do changes in the maturity structure of consumer debt.<sup>3</sup> Finally, substitutions between consumer installment debt and other types of borrowing would also distort historical comparisons for any measure restricted to installment debt. The recent popularity of home equity lines of credit exemplifies such a substitution, and this substitution may have curtailed growth of installment debt.

So far, the discussion of debt-to-income measures has focused on outstanding debt rather than on debt payments. For many analytical purposes, a debtservice measure reflecting scheduled (or required minimum) payments of principal and interest would be a more relevant concept. Unfortunately, no comprehensive data series of repayment flows currently exists. Estimates can be made using data on outstanding debt, average maturities, and interest rates, but this approach requires making several arbitrary assumptions to fill data gaps and to supply certain behavioral parameters regarding the refinancing or prepayment of loans. Such estimates of repayments have limited analytical usefulness because of their indeterminate accuracy. Information on scheduled payments of debt was collected in the household surveys of late payments, however, enabling some discussion later in this article on the linkages between debt payment burden and late or missed payments.

Another caveat about debt-to-income ratios is that income is not the only source of funds from which households can make debt payments. Recognizing this fact, some observers also look at debt relative to the financial assets of households. At the aggregate level, assets of households are about four times the size of their liabilities, a ratio that declined only marginally during the 1980s. The net worth of the household sector-the difference between assets and liabilities—has grown from about \$6 trillion in 1980 to \$10 trillion at year-end 1990. Again, however, it must be recognized that the aggregate statistics relating assets and debts may be masking important distributional features that might altereither favorably or unfavorably-an assessment of the household sector balance sheet.4

<sup>2.</sup> For example, between 1980 and 1990, the average maturity on a new car loan at the major auto finance companies lengthened from forty-five to nearly fifty-five months. By reducing the rate of scheduled repayment, this lengthening of maturity has raised the stock of debt at any given time relative to the amount currently due and payable.

<sup>3. &</sup>quot;Convenience credit" refers to funds that are borrowed on a short-term basis to facilitate transactions and are repaid in full within the billing cycle. Insofar as credit card accounts used for convenience frequently have positive balances on the last day of the month, reflecting charge activity occurring after the end of the last billing cycle, the amounts of debt outstanding reported by lenders would include convenience credit.

<sup>4.</sup> For a comprehensive examination of the distributional changes in consumer debt among U.S. households in recent years, see Robert B. Avery, Gregory E. Elliehausen, and Arthur B. Kennickell, "Changes in Consumer Installment Debt: Evidence From the 1983 and 1986 Surveys of Consumer Finances," *Federal Reserve Bulletin*, vol. 73 (October 1987), pp. 761–78.

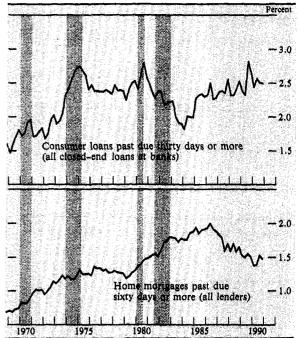
## Loan Delinquency Rates

The proportion of loans with payments past due offers another slant on the extent to which individuals may be overburdened with debt. A few such aggregate data series are available based on surveys of lending institutions. However, these aggregate delinquency rates provide no sense of whether those consumers with late payment problems form a small group of people who are chronic late payers or a larger group of individuals with transitory problems. The most widely referenced series are those produced by the American Bankers Association (for consumer loans at banks) and the Mortgage Bankers Association (for home mortgages at a cross-section of loan servicers).

Delinquency rates on consumer loans, as measured by the American Bankers Association (ABA), exhibit a pronounced cyclical pattern. The ABA series (shown in the top panel of chart 2) is a weighted average of eight separate series for specific types of loans, such as direct and indirect auto loans, personal loans, and loans for mobile homes and other products. Historically, this series has begun to rise a few months in advance of a recession period, has peaked some time during the recession, then has declined steadily into the subsequent economic recovery.<sup>5</sup>

Such a pattern of cyclicality is consistent with expectations. As economic activity slows approaching a recession, an increasing number of workers are being laid off, or their working hours are being reduced. It would not be surprising if the number of households falling behind on debt payments rose too. Also, with new borrowing typically curtailed at such times, the denominator of the delinquency rate increases more slowly, providing less of a downward pull on the rate. (Early in an expansion period, when borrowing is brisk, the calculated delinquency rate is held down by the large volume of loans coming on stream, very few of which become delinquent

2. Delinquency rates on loans to households



SOURCE. For consumer loans, American Bankers Association; for home mortgages, Mortgage Bankers Association.

immediately.) Delinquencies peak and then begin to decline at some point during a recession for a number of reasons: As a recession unfolds, many borrowers have already begun taking steps to get their finances in order, and lenders have been applying stricter lending standards, resulting in loan portfolios of improving average quality. Moreover, as lenders write off uncollectable loans, removing them from portfolios, such loans cease to affect the delinquency rate. After several months, these various factors combine to drive the delinquency rate back down.

Mortgage delinquencies have generally risen during recessions as well, but their pattern appears tied much less directly to the business cycle. For instance, the proportion of home mortgages past due (Mortgage Bankers Association series in the bottom panel of chart 2) continued to rise for almost four years after the end of the 1981–82 recession. Over the next four years, however, mortgage delinquencies declined steadily, in contrast to the moderate uptrend in consumer loans past due. The relatively quick response of consumer delinquencies in contrast to the more delayed response of mortgage delin-

<sup>5.</sup> Commercial banks (with deposits of at least \$300 million) have been reporting consumer loan delinquency rates on their Report of Condition since 1982. In recent quarters, an average delinquency rate based on these reports has risen somewhat faster than the ABA delinquency rate. However, given the relatively recent origin of this series, little can be said of its behavior during different phases of the business cycle.

quencies to shifts in economic activity partly reflects the considerable differences in loan maturities for the two types of debt-consumer loans turn over much faster. If relaxed lending standards during expansion periods contribute to later increases in delinquency, then faster loan turnover would imply more rapid liquidation of risky loans. For example, the bulk of consumer loans made in 1978 would have been substantially paid down by 1981, and almost all would have been liquidated by 1983. In contrast, many mortgage loans made in 1978 would still have twenty years or more of scheduled life remaining in 1983. Thus any lower-quality mortgage loans that may have been extended in 1978 (under the presumably liberal credit standards of that year), were probably still on lenders' books in the mid-1980s, while any lower-quality consumer loans would have been retired.

Home mortgage delinguencies may also reflect the amount of equity that borrowers have in their homes. When home prices have been rising sharply, homeowner equity is likely to be substantial, and people may be less inclined to be delinquent on their mortgages-at least for periods longer than thirty days. Because equity may be substantial even during recessions, depending on the strength of previous home price trends, aggregate delinquency rates on mortgages may exhibit only minimal changes in response to current economic activity. In the present economic downturn, which has been preceded by unusual weakness in house prices in many areas, the mortgage delinquency rate may exhibit greater sensitivity to income and employment developments. Through the fourth quarter of last year, however, mortgage delinquencies remained near ten-year lows.

# **Bankruptcy Statistics**

Individual borrowers who lack any reasonable prospect of being able to repay their debts according to agreement have, in bankruptcy, a process for dissolving those debts, in full or in part, under court protection from collection efforts of creditors. Only a few types of obligations are ineligible for bankruptcy, such as federal tax obligations and child support payments, or any debt incurred by fraud or, in the judgement of the bankruptcy referee, in contemplation of declaring bankruptcy.<sup>6</sup>

Chapter 7 of the Bankruptcy Act provides for dissolving debts in full, and Chapter 13 provides for a partial repayment plan administered by the court-the so-called wage-earner plan. Under either type of bankruptcy, secured creditors are still permitted to recover collateral from bankrupts, and any assets above certain exemption levels are liquidated and distributed among the creditors. Historically, the social stigma attached to bankruptcy, the relatively limited asset exemptions under the laws of many states, and the difficulty of obtaining credit after bankruptcy all served to make this remedy truly one of last resort for troubled debtors. Even so, vigorous collection efforts by creditors, particularly through the garnishment of wages, often propelled people into bankruptcy court.

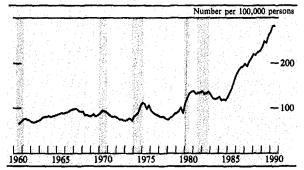
Limitations on garnishment and some other refinements of federal bankruptcy law in 1969 curtailed the use of bankruptcy in the 1970s. However, further major revisions to the law ten years later—especially the overriding of state asset exemptions with more liberal federal provisions—made bankruptcy a more attractive alternative for dealing with debt payment problems. In addition, though the development is hard to document, bankruptcy now seems to carry less of a stigma than it once did, and some evidence suggests that credit may be easier to obtain after bankruptcy than it once was.<sup>7</sup>

Historical trends in personal bankruptcies, shown adjusted for population growth in chart 3, reveal a prominent cyclical pattern. Most periods of sharply rising bankruptcy coincide with peri-

<sup>6.</sup> For a more complete discussion of the bankruptcy process and trends in the number of filings, see Charles A. Luckett, "Personal Bankruptcies," *Federal Reserve Bulletin*, vol. 74 (September 1988), pp. 591–603.

<sup>7.</sup> Research at the Credit Research Center of Purdue University indicates that a substantial proportion of persons declaring bankruptcy in recent years has been able to obtain credit fairly soon after completing the process. In some cases, a bankrupt may retain a credit card that had no outstanding balance at the time of the bankruptcy (and therefore need not have been listed among the filer's debts), which is then still available for use after bankruptcy has been declared. See Michael Staten, "The Availability of Credit to Consumers After Personal Bankruptcy," Working Paper (Purdue University, Krannert Graduate School of Management, Credit Research Center, 1991).

#### 3. Nonbusiness bankruptcies



ods of economic contraction, although the extremely sharp rise in the expansion years of 1985 and 1986 and the continued strong increases over the next four years seem strikingly out of step with past patterns. On its face, this development suggests that the sizable expansion of debt in the 1980s has substantially weakened the financial condition of the household sector. However, because of the legal changes noted above that made bankruptcy a more attractive option to troubled debtors, the recent surge cannot be taken as an unqualified sign that the incidence of severe debt payment problems is mounting rapidly. The rise in bankruptcies may be reflecting to a significant degree a shift in the way households choose to respond to debt problems rather than an increase in debt problems per se.

#### SURVEYS OF CONSUMERS

The Federal Reserve Board has for many years sponsored surveys of consumers to gather information about their overall financial situation and about their use of specific financial services, including various types of debt instruments. As noted earlier, while some information is available regarding trends in consumer debt payments in the aggregate, less is known about the payment behavior of individual households. In particular, relatively little is known about how widespread or how severe payment problems may be among households. Also little documentation exists on what consumers do when they fall behind in their payments or what types of actions creditors pursue in cases of late payment. Surveys sponsored by the Federal Reserve in late 1990 and early 1991 provide some information on these questions.

#### Debt status of U.S. households<sup>1</sup> Percentage distribution

Type of debt owed	Percent <sup>2</sup>
None	15 3 45 38
Total	100
MEMO Households with mortgage debt Households with any debt	41 85

1. Here and in the following tables, data have been weighted to ensure the representativeness of the sample.

2. Details may not add to 100 percent because of rounding.

SOURCE. Surveys of Consumer Attitudes, September and November 1990, and January 1991, Survey Research Center, University of Michigan.

#### Payment Behavior

The consumer surveys indicate that, overall, 85 percent of all households had an outstanding debt obligation or access to a line of credit under a credit card plan when interviewed (table 2).<sup>8</sup> Among all households, only 3 percent had home mortgages exclusively; 45 percent had only consumer credit, and 38 percent had both outstanding mortgage and consumer debt.

The vast majority of indebted households reported no problems meeting their debt payment obligations on time during the twelve months preceding the survey (table 3).<sup>9</sup> Specifically, 86 percent of the indebted households reported that they met or exceeded all of their scheduled debt

<sup>8.</sup> This figure of the proportion of indebted households exceeds similar estimates from other surveys sponsored by the Federal Reserve primarily because households having credit cards, but reporting no outstanding balance after their last payment, were categorized here as indebted households even if they had no other types of debt. This distinction was made because most of these households had in all likelihood used at least one of their credit cards during the preceding twelve months and consequently could have missed or been late in a payment during this period. Surveys, such as the 1983 Survey of Consumer Finances, have found that few households have credit cards and never use them. See Glenn B. Canner and Anthony W. Cyrnak, "Recent Developments in Credit Card Holding and Use Patterns Among U.S. Families," Journal of Retail Banking, vol. 7 (Fall 1985), pp. 63-74.

<sup>9.</sup> Every indebted household participating in the survey was asked the following question with respect to each of its outstanding loans. "During the past twelve months, were all the (type of debt) payments made the way they were scheduled, did you get behind on any of the payments, or did you make payments that were larger or more frequent than scheduled?"

3. Payment behavior of indebted households for the twelve-month period preceding the survey interview, by type of debt

Percentage distribution

	Type of debt'					
Payment behavior	All	First mortgages	Other mortgages	Credit cards	Vehicle loans	Other installment debt <sup>2</sup>
Paid as scheduled or made larger or more			<u> </u>			
frequent payments	86.0	90.6	96.4	92.6	89.9	84.8
Fell behind or paid late	12.3	7.4	3.2	6.0	9.1	13.2
Fell behind or paid late and made larger						
or more frequent payments	1.7	2.0	*	1.4	1.0	2.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Мемо						
Percentage of debt holders more than						
thirty days late	9.2	3.5	2.5	5.1	5.1	11.7
Percentage of debt holders sixty or more						
days late	2.9	1.3	*	1.5	.7	5.4

1. Details may not add to 100 percent because of rounding.

2. Other installment debt includes loans for educational purposes, medical

expenses, vacations, and various types of household durables.

\* Less than 0.5 percent.

SOURCE. Surveys of Consumer Attitudes, September and November 1990, January 1991, Survey Research Center, University of Michigan.

payment obligations. As indicated by the survey, 42 percent of these households made payments that were larger or more frequent than scheduled on at least one of their outstanding obligations. These households may have been attempting to retire their debts ahead of schedule or, in some cases, the larger payments may have involved a refinancing.

Among the various types of debt owed by consumers, "other mortgages," primarily home equity loans, had the best overall payment performance. This finding is consistent with the extremely low delinquency rates reported by commercial banks on their outstanding home equity lines of credit and, to a lesser degree, on their other types of home equity loans.

Despite the overall satisfactory payment performance of the majority of indebted households, a significant minority, about 14 percent of those surveyed, reported falling behind on at least one of their scheduled debt payments. A small fraction of these late payers—roughly 12 percent—reported both that they fell behind in their payments and that, at some point during the year, they made larger or more frequent payments than scheduled. In some cases, consumers may have done so to catch up on earlier missed payments.

Households reported falling behind in their payments most frequently on vehicle loans and other types of non-credit-card installment debt (table 3). These two categories, along with credit cards, also had the highest incidence of consumers who reported falling more than thirty days behind in their payments. Of the households reporting payment problems, relatively few with home mortgages or vehicle loans let these debts get as much as sixty days in arrears (table 3). Delinquency of this duration is more likely to raise the possibility of foreclosure or repossession, actions most consumers would like to avoid.

# Characteristics of Consumers with Payment Problems

Not all types of households are equally likely to report falling behind on their payment obligations. Consumer survey data provide an opportunity to profile the household characteristics (such as income, marital status, and age) that may be associated with late payment problems. The relationships observed, however, do not directly reflect the creditworthiness of persons with given characteristics because the debtor segment of the population has already passed through a credit-screening process designed to weed out the riskiest applicants. To be precise, the data can show which factors are associated with missed payments, given the credit standards prevailing in the marketplace, but not which factors, before the fact, are associated with default risk.<sup>10</sup>

Strong correlations exist between payment problems and housing tenure, marital status, and debt-service burdens (table 4).<sup>11</sup> Differences in payment behavior also show up with respect to household income and age, although the differences are greatest at the extremes of the household groups. The combined results for debtors in the lowest two income quintiles, for example, show that they are about twice as likely to have been late or missed a scheduled payment as are households in the highest income group. A similar relationship holds with respect to the age of the household head: Households headed by persons under thirty-five years of age are nearly four times as likely to report payment problems as are those headed by an individual at least fifty-five years of age. As might be expected, debt-service burdens-measured by the ratios of scheduled monthly payments to monthly income-are positively related to late payment problems. Households in the group with the highest ratios of debt payment to income are more than four times as likely to be late or to miss payments as households in the group with the lowest payment burdens.

While the relationships described above appear straightforward, their interpretation is not quite so clear. For example, although households with younger heads tend to miss or be late on their debt payments more often than their older counterparts, this finding may reflect the fact that younger persons also tend to have lower-paying jobs. Thus the extent to which age and income differences independently affect payment behavior is left unsettled. For this reason, a multivariate analytical framework was used to assess the likelihood that a household either repaid its debts as scheduled or fell behind or missed one or more

4.	Proportion of indebted households with payment
	difficulties, by demographic characteristics
	and type of outstanding loan'
	Percent

D		<b>N</b> ( 100 100	0
Demographic characteristic	Any type of debt	Mortgage debt	Consumer debt
Household income (quintiles) Lowest Second Third Fourth	16 19 15 14	20 15 10 8	17 16 13 12
Highest	9	6	7
Education of household head 11th grade or less High school graduate or some college	14 16	13 10	13 14
College graduate	13	9	11
Age of household head (years)           Less than 25           25-34           35-44           45-54           55 and over	13 20 18 16 5	13 11 11 12 2	13 17 15 12 5
Marital status Married Never married Widowed Divorced, separated	14 13 4 27	9 6 2 15	12 12 3 23
Housing tenure status Own Rent	12 20	9 n.a.	10 20
Payment-to-income ratio (thirds) <sup>1</sup> Lowest Second Highest	6 12 26	5 8 15	5 9 24
Мемо All debtors	14	9	12

1. Households categorized as having payment difficulties are those who reported having missed or been late in their debt payments in the preceding year.

2. Three groups of equal size were determined for each debt category separately. The figures shown are the proportion of each size group that fell behind in their debt payments.

n.a. Not applicable.

SOURCE. Surveys of Consumer Attitudes, September and November 1990, and January 1991, Survey Research Center, University of Michigan.

payments.<sup>12</sup> However, because the survey did not collect some relevant information, such as data on asset holdings, the analysis cannot be as complete as one might wish.

The multivariate analysis suggests that payment problems are most strongly related to

<sup>10.</sup> Of course, lenders might also respond to higher-risk seekers of credit by modifying downpayment or collateral requirements or by charging higher interest rates commensurate with the risk assumed in extending the credit. To the extent that riskier applicants are served with higher-cost credit rather than by being refused credit, the variables associated with ex ante default risk would more likely correlate with payment performance as well.

<sup>11.</sup> Debt-service burdens are measured by the estimated monthly ratio of total debt payments to income.

<sup>12.</sup> The specific multivariate technique employed was the logit model. This technique is one in a family of econometric models that may be used to estimate statistical relationships when the dependent variable takes on a limited number of values.

debt-service burdens, educational attainment, the number of children under eighteen years of age in a household, and marital status. Higher debt-service burdens were positively related to late payment problems, as was the number of young children in a household, while separated or divorced heads of households were also significantly more likely to report payment problems than either married couples or other single households. In considering all factors simultaneously through this approach, no statistically significant relationship was found between the incidence of payment problems and either the age of the household head or housingtenure status. In general, the level of household income was also not found to be a good predictor of payment performance, except for those in the highest income quintile. The analysis found that compared with households in the lowestincome quintile, the highest-income families were much less likely to fall behind in their payments.

# Severity of Payment Problems

Summary statistics, such as those presented in the previous sections, provide a broad perspective on the recent performance of consumers in paying their debts. These statistics, however, do not convey information, except in the most general sense, about the severity of payment problems among indebted households.

Households who reported falling behind in paying their debts were asked about the number of payments that were more than thirty days late and whether any of these payments were as many as sixty days late. All respondents reporting loans more than thirty days in arrears were also asked why they fell behind, what they did about it, and what actions creditors took in response to the late or missed payments.

Overall, the survey found that 9 percent of all indebted households, which is two-thirds of households reporting late payments, fell behind more than thirty days on one or more of their debt obligations in the year preceding the survey (table 3). The survey further found, however, that relatively few households fell sixty or more days behind in their payments. Only 3 percent of all indebted households (or roughly

#### 5. Severity of late payment problems Percentage distribution

Number of late payments more than thirty days past due	Percentage of late payers with at least one payment more than thirty days past due
1 2 3 4 5 6-9 10 or more	34.9 26.6 20.6 1.8 2.8 6.8 6.5
Total Мвмо Percentage of all indebted households that had at least one payment more than thirty days past due	100.0 9.2
Number of payments more than thirty days past due Mean Median	2.9 2.0

SOURCE. Surveys of Consumer Attitudes, September and November 1990, and January 1991, Survey Research Center, University of Michigan.

20 percent with any instance of late or missed payments) reported at least one payment sixty or more days delinquent during the preceding twelve months.

A second way to measure the severity of payment problems is to examine the distribution of late payers by the number of payments on which they fell behind by more than thirty days during the previous year (table 5). Among the households who had at least one payment more than thirty days late, most reported only a limited number of instances in which payments were behind by this much. Eighty-two percent of the households that had at least one payment late by more than thirty days were this late on three or fewer of their payments during the year preceding the interview. At the other end of the spectrum, 7 percent of the households who were late at least once by more than thirty days reported ten or more such instances. Overall, the mean and median number of payments more than thirty days past due for those with such late payments were 2.9 and 2.0 respectively. If having more than three payments past due for more than thirty days in a twelve-month period is considered "serious," then about 18 percent of all late payers, or roughly 3 percent of all debtors, could be said to have had a serious debt payment problem.

## **Reasons for Late Payment**

Of those consumers who have had at least one payment more than thirty days late, most indicated that the main reasons for their difficulties were that they became overextended by taking on too much debt or they experienced an unforeseen change in their employment or health status. Overall, 55 percent of the families experiencing payment problems indicated that they became overextended; 6 percent experienced medical-related problems; and 24 percent either lost their jobs, were not working, or had suffered a cutback in the number of hours worked.<sup>13</sup> A fairly small group of households (roughly 14 percent) reported that they became delinquent either because they were on vacation or forgot to mail their payment.

## Consumer Response to Payment Difficulties

Individuals facing debt payment problems respond in a variety of ways. Nearly 40 percent of those who were more than thirty days behind in their payments reported that they caught up on their delinquencies the next month or paid "when they were able." Other households delinquent in their payments cut back on other types of spending, took second jobs, worked longer hours, sold various items to raise funds, or borrowed or received gifts from relatives or friends. About 22 percent of late payers reported that they called their creditor about the problem; in some cases, the terms of the loans were extended, in others new loans were obtained. Some late payers, about 12 percent, said that they took no action in response to their late payments.

## Creditor Responses to Late Payments

The survey asked households that were more than thirty days late in making their loan payments what actions creditors took in response. The most common responses mentioned, 71 per-

13. Included in the medical-related category are situations in which insurance failed to cover medical expenses. cent of the total, were to call the borrower, send a letter, or send additional billing notices.<sup>14</sup> Other actions taken by creditors were to suggest new payment plans, notify credit reporting agencies, and cancel lines of credit. Only one household reported the repossession of an item securing a loan. In about 19 percent of the cases, respondents reported that creditors took no significant action in response to the late payments.

### IMPLICATIONS OF SURVEY FINDINGS

Some insights into the aggregate delinquency statistics developed from lender reports may be drawn from the results of the household survey, although some conceptual differences prevent simple comparisons between the two types of data. For example, one difference is that the aggregate statistics from industry sources reflect the proportion of loans delinquent at a particular time, while the household survey identifies borrowers who had been delinquent at any point in the twelve months preceding the survey date, regardless of their current status. Another difference is that the industry statistics usually apply to a specific type of lender, while the survey of households asked that late payments to any type of lender be reported.

Despite these differences, comparisons between the two types of delinquency statistics can be informative. For example, the higher that the household-reported delinquency rate is for a given type of loan relative to an industryreported rate, the more widely dispersed latepayment behavior is among the debtor population. If a household-reported delinquency rate (covering twelve months) is close in magnitude to a corresponding industry-reported rate (for a given point in time), that suggests that industryreported delinquencies reflect a relatively small set of chronically delinquent debtors. On the other hand, if the household-reported rate markedly exceeds the rate reported by lenders, that suggests that a larger group of individuals is occasionally delinquent. That is, it would imply

<sup>14.</sup> Some of the letters were reminders, others threatened specific action, still others were notifications of late charges.

that a borrower misses a payment one month, but subsequently gets back and stays on schedule and is replaced in the delinquent category by another short-term delinquent the next month.

For consumer loans, exclusive of credit cards, the ABA reported an aggregate thirtyday delinquency rate of about 2.5 percent on average during 1990, as indicated in chart 2. From the household survey, about 8.7 percent of those having such debts (combining observations for vehicle loans and for other installment debt in table 3) had been delinquent some time during the previous twelve months. The relationship between the ABA and household survey rates suggests a moderate degree of rotation from period to period among those identified as delinquent. (If no one were late more than once a year or for as long as sixty days, the survey-based rate should be about twelve times the aggregate rate.)

Information from the household survey about the number of instances of delinquency also sheds light on the severity of delinquencies in the aggregate. As shown in table 5, several households in the survey reported multiple instances of late payments. Among those who were thirty days late at least once, 18 percent said they were that late on more than three occasions. From the distribution in table 5, it can be calculated that these frequently late debtors accounted for roughly half of all instances of late payment among surveyed households. When this approximation is applied to the ABA's installment loan delinquency rate of around 2.5 percent, it appears that perhaps 1.25 percent of the installment loans on banks' books at a given time are owed by persons with a chronic late-payment problem. The actual figure is likely to be lower, however, because the classification of individuals as chronic late payers was based on the number of missed payments for any type of loan a person had. The proportion of debtors with multiple late payments for a single category of loans would be at least somewhat smaller.

On balance, the household survey data suggest that a substantial proportion of the loans that are past due at a point in time do not reflect serious payment problems, but ones that will be rectified within a reasonably short period. This conclusion is based on the relatively few survey respondents that reported payments as much as sixty days late, the small fraction of borrowers with several instances of late payment, and the statements of respondents concerning what actions they took after missing loan payments. In that the survey was conducted during a period of economic growth, the question may be raised as to whether these patterns would hold during an economic downswing. The answer cannot be known with certainty. It should be noted, however, that aggregate debt burdens were relatively high in the period surveyed, and the economy, while not in recession, was sluggish, which suggests some broad applicability for the results reported here.

## APPENDIX: SURVEY OF CONSUMER ATTITUDES

To obtain information on consumer debts and recent household experience with repayment problems, the Federal Reserve Board developed questions that were included in the September and November 1990 and January 1991 Survey of Consumer Attitudes conducted by the Survey Research Center of the University of Michigan. Interviews were conducted by telephone, with telephone numbers chosen from a cluster sample of residential numbers. The sample was chosen to be broadly representative of the four major regions-Northeast, North Central, South, and West-in proportion to their populations (Alaska and Hawaii were not included). For each telephone number drawn, a randomly selected adult from the family was the respondent.

The survey defines the family as any group of persons living together who are related by marriage, blood, or adoption, and any individual living alone or with persons to whom the individual is not related. The head of the family is defined as the individual living alone, the male of the married couple, or the adult in a family with more than one person and only one adult. Generally, when there is no married couple and more than one adult, the head is the person most familiar with the family's finances, or the one closest to age 45. Adults are persons aged 18 years or more. Together the surveys sampled 1,534 families, 668 of whom were homeowners with outstanding mortgage debt. Six hundred and fifty-six additional families had outstanding consumer credit but no mortgage debt. Altogether, 187 of the 1,331 indebted families reported falling behind in at least one of their scheduled loan payments in the twelve months before their interview. The survey data have been weighted to be representative of the population, thereby correcting for differences among families in the probability of their being selected as survey respondents. Estimates of population characteristics derived from samples are subject to errors based on the degree to which the sample differs from the general population. Table A.1 indicates the

A.1. Approximate sampling errors of survey results, by size of sample' Percentage points

Survey result (percent)		Size of sample	•
	100	200	1,500
50	10.5	6.2	3.2
30 or 70	9.6	5.7	2.9
20 or 80	8.4	4.9	2.6
10 or 90	6.3	3.7	1.9
5 or 95	4.6	2.7	1.4

1. The figures in this table represent *two* standard errors. Hence, for most items, the chances are 95 in 100 that the value being estimated lies within a range equal to the reported percentages, plus or minus the sampling error.

sampling error for proportions derived from samples of different sizes.

# Treasury and Federal Reserve Foreign Exchange Operations

This quarterly report, covering the period November 1990 through January 1991, provides information on Treasury and System foreign exchange operations. It was presented by Sam Y. Cross, Manager of Foreign Operations of the System Open Market Account and Executive Vice President in charge of the Foreign Group of the Federal Reserve Bank of New York. Daniel H. Brotman was primarily responsible for preparation of the report.<sup>1</sup>

The dollar was subjected to conflicting forces during the November-January period. Sentiment toward dollar investments continued to deteriorate as the U.S. economy weakened and as interest rate differentials moved further in favor of foreign currencies. But at times, political developments abroad-particularly the Persian Gulf conflict-encouraged greater demand for dollars and limited the extent to which negative sentiment toward the currency was reflected in exchange rates. With these offsetting factors helping to maintain a sense of two-way risk to dollar exchange rates, the dollar ended the period mixed against major foreign currencies, and the U.S. monetary authorities conducted no intervention operations in the foreign exchange market. The dollar closed the period down slightly against the German mark and up slightly against the Japanese yen. On a trade-weighted basis, as measured by the staff of the Board of Governors of the Federal Reserve System, the dollar ended the period 1 percent below its level at the beginning of the period.

# The First Part of the Period: Early to Mid-November

In the early part of the period, market attention centered on evidence of diverging growth and interest rate trends in the major industrial economies. Ever since the Iraqi invasion of Kuwait in August and the associated rise in oil prices and decline in consumer confidence, analysts had been progressively revising downward their forecasts for U.S. economic growth. The release of October payroll employment data in the first week of November revealed an unexpectedly large drop that, together with subsequent data, reinforced the view that the U.S. economy was slowing down. At the same time, preliminary indications suggested that inflationary pressures were subsiding. Under these circumstances, market participants widely expected that the Federal Reserve would continue to ease money market conditions and possibly reduce its discount rate.

In contrast, market forecasts for the German and Japanese economies remained relatively upbeat. The need to rebuild East Germany was seen as providing ongoing stimulus to the German economy. Japanese economic data provided little evidence that the economy or price pressures were slowing in response to the central bank's tight policy stance. Mindful of these economic trends, market participants expected that German and Japanese interest rates would either rise further or would remain at existing levels. Indeed, on the first day of the period, the Bundesbank announced an increase of 1/2 of 1 percentage point in its official Lombard rate, and many market participants expected further tightening after German national elections in early December. The Bank of Japan was considered less likely than the Bundesbank to tighten monetary policy but was nonetheless seen as unwill-

<sup>1.</sup> The charts for the report are available on request from Publications Services, Board of Governors of the Federal Reserve System, mail stop 138, Washington, D.C. 20551.

ing to ease monetary conditions, given high oil prices and Japan's tight labor market conditions.

The divergent outlook for interest rates weighed on the dollar in early to mid-November. Short-term interest rate differentials had been steadily moving against the dollar since spring 1989, when dollar investments held an interest rate advantage of 4 to 6 percentage points relative to the mark and yen. By late summer 1990, the dollar's short-term interest rate advantage had been entirely eliminated. Thus, in early November, expected further declines in dollar interest rates, coupled with steady to higher rates abroad, threatened to push short-term U.S. interest rates well below mark and yen rates for the first time since 1980. Under these circumstances, the dollar declined 3<sup>1</sup>/<sub>4</sub> percent against the mark from its opening level of DM1.5170 to its November low of DM1.4660 on November 16. Its decline against the yen measured 2<sup>1</sup>/<sub>2</sub> percent from ¥130.07 at the opening of the period to ¥126.70 on November 22.

The dollar was not the only currency affected by the divergent performance of major national economies. Pressures also developed among the European currencies during early November as the pace of German expansion contrasted with slowing growth or actual declines in the United Kingdom, Italy, France, and certain other European countries. The market conditions that had allowed several European central banks to lower domestic interest rates earlier in the year dissipated with the November increase in German interest rates. As the mark moved up from its relatively low position in the exchange rate mechanism of the European Monetary System (EMS), several participating central banks responded to the softening of their currencies relative to the mark by raising interest rates at a time when their economies were weakening or by intervening against marks to support their currencies. The Italian lira, the French franc, and the British pound were the currencies that came under the strongest downward pressures in November.

Dollar selling in response to the diverging economic trends was tempered somewhat by developments in the Persian Gulf. The Gulf conflict, while not the dominant market force that it later became, served as a background factor supporting the dollar at times during early and mid-November. Developments in the military and diplomatic arena at that time suggested that the probability of a war in the near term was increasing. Many market participants interpreted the U.S. Administration's announcement on November 8 of a large reinforcement of U.S. forces in the Gulf as indicating that the United States was preparing for an outbreak of hostilities. Past experience had demonstrated a tendency for the U.S. dollar exchange rate to benefit from "safehaven" inflows during periods of political instability or military conflict abroad, and market participants increasingly came to build in a safehaven premium for the dollar. In that environment, dealers became increasingly reluctant to take on large, short dollar positions. Thus, notwithstanding negative sentiment about the U.S. economy and the belief that interest rate differentials against the dollar would increase, the prospect of a safe-haven effect associated with the outbreak of war helped cushion the dollar's decline.

## THE MIDDLE OF THE PERIOD: LATE NOVEMBER TO MID-JANUARY

Beginning in late November, the dollar came under several waves of upward pressure that pushed the currency above its opening levels and to its highs of the period. These pressures primarily reflected heightening expectations that the Gulf conflict would result in an early war. But the dollar's rise was aided by other factors, including a perceived deterioration of the political situation in the Soviet Union and two episodes of acute upward pressure on U.S. money market rates.

From November 29, when the U.N. Security Council set a deadline for Iraq to withdraw from Kuwait, until January 16, when Operation Desert Storm began, market attention focused almost entirely on the Gulf crisis. As the threat of war hung over the market during this month and a half, market participants of all types showed an increased reluctance to take on new risks or to respond fully to changes in underlying economic conditions. With interbank dealing in any case about to wind down as the year-end approached, many dealing institutions took the opportunity to impose an early halt to or reduction in their marketmaking activities. Many commercial and institutional participants decided to move to the sidelines and, to the extent possible, to postpone further transactions until the Persian Gulf situation was clarified. In this environment, markets became unusually thin and illiquid, and managers of interbank trading rooms at many institutions took steps to reduce the positiontaking latitude of their trading staff.

Meanwhile, pressures in the federal funds and other short-term money markets began to appear in late November as banks bid aggressively to secure money to cover year-end accounting statements. These pressures, coming earlier and with much greater intensity than in past years, occurred against a background of heightened concerns over the quality of bank credit. At the same time, the efforts of many institutions to improve capital ratios, trim balance sheet size, and enhance internal liquidity reduced the availability of, and increased the demand for, shortterm interbank funds, thereby pushing rates upward. Some market participants who were unable to secure funds in the interbank market bought dollars in the foreign exchange market to meet their year-end requirements. In response, the dollar moved up in late November and early December. When these pressures temporarily subsided in early December, the dollar retraced most of its rise and, in fact, edged down to touch a new post-World War II low against the mark of DM1.4625. But year-end pressures reemerged late in December and again helped support the dollar at that time.

Another reason for the dollar's rise starting in late November was the growing expectation that the finance ministers and central bank governors of the Group of Seven (G-7) would soon meet and discuss exchange rate issues. With strains appearing in the exchange market involving the dollar and other currencies, some market participants believed that the G-7 might take steps to stabilize exchange rates. This notion gained credence as several G-7 officials indicated that a meeting would occur in January.

Around mid-December, market unease over the political situation in the Soviet Union also contributed to the dollar's resilience. The resignation on December 20 of Soviet Foreign Minis1. Federal Reserve reciprocal currency arrangements Millions of dollars

Institution	Amount of facility, January 31, 1991
Austrian National Bank	250
National Bank of Belgium.	1.000
Bank of Canada	2.000
National Bank of Denmark	250
Bank of England	3.000
Bank of France	2,000
Deutsche Bundesbank	6,000
Bank of Italy	3.000
Bank of Japan	5,000
Bank of Mexico	700
Netherlands Bank	500
Bank of Norway	250
Bank of Sweden	300
Swiss National Bank	4,000
Bank for International Settlements	
Dollars against Swiss Francs	600
Dollars against other authorized European currencies	1.250
CUITCHCICS	1,230
Total	30,100

ter Shevardnadze raised concerns about the outlook for the success of the Soviet leadership's policies of political openness and economic restructuring. Because Germany was viewed as most vulnerable to the spillover effects of negative developments in the Soviet Union, the mark eased. The mark moved lower not only against the dollar and the yen but also against its partner currencies in the EMS. The mark's softer tone helped reduce, albeit temporarily, pressures that had been building throughout December within the EMS exchange rate mechanism.

In these circumstances, the dollar reacted only modestly to a series of actions by the Federal Reserve to ease monetary conditions. These actions included three moves in December and early January that led to declines in the federal funds rate totaling 75 basis points and one move to reduce the Federal Reserve discount rate 50 basis points on December 18. In addition, the Federal Reserve on December 2 announced plans to eliminate reserve requirements on nonpersonal time deposits and on net Eurocurrency liabilities in two stages during December.

Trading in the foreign exchange market remained listless even after the usual year-end holiday lull. During the early weeks of January, as participants awaited the January 15 U.N. deadline for Iraq to withdraw from Kuwait, the dollar tended to move during the day in response to the latest statements or signals regarding dip-

Central bank drawing on the U.S. Treasury	Amount of facility	Outstanding as of November 1, 1990	November	December	January	Outstanding as of January 31, 1991
Central Bank of Honduras <sup>1</sup>	82.3	34.8	-34.8	• • •		

2. Drawings and repayments by foreign central banks under special swap arrangements with the U.S. Treasury Millions of dollars; drawings or repayments (-)

NOTE. Data are on a value-date basis. Components may not add to totals due to rounding.

lomatic efforts to avert war. Thus, the dollar eased after announcements that U.S. Secretary of State Baker would meet his Iraqi counterpart in Geneva and that the U.N. Secretary General would visit Iraqi leader Saddam Hussein in Baghdad, only to rebound later when these approaches proved fruitless. Against this backhowever, the dollar edged ground, up intermittently. The dollar's movements around this time were greatest against the Japanese yen, which was seen as having the most to lose from any disruption in oil supplies as a result of war and the most to gain from an expected oil price decline in the event of a peaceful settlement. But the dollar also rose against the mark. By mid-January, the dollar was trading up to levels as high as ¥137 against the yen and DM1.55 against the mark, or roughly 5 percent and 2 percent respectively above its early November levels against those two currencies.

# THE END OF THE PERIOD: MID- TO LATE JANUARY

The dollar's response to the outbreak of war on January 16 took many market participants by surprise. Having anticipated a wave of sustained dollar buying upon the outbreak of war, many interbank dealers had quietly been building up long dollar positions as the January 15 deadline approached. In the event, the dollar did move up on the first reports of bombing over Baghdad to highs of DM1.5525 and ¥138.00. However, the currency quickly gave way to selling pressures as market participants took profits on these long positions. Within a few hours after Operation Desert Storm began, the dollar had declined about 3 to 4 percent from its highs. Oil prices fell back sharply while bond and stock markets rallied around the world.

1. Represents the ESF portion of a \$147.3 million short-term credit facility established on June 28, 1990.

Thereafter, the dollar edged lower through the remainder of January. From time to time, dollar demand increased in response to concerns over the severity and scope of the Gulf conflict. This was the case, for instance, when missile attacks on Israel raised fears that the war might widen. But the dollar's tendency to firm on negative reports out of the Gulf began to wane as market participants appeared to grow more confident that the war would be relatively short and that the United States and its allies would be victorious.

As the exchange market grew accustomed to news from the Gulf and liquidity returned to more normal levels, market participants directed more attention to the economic developments and interest rate changes that had gone almost unnoticed in December and early January. Against this background, the dollar began to decline again. Statements by Federal Reserve Chairman Greenspan on the potential for further monetary easing if growth of monetary aggregates remained sluggish and on the risks of a long and deep recession if the Gulf war were to drag on were noted. These comments, coupled with President Bush's call for lower interest rates in his State of the Union speech, heightened expectations of further near-term cuts in dollar interest rates.

In a statement issued after their January 21 meeting, G-7 finance ministers and central bank governors "agreed to strengthen cooperation and to monitor developments in exchange markets" and stated that they were "prepared to respond as appropriate to maintain stability in international financial markets." Market participants did not conclude at the time, however, that officials were prepared to take immediate and concrete action to stem further dollar declines.

Some market participants came to interpret the G-7 statement of January 21 as suggesting that

further interest rate increases abroad might be avoided as U.S. rates declined. Indeed, the expectation that Germany would postpone further tightening became so widespread during the last two weeks in January that pressures within the EMS eased, and European authorities were reportedly able to scale back their intervention mark sales. On the last day of the period, however, the Bundesbank increased its official discount and Lombard rates 50 basis points, an action whose timing took the market by surprise. However, the Bundesbank characterized its move as technical and subsequently took steps to keep money market rates from rising.

Thus, as the period closed, sentiment toward the dollar remained negative as market participants, believing that dollar interest rates would decline further, expected interest rate differentials to continue to move against the dollar. The dollar closed the period at DM1.4768 against the mark, down  $2\frac{1}{2}$  percent from its November opening levels and only slightly above its post-World War II low against that currency. Against the yen, the dollar closed the period 1 percent above its opening levels at ¥131.25.

As noted in the report for the August-September 1990 period, the U.S. Treasury Exchange Stabilization Fund (ESF) repurchased \$2,500 mil-

 Net profits or losses (-) on U.S. Treasury and Federal Reserve current foreign exchange operations<sup>1</sup> Millions of dollars

Period and item	Federal Reserve	U.S. Treasury Exchange Stabilization Fund
Valuation profits and losses on outstanding assets and liabilities as of October 31, 1990	5,363.3	2,876.3
November 1,1990-January 31,1991 Realized. Valuation profits and losses on outstanding assets and liabilities as of January 31, 1991	0 5,688.0	0 3,027.2

1. Data are on a value-date basis.

lion of foreign currencies from the Federal Reserve on November 1 to reverse certain previous warehousing operations. From that date through the close of the period, outstanding warehousing of foreign currencies with the Federal Reserve remained at \$4,500 million, down from the peak of \$9,000 million reached in March 1990.

The Treasury also continued to provide Special Drawing Rights (SDRs) in exchange for dollars to foreign monetary authorities requiring SDRs for the payment of charges by the International Monetary Fund and for repurchases. These exchanges totaled \$204.3 million equivalent of SDRs over the three-month period.

The ESF's share of a multilateral credit facility established in June 1990 for Honduras was repaid in full during the period, with payments of \$34.0 million on November 15 and \$0.8 million on November 20. The ESF portion of this special facility expired at the end of November, and as of the end of January 1991 the Treasury had no special swap arrangements outstanding.

As of the end of January, cumulative bookkeeping or valuation gains on outstanding foreign currency balances amounted to \$5,688.0 million for the Federal Reserve and \$3,027.2 million for the ESF. The latter figure includes valuation gains on warehoused funds. These valuation gains represent the increase in dollar value of outstanding currency assets valued at end-ofperiod exchange rates, compared with rates prevailing at the time the foreign currencies were acquired.

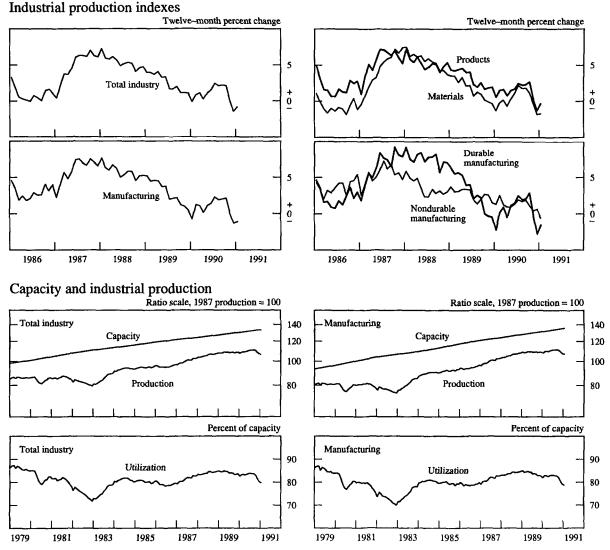
The Federal Reserve and the ESF regularly invest their foreign currency balances in a variety of instruments that yield market-related rates of return and that have a high degree of quality and liquidity. A portion of the balances is invested in securities issued by foreign governments. As of the end of January, holdings of such securities by the Federal Reserve amounted to \$8,114.8 million equivalent, and holdings by the Treasury amounted to the equivalent of \$8,000.6 million valued at end-of-period exchange rates.

# Industrial Production and Capacity Utilization

#### Released for publication on February 15

Industrial production fell 0.4 percent in January, following drops of 1.6 and 1.1 percent (revised) in November and December. Output of autos and trucks, which fell sharply throughout the fourth quarter of last year, turned up in January. Excluding motor vehicles and parts, production decreased 0.6 percent, slightly less than during the previous three months. Total industrial capacity utilization fell 0.5 percentage point in January to 79.9 percent, nearly 3 percentage points below its level a year earlier. At 106.5 percent of its 1987 annual average, total industrial production in January was 0.9 percent below its level of a year ago.

In market groups, production of consumer



All series are seasonally adjusted. Latest series, January.

· · · · · · · · · · · · · · · · · · ·		1987	= 100		Percentage change from preceding month				Per-
Industrial production		1990	1990 Nov. <sup>r</sup> Dec. <sup>r</sup>		1991 1990			1991	centage change, Jan. 1990
	Oct."	Nov. <sup>r</sup>			Oct. <sup>r</sup>	Nov."	Dec."	Jan. <sup>p</sup>	to Jan. 1991
Total index	109.9	108.2	107.0	106.5	6	-1.6	-1.1	4	9
Previous estimates	109.8	107.8	107.1		7	-1.8	6		
Major market groups Products, total	111.0	109.2	108.3	107.9	3	-1.6	8	3	4
Consumer goods Business equipment Construction supplies Materials	108.6 125.4 103.1 108.3	106.5 122.7 101.5 106.6	105.8 120.7 100.6 104.9	105.7 120.5 98.8 104.4	.0 8 7 -1.0	-2.0 -2.2 -1.5 -1.6	6 1.6 9 1.6	1 2 -1.8 5	2 2.1 -8.5 -1.7
Major industry groups Manufacturing Durable Nondurable Mining Utilities	110.7 112.5 108.4 102.6 109.2	108.9 109.8 107.7 102.2 106.8	107.3 107.3 107.4 102.3 107.9	106.9 106.9 106.9 102.2 107.1	5 -1.1 .3 -1.3 -1.1	-1.6 -2.5 6 4 -2.1	-1.4 -2.2 3 .1 1.0	4 4 4 .0 7	$ \begin{array}{c} -1.1 \\ -1.6 \\6 \\ .3 \\ \end{array} $
				Percent o	f capacity				Capacity
Capacity utilization	Average,	Low,	High,	1990		1990		1991	growth, Jan. 1990 to
	1967-90	1982			Oct. <sup>r</sup>	Nov. <sup>r</sup>	Dec. <sup>r</sup>	Jan. <sup>p</sup>	Jan. 1991
Total industry	82.2	71.8	85.0	82.7	83.0	81.5	80.4	79.9	2.5
Manufacturing Advanced processing Primary processing Mining Utilities	81.5 81.1 82.4 87.4 86.8	70.0 71.4 66.8 80.6 76.2	85.1 83.6 89.0 87.2 92.3	82.0 80.5 85.7 87.8 84.8	82.2 81.3 84.3 89.9 85.6	80.7 79.7 83.0 89.7 83.7	79.3 78.5 81.4 89.9 84.4	78.8 78.2 80.3 89.9 83.7	2.9 3.3 2.2 -1.8 1.6

r Revised.

p Preliminary.

goods other than motor vehicles decreased again in January; since October, output in this category has fallen about 11/4 percent, reflecting, in part, sizable cuts in clothing, energy products for consumer use, and goods for the home, such as appliances and furniture. Output of business equipment excluding motor vehicles fell 0.5 percent in January, owing mainly to another large drop in the production of informationprocessing equipment, particularly computers. Production of construction supplies declined further in January; it has fallen more than 7 percent since last summer. Among materials, output of durables has dropped over the past four months, with much of the weakness reflecting the effects of the cutbacks in motor vehicle production. In January, production of parts and materials for autos and trucks firmed, but output of basic metals, particularly steel, was curtailed again. Production of nondurable materials also has weakened steadily, on balNOTE. Indexes are seasonally adjusted.

ance, since October. Output of textiles, which dropped sharply late last year, rose somewhat in January; however, production of chemicals declined last month. Output of energy materials was little changed in both December and January.

In industry groups, manufacturing production declined 0.4 percent in January, lowering the operating rate at factories to 78.8 percent. The operating rate for manufacturing is now about 2½ percentage points below its 1967–90 average, and at its lowest rate since September 1986. The production declines in January, as well as during the fourth quarter, hit virtually all major industries, with most operating rates falling below their 1967–90 averages. Large declines in the last few months have come in motor vehicles and related industries, such as fabricated metal products and steel. Construction-related industries, such as lumber, furniture, and stone, clay, and glass products, also have been hard hit, as have petroleum refining, textiles, and apparel. Mining output has only fallen off slightly during the past few months, while utilities production has declined somewhat more, reflecting the relatively mild winter. The capacity utilization and capacity data for 1990 have been revised. The capacity growth rate for total industry during 1990 was revised down slightly; the most significant adjustments occurred in the motor vehicles industry.

# Statements to the Congress

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Agriculture, Nutrition, and Forestry, U.S. Senate, February 7, 1991.

I welcome the opportunity to appear on this panel this morning to discuss title III of S.207, "The Intermarket Coordination Act of 1991." This bill addresses important issues affecting the integrity of our financial markets, and I compliment the committee on the contributions it has made toward better understanding of these issues and toward strengthening the regulatory system. Many of the questions addressed in this bill are extremely complex, and any proposed changes inevitably involve tradeoffs on which there will be disagreement. The compromises that members of this committee and of the Committee on Banking, Housing, and Urban Affairs have made in putting this package together have been reached in the spirit of bridging differences in viewpoint and moving ahead.

My remarks this morning will focus, as you have requested, on two provisions of the act that are particularly pertinent to the Board of Governors of the Federal Reserve System. The first is federal authority to set margins for stock-index futures contracts, and the second is the "exclusivity provision" of the Commodities Exchange Act (CEA). The Board's views on both these issues have been presented in testimony before, and letters to, the Congress on several occasions in the past, and my statement today will expand a bit on these views in the context of the current proposals. Let me begin with margins.

## MARGIN AUTHORITY ON STOCK-INDEX FUTURES

As I have noted in previous testimony, the Board considers the primary purpose of margins to be to protect the clearing organizations, brokers, and other intermediaries from credit losses that may result from adverse movements in prices. Without appropriate safeguards, losses can lead to the failure of key market participants, jeopardize contract performance, and threaten the integrity not only of the market in question but of other markets as well. Margins, along with capital requirements, liquidity requirements, position limits, loss-sharing agreements, and other operational controls, are tools designed to limit the exposure of financial exchanges and participants to problems that may arise in the markets. Containment of risk through the use of these tools is essential to maintain public confidence in the soundness of our financial markets and to avoid excessive strains on our clearing and payment systems.

Recognition of the important role for margins leads to the critical operational question of how one determines the adequate level of margins for prudential purposes. Clearly if margins are set too low, markets and clearing systems will be exposed to undesirable levels of risk. On the other hand, if margins are set much higher than necessary for prudential purposes, liquidity in the markets will be reduced, and competitive pressures may drive business to less regulated markets, probably offshore.

For some time, the Board has been of the view that the exchanges and self regulatory organizations (SROs) are well positioned for developing and refining margin policy. These organizations have a strong economic interest in maintaining the integrity of their markets and membership, as well as a close familiarity with the instruments and trading practices in their markets. Moreover, they have the flexibility to adjust margin requirements quickly in response to changing economic, financial, or institutional developments. While we continue to believe that the SROs should play a lead role in structuring margin policy, the Board believes that federal oversight is important to ensure that margins on stocks and stock-index

The need for federal regulation of margins on stock-index futures has become clearer in recent years, especially in light of behavior during periods of market stress. In particular, I expressed concerns last year that the self regulatory organizations tended to set margins at levels too low in periods of price stability and then were compelled to raise them when market prices moved sharply. Such behavior tends to exacerbate liquidity pressures on market participants and their creditors and the clearing and payment systems in periods of unusual price volatility. To avoid the possibility that margin decisions of a given exchange or clearing organization may not fully take into account implications across other markets and payment systems, a federal agency should have ultimate oversight authority. The Intermarket Coordination Act provides for just such federal responsibility, and the Board endorses this concept.

Nonetheless, while the Board believes that federal oversight is necessary, we have been of the view that this authority should rest with either the Commodity Futures Trading Commission (CFTC) or the Securities and Exchange Commission (SEC). Let me explain our reasons for this view.

I noted earlier that margin requirements are but one of many interdependent tools that play a role in the management of risk. Other elements in this process include, for example, capital requirements, surveillance activities, maintenance of guarantee funds, and financial support agreements. These factors have an important bearing on the overall level of risk associated with any given level of margins. Indeed, the margins applied against stock-index futures are only one part of the total amount of margin held to protect the integrity of the clearing organizations and member firms. The Board has been of the view that the agency or agencies that have overall responsibility for supervision of the institutions and the exchanges that trade these instruments can bring to bear appreciably more day-to-day information in these areas. These agencies could best take into account other elements of the risk management system when choosing appropriate margin levels.

Which agency, the CFTC or the SEC, is better suited for oversight of stock-index futures is less clear to us. The CFTC can be viewed as the better choice because of its oversight of the futures exchanges and their clearing organizations. On the other hand, the strong price and trading linkage among stocks and stock-derivative options and futures products presents a case for having a single regulator for all equity-related products. The SEC, to whom the Board, by rule, already has delegated oversight authority on options products and which has prudential responsibility for broker-dealers and securities markets, could be considered a logical choice to foster consistency of margins across equity-related products. We also appreciate that the Federal Reserve's position as the authority for setting margins on stocks and stock options places us in a position to achieve consistency across all equity-related instruments.

The Board recognizes the difficulty and the urgency of resolving this particular question. In these circumstances, while we prefer that the authority rest with one of the other agencies for the reasons discussed, if the Congress were to decide to assign this to the Federal Reserve, the Board would, of course, endeavor to discharge the responsibility for margins on stock-index futures in a careful and serious manner. In so doing, we would work closely with the other agencies that have broader authority over the entities that margins are intended to protect; in this regard, the proposed legislation appears to provide appropriate flexibility for implementing such a system.

## EXCLUSIVITY AND HYBRID INSTRUMENTS

Let me turn now to the provisions of the bill that deal with the question of the CFTC's "exclusive jurisdiction" over futures products. The Board, as you know, has had serious concerns about the current interpretation of the Commodities Exchange Act that requires any contract with an element of futurity to be traded only on a CFTCregulated exchange. Interpreted broadly, any financial contract has some element of futurity; hence this provision affects a wide range of existing and new financial products that might be offered outside the futures exchanges, including some depository instruments that are subject to other regulatory safeguards. The potential for the strict application of this principle to stifle the development of new products was demonstrated when the courts ruled that index participations fell under the futures definition and could not be offered by the securities exchanges.

The proposed bill would modify the exclusivity restriction to allow certain hybrid products to trade either on a securities exchange or a futures exchange. In addition, it would give the CFTC authority to exempt certain other products. The

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, February 20, 1991.

I am pleased to appear before you again at these monetary policy oversight hearings.<sup>1</sup> As is the convention on these occasions, I shall focus my remarks this morning on monetary policy and the current situation in the economy. However, the events of the past year have once again underlined the ways in which the state of our nation's banking system can affect the transmission of monetary policy to the economy. Consequently, I think I should comment at least briefly on some of the regulatory issues bearing on the willingness of banks to extend credit.

I should like to start, however, with an overview of the economic outlook. As you know, business activity turned down in the latter months of 1990 and appeared still to be declining through the early part of February. With the unpredictability of events in the Middle East compounding the usual uncertainties attending any economic projection, it would be most unwise to rule out the possibility that the recession may become more serious than already is apparent. Nonetheless, the balance of forces does appear to suggest that this downturn could well prove shorter and shallower than most previous amendment explicitly directs the CFTC to exempt swap agreements and deposit accounts offered by insured and regulated financial institutions if it finds that such exemptions are not contrary to the public interest. I believe that these are positive steps that will provide the CFTC with greater ability to avoid conflicts such as have occurred in the past and to limit the risk that disputes over regulatory jurisdiction will have to be dealt with in the courts. More important, it should reassure the markets that financial innovations and new products will not be curbed by ambiguities in the regulatory process.  $\Box$ 

postwar recessions. An important reason for this assessment is that one of the most negative economic impacts of the Gulf war—the run-up in oil prices—has been reversed. Another is that the substantial decline in interest rates over the past year and a half—especially in the past several months—should ameliorate the contractionary effects of the crisis in the Gulf and of tighter credit availability.

The major danger to a near-term recovery is that the erosion in purchasing power and frayed consumer and business confidence stemming from the recession and war could interact with a weakened financial system to produce a further decline in the economy. The recent actions we have taken, along with the ranges for growth of money and credit this year, which I shall be discussing in a moment, were designed to reduce the probability of such an outcome and to support a resumption of sustainable economic growth, in the context of progress toward price stability.

### ECONOMIC AND MONETARY POLICY DEVELOPMENTS IN 1990 AND EARLY 1991

When I last testified on our monetary policy objectives in July, the economy appeared likely to continue growing, though moderately. The objective of restoring a clear downward tilt to the path of underlying inflation while maintaining the economic expansion thus seemed attainable. Indeed, data that became available subsequently

<sup>1.</sup> See "Monetary Policy Report to the Congress," Federal Reserve Bulletin, vol. 77 (March 1990), pp. 147-64.

indicated behavior of economic activity in the third quarter consistent with that appraisal.

That said, evidence in July of weaknesses in certain regions and sectors of the economy signaled caution. Notably, deteriorating market conditions for commercial real estate were limiting the ability of some borrowers to service loans, which, along with the restructuring of thrift institutions, induced lenders to pull back from extending credit to this sector. Banks also were becoming less willing to make business loans-not only for highly leveraged transactions, but more generally when industry or local economic conditions looked at all unfavorable. Tendencies toward such restraint, which might normally have been expected in a time of uneven and generally less robust business prospects, were exacerbated by pressures on the capital positions of many institutions. In mid-July, to better ensure the economy's continued growth, the Federal Reserve adopted a slightly more accommodative stance in reserve markets to counter the potential effect on spending of this tightening of credit terms at depository institutions.

The invasion of Kuwait in early August dramatically altered the economic landscape. Oil prices surged, simultaneously worsening prospects for both real income and inflation. The higher world oil prices transferred domestic purchasing power to foreign oil exporters, while uncertainties about how the crisis would be resolved shook household and business confidence. After the invasion, spending held up for a time before starting to soften, while the jump in oil prices fed through quickly to energy prices more generally and to measures of overall inflation. Amid considerable volatility in financial markets and concern about the inflation outlook, bond rates moved back up and stock prices moved down, as many investors shifted to more liquid instruments. Treasury bill rates eased, and a surge in purchases of money market mutual fund shares boosted growth of the broader monetary aggregates in August and September.

Oil prices, which peaked at more than \$40 per barrel in early October, seemed to be the primary source of financial market uncertainty and volatility; however, the fitful progress toward agreement on measures to reduce the federal deficit also contributed. When the budget accord was finally reached in late October, its promise of fiscal restraint over the next several years was reflected in somewhat lower bond yields. Against a backdrop of weakening economic activity and in light of the passage of the multiyear deficitreduction package, the Federal Reserve again eased money market conditions.

This policy action proved to be only the first of a series of easing moves extending through early this month. These moves were prompted in part by subsequent information pointing to sizable contractions of consumer outlays and economic activity stemming from the marked weakening of consumer confidence and purchasing power. They also were taken in response to a lessening of wage and price pressures and decidedly sluggish growth in the monetary aggregates after their surge in August and September. After continued moderate expansion in the third quarter, real GNP turned downward, led by the decline in consumer spending but also reflecting reduced construction activity and business inventory investment. Industrial production began a rapid descent in October, with the motor vehicle industry accounting for an especially large share of the drop. Private employment also started to fall steeply, and the unemployment rate rose further. The associated rise in layoffs brought increased uncertainty to the household sector, which in turn has kept consumer spending subdued.

The widening economic slack helped prevent the energy price surge from becoming embedded in ongoing wage and price inflation. The increases in nominal wages and broader compensation measures diminished in the fourth quarter after having exhibited initial signs of slowing in the preceding three months. In September, the nonenergy component of the consumer price index (CPI) began to rise at a slower pace. And in the final two months of the year, inflation in the overall CPI fell back, as energy prices topped out in November and declined in December in the wake of lower crude oil prices. The success of coalition military operations after the outbreak of war in mid-January was seen in oil markets as reducing the odds of wide-ranging supply disruptions, and oil prices retreated still more, further improving the near-term outlook for inflation.

This reduction of cost and price pressures has given the Federal Reserve scope to move aggressively to counter contractionary influences on the economy without contributing to market concerns about the inflation outlook. Absent such a lessening of price pressures, monetary policy easing probably would have risked a heightening of inflation expectations, which could have put the foreign exchange value of the dollar under severe downward pressure and fed through to long-term interest rates, perhaps even pushing them higher.

The easing of policy also was keyed to the meager expansion since September of the broader monetary aggregates. As I shall be discussing more fully, the slowdown in money growth was worrisome because it seemed to reflect a further tightening of credit availability as well as the weakening in spending. The surfacing of additional asset quality problems has heightened financial strains on many banking institutions, placing pressures on capital positions and boosting funding costs. In turn, banks have progressively tightened their standards for granting loans and have set still more restrictive terms and conditions on the loans they have made. Strains also have been evident at other intermediaries, and many securities have been downgraded by the rating agencies, suggesting that even those borrowers who are not relying on banks in many cases have faced higher costs and more restrictive terms.

In responding to evidence of economic weakness, to a lessening of inflation pressures, and to slow monetary growth, the Federal Reserve has used all three of its key policy tools. More accommodative reserve provision through open market operations, together with two cuts in the discount rate totaling a full percentage point, have brought the federal funds rate down to around 61/4 percent. This important short-term rate has fallen 2 percentage points since mid-1990 and roughly 31/2 percentage points over the past two years. We also reduced the remaining reserve requirement on nonpersonal time and similar accounts from 3 percent to zero. The requirement to hold nonearning reserves at the Federal Reserve in effect imposes a tax on credit intermediation at banks and thrift institutions. This action lowered this tax and was

aimed specifically at relieving the tightening of credit availability at depository institutions.

Other short-term market interest rates generally have fallen nearly as much as the federal funds rate since mid-1990. Long-term interest rates also have retreated, and rates on fixed-rate mortgages are now in the vicinity of their lows of the past decade. Lower interest rates and oil prices have helped to lift some major stock price indexes to all-time highs. After firming in December and early January on safe-haven demands, the exchange value of the dollar has shown unwelcome weakening tendencies at times recently.

#### THE BEHAVIOR OF MONEY AND CREDIT IN 1990 AND EARLY 1991

As I indicated earlier, sluggish expansion of the monetary aggregates was an important ingredient in the decisions to ease policy during recent months. The broader aggregates ended 1990 well down in the lower halves of their annual growth ranges. The Federal Open Market Committee (FOMC) recognized that the relationship between M2 and spending is uncertain, but the slower growth of M2 in the latter part of 1990 and early 1991 brought the aggregate so far below our expectations that it seemed highly likely to be inconsistent with the Committee's longer-run objectives for the economy.

The weakness in M2 is a complex development and requires careful interpretation. The shortfall from our expectations appeared to be related to the stalling of nominal income in the fourth quarter and also to the circumstances surrounding the extraordinary decline in assets at depository institutions last year, which in turn had implications for future, as well as current, spending. As their willingness or capacity to expand their assets diminished, banks and thrift institutions became less eager to attract deposits of all kinds. Hence, they paid unusually low rates on retail deposits in M2 relative to market interest rates. Moreover, public attitudes toward deposits also seemed to have been adversely affected by developments in the depository sector; publicity about thrift closings, Bank Insurance Fund losses, and credit quality problems at commercial banks evidently encouraged shifts of funds into Treasury securities or alternative nondeposit instruments.

The shifting of credit intermediation away from depositories appeared likely to be having a damping effect on the spending of those borrowers without ready access to alternative sources of funds at comparable interest rates. Thus, part of the slow growth in retail deposits could be seen as symptomatic of developments in the creditgranting process with adverse implications for contemporaneous and future aggregate demand.

However, a portion of the credit flows no longer being intermediated by depositories has been readily replaced by alternative suppliers. In particular, markets for securities backed by mortgages and consumer loans have allowed demands for these types of credit to be met with little or no increase in costs to the ultimate borrowers. And some businesses with relatively high credit ratings have had little difficulty switching from banks to commercial paper markets and other sources of short-term funding. The reduction in funding through retail deposits associated with this type of shift in credit flows would not signal a weakness in current or future spending. Some of the surprising weakness in M2 growth has been reflected simply in a higher velocity than otherwise, rather than having been indicative of restraint on spending. M2 velocity last year did not exhibit the decline that would be expected with the drop in short-term market interest rates in late 1989 and 1990.

But with not all of the weakness in M2 likely to be offset by a lasting shift in velocity, the behavior of this aggregate seemed increasingly to signal a weaker path for the economy than was consistent with the Committee's intentions. Our policy easings over recent months were keyed partly to reinvigorating growth of M2 to a rate more likely to be consistent with satisfactory economic performance. If history is any guide, the policyinduced declines in interest rates on market instruments relative to returns on M2 balances will generate the desired speedup in M2 growth; indeed, we have begun to see some evidence of that in recent weeks, though it is still too early to be very confident that a new, more robust growth trend has been established.

Restrained growth of M3 last year was ex-

pected once the size of the runoff of thrift assets and of Resolution Trust Corporation (RTC) activities became clear. But its increase was further depressed by a larger-than-expected decline in bank credit growth. The fall-off in total depository assets had an especially pronounced effect on M3 because this aggregate includes, besides retail deposits, certain managed liabilities whose issuance is more sensitive to overall depository funding needs. In fact, currency and money market mutual funds more than accounted for the expansion in this aggregate over 1990. M3 growth has picked up this year, but so far it has reflected the substitution by some depositories of large time deposits for non-M3 funding sources rather than a renewed expansion of their credit.

Although credit outstanding at depositories contracted last year, credit flows at other intermediaries and in the open market were better maintained. Some borrowers undoubtedly felt the effects of tightening lending terms, but nonetheless the debt of domestic, nonfederal sectors rose 5<sup>3</sup>/<sub>4</sub> percent last year. This growth rate, though considerably lower than in recent years, was well in excess of the percentage increase in nominal income. Growth of federal debt by contrast surged to 11 percent, of which more than 2 percentage points represented federal funding of RTC activities. Buoyed by federal government borrowing, the total debt of domestic nonfinancial sectors grew 7 percent, the midpoint of the FOMC's monitoring range for the aggregate.

#### ECONOMIC PROSPECTS IN 1991 AND MONETARY POLICY PLANS AND OBJECTIVES

These economic, financial, and monetary conditions form the starting point for the Federal Reserve's view of economic prospects and plans for monetary policy in 1991. An important aspect of the outlook is the unusually high degree of uncertainty about how these conditions will evolve, in the face of the Gulf war and financial strains. Another aspect is the recognition that there may be substantial lags between changes in financial conditions—notably, the decline in interest rates and the depreciation of the dollar in recent months—and the response of spending. The assessment of the FOMC, as captured by the central tendency of the individual projections of Board members and Reserve Bank presidents, is that the odds favor a moderate upturn in activity in coming quarters. Real GNP for the year as a whole is anticipated to grow in the area of  $\frac{3}{4}$  to  $1\frac{1}{2}$  percent. Unemployment is likely to rise further before the recovery takes hold, and consequently the expectation is that the jobless rate will be somewhere between  $6\frac{1}{2}$  and 7 percent at year-end. The lower oil prices, if they persist, will help damp overall inflation, as will slack in labor and capital resources. Most of us believe that consumer prices will rise  $3\frac{1}{4}$  to 4 percent this year—the best performance in several years.

The forces currently at work in restraining spending can be readily identified. Consumer and business confidence still looks to be quite depressed, evidently because of the high degree of uncertainty, as well as the weak economy. Moreover, problems in many parts of the real estate sector are not going to be resolved soon. In particular, the large stock of vacant commercial properties is virtually certain to limit activity in that sector for some time. It also will take a while to correct the associated financial difficulties facing many lenders, who are likely to remain quite conservative in making new loans. Finally, secondary effects on aggregate demand of the recent decline in our economy's output and real income are now in the process of running their course.

Fortunately, several stimulative forces are in motion that enhance the chances of economic recovery. Monetary policy easings have brought about a significant drop in short-term interest rates. The decline started more than a year before the business cycle peak, a pattern unique in postwar experience and one which should help cushion the current recession. Moreover, shortterm rates have declined substantially further in recent months. Long-term interest rates also have come down appreciably; reduced mortgage rates already have improved the affordability of housing and thus should help to revive housing sales and starts. The enhanced international competitiveness of our industries augers well for the net export component of GNP. Furthermore, the fall in oil prices, which was especially marked in mid-January, has restored considerable domestic purchasing power. With most businesses having kept their inventories lean, the anticipated pickup in aggregate demand should show through relatively quickly in rising production.

The 1991 ranges for money and debt growth were selected by the Federal Open Market Committee to promote sustainable economic recovery, consistent with progress over time toward price stability. In keeping with a long-term disinflationary path, the FOMC ratified the provisional ranges set last July, which embody a reduction of 1/2 percentage point in the M2 range compared with the limits for 1990. The midpoint of the 2<sup>1</sup>/<sub>2</sub> to 6<sup>1</sup>/<sub>2</sub> percent range for M2 growth matches the midpoint of the central tendency of the projections by the governors and presidents for nominal GNP growth. The recent sizable declines in short-term market rates normally would be expected to elevate the growth of M2 relative to that of nominal GNP. However, the FOMC anticipates that, as an offset, the ongoing restructuring of the thrift industry, combined with continued hesitancy of many banks to expand their assets, will again create an environment that restrains M2 growth relative to nominal GNP expansion and buoys M2 velocity. An outcome this year involving little change in M2 velocity would be quite similar to last year's experience.

The range of 1 to 5 percent for M3 growth this year is the same as the sharply reduced range for last year. It again is lower than the bounds for M2 growth because M3 is likely to continue to be more depressed than M2 by restructuring of the thrift industry and restrained growth in bank credit. The annual monitoring range for debt, however, has been reduced ½ percentage point relative to last year's specification, to 4½ to 8½ percent, in line with the sustained deceleration of this aggregate in recent years.

#### **RISKS TO THE ECONOMIC OUTLOOK**

These money and debt ranges are wide enough to afford scope for policy reactions should the economy or its relationship to these financial aggregates diverge from FOMC expectations. Indeed, the individual forecasts of Board members and Reserve Bank presidents for the economy cover a relatively wide range. This divergence of opinion has its roots in the major uncertainties facing all forecasters today. Economic forecasters typically have had great difficulty in projecting business cycle turning points, that is, judging when the relative strength of contending economic forces of contraction versus expansion will reverse. Moreover, the current outlook is unusually clouded, in part by uncertainties about the war and its effects. The Federal Reserve will need to remain alert to possible contingencies and will have to continue to respond flexibly to information about evolving trends.

Monetary policy thus will depend on how trends in economic activity and inflation actually unfold. Downside risks in the economic outlook are obviously there and not difficult to identify. For example, an extended war with Iraq clearly could carry some risk of further undercutting public confidence and spending. Additional restraint on credit availability at depositories or increased public concern about the health of the banking system would be negative factors as well, and could show up initially as continued subpar money growth.

The worry has been expressed that, under current conditions of restrained willingness of depository institutions to extend credit, monetary policy easing moves may have only a minimal impact on lending and hence on overall spending. I believe this risk is exaggerated. Our easings and reserve requirement action have lowered bank funding costs appreciably. Some of this decline has been passed through to borrowers in the form of a lower prime rate; even with this reduction, funding costs have fallen relative to loan rates, and with higher profit, potential banks should be more inclined to extend credit. Moreover, monetary policy stimulus works through other channels as well. Some potential borrowers will be encouraged by lower market interest rates to undertake additional expenditures financed, either directly or indirectly, by issuance of securities. Spending effects also can appear through routes involving price responses in equity and foreign exchange markets. Finally, the anticipated economic recovery itself will help allay problems of credit availability at, and public trust in, depository institutions. Indeed, there is some possibility that once the economy turns

around, the expansion could become fairly robust, sparked by a return of consumer and business confidence and fueled by increasing availability of credit.

# **REGULATORY INITIATIVES**

Monetary policy will continue to be conducted to foster attainment of important macroeconomic objectives. In so doing, we will need to remain mindful of any impediments to the process of credit intermediation. But monetary policy cannot resolve market imperfections in which credit for some financially sound projects is more expensive or less available than might otherwise seem warranted. Structural problems involving imperfections in credit and capital markets require structural solutions. To the extent that current banking regulations are impeding the efficient functioning of these markets, a more promising approach would lie along the path of revising those regulations. I would like to offer several thoughts along these lines, some of which are in only the formative stages.

We already have taken the step, as noted, of reducing reserve requirements on nontransaction accounts at banks and thrift institutions so as to eliminate the reserve tax on lending financed through these sources. This action lowered noninterest-bearing required reserve balances at Federal Reserve Banks by some \$111/2 billion. The Federal Reserve Board also has the authority to reduce the required reserve ratio on transaction deposits from its current 12 percent to as low as 8 percent. However, unusual volatility in the federal funds rate appeared in January and early February, as required reserve balances moved to a seasonal low point. This experience suggests that reserve balances had fallen so far that many depository institutions were encountering difficulties in managing their reserve balances to meet day-to-day clearing needs. Subsequently, volatility in the federal funds rate has diminished, as required reserve balances have begun to move above their seasonal lows, and as institutions have enlarged their clearing balances. These developments should continue for a time. Even so, the experience early this year suggests caution in considering further reductions in required reserve ratios, at least for a while. We shall, however, continue to assess this situation.

The recent episode of more volatile funds trading also has underscored the increased reluctance depositories have exhibited in recent years in availing themselves of short-term adjustment credit at the discount window. The reluctance has stemmed from fears of being identified as having more fundamental funding problems. Because of depository reluctance, the discount window in recent years has been a less effective safety valve in relieving transitory pressures in the reserves and funds markets. Tapping the window for adjustment credit, when alternative sources of funds temporarily are not available on reasonable terms from the usual sources, is not indicative of longer-term stresses at borrowing institutions. Despite bank reluctance, borrowing has been somewhat higher on occasion this year as banks were in the process of adapting to the lower reserve requirements. We would not be surprised to see somewhat higher adjustment borrowing persist. The Federal Reserve has no desire to circumscribe the legitimate use of the discount window, and market participants should not interpret such use as indicating underlying problems for the institutions involved.

Another regulatory area in which possible steps are being considered pertains to the guidelines used in the supervisory process. The Federal Reserve is working with the other bank supervisory and regulatory agencies to ensure that bank examination standards are prudent and fair and do not artificially encourage or discourage credit extension. The intent of these efforts is to contribute to a climate in which banks make loans to creditworthy borrowers and work constructively with borrowers experiencing financial difficulties, consistent with safe and sound banking practices. For example, the agencies are studying steps to clarify that the supervisory evaluation of real estate collateral is to be based, not solely upon liquidation prices, but upon the ability of a property to generate cash flow, given reasonable projections of rents, expenses, and rates of occupancy over time. We need a balanced evaluation process that endeavors to reflect the long-term value of an illiquid asset, rather than the exaggerated appraisals that have been evident in both the upside and the downside of the real estate cycle in recent years.

The supervisory agencies also are seeking to encourage banking institutions to provide additional public disclosure on their nonperforming assets. Under present circumstances, as best we can judge, the market tends to suspect the worst. Additional disclosure would supplement data on the level of nonperforming loans with information on the amount of such loans that are in fact generating substantial cash income. Other similar steps are under consideration.

In general, we have emphasized our view that prudent lending standards and effective and timely supervision should not inhibit banking organizations from playing an active role in financing the needs of sound, creditworthy borrowers. Such an approach can contribute to the efficient functioning of credit markets and thereby complement monetary policy in promoting the attainment of the nation's overall economic objectives.

Chairman Greenspan presented identical testimony before the Subcommittee on Domestic Monetary Policy of the House Committee on Banking, Finance and Urban Affairs, February 21, 1991.

Statement by John P. LaWare, Member, Board of Governors of the Federal Reserve System, before the Subcommittee on Financial Institutions Supervision, Regulation and Insurance of the Committee on Banking, Finance and Urban Affairs, U.S. House of Representatives, February 28, 1991.

It is my pleasure to appear before this subcommittee with such a distinguished panel to discuss H.R. 192, the proposed "Financial Industry Reform and Capital Enforcement Act." Financial industry reform is one of the most pressing and important issues facing the Congress and the nation. The Federal Reserve Board, like this subcommittee, believes that this topic should be placed high on the congressional agenda.

H.R. 192 highlights two of the basic problems that need to be addressed in reforming the financial services industry. First, institutional developments and technological change have altered the competitive environment and made obsolete the statutory and regulatory framework in which banks currently operate. Competition in banking has become more intense as a result of the technological revolution in information transmission and processing. These innovations have led to an increased volume of transactions made directly between lenders and borrowers, fostered new institutions offering banklike claims and granting banklike credit, and permitted old banking rivals to become more banklike as well. In this environment, outdated laws increasingly are hindering the ability of many banks to service their customers' needs. But most significantly, American consumers are being denied the benefits of a more efficient financial system. These developments all call for expanding the activities that banking organizations are authorized to deliver and—just as important—relieving them from the costly prohibition of interstate branching.

The second problem is the potential liability of the taxpayer for losses that banks may incur. Over the years, moral hazard has created a threat to the deposit insurance system, as expanding deposit insurance guarantees have greatly reduced the market discipline imposed by depositors on bank risktaking. Consequently, some insured depository institutions have been encouraged to take excessive risks and to operate with eroded capital ratios that may not provide sufficient insulation for the insurance fund. Tragically, these developments have exposed American taxpayers to liability for the insurance guarantees in the thrift industry. Thus, we need to develop legislation to limit the size of potential taxpayer exposure for deposit insurance in the commercial banking industry. The pressing need to enhance the ability of commercial banking

organizations to compete by expanding the range of their permissible activities only increases the need to avoid extending the safety net guarantees to whatever additional risks may be present in these new businesses.

With these concerns in mind, the Federal Reserve Board supports the objective of H.R. 192 of expanding bank activities and permitting affiliations of banking and other financial firms. This reform directly addresses the first problem: the need for banking organizations to modernize their delivery systems. But the defense of the safety net is not addressed as fully as we would like in the bill. We are concerned that certain provisions of the bill spread the safety net under a wider variety of risks and thereby increase the exposure of the insurance fund.

To protect the safety net, H.R. 192 focuses on the regulation of the bank subsidiaries of depository institution holding companies, supplemented by an "early intervention" requirement that relies on the parent maintaining the capital of the bank subsidiary. Failure of the parent to maintain the bank's capital would result in dividend restrictions on the bank and ultimately divestiture of undercapitalized banks or imposition of a conservatorship. Such an approach is generally consistent with the Board's proposals last summer for a policy of prompt corrective action.

The Board is concerned, however, that other features of the bill may not provide sufficient supervisory authority to safeguard the insurance funds. The bill does not provide for an umbrella supervisor for the parent and its nonbank subsidiaries, nor any control over the capital of these units. It will, I am sure, come as no surprise to you that the Board believes that a federal supervisor should have the overall authority to look at the whole enterprise that contains an insured deposit-taking unit. Our experience has reinforced our view regarding the complexities of intercompany relationships within a holding company and the conviction that fire walls alone cannot insulate a bank from the problems of its parent or affiliates. We have seen that pressures on the parent holding company or nonbanking affiliates may well affect the costs and availability of funding of affiliate banks.

While H.R. 192 looks to the parent to maintain

the capital of its bank affiliates, it does not give the supervisor the examination and reporting tools to closely monitor or supervise the financial condition or operations of the parent. In addition, no realistic and timely means are provided to ensure that the activities or financial condition of the organization as a whole does not pose additional risk to the insured deposit taker and through it, to the financial system or the safety net. Even if the potential for trouble is detected, the agencies would have no specific cease-anddesist authority over the holding company and its nonbanking affiliates.

It is true that the bill authorizes the bank regulator to require divestiture of the depository institution when it is being endangered by the activities or condition of an affiliate, but corporate structures are often complicated, and without regular supervisory oversight, discovery may be difficult. More important, the possibility of administrative and judicial challenges, the oneyear divestiture period, and the difficulties of proof under the proposed statutory standard eliminate the ability of the bank supervisor to use this divestiture provision in a timely fashion to protect the bank and the insurance fund.

Moreover, it is not clear whether the holding company could avoid the obligation imposed by H.R. 192 to maintain the capital of subsidiary depository institutions. For example, could the holding company simply turn over a troubled bank to a conservator, passing the losses to the deposit insurance funds and potentially to the taxpayer? Any reliance on the holding company to recapitalize its subsidiary banks would be greatly undermined if the holding company retained that option.

H.R. 192 wisely recognizes that certain risky nonbanking activities, such as real estate investment and development, should not be conducted directly by a federally insured depository institution. The Board is concerned, however, that the bill does not adequately address the equally important issue of the conduct of such activities through subsidiaries of state-chartered institutions (when permitted by state law) and the concomitant exposure of the safety net. In our view, banks should not use federally insured funds to engage directly in such risky activities or to acquire or finance subsidiaries engaged in these activities. Experience has demonstrated that the market expects insured banks to support their subsidiaries. Even when an insured bank wishes to assert corporate independence from its subsidiaries, all losses experienced by these units are reflected directly in the income statements and balance sheets of the parent bank and reduce the bank's capital. Thus, unlike holding company affiliates, a subsidiary of a bank may directly reduce the bank's ability to use its own capital as a buffer protecting the bank's depositors and the insurance fund.

We are also concerned that the proposed amendments to sections 23A and 23B of the Federal Reserve Act could increase the bank's exposure to its affiliates. The bill fragments the existing unified rulemaking authority under section 23, giving each bank regulator the authority to adopt its own rules and interpretations and to exempt institutions or transactions from the limits of section 23A and section 23B. In addition, the bill amends existing law to allow depository institutions to lend to customers of affiliates to purchase the affiliates' products and services without regard to the quantitative and collateral limits of section 23A-a troublesome exemption since, under the bill, commercial firms may own or be affiliates of banks.

I should note that H.R. 192 places no limits on who may own a depository institution holding company or what business the bank affiliates may conduct, or on cross-marketing of financial or commercial products and services. This mix of banking and commerce, which would raise serious issues in any context, is further complicated by the weakening of 23A and 23B fire walls and the absence of umbrella supervision. Before the Congress takes what will amount to an irreversible step, the Board believes that the issue of commerce and banking should be carefully studied and that if the Congress decides to authorize commercial connections, it should be done in a carefully supervised and phased-in manner with adequate protection of the public interest.

The Board strongly objects to that provision of H.R. 192 that apparently would limit the Federal Reserve's ability to control its risk exposure from access by depository institutions to the Federal Reserve's payment services. This provision would deny to the Federal Reserve the discretion that it and all lenders have to make credit judgments based on all relevant factors. Further, in an era of electronic payments when trillions of dollars change hands daily, the bill would prevent the Federal Reserve from acting promptly to deal with troubled institutions accessing daylight credit from the Federal Reserve. These limitations could result in substantial losses to the Federal Reserve that could be reflected in reduced Federal Reserve payments to the Treasury.

In sum, we support the principle of wider

activities for banking organizations that is the centerpiece of H.R. 192, and applaud its contribution to the financial reform debate. This objective, however, needs to be accompanied by safe-guards to address the risks to the safety net of new activities and to limit the transfer of the safety net subsidy to noninsured entities. We would also hope that any banking reform legislation would promptly authorize interstate branching. Revising these outdated limitations would be extremely helpful in reducing both bank costs and their risk profiles.  $\Box$ 

# Announcements

#### MEETING OF CONSUMER ADVISORY COUNCIL

The Federal Reserve Board announced that its Consumer Advisory Council met on March 14. The Council's function is to advise the Board on the exercise of its responsibilities under the Consumer Credit Protection Act and on other matters on which the Board seeks its advice.

# **REGULATION CC: FINAL AMENDMENTS**

The Federal Reserve Board adopted on February 20, 1991, final amendments to Regulation CC (Availability of Funds and Collection of Checks) to conform the regulation to a recent amendment to the Expedited Funds Availability Act. These amendments to Regulation CC have a retroactive effective date of September 1, 1990.

The Amendment to the Expedited Funds Availability Act extends the availability schedules for deposits at nonproprietary automated teller machines for a two-year period.

#### POSTPONEMENT OF NEW ACH PARTICIPATION FEE

The Federal Reserve Board on February 13, 1991, postponed the implementation of a new \$10 monthly participation fee for automated clearing-houses (ACHs) that had previously been scheduled to take effect on April 1, 1991. The Board also has modified the manner in which the fee will be applied during 1991.

The new participation fee will become effective on July 1, 1991, and during the remainder of 1991 will apply only with respect to participant records that have commercial ACH volume in a given month. These actions are being taken to address concerns raised by some institutions that they would not be able to act in a sufficiently timely manner to avoid paying multiple participation fees beginning in April 1991.

# NEW PUBLICATION: Consumer Compliance Handbook

The Federal Reserve Board announced on February 27, 1991, the publication of a new Consumer Compliance Handbook designed to help banks comply with the consumer protection laws and regulations. The Handbook provides easyto-read summaries of all the various consumer laws and regulations administered by the Board, sets forth the examination procedures used by the Federal Reserve System, and includes an examiner's checklist. Some of the laws and regulations included in the Handbook are the Fair Housing Act, the Home Mortgage Disclosure Act, the Community Reinvestment Act, Truth in Lending Act, Consumer Leasing Act, Electronic Fund Transfer Act, Expedited Funds Availability Act, Unfair or Deceptive Practices Act, and Fair Credit Reporting Act.

Copies of the *Handbook* are available from Publications Services, Board of Governors of the Federal Reserve System, Washington, D.C. 20551. A check for \$20 should accompany each order.

### GOVERNOR SEGER'S RESIGNATION: EFFECTIVE DATE

On March 11, 1991, Governor Martha R. Seger announced that her resignation as a member of the Board of Governors would be effective at the close of business on that day.

## CHANGES IN THE STATISTICAL APPENDIX TO THE BULLETIN

Two tables in the statistical appendix to the *Bulletin*, table 1.28, "Assets and Liabilities of Large Weekly Reporting Commercial Banks in New York City," and table 1.31, "Gross Demand Deposits of Individuals, Partnerships, and Corporations," are being discontinued. Table 1.31 is being discontinued as of this issue. Table 1.28 will

no longer be carried in the *Bulletin* starting with the May 1991 issue. Historical data for the series in table 1.28 are available on request from the Banking and Money Market Statistics Section, Division of Monetary Affairs, mail stop 81, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

#### **REVISIONS TO MONEY STOCK DATA**

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

Data for the monetary aggregates were benchmarked using call reports through June 1990 and other sources. Estimates of deposits at institutions that do not file reports were revised from 1984 to 1990.

Seasonal factors for the monetary aggregates continued to be estimated by the X-11-ARIMA procedure. Beginning with January 1990, a new procedure is being applied to the following monetary aggregates—other checkable deposits (OCDs), money market deposit accounts

(MMDAs), other savings deposits, small time deposits, and large time deposits. Under the new procedure, the commercial bank and thrift deposit components of these aggregates, with the exception of OCDs, have each been adjusted with seasonal factors computed from data aggregated over banks and thrift institutions. With OCDs, when seasonal patterns show more differences between banks and thrift institutions, commercial bank data are seasonally adjusted directly, and seasonally adjusted OCDs at thrift institutions are computed as the difference between the seasonally adjusted total OCDs and seasonally adjusted bank OCD series. The previous procedure had been to derive seasonal factors from each deposit component at banks and thrift institutions separately. This procedure remains the one used for computing seasonal factors applied to deposit data up to December 1989.

More detail on the revisions is available in the Board's H.6 statistical release, "Money Stock, Liquid Assets, and Debt Measures," dated February 7, 1991. Historical data are available from the Money and Reserves Projections Section, Division of Monetary Affairs, mail stop 72, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

1. Monthly seasonal factors used to construct M1, M2, and M3, January 1990-March 1992

1990–January February March April May June 1	.9931 .9902 .9946 .9971 .9995 .0050 .0050	travelers' checks .9351 .9517 .9588 .9526 .9708 1.0373	Demand deposits 1.0187 .9707 .9741 1.0069 .9748	Total 1.0133 .9930 1.0011	At banks 1.0213 1.0004 1.0055	In M2 1.0016 1.0014	In M3 only .9946 .9973
February March April May June 1	.9902 .9946 .9971 .9995 .0050 .0068	.9517 .9588 .9526 .9708	.9707 .9741 1.0069 .9748	.9930 1.0011	1.0004	1.0014	
February March April May June 1	.9902 .9946 .9971 .9995 .0050 .0068	.9517 .9588 .9526 .9708	.9707 .9741 1.0069 .9748	.9930 1.0011	1.0004		9973
March April May June	.9971 .9995 .0050 .0068	.9526 .9708	1.0069 .9748		1.0055		
April May June	.9971 .9995 .0050 .0068	.9708	1.0069 .9748			1.0027	1.0006
May 1	.0050 .0068			1.0322	1.0333	1.0011	.9940
June 1	.0068	1.0373		.9900	.9865	.9961	1.0020
			.9958	.9964	.9925	.9977	1.0020
		1.1108	1.0061	.9932	.9878	1.0004	.9988
August 1	.0039	1.1198	.9957	.9907	.9874	1.0011	1.0053
	.9978	1.0680	.9965	.9934	.9914	.9993	1.0036
	.9952	1.0083	1.0032	.9884	.9857	1.0004	.9997
	.0032	.9561	1.0119	.9968	.9948	1.0003	1.0043
	.0131	.9300	1.0469	1.0110	1.0130	.9981	.9975
1991 — January	.9929	.9366	1.0177	1.0136	1.0216	1.0015	. <del>99</del> 48
	.9903	.9521	9707	.9932	1.0003	1.0015	.9967
March	.9956	.9584	.9745	1.0018	1.0059	1.0028	1.0001
Apríl	.9977	.9526	1.0066	1.0325	1.0335	1.0011	.9944
	.0022	.9706	.9743	.9894	.9861	.9959	1.0023
	.0060	1.0364	.9950	.9962	.9926	.9975	1.0020
	.0075	1.1094	1.0061	.9929	.9878	1.0004	.9994
	.0046	1.1200	.9958	.9905	9873	1.0011	1.0058
	.9977	1.0679	.9968	.9934	.9914	.9992	1.0036
	.9952	1.0088	1.0035	.9882	.9855	1.0004	.9995
	.0038	.9569	1.0123	.9969	.9948	1.0003	1.0039
	.0121	.9308	1.0475	1.0111	1.0130	.9981	.9973
1992 — January	.9930	.9368	1.0170	1.0138	1.0217	1.0015	.9952
	.9902	.9521	9707	.9933	1.0003	1.0015	.9966
	.9948	.9597	.9747	1.0020	1.0061	1.0029	.9998

1. Seasonally adjusted other checkable deposits at thrift institutions are derived as the difference between total other checkable deposits, seasonally adjusted, and seaonally adjusted other checkable deposits at commercial banks.

		Depo	sits'		Money market	mutual funds
Year and month	Savings	Money market deposit accounts	Small denomination time	Large denomination time	In M2	In M3
990 – January	.9922	1.0069	1.0011	.9960	1.0002	1.0335
February	.9910	1.0032	1.0016	.9970	1,0111	1.0353
March	.9993	1.0052	.9998	.9996	1.0177	1.0154
April	1.0030	1.0007	1.0000	.9944	1.0120	.9912
May	1.0028	.9905	.9990	.9989	.9891	.9924
June	1.0069	.9941	1.0002	.9987	.9840	.9831
July	1.0103	.9928	1.0029	.9965	.9871	.9859
August	1.0030	.9968	1.0016	1.0022	.9965	.9929
September	.9985	.9972	.9995	1.0046	.9999	.9759
October	1.0025	.9978	.9998	1.0063	.9986	.9795
November	.9984	1.0060	.9983	1.0066	1,0044	1.0051
December	.9916	1.0086	.9966	1.0000	1.0004	1.0099
991 - January	.9925	1.0076	1.0007	.9959	1.0007	1.0361
February	.9916	1.0039	1.0010	.9964	1.0115	1.0343
March	.9999	1.0056	.9993	.9988	1.0178	1.0133
April	1.0030	1.0006	1.0001	.9944	1.0120	.9901
May	1.0024	.9900	.9996	.9989	.9875	.9928
June	1.0065	.9935	1.0006	.9988	.9827	.9838
July	1.0099	.9920	1.0031	.9969	.9865	.9852
August	1.0028	.9965	1.0019	1.0025	.9966	.9933
September	.9984	.9970	.9997	1.0046	1.0001	.9769
October	1.0024	.9976	9998	1.0063	.9994	.9803
November	.9987	1.0065	.9979	1.0067	1,0051	1.0033
December	.9918	1.0090	.9965	.9998	1.0007	1.0110
992 — January	.9927	1.0080	1.0007	.9960	1.0007	1.0374
February	.9919	1.0042	1.0006	.9962	1.0116	1.0328
March	1.0000	1.0057	.9992	.9984	1.0175	1.0119

# 2. Monthly seasonal factors for selected components of the monetary aggregates, January 1990-March 1992

1. These seasonal factors are applied to deposits data at both commercial banks and thrift institutions.

3.	Weekly seasonal	factors used to	construct M1,	M2 and M3,	December	1990–March 1992
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		Nonbank Demand			Demand	Other check	able deposits <sup>1</sup>	Nontransactio	ons components
Week ending	Currency	travelers' checks	deposits	Total	At banks	In M2	In M3 only		
1990 – December 3	.9998	.9311	1.0081	.9984	.9972	.9996	.9991		
10	1.0139	.9306	1.0293	1.0221	1.0210	1.0005	.9990		
17	1.0105	.9300	1.0401	1.0096	1.0103	.9995	.9942		
24	1.0209	.9295	1.0453	1.0028	1.0086	.9960	.9974		
31	1.0096	.9289	1.0852	1.0070	1.0114	.9953	.9989		
1991 — January 7	1.0088	.9306	1.0807	1.0525	1.0574	1.0009	.9811		
14	1.0005	.9338	1.0383	1.0345	1.0439	1.0034	1.0003		
21	.9900	.9371	1.0050	1.0099	1.0191	1.0018	1.0009		
28	.9807	.9403	.9667	.9751	.9825	1.0003	.9960		
February 4	.9863	.9437	.9864	.9971	1.0057	1.0006	.9966		
11	.9952	.9481	.9722	1.0055	1.0120	1.0012	1.0002		
18	.9939	.9524	.9669	.9882	.9989	1.0014	.9965		
25	.9840	.9567	.9579	.9802	.9852	1.0019	.9936		
March 4	.9903	.9602	.9834	1.0043	1.0071	1.0023	.9966		
11	1.0007	.9592	.9801	1.0133	1.0174	1.0029	.9962		
18	.9968	.9582	.9778	1.0001	1.0040	1.0031	.9993		
25	.9920	.9572	.9555	.9858	.9934	1.0020	1.0047		

For notes, see following page.

Week anding		_	Nonbank	Demand	Other check	able deposits <sup>1</sup>	Nontransacti	ons components
Week ending		Currency	travelers' checks	deposits	Total	At banks	In M2	In M3 only
1991–April 1		.9898	.9562	.9814	.9991	1.0007	1.0040	1.0028
	3	1,0071	.9547	1.0136	1.0482	1.0439	1.0053	.9979
15	5	1.0016	.9529	1.0228	1.0499	1.0496	1.0034	.9931
22	2	.9964	.9512	1.0088	1.0412	1.0494	.9988	.9883
29	•••••	.9879	.9494	.9825	.9960	.9984	.9975	.9964
May 6	5	1.0034	.9526	.9802	1.0116	1.0017	.9954	.9996
13		1.0055 1.0012	.9622	.9764 .9790	.9959	.9921 .9827	.9955 .9959	1.0028
20	)	1.0012	.9718 .9814	.9790	.9855 .9672	.9827	.9959 .9954	1.0020
June 3	3	1.0005	.9910	.9972	1.0010	.9938	.9980	1.0017
	5	1.0134	1.0119	1.0027	1.0206	1.0128	.9978	1.0039
17	;	1.0069	1.0326	.9976	1.0045	1.0016	.9976	1,0037
24	• [	1.0015	1.0532	.9728	.9739	.9746	.9967	1.0024
July 1		1.0010	1.0735	1.0115	.9772	.9751	.9979	.9977
8	3	1.0214	1.0890	1.0374	1.0212	1.0115	.9991	.9977
15	5	1.0113	1.1026	1.0194	1.0021	.9959	1.0015	.9975
22	? · · · · · {	1.0057 .9970	1.1161 1.1297	.9913 .9715	.9835 .9667	.9799 .9660	1.0009 1.0004	1.0002 1.0017
August 5	5	1.0074	1.1370	1.0016	1.0040	.9975	1.0007	1.0024
12	2	1.0117	1.1287	1.0061	1.0014	.9965	1.0019	1.0052
26	5	1.0052 .9966	1.1204 1.1121	1.0069 .9711	.9875 .9707	.9837 .9723	1.0015 1.0008	1.0036 1.0091
September 2		.9984	1.1039	.9896	.9888	.9853	1.0005	1.0084
September 2	5	1.0081	1 0891	1 0188	1.0267	1.0197	1.0006	1.0040
16	5	1.0001	1.0733	1.0188 1.0097	1.0082	1.0063	.9997	1.0056
23	3	9936	1.0576	.9767	.9762	.9780	.9974	1 0016
30		.9936 .9870	1.0891 1.0733 1.0576 1.0419	.9767 .9825	.9762 .9607	.9616	.9989	1.0016 1.0017
October 7		1.0028	1.0287 1.0173	1.0139	1.0079	1.0003 .9961	1.0012 1.0009	.9988
14	F [-	1.0009	1.0173	1.0205	1.0002	.9961	1.0009	1.0018
21	3	.9951 .9878	1.0058 .9943	.9995 .9796	.9862 .9646	.9844 .9681	.9995 .9998	.9952 1.0007
November 4		.9953	.9826	1.0170	.9982 1.0083	.9925 1,0023	1.0005 1.0003	1.0030 1.0046
10		1.0085	.9702 .9578	1.0152	.9987	.9956	1.0010	1.0048
25	3	1.0035 1.0003	.9456	1.0233 .9981	.9783	.9823	.9999	1.0042
December 2		1.0042	.9335	1.0138	.9937	.9930	.9999	1.0080
9		1.0117	.9312	1.0287	1.0260	1.0218	1.0008	.9959
16	5	1.0095	.9307	1.0380	1.0091	1.0106	.9992	.9953
23		1.0183	.9301	1.0419	1.0052	1.0107	.9966	.9958
30	)	1.0123	.9295	1.0712	1.0023	1.0086	.9952	1.0002
992 – January 6		1.0065	.9305	1.1107	1.0536	1.0535	1.0009	.9898
		.9986 .9919	.9337 .9369	1.0379 1.0009	1.0402 1.0125	1.0475 1.0238	1.0037 1.0014	.9950 .9978
20	<b>,</b>	.9827	.9400	.9613	.9729	.9883	1.0006	.9975
February 3		.9842	.9432	.9782	.9896	.9931	1.0002	.9948
10		.9963	.9473	.9773	1.0107	1.0144	1.0007	.9969
17		.9950	.9514	.9713	.9907	.9998	1.0014	.9961
24		.9852	.9555	.9622	.9825	.9902	1.0023	.9951
March 2	2	.9836	.9595	.9704	.9863	.9960	1.0026	1.0000
9		1.0004	.9592	.9865	1.0192	1.0264	1.0028	.9994
16	5	.9965	.9582	.9785	1.0031	1.0077	1.0030 1.0019	.9987
23	)	.9938 .9903	.9572 .9563	.9600 .9618	.9924 .9897	.9956 .9907	1.0019	1.0000 1.0014
					1.0470	1.0352	1.0057	.9963
April 6	5	1.0067	.9550	1.0229	1.0470	1.0352	1.0057	.9903

### 3. Weekly seasonal factors used to construct M1, M2 and M3, December 1990-March 1992-Continued

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

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

		Depo	osits <sup>1</sup>		Money marke	t mutual funds
Week ending	Savings	Money market deposit accounts	Small denomination time	Large denomination time	In M2	In M3
990 – December 3	.9960	1.0082	.9975	1.0024	1,0037	1.0136
10	.9965	1.0112	.9969	1.0030	1.0042	1.0038
17	.9919	1.0102	.9959	.9995	1.0025	1.0105
24	.9865	1.0060	.9956	.9983	1.0014	1.0113
31	.9887	1.0062	.9976	.9984	.9920	1.0123
	.9007	1.0002		.7764	.9920	1.0125
91 – January 7	.9978	1.0125	1,0003	.9969	.9820	1.0008
14	.9947	1.0119	1.0009	.9988	1.0023	1.0434
21	.9912	1.0071	1.0007	.9955	1.0077	1.0501
28	.9875	1.0013	1.0007	.9934	1.0087	1.0482
February 4	.9898	1.0022	1.0014	.9933	1.0059	1.0399
11	.9928	1.0044	1.0017	.9977	1.0108	1.0405
18	.9918	1.0043	1.0012	.9971	1.0120	1.0311
25	.9902	1.0036	1,0002	.9965	1.0138	1.0322
March 4	.9936	1.0047	.9997	.9961	1.0140	1.0249
11	.9992	1.0073	.9994	.9987	1.0180	1.0164
18	1.0002	1.0063	.9985	.9981	1.0185	1.0081
25	.9999	1.0042	.9987	1.0002	1.0203	1.0105
April 1	1.0047	1.0049	1.0007	1.0000	1.0164	1.0111
• <b>8</b>	1.0113	1.0102	1.0005	.9977	1.0160	.9989
15	1.0066	1.0082	.99999	.9943	1.0193	.9939
22	.9984	.9967	1.0001	.9916	1.0133	.9790
29	.9958	.9884	.9998	.9930	1.0020	.9870
Мау б	1.0010	.9875	.9998	.9945	.9897	.9817
May 6 13	1.0032	.9897	.9997	.9981	.9883	.9884
20	1.0031	.9904	.9996	.9983	.9848	.9899
27	1.0011	.9897	.9993	1.0035	.9887	1.0070
	1 00 10	0005	0005		00.00	0070
June 3	1.0042	.9935	.9995	1.0001	.9852	.9969
10	1.0090	.9983	1.0000	1.0007	.9842	.9863
17	1.0072	.9964	1.0001	.9992	.9838	.9839
24	1.0039	.9899	1.0003	.9978	.9831	.9857
July I	1.0069	.9889	1.0026	.9968	.9777	.9723
8	1.0142	.9929	1.0039	.9940	.9759	.9692
15	1.0128	.9933	1.0035	.9960	.9885	.9771
22	1.0095	.9913	1.0029	.9977	.9900	.9952
29	1.0047	.9905	1.0023	.9997	.9916	.9986
	1.0063	.9938	1,0027	.9979	.9905	.9947
August 5	1.0062 1.0068	.9969	1.0027	1.0018	.9903	.9947
12	1.0038	.9909	1.0020			
19 26	.9989	.9962	1.0020	1.0022 1.0055	.9956 1.0014	.9886 .9974
September 2	.9976	.9976	1.0009	1.0046	.9990	.9886
9	1.0007	1.0021	1.0003	1.0034	.9963	.9825
16	.9993	1.0007	.9993	1.0039	1.0015	.9773
23	.9964	.9935	.9988	1.0056	1.0035	.9753
30	.9974	.9915	1.0001	1.0055	.9996	.9695
October 7	1.0062	.9956	1.0019	1.0060	.9960	.9664
14	1.0050	.9989	1.0006	1.0064	.9999	.9797
21	1.0022	.9977	.9991	1.0048	.9997	.9812
28	.9977	.9968	.9984	1.0074	1.0011	.9888
Novemb 4	.9992	1 0014	.9984	1.0073	1 0019	0014
November 4	1.0013	1.0014 1.0066	.9984	1.0073 1.0098	1.0018 1.0038	.9916 .9991
11	.9993	1.0078	.9985	1.0098	1.0038	.9991
18 25	.9993	1.0078	.9980	1.0067	1.0033	.9984
43	.9908	1.0008	.77/3	1.0004	1.0098	1.0144

# 4. Weekly seasonal factors for selected components of the monetary aggregates, December 1990-March 1992

For note, see following page.

		Depo	sits <sup>1</sup>		Money marke	t mutual funds
Week ending	Savings	Money market deposit accounts	Small denomination time	Large denomination time	In M2	In M3
1991 – December 2	.9962	1.0082	.9972	1.0022	1.0056	1.0097
9	.9974	1.0115	.9968	1.0013	1.0046	1.0063
16	.9931	1.0111	.9959	.9990	1.0040	1.0119
23	.9878	1.0069	.9955	.9977	1.0016	1.0148
30	.9867	1.0064	.9969	1.0009	.9938	1.0131
992 – January 6	.9973	1,0121	1.0000	.9979	.9820	.9974
13	.9957	1.0133	1.0010	.9976	.9994	1.0431
20	.9920	1.0080	1.0008	.9961	1.0070	1.0517
27	.9883	1.0026	1.0006	.9944	1.0092	1.0496
February 3	.9894	1.0018	1.0011	.9932	1.0051	1.0406
10	.9931	1.0048	1.0013	.9971	1.0101	1.0376
17	.9924	1.0046	1.0009	.9970	1.0129	1.0300
24	.9906	1.0040	1.0001	.9962	1.0134	1.0279
March 2	.9925	1.0044	.9997	.9957	1.0131	1.0322
9	.9984	1.0073	.9996	.9983	1.0159	1.0167
16	.9999	1.0066	.9988	.9981	1.0173	1.0148
23	1.0000	1.0047	.9984	.9990	1.0188	1.0156
30	1,0023	1.0040	.9996	.9993	1.0194	.9987
April 6	1.0131	1.0094	.9998	.9958	1.0163	.9871

# 4. Weekly seasonal factors for selected components of the monetary aggregates, December 1990-March 1992-Continued

1. These seasonal factors are applied to deposits data at both commercial banks and thrift institutions.

# Record of Policy Actions of the Federal Open Market Committee

#### MEETING HELD ON DECEMBER 18, 1990

#### 1. Domestic Policy Directive

The information reviewed at this meeting suggested that economic activity had fallen appreciably in recent months. A depressed level of consumer confidence and a decline in real disposable income had contributed to sluggish consumer spending. In response to apparent weakness in final demands, businesses had reduced production and employment; these cutbacks were most evident in the motor vehicle and construction sectors, but a broad range of other industries had been affected to some degree. Consumer inflation had moderated recently, largely as a result of some softening in oil prices. Despite the substantial increases in living costs this year, wage gains appeared to have slowed somewhat in recent months.

After a progressive weakening during the first three quarters of the year, total nonfarm payroll employment fell sharply further in October and November. Job losses were widespread across industries in November but were especially pronounced in manufacturing and construction. In the service-producing sector, which had generated most of the employment gains earlier in the year, the health industry was one of the few to post significant increases in jobs. The civilian unemployment rate rose to 5.9 percent in November.

Industrial output declined markedly for a second straight month in November. Production cutbacks were broadly distributed across industries but were especially pronounced in motor vehicles and parts, non-auto consumer goods, and construction supplies. Reflecting the sizable decline in manufacturing production, the rate of capacity utilization in manufacturing dropped further below the midyear high. In October and November, retail sales in real terms were below the downward revised September level. Real disposable incomes had been reduced by a decrease in total hours worked and by the effects of higher energy prices, and major surveys of consumer attitudes in November indicated that consumer confidence remained at depressed levels. In October, total private housing starts declined substantially further; almost all of the drop reflected additional weakness in starts of multifamily units. Sales of both new and existing houses fell in September and October.

Shipments of nondefense capital goods edged lower in October after changing little on balance in previous months. A sizable drop in shipments of aircraft and parts more than offset further increases in the office and computing equipment category. New orders for nondefense capital goods pointed to a considerable softening in business equipment spending in coming months. Nonresidential construction activity fell for a third straight month, and permits and contracts for new construction remained in a downtrend. Manufacturing inventories posted a small increase in October, and the ratio of stocks to sales continued to edge down. At the retail level, non-auto inventories rose moderately after two months of little change; the inventory-to-sales ratio remained within the range that had prevailed for an extended period.

Reflecting a sharper rise in the value of imports than in that of exports, the nominal U.S. merchandise trade deficit widened in October from its average rate in the third quarter. After moderating somewhat in September, non-oil imports surged in October; the value of oil imports also rose as a sharp increase in prices offset a small decline in volume. Nonagricultural exports registered a sizable increase that more than offset a further drop in exports of agricultural products. Economic growth in the major foreign industrial countries was mixed in the third quarter. Growth remained strong in Western Germany and appeared to have rebounded in France. Some slowing from the rapid rise early in the year had occurred in Japan, while declines in economic activity were recorded in the United Kingdom and Canada. Some moderation in consumer price inflation appeared to be in progress for the major foreign economies, reflecting the nearly completed pass-through to the retail level of the earlier rise in oil prices.

In November, increases in producer prices of finished goods moderated from the rapid pace of previous months; the prices of finished foods again advanced sharply, but declines in the prices of refined petroleum products damped the overall rise in producer prices. Over October and November, producer prices of non-energy, nonfood finished goods increased at about the thirdquarter rate, which in turn was somewhat below that in the first half of the year. The pace of consumer inflation also slowed in November, mostly as a result of a smaller rise in energy prices. Excluding food and energy items, consumer prices rose in November at the more moderate pace seen in the previous two months. Average hourly earnings of production or nonsupervisory workers were unchanged on balance over October and November; this represented a considerable slowing from the increases recorded in earlier months of the year.

At its meeting on November 13, the Committee adopted a directive that called for a slight immediate reduction in the degree of pressure on reserve positions and that also called for giving weight to potential developments that might require some slight further easing during the intermeeting period. The reserve conditions contemplated by the Committee were expected to be consistent with growth of both M2 and M3 at annual rates of about 1 to 2 percent over the period from September through December.

Following the meeting, open market operations were directed toward implementing the slight easing of reserve market conditions sought by the Committee. Subsequently, in early December, in light of further indications of a softening economy and continuing weakness in the monetary aggregates, another slight easing in reserve pressures was carried out. In addition, a

number of technical adjustments were made to assumed levels of adjustment plus seasonal borrowing to reflect the declines in seasonal borrowing activity that typically occur late in the year. Adjustment plus seasonal borrowing fell from about \$260 million for the reserve maintenance period that ended the day after the November meeting to a little over \$100 million for the period completed prior to this meeting. In the early part of the intermeeting period, in the context of continued cautious reserve management by banks and the settlement of the midguarter Treasury refunding, the federal funds rate averaged near 7<sup>3</sup>/<sub>4</sub> percent. Late in the period, after the slight additional easing of policy and as concerns about a year-end squeeze on the availability of short-term funds abated somewhat, the federal funds rate averaged around 71/4 percent. Other market interest rates also declined on balance over the intermeeting period, in some cases substantially, as markets responded to mounting evidence that the economy was slowing significantly and to the easing of monetary policy. Lower interest rates and optimism over a possible peaceful resolution of the Persian Gulf situation contributed to a rise in broad stock market indexes.

The easing of concerns about year-end pressures appeared to have been helped by the announcement by the Board of Governors on December 4, 1990, of the elimination of reserve requirements on nonpersonal time deposits and net Eurocurrency liabilities. These reserve requirements were phased down in two steps, with the second occurring in the reserve maintenance period spanning year-end. This action was not expected to affect underlying pressures on reserves or federal funds rates but was intended to help counter the tightening by depository institutions of credit terms for many types of borrowers by providing those institutions with added incentive to lend to creditworthy borrowers.

In the foreign exchange markets, the dollar fluctuated in value over the intermeeting period in response to changing perceptions regarding the Persian Gulf situation, the release of U.S. employment data for November, and the further easing of U.S. monetary policy. On balance over the period, the trade-weighted value of the dollar rose slightly in terms of the other G-10 currencies. The dollar appreciated more against the yen and sterling; the recent decreases in oil prices along with expectations of slowing or negative economic growth had sparked large rallies in bond markets in Japan and the United Kingdom. The dollar increased less against the mark, which was generally firm on the basis of continuing strong economic growth in Western Germany and heightened market expectations of further tightening of German monetary policy.

M2 was about unchanged over October and November after growing at a relatively limited pace on balance in earlier months of the year, while M3 declined slightly in both months. The weakness in M2, which persisted despite an earlier decline in opportunity costs, perhaps reflected very weak expansion of nominal income in recent months as well as damped credit growth at depository institutions. From the fourth quarter of 1989 through November, expansion of M2 was estimated to be in the lower half of the Committee's range for the year and M3 near the lower end of its range. Expansion of total domestic nonfinancial debt appeared to have been near the midpoint of its monitoring range.

The staff projection prepared for this meeting pointed to a mild further decline in economic activity over the near term and an upturn before mid-1991. The projection was prepared against the background of persisting uncertainties regarding the prospects for a peaceful resolution of the situation in the Persian Gulf region. The staff assumed that there would be no major further disruption to world oil supplies and that oil prices would drop appreciably further in the first half of next year. The projection took into account the constraints on the supply of credit and an expectation that such constraints would persist to some degree through the year ahead. Consumer outlays were expected to continue to be damped in the near term by the erosion of real disposable income associated with a reduction in hours worked and the effects of higher energy prices; in light of weak consumer demands, business equipment spending was projected to be sluggish and commercial construction to decline further, given the oversupply of currently available space. Economic growth was expected to resume during the first half of 1991 in association with the effects of the assumed reduction in oil prices on

consumer spending and the support provided by further gains in exports. Subsequently, as business sales and orders improved, production and business investment outlays were expected to pick up. The outlook for inflation remained clouded by the uncertainties regarding oil prices but, based on the assumption of a substantial decline in oil prices and some added slack in resource utilization, the staff projected a slower rise in prices and labor costs.

In the Committee's discussion of the economic situation and outlook, members commented that a relatively mild and short recession remained a reasonable expectation, but they emphasized the risks of a more severe and prolonged contraction in economic activity. Generally lean business inventories, favorable conditions for the further growth of exports, and appreciable declines in oil prices from their recent peaks all promised to buoy spending and activity over coming quarters. However, the key to a near-term rebound in the economy was a pickup in consumer spending. Even under the assumption that the Persian Gulf situation would be more settled and oil prices lower, restoration of the degree of confidence needed to induce a substantial upturn in spending was not assured. The financial difficulties of many borrowers and financial intermediaries, especially banks, could continue to damage confidence as well as to constrain further the availability of credit to many borrowers and contribute to additional declines of asset values in commercial and real estate markets. In general, the economy and financial markets were undergoing a process of adjustment to earlier excesses in leveraging by borrowers and speculative increases in asset prices; while the course and effects of that adjustment were difficult to predict, there clearly had been an increase in the downside risks to the economy as a result. With regard to the outlook for inflation, members saw growing indications that a disinflationary process might be getting under way, and some viewed recent price and wage developments as consistent with an outlook for faster progress in reducing inflation than they had anticipated some months ago.

Regional business developments continued to indicate uneven conditions ranging from modest further growth in some parts of the country,

including areas that were benefiting from a relatively strong agricultural sector, to declining activity in an increasing number of regions. Indications of softening economic conditions were widespread, however, even in regions where overall business activity still appeared to be expanding. Business sentiment was negative in much of the nation, and business contacts suggested that it was worsening in many areas. Many state and local governments, notably in relatively depressed areas, were facing severe budgetary problems and were curbing expenditures in response to lagging tax receipts and impaired access to financial markets. Consumer caution was widespread and was evidenced by reports of generally soft retail sales thus far in the holiday season. Some members commented, however, that while its timing remained uncertain, an improvement in consumer sentiment associated possibly with more settled conditions in the Middle East and an upturn in real disposable income would be likely to generate considerable strengthening in deferred consumer spending, particularly for motor vehicles, and to foster a rebound in overall economic activity. Other comments focused on the possibility that consumer sentiment might well remain bearish and consumer spending restrained for an extended period, perhaps even in the context of favorable developments in the Middle East, as consumers continued to adjust to the adverse wealth effects of weak housing markets, heavy debt loads, concerns about the well publicized difficulties of many financial institutions, and fears about their employment prospects. Weak housing prices affected household spending especially by reducing perceived wealth, but also by eroding the margin of unborrowed equity available to be liquified for spending on other goods and services.

Many of the members stressed that business investment spending was likely to remain relatively weak, particularly the construction of office and other commercial facilities that were overbuilt in many metropolitan areas. To date, the manufacture of capital goods appeared to have held up relatively well in key capital-producing sections of the country, though the output of some types of capital equipment had turned down. Statistical and anecdotal reports suggested that inventories generally remained under tight control, even in relatively depressed industries and regions, and a pickup in overall demand was therefore likely to lead fairly promptly to stronger production activity.

Members commented that, apart from the key role of consumer spending, current forecasts of a rebound in overall economic activity relied to an important extent on expectations of appreciable further growth in net exports over the next several quarters. The substantial depreciation of the dollar in terms of other key currencies over the past year, especially since mid-1990, would encourage exports and curb imports. Some members noted, however, that economic activity in a number of major trading nations might be somewhat weaker than was anticipated earlier, thereby tending to limit the growth in U.S. exports. That view was reinforced by comments from some domestic exporters who now saw more limited export opportunities in the year ahead, at least to some countries.

Turning to financial developments, members commented that economic recovery would depend to an important degree on the availability of credit. While credit terms and conditions were not projected to tighten appreciably further, the possibility of such a development represented a risk to the economy that could not be ruled out. A major source of financial pressures was the decline in real estate values in many areas and the inability of many heavily indebted borrowers to service their real estate debts. The difficulties in the real estate sector and the related vulnerability of many lending institutions obviously would be aggravated by a prolonged recession. Many business borrowers with less than prime credit ratings continued to report problems in securing financing, even from their usual lenders, and those problems seemed to be increasing in at least some parts of the country in conjunction with bank efforts to rebuild their capital positions and limit their lending risks in a weak economy. At the same time, there were indications of greater efforts by banks in some areas to increase their loans in order to improve their profits; moreover, many large banks appeared to have made significant progress in adjusting the pricing of their loans to take better account of lending risks; those efforts also could lead to improved

profits and to a better availability of credit to many potential borrowers.

The softness in real estate prices was having a pronounced effect on inflationary sentiment, and against the background of reduced pressures on production resources and an extended period of limited monetary growth most of the members believed that substantial progress toward lower inflation was a likely prospect over the next several quarters. Rising unemployment in some areas of the country was clearly reflected in downward adjustments to the wages of some categories of workers. More generally, the rise in broad wage measures appeared to have peaked in an atmosphere of concern about reduced employment opportunities; it was noted in this connection that current unemployment rates probably underestimated actual unemployment, as discouraged potential workers abandoned efforts to secure employment. Members also commented that competitive pressures, including competition from foreign producers, remained strong in retail markets around the country and also in markets for many producer goods.

In the Committee's discussion of policy for the intermeeting period ahead, all of the members indicated that they favored or could accept a directive calling for some slight easing in reserve conditions. Members noted that monetary policy had been eased in several steps over the course of recent weeks; while substantial additional easing might not be needed under prevailing conditions, a limited further move would provide some added insurance in cushioning the economy against the possibility of a deepening recession and an inadequate rebound in the economy without imposing an unwarranted risk of stimulating inflation later. The members favored a cautious approach to further policy moves in light of the appreciable easing in reserve conditions that already had been implemented and the considerable decline that had occurred in market interest rates. The stimulus provided by the recent easing actions had not yet been felt in the economy, and given the lags that were involved, there was some risk of overdoing the easing of policy at some point, with potential inflationary consequences once the economic recovery got under way. Most of the members viewed such a risk as relatively

remote and one that could be dealt with, should the need arise, by a future tightening of policy, although it was recognized that moves toward restraint could be difficult. Persisting weakness in the monetary aggregates tended to reinforce the view that policy was not moving in a way that would promote a resurgence in inflation. In evaluating the behavior of the monetary aggregates, members stressed the need for policy to provide adequate liquidity in a period of declining economic activity in order to encourage economic recovery.

Growth of M2 had displayed an uneven pattern but had tended to weaken over the course of the year, especially in recent months. The behavior of M2 was not fully understood, but it appeared to be associated, at least in the past year, with the constrained availability of credit from depository institutions and with lagging income growth. In addition, other factors, such as perceptions of increased risks in holding deposit balances in current financial circumstances, seemed to be affecting monetary expansion. A staff projection prepared for this meeting pointed to a pickup in M2 growth over the months immediately ahead, reflecting in part a projected upturn in the expansion of nominal GNP and the lagged effects of the recent declines in market rates on demands for money balances. Members noted that for the year 1990 as a whole, M2 would increase at a rate within the Committee's range, albeit in the lower half of that range and that M2 growth had now been within the Committee's ranges consistently in recent years. While monetary policy might still be viewed as somewhat restrictive from the standpoint of monetary growth, members cited other indicators such as the decline in interest rates, the shape of the yield curve, and conditions in the commodity and foreign exchange markets as indicative of an adequate provision of liquidity and a basically satisfactory policy in current circumstances. Nonetheless, members stressed the need to maintain an appropriate rate of monetary expansion, and they generally concluded that the behavior of the monetary aggregates would need to be monitored with special care in the period ahead for any indication that their growth might be falling significantly short of current expectations.

During this discussion, members noted the potential interactions between open market policy and a possible, near-term reduction in the discount rate. Most of the Federal Reserve Banks had proposed a reduction of 1/2 percentage point in the discount rate, and in light of their concerns about the narrowing spread between the discount rate and short-term market rates, the members generally favored Board approval of that reduction to implement an easing of conditions in money markets. Ordinarily, a reduction in the discount rate would show through fully in lower short-term market rates. However, because of their desire to ease reserve conditions only slightly in the near term, the members generally supported a proposal to gear open market operations toward allowing only about one-half of the proposed cut in the discount rate to be reflected immediately in the money market. If the discount rate were not reduced, the Manager for Domestic Operations would execute the slight easing of policy through open market operations alone. With regard to any further adjustment in the degree of reserve pressure later in the intermeeting period, nearly all the members expressed a preference for retaining a bias in the directive toward potential easing, especially given the recessionary tendencies in the economy, current fragilities in the financial system, and the weakness in the monetary aggregates.

At the conclusion of the Committee's discussion, all of the members indicated that they could support a directive that called for some slight further easing in the degree of pressure on reserve positions and that also provided for giving emphasis to potential developments that might require some additional easing during the intermeeting period. It was recognized that open market operations initially might need to take account of a possible reduction in the discount rate. Subsequent to the initial easing, slightly greater reserve restraint might be acceptable during the intermeeting period or somewhat lesser reserve restraint would be acceptable depending on progress toward price stability, the strength of the business expansion, the behavior of the monetary aggregates, and developments in foreign exchange and domestic financial markets. The reserve conditions contemplated by the

Committee were expected to be consistent with some pickup in monetary growth, including expansion of M2 and M3 at annual rates of about 4 and 1 percent respectively over the four-month period from November to March.

At the conclusion of the meeting, the following domestic policy directive was issued to the Federal Reserve Bank of New York:

The information reviewed at this meeting suggests appreciable weakening in economic activity. Total nonfarm payroll employment fell sharply further in November, reflecting widespread job losses that were especially pronounced in manufacturing and construction; the civilian unemployment rate rose to 5.9 percent. Industrial output declined markedly in October and November, in part because of sizable cutbacks in the production of motor vehicles. Retail sales were weak in real terms in October and November; real disposable income has been reduced not only by a decrease in total hours worked but also by the effects of higher energy prices. Advance indicators of business capital spending point to considerable softening in investment in coming months. Residential construction has declined substantially further in recent months. The nominal U.S. merchandise trade deficit widened in October from its average rate in the third quarter as non-oil imports rose more sharply than exports. Increases in consumer prices moderated in November largely as a result of a softening in oil prices. The latest data on labor costs suggest some improvement from earlier trends.

Most interest rates have fallen appreciably since the Committee meeting on November 13. In foreign exchange markets, the trade-weighted value of the dollar in terms of the other G-10 currencies rose slightly on balance over the intermeeting period.

M2 was about unchanged on balance over October and November after several months of relatively limited expansion, while M3 declined slightly in both months. From the fourth quarter of 1989 through November, expansion of M2 was estimated to be in the lower half of the Committee's range for the year and growth of M3 near the lower end of its range. Expansion of total domestic nonfinancial debt appears to have been near the midpoint of its monitoring range.

The Federal Open Market Committee seeks monetary and financial conditions that will foster price stability, promote growth in output on a sustainable basis, and contribute to an improved pattern of international transactions. In furtherance of these objectives, the Committee at its meeting in July reaffirmed the range it had established in February for M2 growth of 3 to 7 percent, measured from the fourth quarter of 1989 to the fourth quarter of 1990. The Committee in July also retained the monitoring range of 5 to 9 percent for the year that it had set for growth of total

domestic nonfinancial debt. With regard to M3, the Committee recognized that the ongoing restructuring of thrift depository institutions had depressed its growth relative to spending and total credit more than anticipated. Taking account of the unexpectedly strong M3 velocity, the Committee decided in July to reduce the 1990 range to 1 to 5 percent. For 1991, the Committee agreed on provisional ranges for monetary growth, measured from the fourth quarter of 1990 to the fourth quarter of 1991, of 21/2 to 61/2 percent for M2 and 1 to 5 percent for M3. The Committee tentatively set the associated monitoring range for growth of total domestic nonfinancial debt at 41/2 to 81/2 percent for 1991. The behavior of the monetary aggregates will continue to be evaluated in the light of progress toward price level stability, movements in their velocities, and developments in the economy and financial markets.

In the implementation of policy for the immediate future, the Committee seeks to decrease slightly the existing degree of pressure on reserve positions, taking account of a possible change in the discount rate. Depending upon progress toward price stability, trends in economic activity, the behavior of the monetary aggregates, and developments in foreign exchange and domestic financial markets, slightly greater reserve restraint might or somewhat lesser reserve restraint would be acceptable in the intermeeting period. The contemplated reserve conditions are expected to be consistent with growth of M2 and M3 over the period from November through March at annual rates of about 4 and 1 percent, respectively.

Votes for this action: Messrs. Greenspan, Corrigan, Angell, Boehne, Boykin, Hoskins, Kelley, LaWare, Mullins, Ms. Seger, and Mr. Stern. Votes against this action: None.

## 2. Authorization for Domestic Open Market Operations

The Committee approved a temporary increase of \$6 billion, to a level of \$14 billion, in the limit on changes between Committee meetings in System Account holdings of U.S. government and federal agency securities. The increase amended paragraph 1(a) of the Authorization for Domestic Open Market Operations and was effective for the intermeeting period ending with the close of business on February 6, 1991.

Votes for this action: Messrs. Greenspan, Corrigan, Angell, Boehne, Boykin, Hoskins, Kelley, LaWare, Mullins, Ms. Seger, and Mr. Stern. Votes against this action: None.

The Manager for Domestic Operations advised the Committee that the current leeway of \$8 billion for changes in System Account holdings was not likely to be sufficient to accommodate the potentially very large need to drain reserves over the intermeeting period ahead. That need would reflect a bulge in available reserves stemming from the elimination of reserve requirements on nonpersonal time deposits and net Eurocurrency liabilities combined with the effects of seasonal reductions in currency in circulation and in required reserves over the intermeeting period.

# Legal Developments

#### FINAL RULE—AMENDMENT TO REGULATION A

The Board of Governors is amending 12 C.F.R. Part 201, its Regulation A (Extensions of Credit by Federal Reserve Banks), to reflect its recent approval of a reduction in discount rates at each Federal Reserve Bank. The discount rate is the interest rate that is charged depository institutions when they borrow from their district Federal Reserve Banks. The Board acted on requests submitted by the Boards of Directors of the twelve Federal Reserve Banks. The Board approved the requests in light of further declines in economic activity, continued sluggish growth trends in money and credit, and evidence of abating inflationary pressures, including weakness in commodity prices.

Effective on the dates specified below, 12 C.F.R. Part 201 is amended as follows:

1. The authority citation for 12 C.F.R. Part 201 continues to read as follows:

Authority: Secs. 10(a), 10(b), 13, 13a, 14(d) and 19 of the Federal Reserve Act (12 U.S.C. 347a, 347b, 343 et seq., 347c, 348 et seq., 357, 374, 374a and 461); and sec. 7(b) of the International Banking Act of 1978 (12 U.S.C. 374d).

2. Section 201.51 is revised to read as follows:

Section 201.51—Short-term Adjustment Credit for Depository Institutions

The rates for short-term adjustment credit provided to depository institutions under section 201.3(a) of Regulation A are:

Federal Reserve Bank	Rate	Effective Date
Boston	6.0	February 1, 1991
New York	6.0	February 1, 1991
Philadelphia	6.0	February 1, 1991
Cleveland	6.0	February 1, 1991
Richmond	6.0	February 1, 1991
Atlanta	6.0	February 4, 1991
Chicago	6.0	February 1, 1991
St. Louis	6.0	February 4, 1991
Minneapolis	6.0	February 1, 1991
Kansas City	6.0	February 1, 1991
Dallas	6.0	February 1, 1991
San Francisco	6.0	February 1, 1991

3. Section 201.52 is revised to read as follows:

# Section 201.52—Extended Credit for Depository Institutions

(a) Seasonal credit. The rates for seasonal credit extended to depository institutions under section 201.3(b)(1) of Regulation A are:

Federal Reserve Bank	Rate	Effective Date
Boston	6.0	February 1, 1991
New York	6.0	February 1, 1991
Philadelphia	6.0	February 1, 1991
Cleveland	6.0	February 1, 1991
Richmond	6.0	February 1, 1991
Atlanta	6.0	February 4, 1991
Chicago	6.0	February 1, 1991
St. Louis	6.0	February 4, 1991
Minneapolis	6.0	February 1, 1991
Kansas City	6.0	February 1, 1991
Dallas	6.0	February 1, 1991
San Francisco	6.0	February 1, 1991

(b) Other extended credit. The rates for other extended credit provided to depository institutions under sustained liquidity pressures or where there are exceptional circumstances or practices involving a particular institution under section 201.3(b)(2) of Regulation A are:

Federal Reserve Bank	Rate	Effective
Boston	6.0	February 1, 1991
New York	6.0	February 1, 1991
Philadelphia	6.0	February 1, 1991
Cleveland	6.0	February 1, 1991
Richmond	6.0	February 1, 1991
Atlanta	6.0	February 4, 1991
Chicago	6.0	February 1, 1991
St. Louis	6.0	February 4, 1991
Minneapolis	6.0	February 1, 1991
Kansas City	6.0	February 1, 1991
Dallas	6.0	February 1, 1991
San Francisco	6.0	February 1, 1991

These rates apply for the first 30 days of borrowing. For credit outstanding for more than 30 days, a flexible rate will be charged which takes into account rates on market sources of funds, but in no case will the rate charged be less than the basic discount rate plus one-half percentage point. Where extended credit provided to a particular depository institution is anticipated to be outstanding for an unusually prolonged period and in relatively large amounts, the 30-day time period may be shortened.

# FINAL RULE — AMENDMENT TO REGULATION CC

The Board of Governors is amending 12 C.F.R. Part 229, its Regulation CC (Availability of Funds and Collection of Checks), to conform to recent amendments to the Expedited Funds Availability Act (see the Cranston-Gonzales National Affordable Housing Act, Pub. L. No. 101–625, section 1001). The amendments extend the availability schedules for deposits at nonproprietary automated teller machines for a period of two years. The amendments to the Expedited Funds Availability Act were signed into law on November 28, 1990, with a retroactive effective date of September 1, 1990.

Effective September 1, 1990, 12 C.F.R. Part 229 is amended as follows:

#### Part 229-[Amended]

1. The authority citation for Part 229 continues to read as follows:

Authority: Title VI of Pub. L. 100-86, 101 Stat. 552, 635, 12 U.S.C. 4001 et seq.

2. In section 229.12, paragraph (a) and the introductory text to paragraph (b) are revised, paragraph (b)(3) is removed, paragraphs (b)(4) and (b)(5) are redesignated as (b)(3) and (b)(4), newly redesignated paragraph (b)(4) is revised, paragraph (c)(1) introductory text and the first and third sentences of paragraph (d) are revised, and a new paragraph (f) is added to read as follows:

Section 229.12—Permanent Availability Schedule

(a) Effective date. Except as provided in paragraph (f)(2) of this section, the permanent availability schedule contained in this section is effective September 1, 1990.

(b) Local checks and certain other checks. Except as provided in paragraphs (d), (e), and (f) of this section, a depositary bank shall make funds deposited in an account by a check available for withdrawal not later than the second business day following the banking day on which funds are deposited, in the case of\* \* \* \* \*

(4) A check drawn on a Federal Reserve Bank or Federal Home Loan Bank; a check drawn by a state or unit of general local government; or a cashier's, certified, or teller's check; if any check referred to in this paragraph (b)(4) is a local check that is not governed by the availability requirements of section 229.10(c).

(c) Nonlocal checks—(1) In general. Except as provided in paragraphs (d), (e), and (f) of this section, a depositary bank shall make funds deposited in an account by a check available for withdrawal not later than the fifth business day following the banking day on which funds are deposited, in the case of—

\* \* \* \*

(d) Time period adjustment for withdrawal by cash or similar means. A depositary bank may extend by one business day the time that funds deposited in an account by one or more checks subject to paragraphs (b), (c), or (f) of this section are available for withdrawal by cash or similar means. \*\*\* A depositary bank shall, however, make \$400 of these funds available for withdrawal by cash or similar means not later than 5:00 p.m. on the business day on which the funds are available under paragraphs (b), (c), or (f) of this section. \*\*\*

\* \* \* \* \*

(f) Deposits at nonproprietary ATMs.

(1) (i) A depositary bank shall make funds deposited in an account at a nonproprietary ATM by cash or check available for withdrawal not later than the fifth business day following the banking day on which the funds are deposited.

(ii) Paragraph (f)(1) of this section is effective September 1, 1990, through November 27, 1992.

(2) (i) A depositary bank shall make funds deposited in an account at a nonproprietary ATM available for withdrawal not later than the second business day following the banking day on which the funds are deposited, in the case of—

(A) Cash;

(B) A check or checks described in sections 229.10(c)(1)(i) through (v) and (vii), even though the check or checks are not deposited in person to an employee of the depositary bank; and

(C) A check described in paragraph (b) of this section.

(ii) A depositary bank shall make funds deposited in an account by a check described in paragraph(c) of this section at a nonproprietary ATM available for withdrawal not later than the fifth business day following the banking day on which the funds are deposited.

(iii) Paragraph (f)(2) of this section is effective November 28, 1992.

#### APPENDIX C TO PART 229—[AMENDED]

3. Appendix C is amended as set forth below:

a. In the listing following the first paragraph of Appendix C, the entry for Model Clause C-10 is revised to read as follows:

APPENDIX C—MODEL FORMS, CLAUSES, AND NOTICES

\* \* \* \* \*

C-10—Automated teller machine deposits (permanent schedule, extended hold)

\* \* \* \* \*

b. In model clause C-10, the heading and the first sentence under the subheading "Deposits at Automated Teller Machines" are revised to read as follows:

C-10—Automated Teller Machine Deposits (Permanent Schedule, Extended Hold)

#### Deposits at Automated Teller Machines

Funds from any deposits (cash or checks) made at automated teller machines (ATMs) we do not own or operate will not be available until the fifth business day after the day of your deposit. \*\*\*

#### APPENDIX E TO PART 229 ---[AMENDED]

4. Appendix E is amended as set forth below:

a. In the Commentary to section 229.12, a new sentence is added to the end of paragraph (a), the second paragraph of paragraph (b) is revised, and a new paragraph (f) is added to read as follows:

Section 229.12—Permanent Availability Schedule

(a) Effective date. \*\*\* Paragraph (f) provides special effective dates for deposits made at nonproprietary ATMs.

(b) Local checks and certain other checks.

\* \* \* \* \*

In addition, the proceeds of Treasury checks and U.S. Postal Service money orders not subject to next-day (or second-day) availability under section 229.10(c); checks drawn on Federal Reserve Banks and Federal Home Loan Banks; checks drawn by a state or unit of general local government; and cashier's, certified, and teller's checks not subject to second-day) availability next-day (or under section 229.10(c) and payable in the same check processing region as the depositary bank, must be made available for withdrawal by the second business day following deposit.

\* \* \* \* \*

(f) Deposits at nonproprietary ATMs. The Act and regulation provide a special rule for deposits made at nonproprietary ATMs. This paragraph does not apply to deposits made at proprietary ATMs. During the period from September 1, 1990, through November 27, 1992, all deposits at a nonproprietary ATM must be made available for withdrawal by the fifth business day following the banking day of deposit (i.e., such deposits may be treated in the same manner as deposits of nonlocal checks under the permanent schedule). For example, during that time period, a deposit made at a nonproprietary ATM on a Monday, including any deposit by cash or checks that would otherwise be subject to next-day (or second-day) availability, must be made available for withdrawal not later than Monday of the following week.

Effective November 28, 1992, deposits of cash, "next-day" checks, and local checks at a nonproprietary ATM must be made available by the second business day following the banking day of deposit. In addition, the first \$100 of the aggregate deposit at a nonproprietary ATM on any one banking day must be made available for withdrawal on the second business day after the banking day of deposit (rather than on the next day, as required by section 229.10(c)(1)(vii) for deposits at staffed teller stations and proprietary ATMs). If a customer makes a deposit at a nonproprietary ATM and one or more deposits to the same account on the same day at another location, such as a staffed teller station, the \$100 rule is applied to the aggregate of all deposits made on that day. In this situation, the \$100 rule is applied first to funds for which the \$100 must be available for withdrawal on the next day (e.g., funds deposited at a staffed teller station) and then to funds deposited at nonproprietary ATMs for which the \$100 must be made available for withdrawal on the second day. For example, if a customer deposits a \$75 nonlocal check at a staffed teller station and a \$100 nonlocal check at a nonproprietary ATM on the same banking day, \$75 must be available for withdrawal on the next business day (as required by section 229.10(c)(1)(vii)) and an additional \$25 must be available for withdrawal on the second business day after the banking day of deposit (as required by this paragraph). Nonlocal checks deposited at a nonproprietary ATM after November 28, 1992, must continue to be made available for withdrawal by the fifth business day following the banking day of deposit.

b. In the Commentary to section 229.16, the first sentence of the seventh paragraph of paragraph (b) is revised to read as follows:

Section 229.16—Specific Availability Policy Disclosure

(b) \* \* \*

\* \* \* \* \*

A bank taking advantage of the extended time period for making deposits at nonproprietary ATMs available for withdrawal under section 229.12(f)(1)must explain this in the initial disclosure. \* \* \*

\* \* \* \* \*

c. In the Commentary to Appendix C, under the subheading "Model C-10," the first sentence is revised to read as follows:

APPENDIX C—MODEL FORMS, CLAUSES, AND NOTICES

\* \* \* \* \*

Model C-10. This clause must be incorporated in the specific availability-policy disclosure by banks that reserve the right to delay availability of deposits at nonproprietary ATMs until the fifth business day following the date of deposit, as permitted by section 229.12(f)(1). \* \* \*

\* \* \* \* \*

#### 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 Federal Reserve Banks authority to approve certain proposals by state member banks to issue, or retire prior to maturity subordinated capital notes. As part of this amendment, the Board is

also delegating to the Reserve Banks authority to approve investments by state member banks in bank premises without quantitative limitation. Applications falling outside the standards set forth herein will be forwarded to the Board for further consideration.

Effective February 15, 1991, 12 C.F.R. Part 265 is amended as follows:

#### Part 265—Rules Regarding Delegation of Authority

1. The authority citation for Part 265 continues to read as follows:

Authority: Section 11(k), 38 Stat. 261 and 80 Stat. 1314 (12 U.S.C. 248(k)).

2. Section 265.2 is amended by revising paragraphs (c)(10) and (f)(7)(i), by removing and reserving paragraphs (c)(24) and (c)(26), by removing subparagraph (f)(7)(ii), and by adding new paragraphs (f)(50) and (f)(51) to read as follows:

Section 265.2—Specific Functions Delegated to Board Employees and to Federal Reserve Banks

\* \* \* \*

(c) \* \* \*

(10) To exercise the functions described in paragraphs (f)(4),(50), and (51) of this section in cases in which the conditions specified therein as prerequisites to exercise of such functions by the Federal Reserve Banks are not present, or in which, even though such conditions are present, the appropriate Federal Reserve Bank considers that nevertheless it should not take action on the member bank's request, and to exercise the functions described in paragraphs (f)(1),(2), and (7) of this section in cases in which the appropriate Federal Reserve Bank considers that it should not take action to approve the member bank's request.

(24) [Reserved]

(26) [Reserved]

(f) \* \* \* (7) \* \* \*

> (i) The bank's capitalization in relation to the character and condition of its assets and to its deposit liabilities and other corporate responsibil

ities, including the volume of its risk assets and of its marginal and inferior-quality assets, all considered in relation to the strength of its management.

\* \* \* \*

(50) Approval of subordinated debt to capital. To approve a State member bank's proposed subordinated debt issue as an addition to the bank's capital structure if all of the following conditions are met:

(i) The terms of the proposed debt issue satisfy the requirements of section 204.2(a)(1)(vii)(C) of this part (Regulation D) and the Board's guideline criteria for approval of subordinated debt as an addition to capital; and

(ii) No significant policy issue is raised by the proposed issue as to which the Board has not expressed its view.

(51) To approve the retirement prior to maturity of capital notes issued by a state member bank described in section 204.2(a)(l)(vii)(C) of this part (Regulation D), provided the Reserve Bank is satisfied that the bank's capital position will be adequate after the proposed redemption.

\* \* \* \* \*

#### 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 Reserve Banks, and to the Staff Director of the Division of Banking Supervision and Regulation acting together with the General Counsel of the Board, authority to approve certain transactions requiring approval of the Federal Reserve pursuant to section 5(d)(3) of the Federal Deposit Insurance Act ("FDI Act") (12 U.S.C. 1815(d)(3)).

This amendment adds new paragraphs (b)(14), (c)(37) and (f)(52) to section 265.2 to effect the delegation.

Effective February 28, 1991, 12 C.F.R. Part 265 is amended as follows:

# Part 265—Rules Regarding Delegation of Authority

1. The authority citation for Part 265 continues to read as follows:

Authority: Section 11(k), 38 Stat. 261 and 80 Stat. 1314 (12 U.S.C. 248(k)).

2. The Board adds paragraphs (b)(14), (c)(37) and (f)(52) to section 265.2, to read as set forth below:

Section 265.2—Specific Functions Delegated to Board Employees and to Federal Reserve Banks.

\* \* \* \* \*

(14) With the concurrence of the Staff Director of Banking Supervision and Regulation, to exercise the functions described in section (f)(52) of this section 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.

(c) \* \* \*

(b) \* \* \*

(37) With the concurrence of the General Counsel, to exercise the functions described in section (f)(52) of this section 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.

\* \*

(f) \* \* \*

(52) Under the provisions of section 5(d)(3)(E) of the Federal Deposit Insurance Act (12 U.S.C. 1815(d)(3)(E)), to approve requests by a bank holding company to engage in any transaction described in subparagraph (A) of section 5(d)(3) of that Act.

ORDERS ISSUED UNDER BANK HOLDING COMPANY ACT

Orders Issued Under Section 3 of the Bank Holding Company Act

Bancorp III, Inc. Kansas City, Kansas

Order Denying Formation of a Bank Holding Company

Bancorp III, Inc., Kansas City, Kansas ("Bancorp"), has applied for the Board's approval under section 3(a)(1) of the Bank Holding Company Act ("BHC Act") (12 U.S.C. § 1842(a)(1)) to become a bank holding company by acquiring 100 percent of the voting shares of Farmers Bank of Polo, Polo, Missouri ("Bank").

Notice of the application, affording interested persons an opportunity to submit comments, has been published (55 *Federal Register* 51,160 (1990)). 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.

Bancorp is a non-operating company formed for the purpose of acquiring Bank. Bank is the 344th largest commercial banking organization in Missouri, controlling deposits of \$9.4 million, representing less than 1 percent of the total deposits in commercial banking organizations in the state.<sup>1</sup>

Under section 3(c) of the BHC Act, the Board must consider several factors, including the "managerial resources . . . of the company or companies and the banks concerned."<sup>2</sup> The Board's regulations provide that, in reviewing applications under section 3 of the BHC Act, the Board will consider the competence and character of the principals of the applicant and its subsidiary banks, including their record of compliance with laws and regulations. 12 C.F.R. 225.13(b)(2).

In this case, an individual who proposes to acquire 25 percent of the shares of Bancorp for a nominal investment, and serve as president and director of Bancorp and director of Bank ("Principal"), has incurred significant contingent liabilities as a result of his nonbanking business activities, primarily real estate partnerships. The record indicates that loans that have been made by banks to Principal's real estate interests that have been guaranteed by Principal are not current and that Principal's troubled financial condition could continue to result in losses on these loans.

The Board believes that the conduct of a management official in dealing with other banks is relevant in evaluating that official's managerial strength. In this proposal, Principal maintains that he brings the most significant managerial strength to the group of investors in Bancorp. Principal would provide management services to Bank through a management contract, as well as serving as president of Bancorp, and a director of both Bancorp and Bank. In these capacities, Principal would be responsible for reviewing lending practices and policies of Bank and for evaluating certain loans as well as loan charge-off and collection decisions. There is significant concern that the well-publicized financial difficulties of Principal and his current inability to fulfill his own obligations to banks may impair Principal's ability to act effectively and prudently in making lending and collection policies at Bank and serve as a management official of Bank. The degree of Principal's financial problems and the continuing attention that these problems warrant also

raise concerns that his attention to affairs of Bancorp and Bank may be diverted or affected by the managerial and financial demands of his other business holdings.

The Board has considered Principal's prior banking experience. The Board believes that, on balance, the business difficulties that Principal is experiencing and the other facts of record warrant a decision that Principal should not be permitted to expand the number of banks under his management and control at this time. Accordingly, the Board concludes that considerations relating to managerial resources are not consistent with approval in this case. Considerations relating to financial resources, competitive factors, future prospects and the convenience and needs of the community do not lend sufficient weight to warrant approval of this application.

Based on all the facts of record in this case, the Board concludes that adverse considerations relating to managerial resources of Bancorp and Bank are not outweighed by other factors. Accordingly, it is the Board's judgment that approval of this application would not be in the public interest and that the application should be, and hereby is, denied. The Board notes that this denial is without prejudice to Principal or the other investors filing other applications under the BHC Act under different circumstances.

By order of the Board of Governors, effective February 13, 1991.

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

> JENNIFER J. JOHNSON Associate Secretary of the Board

Mitsui Manufacturers Bank Los Angeles, California

Notice of Public Meeting

#### Background

On December 14, 1990, the Board of Governors of the Federal Reserve System ordered a public meeting on the issues regarding the record of performance of Mitsui Manufacturers Bank, Los Angeles, California ("MMB"), under the Community Reinvestment Act ("CRA"). This public meeting was ordered in connection with an application by MMB's parent company, The Mitsui Taiyo Kobe Bank, Limited, Tokyo, Japan ("Mitsui Taiyo Kobe"), under section 3 of the Bank Holding Company Act ("BHC Act") to convert Taiyo

<sup>1.</sup> Banking and market share data are as of December 31, 1989.

<sup>2. 12</sup> U.S.C. § 1842(c). The Supreme Court has stated that section 3(c) authorizes the Board to disapprove formation of a bank holding company solely on the grounds of financial or managerial unsoundness, regardless of whether that unsoundness would be caused or exacerbated by the proposed transaction. *Board of Governors v. First Lincolnwood Corp.*, 439 U.S. 234, 252 (1978).

Kobe Bank and Trust Company, New York, New York ("TKBTC" and the "TKBTC Application"), from a nonbank trust company back into a bank pursuant to the interstate banking laws of New York and California. In its prior approval of Mitsui Taiyo Kobe's application to acquire TKBTC as a nonbank trust company, the Board noted that MMB had not implemented in all respects the type of CRA program outlined in the Joint Agency Policy Statement regarding the CRA, 54 *Federal Register* 13,742 (1989) ("Agency CRA Statement"), and that there were significant issues raised regarding the adequacy of MMB's CRA performance. *The Mitsui Bank, Limited,* 76 *Federal Reserve Bulletin* 381, 384-85 (1990) ("*Mitsui Bank*").

In *Mitsui Bank*, the Board stated its intent to hold a public meeting on MMB's CRA performance unless the record developed over several months in the Board's view resolved the issues regarding MMB's CRA performance. After considering the record in this application, the Board concluded that a public meeting was appropriate and approved the order for a public meeting in *Mitsui Manufacturers Bank*, 77 Federal Reserve Bulletin 109 (1991) ("Public Meeting Order").

The Public Meeting Order specified that all persons wishing to give testimony at the public meeting should file certain information with the Board not later than January 15, 1991. On the basis of these requests, and taking into account the interests of the persons requesting to appear, the Public Meeting Order directed the Presiding Officer to schedule a date for the public meeting, to choose an appropriate location in California for the public meeting, and to schedule times for persons wishing to testify at the public meeting. The Presiding Officer was also given the authority and discretion to conduct the public meeting and to prescribe all procedures incidental thereto to ensure that the public meeting proceeds in a fair and orderly manner.

#### Public Meeting Date and Scheduling

After considering these requests, the Presiding Officer has determined that the public meeting on the CRA issues raised in the TKBTC Application will be held on March 21, 1991, at the Robert Pitts Westminster Neighborhood Center, 1827 E. 103rd Street, Los Angeles, California, 90002, beginning at 9:00 a.m. Attached to this notice is an agenda scheduling persons and groups who have indicated that they wish to give testimony. Copies of testimony may, but need not, be filed with the Presiding Officer before a person's presentation. To the extent available, translators will be provided to persons wishing to present their views in a language other than English if they so request to the Presiding Officer no later than March 1, 1991. All persons testifying and persons not testifying at the public meeting may file written submissions with the Board through April 8, 1991. Persons not listed in the attached agenda may be permitted to give testimony at the public meeting in the discretion of the Presiding Officer if time permits at the conclusion of the schedule of witnesses.

#### Purpose and Procedures

The purpose of the public meeting is to receive additional information regarding the record of performance of MMB under the CRA. The CRA requires the appropriate federal financial supervisory agency to "assess [an] institution's record of meeting the credit needs of its entire community, including low- and moderate-income neighborhoods, consistent with the safe and sound operation of [the] institution." 12 U.S.C. § 2903. The Board, as a federal financial supervisory agency, is required to take this record into account in its evaluation of an application under section 3 of the BHC Act.

In this regard, the Agency CRA Statement provides guidance regarding the types of policies and procedures that the federal financial supervisory agencies believe that financial institutions should have in place in order to fulfill their responsibilities under the CRA. In addition, the Agency CRA Statement provides guidance regarding the procedures that these agencies will use during the application process to review an institution's CRA compliance and performance. The Agency CRA Statement also suggests that decisions by agencies to allow financial institutions to expand will be made pursuant to an analysis of that institution's overall CRA performance, and will be based on the actual record of performance of the institution. In considering the TKBTC Application, the Board will take into account the information developed in this public meeting, the examinations of MMB's record by the Federal Deposit Insurance Corporation, MMB's primary supervisor, and the Board's own analysis of the record.

The Public Meeting Order specified that the public meeting is to be convened under the Board's policy statement regarding informal meetings in section 262.25(d) of the Board's Rules. This policy statement provides that the purpose of a public meeting is to elicit information, to clarify factual issues related to an application, and to provide testimony. 12 C.F.R. 262.25(d). In contrast to a formal administrative hearing, the rules for taking evidence in an administrative proceeding will not apply to this public meeting. In conducting the public meeting, the Presiding Officer will have the authority and discretion to ensure that the meeting proceeds in a fair and orderly manner. Individuals or groups may be represented by counsel. The public meeting will be transcribed and information regarding procedures for obtaining a copy of the transcript will be announced at the public meeting. Persons desiring a transcript may also write to the Presiding Officer regarding its cost and availability.

Testimony at the public meeting will be presented to a panel consisting of the Presiding Officer, Griffith L. Garwood, Director of the Division of Consumer and Community Affairs, Federal Reserve Board; Shawn McNulty, Program Manager, Compliance, Division of Consumer and Community Affairs, Federal Reserve Board; Robert deV. Frierson, Legal Division, Federal Reserve Board; and W. Gordon Smith, Vice President, Federal Reserve Bank of San Francisco. These panel members may question witnesses, but no cross examination of witnesses will be permitted.

Questions may be submitted in advance to the Presiding Officer for consideration by the panel members. These questions will be forwarded to the participant possessing the requested information. Participants receiving these questions may supply the requested information to the Presiding Officer to the extent relevant to the public meeting. Any information supplied before the meeting will be available to any person upon request.

Persons testifying at the public meeting should address, to the extent possible, the following issues:

(i) the activities conducted by MMB to ascertain the credit needs of its communities, including the extent of its efforts to communicate with members of its communities regarding the credit services being provided by MMB;

(ii) the extent of participation by MMB's board of directors in formulating policies and reviewing MMB's performance with respect to the purposes of the CRA;

(iii) the extent of MMB's marketing and special credit-related programs to make members of its communities aware of the credit services offered by MMB;

(iv) the types of credit MMB makes available to its communities, including the extent of MMB's origination of residential mortgage loans, housing rehabilitation loans, home improvement loans, and small business or small farm loans within its communities, including analyses of data under the Home Disclosure Mortgage Act, or the purchase of any such loans originated in its communities;

(v) the extent of MMB's participation in governmentally-insured, -guaranteed, or -subsidized loan programs for housing, small businesses, or small farms;

(vi) the delineation of MMB's service areas, including low- and moderate-income areas, and analyses of MMB's geographic distribution of credit extensions, credit applications, and credit denials;

(vii) the record of MMB concerning the opening and closing of branches and providing services at branches;

(viii) the extent of MMB's participation, including investments, in local community development and redevelopment projects or programs;

(ix) an operational description of MMB's current CRA program, including personnel, and a description of training and any special skills possessed by MMB's CRA personnel and loan officers; and

(x) any evidence of prohibited discriminatory credit practices by MMB.

The Board noted in *Mitsui Bank* that MMB had undertaken a review of its CRA program to meet the credit needs of its communities and had committed to make certain revisions in that plan. MMB's progress in meeting these commitments would be a relevant consideration for participants appearing at the public meeting. Accordingly, a description of MMB's current CRA program, which may omit confidential business plans, should be submitted to the Presiding Officer by March 11, 1991. This material will be supplied to any person upon request to the Presiding Officer.

By order of the Presiding Officer, effective February 20, 1991.

GRIFFITH L. GARWOOD Presiding Officer

Orders Issued Under Section 4 of the Bank Holding Company Act

Philippine Commercial International Bank Manila, The Philippines

Order Approving Application to Engage in Money Transmission Activity

Philippine Commercial International Bank, Manila, The Philippines ("Applicant"), a foreign banking organization, has applied under section 4(c)(8) of the Bank Holding Company Act (12 U.S.C. § 1843(c)(8)) ("BHC Act") and section 225.23(a)(3) of the Board's Regulation Y (12 C.F.R. 225.23(a)(3)) to engage *de novo* through its subsidiary, PCI Express Padala, Inc., Los Angeles, California ("Company"), in the activity of transmitting money for customers to a foreign country.

Notice of the application, affording an opportunity for interested persons to submit comments, has been published (56 *Federal Register* 861 (1991)). 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 4 of the BHC Act.

Applicant, with consolidated assets equivalent to approximately \$1.1 billion, has numerous branches throughout the Philippines.<sup>1</sup> In addition, Applicant operates an agency in Los Angeles, California, and offices in Germany, Hong Kong, and Saudi Arabia.

Applicant proposes to engage *de novo* throughout California in the activity of transmitting money for customers to a foreign country through Company. Applicant has committed to conduct the proposed activity from offices in California that are located where Applicant could operate an agency or branch. Company will not engage in any other nonbanking activity, and, in particular, will not engage in commercial lending activities. Company will not be an FDICinsured institution. Company will operate under a license as a money transmitter granted under California law, and will be subject to examination by the California Superintendent of Banks.<sup>2</sup>

Company would receive funds from customers at its Los Angeles office for delivery to designated persons at one of Applicant's branch banks in the Philippines. Since the transmission of money activity often involves delivery of funds in the local currency, Company would convert the U.S. dollars received to Philippine pesos through a foreign exchange transaction with Applicant's head office. Under California law, Company is authorized to receive money for transmission only to foreign countries.<sup>3</sup>

Section 4(c)(8) of the BHC Act requires the Board to consider whether:

(i) the proposed activity is closely related to banking; and

(ii) the performance of the proposed activity is a proper incident to banking — that is whether the proposed activity "can reasonably be expected to produce benefits, 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 Board has previously determined that the activity of transmitting money to foreign countries is closely related to banking for purposes of section 4(c)(8) of the BHC Act.<sup>4</sup> The Board also believes that consummation of the proposal can reasonably be expected to result in public benefits. The proposal provides customers with improved access to a reliable and efficient money transmission service. In addition, Applicant's *de novo* entry into the market for these services would increase the level of competition among providers of these services. Consummation of the proposal is not likely to result in any significant adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices. Accordingly, the Board has determined that the balance of public interest factors it must consider under section 4(c)(8)of the BHC Act is favorable and consistent with approval.

Based on the foregoing and other facts of record, the Board has determined that consummation of the proposed transaction would be consistent with the public interest. Accordingly, the Board has determined that the application under section 4 of the BHC Act should be, and hereby is, approved. The determination as to the nonbanking activity is subject to all of the conditions contained in the Board's Regulation Y, including those in sections 225.4(d) and 225.23(b)(3) (12 C.F.R. 225.4(d) and 225.23(b)(3), and to the Board's authority to require such modification or termination of the activities of a holding company or any of its subsidiaries as the Board finds necessary to assure compliance with, or prevent evasions of, the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder.

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

By order of the Board of Governors, effective February 13, 1991.

JENNIFER J. JOHNSON Associate Secretary of the Board

<sup>1.</sup> Asset data are as of September 30, 1990.

<sup>2.</sup> Provisions in the Transmission of Money Abroad chapter of the California financial code authorize and regulate the proposed activity. Cal. Fin. Code §§ 1800 *et seq.* (West 1989 & Supp. 1991). The California banking office granted approval of Company's license to engage in money transmission activities on January 14, 1991.

<sup>3.</sup> Cal. Fin. Code § 1800.5(a)(1) (West Supp. 1991).

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

<sup>4.</sup> See European-American Bancorp, 63 Federal Reserve Bulletin 595 (1977); Skandinaviska Enskilda Banken, 69 Federal Reserve Bulletin 42 (1983); Bergen Bank A/S, 72 Federal Reserve Bulletin 200 (1986); Bergen Bank A/S, 76 Federal Reserve Bulletin 457 (1990). These cases involved state-chartered companies organized under Article XII of the New York Banking Law that were authorized to "receive money for transmission and to transmit the same from the United States." N.Y. Banking Law § 508(3)(c) (McKinney 1990).

The Royal Bank of Canada Montreal, Quebec, Canada

Order Approving Application to Act as a "Riskless Principal" in Buying and Selling Securities

The Royal Bank of Canada, Montreal, Quebec, Canada ("RBC"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), has applied for the Board's approval under section 4(c)(8) of the BHC Act, 12 U.S.C. § 1843(c)(8), for its indirect subsidiary, RBC Dominion Securities Corporation, New York, New York ("Company"), to buy and sell securities on the order of investors as a "riskless principal."

Notice of the application, affording interested persons an opportunity to submit comments on the proposal, has been published (56 *Federal Register* 530 (1991)). The time for filing comments has expired, and the Board has considered the application and all comments received in light of the public interest factors set forth in section 4(c)(8) of the BHC Act.

RBC has total consolidated assets equivalent to approximately \$107.7 billion.1 It owns a bank subsidiary in San Juan, Puerto Rico, and operates branches in Portland, Oregon, and New York, New York, and agencies in Miami, Florida, and Los Angeles, California. RBC has received Board approval to engage in a broad range of nonbanking activities, including engaging through Company in underwriting and dealing in, to a limited extent, debt and equity securities that are not eligible to be underwritten by a state member bank ("ineligible securities").<sup>2</sup> Company is and will continue to be a broker-dealer registered with the Securities and Exchange Commission and subject to the record-keeping, reporting, fiduciary standards, and other requirements of the Securities Exchange Act of 1934, the New York Stock Exchange, and the National Association of Securities Dealers.

The Board has previously determined by order that, subject to certain prudential limitations established to address the potential for conflicts of interests, unsound banking practices or other adverse effects, the proposed "riskless principal" activities are so closely related to banking as to be a proper incident thereto within the meaning of section 4(c)(8) of the BHC Act. The Board also has determined that acting as agent in purchasing and selling securities on the order of investors as a "riskless principal" does not constitute underwriting and dealing in securities for purposes of section 20 of the Glass-Steagall Act, and that revenue derived from this activity is not subject to the 10 percent revenue limitation on ineligible securities underwriting and dealing.<sup>3</sup> RBC has committed that Company will conduct its "riskless principal" activities using the same methods and procedures, and subject to all of the prudential limitations approved by the Board in the *Bankers Trust* and *J.P. Morgan* orders, as modified to reflect RBC's status as a foreign bank, consistent with the framework adopted in the *Canadian Imperial* order.<sup>4</sup>

Consummation of this proposal would provide added convenience to RBC's customers by allowing the provision of a wider range of services by a single entity. In addition, the Board expects that the de novo entry of RBC into the market for these services would increase the level of competition among providers of these services. Under the framework established in this and prior decisions, consummation of this proposal is not likely to result in any significant adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices. Accordingly, the Board has determined that the performance of the proposed activities by RBC can reasonably be expected to produce public benefits that would outweigh adverse effects under the proper incident to banking standard of section 4(c)(8) of the BHC Act.

Based on the above, the Board has determined to approve RBC's application, subject to all of the terms and conditions set forth above and in the above-noted Board orders. 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

<sup>1.</sup> Data are as of October 31, 1990.

<sup>2.</sup> See Canadian Imperial Bank of Commerce, The Royal Bank of Canada, Barclays PLC, 76 Federal Reserve Bulletin 158 (1990) ("Canadian Imperial").

<sup>3.</sup> See J.P. Morgan and Company, Inc., 76 Federal Reserve Bulletin 26 (1990) ("J.P. Morgan"); Bankers Trust New York Corporation, 75 Federal Reserve Bulletin 829 (1989) ("Bankers Trust").

<sup>4.</sup> In the Canadian Imperial order, in which the Board considered and approved applications by foreign banks to engage in underwriting and dealing in all types of debt and equity securities, the Board modified the prudential framework imposed in J.P. Morgan & Co. Incorporated, The Chase Manhattan Corporation, Bankers Trust New York Corporation, and Citicorp, 75 Federal Reserve Bulletin 192 (1989), to account for the fact that the applicants were foreign banks that operate predominately outside the United States. The Board determined in those cases to adjust the funding and certain operational requirements of the framework previously established for those activities in order to take into account principles of national treatment and the Board's policy not to extend U.S. bank supervisory standards extraterritorially. See also The Toronto-Dominion Bank, 76 Federal Reserve Bulletin 573 (1990).

and the Board's regulations and orders issued thereunder.

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

By order of the Board of Governors, effective February 11, 1991.

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

> JENNIFER J. JOHNSON Associate Secretary of the Board

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

HSBC Holdings plc Hong Kong

Order Approving Formation of Bank Holding Company and Acquisition of Nonbank Subsidiaries

HSBC Holdings plc, Hong Kong ("HSBC Holdings"), has applied for the Board's approval under section 3(a)(1) of the Bank Holding Company Act ("BHC Act'') (12 U.S.C. § 1842(a)(1)), to become a bank holding company by acquiring all of the voting shares of The Hongkong and Shanghai Banking Corporation Limited, Hong Kong ("HSBC"), a foreign bank and bank holding company under the BHC Act, and thereby indirectly acquire all of the voting shares of Kellett N.V., Curacao, Netherlands Antilles ("Kellett"), HSBC Holdings B.V., Amsterdam, The Netherlands ("Holdings"), Marine Midland Banks, Inc., Buffalo, New York ("Marine Midland"), all bank holding companies within the meaning of the BHC Act, and Marine Midland Bank, N.A., Buffalo, New York ("Marine Midland Bank").1 HSBC Holdings has also applied for the Board's approval under section 4(c)(8) of the BHC Act (12 U.S.C. § 1843(c)(8)) to acquire indirectly certain nonbanking subsidiaries of HSBC.<sup>2</sup>

Notice of the applications, affording interested persons an opportunity to submit comments, has been duly published (56 *Federal Register* 1397 (1991)). 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.

HSBC, with consolidated assets equivalent to approximately U.S. \$144 billion, is the 27th largest banking organization in the world and the largest banking organization in Hong Kong.<sup>3</sup> HSBC engages in a broad range of banking and financial services throughout the world through an extensive network of offices and subsidiaries. Through Kellett, Holdings, and Marine Midland, HSBC owns all of the shares of Marine Midland Bank, the 30th largest bank in the United States, with total assets of \$20.9 billion and total deposits of \$17.3 billion.<sup>4</sup>

In the United States, in addition to the operations of Marine Midland, HSBC maintains eight branches in New York; a branch in each of Chicago, Seattle, and Portland, Oregon; a limited branch in both San Francisco and Los Angeles; an agency in Houston; and a representative office in Orange County, California. In addition, HSBC owns a majority of the shares of Hang Seng Bank Limited, Hong Kong ("Hang Seng"), which maintains two branches in New York and a limited branch in San Francisco.<sup>5</sup>

HSBC Holdings, incorporated in the United Kingdom, is currently an indirect, wholly owned subsidiary of HSBC, whose principal business is to own and lease property in Thailand in which HSBC's bank premises are currently located. HSBC Holdings proposes to acquire HSBC through an exchange of shares. Immediately after completion of the exchange, HSBC and its subsidiaries will remain in the same organizational structure as before the transaction, except that HSBC Holdings will become the top-tier holding company. The proposed transaction is intended to provide HSBC with the flexibility in the future to reorganize its worldwide operations, including through a transfer of

<sup>1.</sup> HSBC Holdings has also applied for the Board's approval under section 3 of the BHC Act (12 U.S.C. § 1842) to acquire indirectly warrants held by Marine Midland for up to 24.99 percent of the voting shares of Statewide Bancorp, Toms River, New Jersey, a bank holding company that owns and controls The First National Bank of Toms River, Toms River, and The First National Bank of New Jersey/Salem County, Penns Grove, New Jersey.

<sup>2.</sup> A list of the nonbanking subsidiaries that HSBC Holdings has proposed to acquire pursuant to section 4(c)(8) of the BHC Act is set forth in the Appendix.

<sup>3.</sup> Banking data are as of June 30, 1990. Worldwide ranking is as of December 31, 1989.

<sup>4.</sup> Banking data are as of September 30, 1990. U.S. ranking is as of June 30, 1990.

<sup>5.</sup> HSBC and Hang Seng have both designated New York as their home states for purposes of section 5 of the International Banking Act (12 U.S.C. \$ 3103). HSBC Holdings consequently would designate New York as its home state for purposes of section 5 and the Board's Regulation K (12 C.F.R. 211.22). Because the proposal represents only a corporate restructuring and does not involve a merger with or acquisition by another foreign bank, HSBC Holdings's acquisition of HSBC and its subsidiaries will not increase the number of foreign banks with grandfather rights for interstate branches nor the number of grandfathered branches. Accordingly, the Board has determined that HSBC Holdings may succeed to HSBC's grandfathered branches.

Kellett, Holdings, and Marine Midland directly to HSBC Holdings, for strategic, financial and managerial reasons. It is intended to establish a more suitable structure through which to acquire or combine with other financial institutions in markets that are important to the long-term strategic plans of HSBC Holdings and HSBC.

Because it does not engage in any activities other than holding bank premises, HSBC Holdings does not have a banking presence in any market in which HSBC or its subsidiary banks are located. Therefore, consummation of the proposal would not have a substantially adverse effect on competition in any relevant banking market.

Section 3 of the BHC Act requires in every case that the Board consider the financial resources of the applicant organization. Upon consummation of the proposal, HSBC Holdings would have the same Tier 1 and total risk-based capital ratios as HSBC, which are well above the minimum standards adopted by the Basle Supervisors Committee, as implemented by Hong Kong, as well as the Board's minimum standards.6 In light of these considerations and other undertakings reflected in the record, including that HSBC Holdings has committed to maintain Marine Midland Bank among the more strongly capitalized banking organizations of comparable size in the United States, the Board has determined that financial factors are consistent with approval of the applications.

The board of directors of HSBC will also serve as the board of directors of HSBC Holdings. Consequently, considerations relating to managerial resources and future prospects are consistent with approval. The Board has also determined that considerations relating to the convenience and needs of the community to be served are consistent with approval.

HSBC Holdings has applied, pursuant to section 4(c)(8) of the BHC Act, to acquire indirectly certain nonbanking subsidiaries of HSBC. The Board has determined by regulation or order that each of these activities is permissible for bank holding companies under section 4(c)(8) of the BHC Act, and HSBC Holdings proposes to conduct these activities in accordance with the Board's regulations and orders, including all conditions and commitments made by HSBC and its subsidiaries and relied on by the Board in approving those applications. Because HSBC Holdings does not currently conduct these activities in any market in which HSBC operates and the proposal is

6. Financial data are as of June 30, 1990 and ratios were calculated under the guidelines for 1992 as set forth in the Board's Capital Adequacy Guidelines, 12 C.F.R. 225.25, App. A.

essentially a corporate reorganization, the Board concludes that consummation of this proposal would not have any significantly adverse effect on competition in the provision of these services in any relevant market.

Furthermore, there is no evidence in the record to indicate that consummation of this proposal will result in undue concentration of resources, decreased or unfair competition, conflicts of interests, unsound banking practices, or any other significantly adverse effects. Accordingly, the Board has determined that the balance of public interest factors it must consider under section 4(c)(8) of the BHC Act is favorable and consistent with approval of HSBC Holding's application to acquire the nonbanking subsidiaries of HSBC. HSBC Holdings will also acquire indirectly subsidiaries of HSBC and Marine Midland that operate under section 25 of the Federal Reserve Act (12 U.S.C. § 601 et seq.), and section 4(c)(14) of the BHC Act (12 U.S.C. § 1843(c)(14)), as well as other permissible investments held pursuant to the Board's Regulation K. Considerations relating to these subsidiaries and investments are also consistent with approval.

Based on the foregoing and other facts of record, including all of the commitments made by HSBC Holdings, the Board has determined that consummation of the proposed transaction would be consistent with the public interest. Accordingly, the Board has determined that the applications under sections 3 and 4 of the BHC Act should be, and hereby are, approved. The determinations as to the nonbanking activities approved in this case are subject to all of the conditions contained in Regulation Y, including those in sections 225.4(c) and 225.23(b)(3) (12 C.F.R. 225.4(d) and 225.23(b)(3), and to the Board's authority to require such modification or termination of the activities of a holding company or any of its subsidiaries as the Board finds necessary to assure compliance with, or to prevent evasion of, the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder. The 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 New York, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 21, 1991.

JENNIFER J. JOHNSON Associate Secretary of the Board

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

### Appendix

#### Nonbanking Subsidiaries to be Acquired

American Interest Arbitrage Corporation, New York, New York, which engages in buying and selling fixed income securities for affiliates; Carroll McEntee & McGinley Incorporated, New York, New York, which engages in dealing in government obligations; CM&M Asset Management Company, Inc., New York, New York, which engages in providing financial advice or management services; CM&M Futures, Inc., New York, New York, which engages in providing securities brokerage services and acting as a futures commission merchant; Concord Asset Management, Inc., New York, New York, which engages in providing commercial finance and leasing services; Concord Commercial Corporation, Woodcliff Lake, New Jersey, which engages in providing commercial finance and leasing services; Concord Leasing Inc., Norwalk, Connecticut, which engages in providing commercial finance and leasing services; Delaware Credit Corp. (USA), Buffalo, New York, which engages in providing commercial mortgage banking and other financing services; Intermarket Securities Corporation, New York, New York, which engages in trading in money market instruments; Investors Arbitrage Corporation, New York, New York, which engages in providing investment or financial advice; James Capel Incorporated, New York, New York, which engages in financial and investment advisory services, securities brokerage, and futures commission merchant activities; a 4.69 percent shareholding in Liberty Brokerage Inc., New York, New York, which engages in providing brokerage services for dealers in government securities; Marine Midland Business Loans, Inc., Buffalo, New York, which engages in providing asset-based financing services; Marine Midland Capital Markets Corporation, New York, New York, which engages in providing securities brokerage and underwriting services; Marine Midland Leasing Corporation, Buffalo, New York, which engages in providing equipment leasing services; Marine Midland Mortgage (U.S.A.), Inc., Buffalo, New York, which engages in providing residential first mortgage loans; Marine Midland Payment Services Inc., Buffalo, New York, which engages in providing the issuance of payment instruments; Marine Midland Services Corporation, Buffalo, New York, which engages in providing commercial lending and equipment leasing; Marinvest Inc., New York, New York, which engages in providing investment advisory services; Marmid Life Insurance Company, Tempe, Arizona, which engages in providing credit life and credit accident and health insurance as a reinsurer; an 11.12 percent shareholding in New

York Switch Corporation, Hackensack, New Jersey, which engages in providing data processing and related activities; TKM Mid-Americas Inc., Miami, Florida, which engages in providing trade finance services; U.S. Concord Inc., Norwalk, Connecticut, which engages in providing commercial finance and leasing services; and Wardley Incorporated, New York, New York, which engages in financial and investment advisory services, securities brokerage, and futures commission merchant activities. The Board has determined that these activities are closely related to banking and permissible for bank holding companies. 12 C.F.R. 225.25(b)(1),(4),(5),(7),(8),(12), (15),(16),(18),(19) and the Board's Orders dated March 16, 1979; April 27, 1981; October 21, 1982; August 15, 1983; May 5, 1984; December 11, 1984; March 5, 1986; November 21, 1986; March 4, 1987; July 14, 1987; August 17, 1987; January 24, 1989; and July 11, 1990.

#### Orders Issued Under Bank Merger Act

Fleet Bank of Maine Portland, Maine

#### Order Approving the Merger of Banks

Fleet Bank of Maine, Portland, Maine, has applied for the Board's approval under the Bank Merger Act (12 U.S.C. § 1828) to merge with Maine Savings Bank, Portland, Maine ("Bank"), and thereby to establish branches pursuant to section 9 of the Federal Reserve Act (12 U.S.C. § 321).

Public notice of the applications before the Board is not required by the Act, and in view of the emergency situation, the Board has not followed its normal practice of affording interested parties the opportunity to submit comments and views. In view of the emergency situation involving Bank, the Maine Superintendent for the Bureau of Banking has recommended immediate action by the Board to prevent the probable failure of Bank.

In connection with the applications, the Secretary of the Board has taken into consideration the competitive effects of the proposed transaction, the financial and managerial resources and future prospects of the banks concerned, and the convenience and needs of the communities to be served. On the basis of the information before the Board, the Secretary of the Board finds that an emergency situation exists so as to require that the Secretary of the Board act immediately pursuant to the provisions of section 18(c)(3) of the Federal Deposit Insurance Act (12 U.S.C. § 1828(c)(3)) in order to safeguard depositors of Bank. Having considered the record of these applications in light of the factors contained in the Bank Merger Act and the Federal Reserve Act, the Secretary of the Board has determined that consummation of the transaction would be in the public interest and that the applications should be approved on a basis that would not preclude immediate consummation of the proposal. On the basis of these considerations, the applications are approved.

The transaction may be consummated immediately but in no event 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 Boston acting pursuant to delegated authority.

By order of the Secretary of the Board acting pursuant to delegated authority for the Board of Governors, effective February 1, 1991.

> WILLIAM W. WILES Secretary of the Board

# ORDERS ISSUED UNDER THE FINANCIAL INSTITUTIONS REFORM, RECOVERY, AND ENFORCEMENT ACT ("FIRREA ORDERS")

Recent orders have been issued by the Staff Director of the Division of Banking Supervision and Regulation and the General Counsel 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.

Bank Holding Company	Acquired Thrift	Surviving Bank(s)	Approval Date	
American Interstate Bancorporation, Inc., Walnut, Iowa	American Federal Savings Association of Iowa, Des Moines, Iowa (Atlantic, Iowa Branch)	Walnut State Bank, Walnut, Iowa	February 11, 1991	
Ankeny Investment Co., Ankeny, Iowa	American Federal Savings Association of Iowa, Des Moines, Iowa (Ankeny, Iowa Branch)	Ankeny State Bank, Ankeny, Iowa	February 11, 1991	
BancSecurity Corporation, Marshalltown, Iowa	American Federal Savings Association of Iowa, Des Moines, Iowa (Newton, Iowa Branch)	Security Bank Kellogg-Sully, Kellogg, Iowa	February 11, 1991	
BancSecurity Corporation, Marshalltown, Iowa	American Federal Savings Association of Iowa, Des Moines, Iowa (Ames, Iowa Branch)	Story County Bank and Trust, Story City, Iowa	February 11, 1991	
BankAmerica Corporation, San Francisco, California	Pima Federal Savings and Loan Association, Tucson, Arizona	Bank of America Arizona, Phoenix, Arizona	February 15, 1991	
Brenton Banks, Inc., Des Moines, Iowa	American Federal Savings Association, of Iowa, Des Moines, Iowa (Perry, Iowa Branch)	Brenton National Bank of Perry, Perry, Iowa	February 11, 1991	
Community Grain Company, Coon Rapids, Iowa	American Federal Savings Association, of Iowa, Des Moines, Iowa (Carroll, Iowa Branch)	Iowa Savings Bank, Coon Rapids, Iowa	February 11, 1991	

# FIRREA Orders-Continued

Bank Holding Company	Acquired Thrift	Surviving Bank(s)	Approval Date	
First Bancorp of Kansas, Wichita, Kansas	Mid Kansas Savings and Loan Association, F.A., Wichita, Kansas (Wichita, Kansas Branches)	First National Bank in Wichita, Wichita, Kansas	February 15, 1991	
First Liberty Bancorp, West Des Moines, Iowa	American Federal Savings Association, of Iowa, Des Moines, Iowa (Clear Lake, Iowa Branch)	Liberty Bank and Trust, Mason City, Iowa	February 11, 1991	
Fourth Financial Corporation, Wichita, Kansas	Mid Kansas Savings and Loan Association, F.A., Wichita, Kansas	BANK IV Wichita, Wichita, Kansas BANK IV Garden City, N.A., Garden City, Kansas	February 15, 1991	
HNB Corporation, Arkansas City, Kansas	Mid Kansas Savings and Loan Association, F.A., Wichita, Kansas (Arkansas City, Kansas Branch)	The Home National Bank of Arkansas City, Arkansas City, Kansas	February 15, 1991	
da Grove Bancshares, Inc., Ida Grove, Iowa	American Federal Savings Association of Iowa, Des Moines, Iowa (Denison, Iowa Branch)	Ida County State Bank, Ida Grove, Iowa	February 11, 1991	
Metro Bancorporation, Waterloo, Iowa	American Federal Savings Association of Iowa, Des Moines, Iowa (Cedar Falls, Iowa Branch)	Waterloo Savings Bank, Waterloo, Iowa	February 11, 1991	
National City Corporation, Cleveland, Ohio	Gem Savings Association, Dayton, Ohio	First National Bank, Dayton, Ohio	February 25, 1991	
Northwood Financial Services Corporation, Northwood, Iowa	American Federal Savings Association of Iowa, Des Moines, Iowa (Mason City, Iowa Branch)	Northwood State Bank, Northwood, Iowa	February 11, 1991	
South Carolina National Corporation, Columbia, South Carolina	Security Federal Savings, F.S.B., Columbia, South Carolina	The South Carolina National Bank, Charleston, South Carolina	February 15, 1991	
Jnion Bancshares, Inc., Wichita, Kansas	Mid Kansas Savings and Loan Association, F.A., Wichita, Kansas (Derby, Kansas Branch)	Union National Bank of Wichita, Wichita, Kansas	February 15, 1991	

Bank Holding Company	Acquired	Surviving	Approval
	Thrift	Bank(s)	Date
Valley Financial Services, Inc., Mishawaka, Indiana	Northern Indiana Savings Association, F.A., Chesterton, Indiana	Valley American Bank & Trust Company, Mishawaka, Indiana	February 15, 1991

## 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	
BankAmerica Corporation, San Francisco, California	Bank of America New Mexico, N.A., Albuquerque, New Mexico	February 25, 1991	
Section 4			
Applicant(s)	Bank(s)	Effective Date	

BankAmerica Corporation,	BAP Interim Federal Savings Bank,	February 15, 1991
San Francisco, California	Tucson, Arizona	
South Carolina National Corporation,	SCNC Interim Federal Savings	February 15, 1991
Columbia, South Carolina	Bank II,	
	Columbia, South Carolina	

#### APPLICATIONS APPROVED UNDER BANK MERGER 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.

Applicant(s)	Bank(s)	Effective Date
Fleet Bank of Maine, Portland, Maine	Maine Savings Bank, Portland, Maine	February 4, 1991

# 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	
Anchor Bancorp, Inc., Wayzata, Minnesota	Heritage National Bank, North St. Paul, Minnesota	Minneapolis	February 8, 1991	
Bethany Bankshares, Inc., Bethany, Missouri	The Bethany Trust Company, Bethany, Missouri	Kansas City	February 15, 1991	
Breckenridge Bancshares Company, St. Ann, Missouri	The Centennial Bank, St. Ann, Missouri	St. Louis	January 30, 1991	
Button Gwinnett Bancorp, Inc., Norcross, Georgia	Button Gwinnett Savings Bank, FSB, Norcross, Georgia	Atlanta	February 11, 1991	
Caledonia Financial Corporation, Caledonia, Michigan	State Bank of Caledonia, Caledonia, Michigan	Chicago	February 20, 1991	
Cedar Creek Bancshares, Inc., Seven Points, Texas	Cedar Creek Bank, Seven Points, Texas	Dallas	February 13, 1991	
Central of Kansas, Inc., Junction City, Kansas	Herington Bancshares, Inc., Herington, Kansas	Kansas City	February 20, 1991	
First National Bancorp of Columbia, Inc., Columbia, Kentucky	The First National Bank of Columbia, Columbia, Kentucky	St. Louis	January 30, 1991	
First of Fort Morgan, Inc., Fort Morgan, Colorado	Heartland Community Bancshares, Inc., Fort Morgan, Colorado First Community Bancshares, Inc., Fort Morgan, Colorado	Kansas City	February 20, 1991	
First State Bancorp of Monticello, Inc., Monticello, Illinois	The Atwood State Bank, Atwood, Illinois	Chicago	February 6, 1991	
Ford Bank Group Holdings, Inc., Wilmington, Delaware	MBank Waco, N.A., Waco, Texas	Dallas	February 11, 1991	
Ford Bank Group, Inc., Lubbock, Texas	MBank Waco, N.A., Waco, Texas	Dallas	February 11, 1991	
Illiopolis Bancorporation, Incorporated, Springfield, Illinois	Farmers State Bank and Trust, Illiopolis, Illinois	Chicago	February 15, 1991	
Landmark Bancshares, Inc., Euless, Texas	Landmark Bank-Mid Cities, Euless, Texas	Dallas	January 30, 1991	

# Section 3-Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date	
Liberty Bancorporation, Durant, Iowa	Bennett Bancshares, Inc., Bennett, Iowa	Chicago	February 1, 1991	
Meader Insurance Agency, Waverly, Kansas	Coffey County BankShares, Inc., Burlington, Kansas	Kansas City	February 1, 1991	
Mercantile Bancorp, Inc., Quincy, Illinois	Marine Trust Company of Carthage, Carthage, Illinois	St. Louis	February 15, 1991	
Mid-America National Bancorp, Inc., Chicago, Illinois	Mid-America National Bank of Chicago, Chicago, Illinois Security Chicago Corp., Chicago, Illinois	Chicago	February 14, 1991	
North Park Bancshares, Inc., Walden, Colorado	North Park State Bank, Walden, Colorado	Kansas City	January 30, 1991	
Park Cities Corporation, Wilmington, Delaware	First National Bank of Park Cities, Dallas, Texas	Dallas	February 6, 1991	
Park Cities Bancshares, Inc., Dallas, Texas	Park Cities Corporation, Wilmington, Delaware First National Bank of Park Cities, Dallas, Texas	Dallas	February 6, 1991	
Pilot Grove Savings Bank Employee Stock Ownership Plan, Pilot Grove, Iowa	Pilot Bancorp, Inc., Pilot Grove, Iowa	Chicago	January 30, 1991	
Pinnacle Banc Group, Inc., Oak Brook, Illinois	The Henry County Bank, Green Rock, Illinois	Chicago	February 20, 1991	
Southwestern Wisconsin Bancshares, Inc., Highland, Wisconsin	Highland State Bank, Highland, Wisconsin	Chicago	January 25, 1991	
IFBC Acquisition Corporation, Tahoka, Texas	Tahoka First Bancorp, Inc., Dallas, Texas Cedar Creek Bank, Seven Points, Texas First National Bank of Tahoka, Tahoka, Texas	Dallas	February 13, 1991	
Worthington Bancorporation, Farley, Iowa	State Bank of Worthington, Worthington, Iowa	Chicago	February 7, 1991	

# Section 4

Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date	
Ist Source Corporation,Mortgage AcquisitionSouth Bend, IndianaCompany,South Bend, IndianaSouth Bend, Indiana		Chicago	February 1, 1991	
The Dai-Ichi Kangyo Bank, Limited, Tokyo, Japan	First Fidelity Bancorporation, Newark, New Jersey	San Francisco	January 30, 1991	
First Bank System, Inc., Minneapolis, Minnesota	Fairmont Lakes Insurance Agency, Fairmont, Minnesota	Minneapolis	February 19, 1991	
The Kyowa Bank, Limited, Tokyo, Japan	Saitama Bank Trust Company of New York, New York, New York	San Francisco	February 8, 1991	
Lincolnland Bancorp, Inc., Dale, Indiana	Ayer-Wagoner Insurance Agency, Inc., Rockport, Indiana Deal Insurance Agency, Inc., Rockport, Indiana	St. Louis	January 30, 1991	
Marshall & Ilsley Corporation, Milwaukee, Wisconsin	Provident Bank of Maryland, Baltimore, Maryland	Chicago	February 5, 1991	
Norwest Corporation, Minneapolis, Minnesota Norwest Financial Services, Inc., Des Moines, Iowa Norwest Financial, Inc., Des Moines, Iowa	Coast Program, Inc., Signal Hill, California ABQ Federal Savings Bank, Albuquerque, New Mexico	Minneapolis	February 13, 1991	
Skandinaviska Enskilda Banken, Stockholm, Sweden	Scandinavian Bank Group plc, London, England	New York	February 1, 1991	
South Carolina National Corporation, Columbia, South Carolina	Old Republic Bancorp, Inc., Rocky Mount, North Carolina Old Republic Savings Bank, Inc., Rocky Mount, North Carolina	Richmond	January 31, 1991	
Valley Financial Services, Inc., Mishawaka, Indiana	Northern Indiana Savings Association, F.A., Chesterton, Indiana	Chicago	February 15, 1991	

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.

- Fields v. Board of Governors, No. 3:91CV069 (N.D. Ohio, filed February 5, 1991). Appeal of denial of request for information under the Freedom of Information Act.
- State of Illinois v. Board of Governors, No. 90-3824 (7th Circuit, appeal filed December 19, 1990). Appeal of injunction restraining the Board from providing state examination materials in response to a Congressional subpoena. On November 30, 1990, the U.S. District Court for the Northern District of Illinois issued a preliminary injunction preventing the Board and the Chicago Reserve Bank from providing documents relating to the state examination in response to the subpoena. The House Committee on Banking, Finance and Urban Affairs has appealed the injunction.
- Citicorp v. Board of Governors, No. 90-4124 (2d Circuit, filed October 4, 1990). Petition for review of Board order requiring Citicorp to terminate certain insurance activities conducted pursuant to Delaware law by an indirect nonbank subsidiary. The Delaware Bankers Association and the State of Delaware have intervened on behalf of petitioners, and insurance trade associations have intervened on behalf of the Board in the action. Oral argument was heard on February 7, 1991.
- Stanley v. Board of Governors, No. 90–3183 (7th Circuit, filed October 3, 1990). Petition for review of Board order imposing civil money penalties on five former bank holding company directors.
- Sibille v. Federal Reserve Bank of New York and Board of Governors, No. 90-CIV-5898 (S.D. New York, filed September 12, 1990). Appeal of denial of Freedom of Information Act request.
- Kuhns v. Board of Governors, No. 90-1398 (D.C. Cir., filed July 30, 1990). Petition for review of Board order denying request for attorney's fees pursuant to Equal Access to Justice Act. Oral argument was heard on February 15, 1991.
- May v. Board of Governors, No. 90-1316 (D.C. Cir., filed July 27, 1990). Appeal of District Court order dismissing plaintiff's action under Freedom of Information and Privacy Acts. Board's motion for summary affirmance filed October 12, 1990.
- Burke v. Board of Governors, No. 90-9509 (10th Circuit, filed February 27, 1990). Petition for review of Board orders assessing civil money penalties and

issuing orders of prohibition. Awaiting scheduling of oral argument.

- BancTEXAS Group, Inc. v. Board of Governors, No. CA 3-90-0236-R (N.D. Texas, filed February 2, 1990). Suit for preliminary injunction enjoining the Board from enforcing a temporary order to cease and desist requiring injection of capital into plaintiff's subsidiary banks under the Board's source of strength doctrine. District court granted preliminary injunction on June 5, 1990, in light of *MCorp v.* Board of Governors, 900 F.2d 852 (5th Cir. 1990). On December 21, 1990, the action was dismissed by agreement of the parties.
- Rutledge v. Board of Governors, No. 90-7599 (11th Cir., filed August 21, 1990). Appeal of district court grant of summary judgment for defendants in tort suit challenging Board and Reserve Bank supervisory actions. The Court of Appeals summarily affirmed the lower court on January 17, 1991.
- Kaimowitz v. Board of Governors, No. 90–3067 (11th Cir., filed January 23, 1990). Petition for review of Board order dated December 22, 1989, approving application by First Union Corporation to acquire Florida National Banks. Petitioner objects to approval on Community Reinvestment Act grounds.
- Babcock and Brown Holdings, Inc. v. Board of Governors, No. 89–70518 (9th Cir., filed November 22, 1989). Petition for review of Board determination that a company would control a proposed insured bank for purposes of the Bank Holding Company Act. Awaiting scheduling of oral argument.
- Consumers Union of U.S., Inc. v. Board of Governors, No. 90-5186 (D.C. Cir., filed June 29, 1990). Appeal of District Court decision upholding amendments to Regulation Z implementing the Home Equity Loan Consumer Protection Act. Oral argument was heard on February 20, 1991.
- Synovus Financial Corp. v. Board of Governors, No. 89–1394 (D.C. Cir., filed June 21, 1989). Petition for review of Board order permitting relocation of a bank holding company's national bank subsidiary from Alabama to Georgia. Oral argument was held on October 11, 1990. On December 10, the Justice Department filed a brief on behalf of the Board and the Office of the Comptroller of the Currency in response to a request from the court regarding an issue in the case.
- MCorp v. Board of Governors, No. 89–2816 (5th Cir., filed May 2, 1989). Appeal of preliminary injunction against the Board enjoining pending and future enforcement actions against a bank holding company now in bankruptcy. On May 15, 1990, the Fifth Circuit vacated the district court's order enjoining the Board from proceeding with enforcement actions based on section 23A of the Federal Reserve

Act, but upheld the district court's order enjoining such actions based on the Board's source-ofstrength doctrine. 900 F.2d 852 (5th Cir. 1990). On December 10, both parties filed petitions for *certiorari* in the Supreme Court, Nos. 90–913, 90–914. The petitions are pending.

- MCorp v. Board of Governors, No. CA3-88-2693 (N.D. Tex., filed October 10, 1988). Application for injunction to set aside temporary cease and desist orders. Stayed pending outcome of MCorp v. Board of Governors, 900 F.2d 852 (5th Cir. 1990).
- White v. Board of Governors, No. CU-S-88-623-RDF (D. Nev., filed July 29, 1988). Age discrimination complaint. Board's motion to dismiss or for summary judgment was denied on January 3, 1991. Awaiting trial date.

FINAL ENFORCEMENT ORDERS ISSUED BY THE BOARD OF GOVERNORS

Michael J. Bonk River Rouge, Michigan

The Federal Reserve Board announced on February 13, 1991, the issuance of an Order of Prohibition against Michael J. Bonk, a former director of River Rouge Savings Bank, River Rouge, Michigan.

Credit and Commerce American Holdings, N.V.

Netherlands Antilles

The Federal Reserve Board announced on February 20, 1991, the issuance of an Order against Credit and Commerce American Holdings, N.V., Netherlands Antilles, the parent holding company of First American Bankshares, Inc., Washington, D.C.

Sun City Bank Sun City, Arizona

The Federal Reserve Board announced on February 15, 1991, the issuance of a Cease and Desist Order against the Sun City Bank, Sun City, Arizona.

WRITTEN AGREEMENTS APPROVED BY FEDERAL Reserve Banks

The Buffalo Bank Eleanor, West Virginia

The Federal Reserve Board announced on February 13, 1991, the execution of a Written Agreement between the Federal Reserve Bank of Richmond, the Commissioner of Banking, State of West Virginia, and The Buffalo Bank, Eleanor, West Virginia.

Cosmopolitan Bancorp, Inc. Chicago, Illinois

The Federal Reserve Board announced on February 13, 1991, the execution of a Written Agreement between the Federal Reserve Bank of Chicago and Cosmopolitan Bancorp, Inc., Chicago, Illinois.

Equimark Corporation Pittsburgh, Pennsylvania

The Federal Reserve Board announced on February 13, 1991, the execution of a Written Agreement between the Federal Reserve Bank of Cleveland, the Department of Banking, Commonwealth of Pennsylvania, and Equimark Corporation, Pittsburgh, Pennsylvania.

First Lehigh Corporation Walnutport, Pennsylvania

The Federal Reserve Board announced on February 13, 1991, the execution of a Written Agreement between the Federal Reserve Bank of Philadelphia, the Department of Banking, Commonwealth of Pennsylvania, and First Lehigh Corporation, Walnutport, Pennsylvania.

# Membership of the Board of Governors of the Federal Reserve System, 1913–91

**APPOINTIVE MEMBERS1** 

Charles S. HamlinBostonAug. 10, 1914Reappointed in 1916 and 1926. Served until Federic A. DelanoChicagoPaul M. WarburgNew Yorkdo.Term expired Aug. 9, 1918. Term expired Aug. 9, 1918. Term expired Aug. 9, 1920.Resigned July 21, 1918. Term expired Aug. 9, 1920. Resigned Mar. 15, 1920.Adloph C. MillerSan Franciscodo.Resigned Mar. 15, 1920. Term expired Aug. 9, 1920.Albert StraussNew YorkOct. 26, 1918Resigned Mar. 15, 1920. Term expired Aug. 9, 1920.Albert StraussNew YorkJune 8, 1920Edmund PlattNew YorkMay 12, 1921Iohn K. MitchellMinneapolisMay 12, 1921Bedmard H. CuninghamChicago.May 1, 1923Bedward H. CunninghamChicago.May 1, 1923Bedward H. CunninghamChicago.May 1, 1923Cay A. YoungMinneapolisOct. 4, 1927Eugene R. BlackAtlantaMay 19, 1933K. S. SymczakChicago.June 14, 1933K. S. SymczakChicago.June 14, 1933K. S. SymczakChicago.June 14, 1933Kalph W. MorrisonAtlantadoRalph W. MorrisonAtlantadoRalph W. MorrisonMaintagaGeorge N. June 25, 1936Rudolph M. EvansRichmond.Mar. 14, 1942Rudolph M. EvansRichmond.Mar. 14, 1942Rudolph M. EvansRichmond.Mar. 14, 1942Resigned July 14, 1951.Resigned July 14, 1951.Resigned July 14, 1951.Resigned July 14, 1951.	Name	Federal Reserve Date of initial District oath of office	Other dates and information relating to membership <sup>2</sup>
Paul M. Warburg       New York       do       Term expired Aug. 9, 1918.         Frederic A. Delano       Chicago       do       Resigned July 21, 1918.         Adolph C. Miller       San Francisco       do       Resigned July 21, 1918.         Aldorph C. Miller       San Francisco       do       Resigned July 21, 1918.         Aldorph C. Miller       San Francisco       do       Resigned Mar. 15, 1920.         Albert Strauss       New York       June 8, 1920       Resigned Mar. 15, 1920.         David C. Wills       Cleveland       Sept. 29, 1920       Reappointed in 1928. Resigned         David C. Wills       Cleveland       May 1, 1923       Resigned Mar. 12, 1923.         George R. James       St. Louis       May 1, 1923       Resigned Mar. 12, 1923.         George R. James       St. Louis       May 1, 1923       Resigned Sept. 15, 1927.         George R. James       St. Louis       May 19, 1933       Resigned Aug. 31, 1930.         Kuyahad W. Magee       Kansas City       do       May 19, 1933       Resigned July 21, 1914.         Mariner S. Eccles       San Francisco       Nov. 15, 1934       Resigned July 21, 1934.       Resigned July 21, 1934.         J. J. Thomas       Kansas City       do       Resigned July 21, 1936. <sup>3</sup> Resigned July	Charles S. Hamlin	BostonAug. 10, 1914	
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George W. MitchellChicagoAug. 31, 1961 Reappointed in 1962. Served until Feb. 13, 1976 3	0	,	Sept. 18, 1963.
	George W. Mitchell	ChicagoAug. 31, 1961	Reappointed in 1962. Served until
I. Dewey Daane	J. Dewey Daane	RichmondNov. 29, 1963	

Name	Federal Reserve District	Date of initial oath of office	Other dates and information relating to membership <sup>2</sup>
Sherman J. Maisel	San Francisco	.Apr. 30, 1965	Served through May 31, 1972.
Andrew F. Brimmer	Philadelphia	Mar. 9, 1966	Resigned Aug. 31, 1974.
William W. Sherrill	Dallas	.May 1, 1967	Reappointed in 1968. Resigned Nov. 15, 1971.
Arthur F. Burns	New York	.Jan. 1, 1970	Term began Feb. 1, 1970. Resigned Mar. 31, 1978.
John E. Sheehan	St. Louis	Jan. 4, 1972	Resigned June 1, 1975.
Jeffrey M. Bucher	San Francisco	June 5, 1972	Resigned Jan. 2, 1976.
Robert C. Holland	Kansas City	June 11, 1973	Resigned May 15, 1976.
Henry C. Wallich	Boston	.Mar. 8, 1974	Resigned Dec. 15, 1986.
Philip E. Coldwell	Dallas	.Oct. 29, 1974	Served through Feb. 29, 1980.
Philip C. Jackson, Jr	Atlanta	July 14, 1975	Resigned Nov. 17, 1978.
J. Charles Partee			Served until Feb. 7, 1986. <sup>3</sup>
Stephen S. Gardner	Philadelphia	.Feb. 13, 1976	Died Nov. 19, 1978.
David M. Lilly	Minneapolis	June 1, 1976	Resigned Feb. 24, 1978.
G. William Miller	San Francisco	.Mar. 8, 1978	Resigned Aug. 6, 1979.
Nancy H. Teeters			Served through June 27, 1984.
Emmett J. Rice			Resigned Dec. 31, 1986.
Frederick H. Schultz			Served through Feb. 11, 1982.
Paul A. Volcker	Philadelphia	.Aug. 6, 1979	Resigned August 11, 1987.
Lyle E. Gramley	Kansas City	.May 28, 1980	Resigned Sept. 1, 1985.
Preston Martin			Resigned April 30, 1986.
Martha R. Seger			Resigned March 11, 1991
Wayne D. Angell			
Manuel H. Johnson			Resigned August 3, 1990.
H. Robert Heller			Resigned July 31, 1989.
Edward W. Kelley, Jr			Reappointed in 1990.
Alan Greenspan	<u>New York</u>	.Aug. 11, 1987	
John P. LaWare	Boston	.Aug. 15, 1988	
David W. Mullins, Jr	St. Louis	.May 21, 1990	
Chairmen⁴		Vin	Chairmen <sup>4</sup>
	Aug 10 1014 Aug		
Charles S. Hamlin W.P.G. Harding	Aug. 10, $1914$ -Aug.	9, 1910 FIEC	leric A. DelanoAug. 10, 1914–Aug. 9, 1916 M. WarburgAug. 10, 1916–Aug. 9, 1918
Daniel R. Crissinger	May 1 1923 Sent 1	5, 1922 fault 5, 1927 Albe	ert StraussOct. 26, 1918–Mar. 15, 1920
Roy A. Young	$O_{ct} A = 1927 Aug 31$	1930 Edm	und PlattJuly 23, 1920–Sept. 14, 1930
Eugene Meyer		10 1933 II	ThomasAug. 21, 1934–Feb. 10, 1936
Eugene R. Black	May 19 1933_Aug	10, 1935 J.J. 15 1934 Ron	ald RansomAug. 6, 1956–Dec. 2, 1947
Marriner S. Eccles			Canby BalderstonMar. 11, 1955–Feb. 28, 1966
Thomas B. McCabe			RobertsonMar. 1, 1966–Apr. 30, 1973
Wm. McC. Martin, Jr			rge W. Mitchell May 1, 1973–Feb. 13, 1976
Arthur F. Burns			hen S. GardnerFeb. 13, 1976–Nov. 19, 1978
G. William Miller			lerick H. SchultzJuly 27, 1979–Feb. 11, 1982
Paul A. Volcker			ton MartinMar. 31, 1982–Mar. 31, 1986
Alan Greenspan			uel H. JohnsonAug. 4, 1986–Aug. 3, 1990
and Groenspull manner		111011	

#### **EX-OFFICIO MEMBERS**<sup>1</sup>

Secretaries of the Treasury
W.G. McAdooDec. 23, 1913-Dec. 15, 1918
Carter GlassDec. 16, 1918–Feb. 1, 1920
David F. HoustonFeb. 2, 1920–Mar. 3, 1921
Andrew W. MellonMar. 4, 1921–Feb. 12, 1932
Ogden L. MillsFeb. 12, 1932–Mar. 4, 1933
William H. WoodinMar. 4, 1933–Dec. 31, 1933
Henry Morgenthau Jr Jan. 1, 1934–Feb. 1, 1936

1. Under the provisions of the original Federal Reserve Act, the Federal Reserve Board was composed of seven members, including five appointive members, the Secretary of the Treasury, who was ex-officio chairman of the Board, and the Comptroller of the Currency. The original term of office was ten years, and the five original appointive members had terms of two, four, six, eight, and ten years respectively. In 1922 the number of appointive members was increased to six, and in 1933 the term of office was increased to twelve years. The Banking Act of 1935, approved Aug. 23, 1935, changed the name of the Federal Reserve Board to the Board of Governors of the Federal Reserve System and provided that the Board should be Federal Reserve System and provided that the Board should be

composed of seven appointive members; that the Secretary of the Treasury and the Comptroller of the Currency should continue to serve as members until Feb. 1, 1936, or until their successors were appointed and had qualified; and that thereafter the terms of members abadd the fourteer upone members. Should be fourteen years and that the designation of Chairman and Vice Chairman of the Board should be for a term of four years.
2. Date after words "Resigned" and "Retired" denotes final day of

Comptrollers of the Currency John Skelton Williams...Feb. 2, 1914–Mar. 2, 1921

Daniel R. Crissinger.....Mar. 17, 1921–Apr. 30, 1923 Henry M. Dawes......May 1, 1923–Dec. 17, 1924 Joseph W. McIntosh....Dec. 20, 1924–Nov. 20, 1928 J.W. Pole.....Nov. 21, 1928-Sept. 20, 1932 J.F.T. O'Connor ......May 11, 1933-Feb. 1, 1936

service

Successor took office on this date.
 Chairman and Vice Chairman were designated Governor and Vice Governor before Aug. 23, 1935.

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

Annual rates of change, seasonally adjusted in percent<sup>1</sup>

	{		90						1991
Monetary and credit aggregates	Q1′	Q2′	Q3 <sup>r</sup>	Q4 <sup>r</sup>	Sept."	Oct.'	Nov."	Dec. <sup>7</sup> 15.3 .9 13.5 7.7 3.1 1.7 .6 2.4 6.5 1.2 -3.8 7.3 3.2 17.3 -4.3 -8.5 -16.7 -13.6 -3.9	Jan.
Reserves of depository institutions <sup>2</sup> 1 Total 2 Required 3 Nonborrowed 4 Monetary base <sup>3</sup>	2.4 2.5 -3.9 8.2	-1.4 9 -1.0 7.4	1.4 1.5 2.0 8.6	1.7 ~.2 4.7 9.0	6.7 6.0 13.0 13.5	-9.4 -8.3 -5.2 7.6	3.1 1.1 6.8 5.4	.9 13.5	2.1 -8.3 -2.1 17.6
Concepts of money, liquid assets, and debt <sup>4</sup> 5 M1	5.2 6.2 2.9 2.8 6.1	4.2 3.9 1.3 .9 6.9	3.7 3.0 1.6 2.3 7.4	3.4 2.2 1.3 2.8 6.4	7.8 4.3 1.5 6.0 6.7	9 1.4 .9 .8 5.0	3.1 .2 .7 2.7 6.9	1.7 .6 2.4	2.3 .9 4.0 n.a. n.a.
Nontransaction components 10 In M2 <sup>5</sup>	6.5 ~9.7	3.8 -9.1	2.7 -3.9	1.8 -2.6	3.2 -10.3	2.2 -1.4	7 2.7		.5 16.8
Time and savings deposits         Commercial banks         2 Savings         31 MMDAs         32 MMDAs         33 MMDAs         34 Small-denomination time?         35 Large-denomination time8.9         36 Savings         37 MMDAs         38 Small-denomination time?         39 MMDAs         30 MMDAs         31 Gavings         32 MMDAs         33 MMDAs         34 Gavings         35 Mall-denomination time?         36 Savings         37 MMDAs         38 Small-denomination time?         39 Large-denomination time?	9.6 10.4 7.8 8 1.7 2.7 -3.2 -23.0	4.1 9.6 12.7 -2.9 2.2 .4 -7.4 -28.7	5.9 8.2 15.5 -2.2 -3.3 -7.7 -11.1 -27.3	5.2 3.5 11.5 -8.5 -7.3 -7.2 -7.9 -26.3	3.7 4.5 9.4 ~14.9 -5.5 .9 -6.0 -21.6	6.7 1.9 18.0 -12.6 -10.6 -11.9 -13.2 -24.7	3.6 2.2 2.9 1.9 5.6 5.5 1.5 29.9	$   \begin{array}{r}     3.2 \\     17.3 \\     -4.3 \\     -8.5 \\     -16.7   \end{array} $	12.6 -1.9 6.8 26.1 -4.0 9 -10.4 -30.7
Money market mutual funds 20 General purpose and broker-dealer 21 Institution-only	18.1 9.1	4.7 14.8	10.0 21.6	11.2 30.4	12.2 23.2	8.8 35.1	4.6 9.0	16.4 51.8	29,7 42.0
Debt components <sup>4</sup> 22 Federal	6.8 6.0	9.7 6.1	14.3 5.3	11.8 4.7	11.1 5.3	6.2 4.6	16.2 4.0	12.9 4.4	ກ.a. n.a.

1. Unless otherwise noted, rates of change are calculated from average

Unless otherwise noted, rates of change are calculated from average amounts outstanding in preceding month or quarter.
 Figures incorporate adjustments for discontinuities associated with regulatory changes in reserve requirements. (See also table 1.20.)
 Seasonally adjusted, break-adjusted monetary base consists of (1) seasonally adjusted, orgenoment 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 to satisfy current reserve requirements.
 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 nonbark 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, redit union share draft accounts, and demand deposits at thrift institutions.
 M2 IM plus 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, money market funds. Excludes individual retirement accounts (IRA) and Key and senter funds. Supervisit and thore deposits (100, and balances in both travable and tar-exempt general purpose and broker-dealer money market funds. Excludes individual retirement accounts (IRA) and Key all balances held by U.S. commercial banks, money market funds igneral purpose and broker-dealer), foreign banks, money market funds and seq ord portery institutions, and commercial banks, money market

banking offices in the United Kingdom and Canada, and balances in both taxable and tax-exempt, institution-only money market mutual funds. Excludes amounts held by depository institutions, the U.S. government, money market funds, and foreign banks and official institutions. Also subtracted is the estimated amount of overnight RPs and Eurodollars held by institution-only money market mutual funds

funds. 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 mutual fund holdings of these assets. 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, con-sumer 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 overnight RPs and Eurodollars, money market fund balances (general purpose and broker-dealer), MMDAs, and savings and small time deposits

deposits.
6. Sum of large time deposits, term RPs, term Eurodollars of U.S. residents, and money market fund balances (institution-only), less a consolidation adjustment that represents the estimated amount of overnight RPs and Eurodollars held by institution-only money market mutual funds.
7. Small-denomination time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All IRA and Kcogh accounts at commercial banks and thrifts are subtracted from small time deposits.
8. Large-denomination time deposits are those issued in amounts of \$100,000 or more, excluding those booked at international banking facilities.
9. Large-denomination time deposits at commercial banks less those held by money market mutual funds, depository institutions, and foreign banks and official institutions.

official institutions.

#### Domestic Financial Statistics 🗆 April 1991 A4

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

Millions of dollars

	Mor	nthly averag daily figures	es of		Weekl	y averages o	of daily figur	es for week	ending	
Factors	19	90	1991	19	90		_	1991		
	Nov.	Dec.	Jan.	Dec. 19	Dec. 26	Jan. 2	Jan. 9	Jan. 16	Jan. 23	Jan. 30
SUPPLYING RESERVE FUNDS 1 Reserve Bank credit	288,202	291,223	284,701	286,446	291,339	298,038	283,275	283,623	280,967	286,334
U.S. government securities <sup>1, 2</sup> Bought outright-system account Held under repurchase agreements Federal agency obligations <sup>4</sup>	238,788 2,405	239,499 3,144	234,665 2,165	239,302 0	238,901 3,587	235,686 10,469	235,246 828	235,214 405	232,843	234,862 3,797
Bought outright     Held under repurchase agreements     Acceptances     Loans to depository institutions <sup>2</sup>	6,343 163 0	6,342 121 0	6,342 223 0	6,342 0 0	6,342 9 0	6,342 450 0	6,342 93 0	6,342 126 0	6,342 0 0	6,342 266 0
7 Adjustment credit	43 163 25 482 39,791 11,060	212 78 23 1,727 40,077 11,058	508 32 29 1,077 39,661 11,058	52 81 22 606 40,041 11,058	754 76 22 1,267 40,381	185 59 23 4,529 40,296	281 23 20 1,020 39,423 11,058	365 23 26 1,600 39,522	1,292 32 30 891 39,539 11,058	213 43 38 768 40,006 11,058
12 Gold stock	10,018 20,321	10,018 20,368	10,018 20,429	10,018 20,368	11,058 10,018 20,378	11,058 10,018 20,404	10,018	11,058 10,018 20,424	10,018	10,018
ABSORBING RESERVE FUNDS 15 Currency in circulation 16 Treasury cash holdings Deposits, other than reserve balances, with Federal Reserve Banks	278,216 552	283,000 552	284,549 572	282,470 553	284,928 553	286,874 556	286,252 567	284,584 567	283,705 576	283,126 578
<ul> <li>17 Treasury</li> <li>18 Foreign</li> <li>19 Service-related balances and</li> </ul>	5,543 250	5,809 251	8,701 252	5,406 234	6,810 236	7,987 319	6,906 257	5,320 242	5,494 254	14,064
adjustments Other Other Federal Reserve liabilities and	1,948 240	2,078 226	3,097 188	2,202 246	1,983 201	2,253 234	2,623 161	4,355 196	2,871 173	2,829 217
capital 22 Reserve balances with Federal Reserve Banks <sup>3</sup>	9,380 33,472	9,170 31,582	8,467 20,379	8,947 27,833	9,093 28,990	8,668 32,628	8,210 19,790	8,377 21,483	8,513 20,893	8,690 18,111
	End	of-month fig	gures			We	dnesday figi	l		L
		90	1991		90			1991		
	Nov.	Dec.	Jan.	Dec. 19	Dec. 26	Jan. 2	Jan. 9	Jan. 16	Jan. 23	Jan. 30
SUPPLYING RESERVE FUNDS										
23 Reserve Bank credit U.S. government securities <sup>1, 2</sup>	291,580	301,882	299,857	288,414	294,198	284,391	279,133	285,489	291,434	285,659
<ul> <li>Bought outright-system account</li> <li>Held under repurchase agreements</li> </ul>	242,633 2,352	235,090 17,013	234,306 14,888	240,854 0	237,937 3,632	238,053 0	231,779 0	235,871 0	238,717 0	234,234 2,359
Federal agency obligations <sup>2</sup> 26 Bought outright 27 Held under repurchase agreements 28 Acceptances	6,342 270 0	6,342 1,341 0	6,342 2,186 0	6,342 0 0	6,342 10 0	6,342 0 0	6,342 0 0	6,342 0 0	6,342 0 0	6,342 866 0
29       Adjustment credit         30       Seasonal credit         31       Extended credit         32       Float         33       Other Federal Reserve assets         34       Gold stock	97 7 26 486 39,367 11,059	112 55 23 2,222 39,685 11,058	89 39 52 531 41,425 11,058	39 79 20 1,071 40,008 11,058	4,880 74 25 694 40,605 11,058	489 38 24 496 38,949 11,058	597 21 22 1,047 39,327 11,058	50 34 28 3,719 39,446 11,059	5,071 40 32 1,536 39,696 11,059	51 41 1,685 40,038 11,058
35 Special drawing rights certificate account 36 Treasury currency outstanding	10,018 20,348	10,018 20,388	10,018 20,454	10,018 20,368	10,018 20,378	10,018 20,404	10,018 20,414	10,018 20,424	10,018 20,434	10,018 20,444
ABSORBING RESERVE FUNDS		296.040	283,004	283,471	286,167	287,385	285,533 569	284,091	283,890	282,780 590
37 Currency in circulation	279,507 552	286,949 561	590	554	553	566	505	576	576	390
37 Currency in circulation	552 5,495 264	561 8,960 369	590 27,810 271	554 6,656 246	553 11,375 180	10,495 203	5,577 197	5,099 213	11,079 188	16,884 225
37 Currency in circulation         38 Treasury cash holdings         Deposits, other than reserve balances, with         Federal Reserve Banks         39 Treasury         40 Foreign	552 5,495	561 8,960	590 27,810	554 6,656	553 11,375	10,495		5,099	11,079	

1. 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. 2. Beginning with the May 1990 Bulletin, this table has been revised to correspond with the H.4.1 statistical release.

Excludes required clearing balances and adjustments to compensate for float.
 NOTE. For amounts of currency and coin held as reserves, see table 1.12. Components may not add to totals because of rounding.

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

#### Millions of dollars

	Monthly averages <sup>9</sup>									
Reserve classification	1988	1988 1989 1990 1990								1991
	Dec.	Dec.	Dec."	Juły	Aug.	Sept.	Oct.	Nov.	Dec.'	Jan
1 Reserve balances with Reserve Banks <sup>2</sup> 2 Total vault cash <sup>3</sup> 3 Applied vault cash <sup>4</sup> 4 Surplus vault cash <sup>4</sup> 5 Total reserves <sup>6</sup> 6 Required reserves         7 Excess reserve balances at Reserve Banks <sup>7</sup> 8 Total borrowings at Reserve Banks         9 Seasonal borrowings at Reserve Banks         10 Extended credit at Reserve Banks <sup>4</sup>	37,837 28,204 25,909 2,295 63,746 62,699 1,047 1,716 130 1,244	35,436 29,822' 27,374 2,448' 62,810 61,888 922 265 84 20	30,237 31,777 28,884 2,893 59,120 57,456 1,665 326 76 23	32,946 30,459 27,996 2,462 60,943 60,081 862 757 389 280	32,448 30,842' 28,280 2,562' 60,728 59,860 868 927 430 127	33,303 30,625' 28,149 2,476' 61,452 60,544 909 624 418 6	32,127 31,515 28,925 2,590 61,052 60,206 847 410 335 18	33,382 31,086' 28,663 2,423' 62,045 61,099 947 230 162 24	30,237 31,777 28,884 2,893 59,120 57,456 1,665 326 76 23	22,031 33,219 28,970 4,249 51,001 48,825 2,176 534 33 27
			Biv	veekly aver	ages of dail	y figures for	weeks end	ling		

			1991									
	Oct. 3	Oct. 17	Oct. 31	Nov. 14	Nov. 28	Dec. 12	Dec. 26	Jan. 9'	Jan. 23	Feb. 6		
11 Reserve balances with Reserve Banks <sup>2</sup> 12 Total vault cash <sup>4</sup> 13 Applied vault cash <sup>4</sup> 14 Surplus vault cash <sup>4</sup> 15 Total reserves <sup>6</sup> 16 Required reserves         17 Excess reserve balances at Reserve Banks <sup>7</sup> 18 Total borrowings at Reserve Banks         19 Seasonal borrowings at Reserve Banks         20 Extended credit at Reserve Banks	32,389 31,227' 28,565 2,662' 60,954 59,832 1,122 516 424 9	32,833 31,674'' 29,171 2,503' 62,004 61,021 984 401 345 13	31,365 31,418' 28,756 2,662' 60,121 59,471 650 397 307 26	33,821 30,656 <sup>r</sup> 28,293 2,363 <sup>r</sup> 62,114 61,132 982 282 195 25	32,848 31,631 <sup>r</sup> 29,125 2,506 <sup>r</sup> 61,972 61,006 966 193 140 25	34,046 30,293 28,027 2,266 62,073 61,513 561 130 87 25	28,413 32,690' 29,621 3,069' 58,034 56,113 1,922 504 79 22	26,198 32,783 28,876 3,908 55,074 51,481 3,592 295 41 22	21,193 32,049 28,222 3,828 49,415 48,478 937 884 28 28 28	18,810 35,758 30,387 5,371 49,197 46,446 2,751 191 35 30		

These data also appear in the Board's H.3 (502) release. For address, see inside front cover.
 Excludes required clearing balances and adjustments to compensate for float and includes other off-balance sheet "as-of" adjustments.
 Total "lagged" vault cash held by those depository institutions currently subject to reserve requirements. Dates refer to the maintenance periods in which the balances are held.
 All vault cash held during the lagged computation period by "bound" institutions in which the balances are held.
 All vault cash held during the lagged computation period by "bound" institutions of vault cash applied during the maintenance period by "nonbound" institutions (i.e., those whose required reserves exceed their vault cash applied during the maintenance period by "nonbound" institutions (i.e., those whose vault cash exceeds their required reserves) to

satisfy current reserve requirements. 5. Total vault cash (line 2) less applied vault cash (line 3). 6. Reserve balances with Federal Reserve Banks (line 1) plus applied vault cash

6. Reserve balances with reactal reserves (line 6).
7. Total reserves (line 5) less required reserves (line 6).
8. 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.
9. Data are prorated monthly averages of biweekly averages.

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#### 1.13 SELECTED BORROWINGS IN IMMEDIATELY AVAILABLE FUNDS Large Banks<sup>1</sup>

Averages of daily figures, in millions of dollars

				1990, wa	eek ending l	Monday <sup>2</sup>			
Maturity and source	Oct. 8	Oct. 15	Oct. 22	Oct. 29	Nov. 5	Nov. 12	Nov. 19	Nov. 26	Dec. 3
Federal funds purchased, repurchase agreements, and other selected borrowing in immediately available funds From commercial banks in the United States For one day or under continuing contract For all other maturities.	91,217 15,376	86,843 17,561	78,536	75,748 20,036	82,906 19,286	83,216	87,080 19,428	82,126 21,122	83,431 19,755
<ol> <li>From other depository institutions, foreign banks and foreign official institutions, and U.S. government agencies</li> <li>For one day or under continuing contract</li></ol>	36,441 19,050	37,361 19,576	34,698 19,784	34,674 20,107	38,560 20,656	36,566 21,600	37,728 21,121	34,159 23,295	36,220 20,933
Repurchase agreements on U.S. government and federal agency securities in immediately available funds Brokers and nonbank dealers in securities         5       For one day or under continuing contract	19,495 20,207 31,139 12,308	18,854 21,599 32,559 12,002	16,492 22,747 31,762 12,526	16,691 23,144 30,612 13,302	15,620 22,952 30,586 13,818	15,314 23,366 29,738 13,370	13,700 21,972 31,667 13,665	11,585 21,976 27,725 17,193	12,015 21,258 30,998 13,248
<ul> <li>МЕмо: Federal funds loans and resale agreements in immediately available funds in maturities of one day or under continuing contract</li> <li>9 To commercial banks in the United States</li></ul>	50,017 15,420	47,434 15,690	45,415 16,937	47,006 16,645	49,786 16,663	45,086 15,976	50,258 17,843	46,826 16,466	47,141 17,078

1. Banks with assets of \$1 billion or more as of Dec. 31, 1977. These data also appear in the Board's H.5 (507) release. For address, see inside front cover. 2. Beginning with the August Bulletin data appearing are the most current available. To obtain data from May 1, 1989, through April 16, 1990, contact the

Division of Applications Development and Statistical Services, Financial State-ment Reports Section, (202) 452-3349. 3. Brokers and nonbank dealers in securities; other depository institutions; foreign banks and official institutions; and United States government agencies.

#### 1.14 FEDERAL RESERVE BANK INTEREST RATES

#### Percent per year

				Curr	ent and previo	us levels								
	A	djustment crei	lit		Extended credit <sup>2</sup>									
Federal Reserve Bank	and Seasonal credit <sup>1</sup>								After 30 days of borrowing <sup>3</sup>					
	On 2/28/91	Effective date	Previous rate	On 2/28/91	Effective date	Previous rate	On 2/28/91	Effective date	Previous rate	Effective date				
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	6	2/1/91 2/1/91 2/1/91 2/1/91 2/1/91 2/4/91 2/4/91 2/1/91 2/1/91 2/1/91 2/1/91	61/2 61/2	6 • •	2/1/91 2/1/91 2/1/91 2/1/91 2/1/91 2/1/91 2/4/91 2/4/91 2/1/91 2/1/91 2/1/91	61/2 61/2	6.85	2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91 2/21/91	7.30	2/7/91 2/7/91 2/7/91 2/7/91 2/7/91 2/7/91 2/7/91 2/7/91 2/7/91 2/7/91 2/7/91 2/7/91				

Range of rates for adjustment credit in recent years<sup>4</sup>

Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level) All F.R. Banks	F.R. Bank of N.Y.
In effect Dec. 31, 1977 1978—Jan. 9 May 11 12 July 3 10 Aug. 21 Sept. 22 Oct. 16 20 Nov. 1 3 1979—July 20 Aug. 17 20 Sept. 19 20 Sept. 19 21 Oct. 8 19 1979—July 20 Sept. 19 21 Oct. 8 10 10 1980—Feb. 15 10 10 1980—Feb. 15 10 10 1980—Jeb. 15 10 10 10 10 10 10 10 10 10 10	$\begin{array}{c} 6\\ 6-6^{1/2}\\ 6^{1/2}-6^{1/2}\\ 7^{7}-7^{1/4}\\ 7^{7/4}\\ 8\\ 8-8^{1/2}\\ 8^{1/2}-9^{1/2}-9^{1/2}\\ 8^{1/2}-9^{1/2}-9^{1/2}\\ 8^{1/2}-9^{1/2}\\ 8^{1/2}-9^{1/2}\\$	6 6½ 7 7 7¼ 8 8½ 9½ 9½ 10 10½ 10½ 10½ 10½ 11 11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	1981—May 5 Nov. 2 6 Dec. 4 1982—July 20 23 Aug. 2 16 27 30 Oct. 12 13 Nov. 22 26 Dec. 14 15 17 1984—Apr. 9 1984—Apr. 9 1984—Apr. 9 1984—Apr. 9	$\begin{array}{c} 13-14\\ 14\\ 13\\ 12\\ 11\frac{1}{2} \\ 11\frac{1}{2} \\ 11-11\frac{1}{2} \\ 11-11\frac{1}{2} \\ 10\frac{1}{2} \\ 10-10\frac{1}{2} \\ 10-1$	14 14 13 12 11/2 11/2 10 10 91/2 9 9 81/2 81/2 8	1985—May       20       24         1986—Mar.       7.       10         Apr.       21       11         July       11       22         1987—Sept.       4.       11         1988—Aug.       9       11         1988—Feb.       24       27         1990—Dec.       19	71/28 71/2 7-71/2 6 51/2-7 6 51/2-6 6 6-61/2 61/2 61/2 6 6 6 6	71/2 71/2 7 7 61/2 6 6 6 6 6 6 6 6 6 6 6 6

1. Adjustment credit is available on a short-term basis to help depository institutions meet temporary needs for funds that cannot be met through reasonable alternative sources. After May 19, 1986, the highest rate established for loans to depository institutions may be charged on adjustment credit loans of unusual size that result from a major operating problem at the borrower's facility. Seasonal credit is available to help smaller depository institutions meet regular, seasonal needs for funds that cannot be met through special industry lenders and that arise from a combination of expected patterns of movement in their deposits and loans. A temporary simplified seasonal program was established on Mar. 8, 1985, and the interest rate was a fixed rate ½ percent above the rate on adjustment (redit. The program was reestablished for 1986 and 1987 but was not renewed for 1988.

1988. 2. Extended credit is available to depository institutions, when similar assistance is not reasonably available from other sources, when exceptional circumstances or practices involve only a particular institution or when an institution is experiencing difficulties adjusting to changing market conditions over a longer period of time. 3. For extended-credit loans outstanding more than 30 days, a flexible rate somewhat above rates on market sources of funds ordinarily will be charged, but

in no case will the rate charged be less than the basic discount rate plus 50 basis points. The flexible rate is reestablished on the first business day of each two-week reserve maintenance period. At the discretion of the Federal Reserve Bank, the time period for which the basic discount rate is applied may be shortened.

4. For earlier data, see the following publications of the Board of Governors: Banking and Monetary Statistics, 1914–1941, and 1941–1970; Annual Statistical Digest, 1970–1979.

Banking and Monetary Statistics, 1914-1941, and 1971-1976, manual 2010 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 that had 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. There was no surcharge until Nov. 17, 1980, when a 2 percent surcharge was adopted; 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 eliminated on Nov. 17, 1981.

#### 1.15 RESERVE REQUIREMENTS OF DEPOSITORY INSTITUTIONS

Percent of deposits

Type of deposit, and deposit interval <sup>2</sup>	Depository instit after implem Monetary	ution requirements entation of the Control Act
deposit interval	Percent of deposits	Effective date
Net transaction accounts <sup>1, 4</sup> \$0 million-\$41.1 million. More than \$41.1 million	3 12	12/18/90 12/18/90
Nonpersonal time deposits <sup>5, 6</sup>	0	12/27/90
Eurocurrency liabilities <sup>7</sup>	0	12/27/90

1. Required reserves must be held in the form of deposits with Federal Reserve

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, sa edge corporations.
 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 ubject to this zero percent reserve require-ment 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. 20, 1988, the exemption was raised from \$3.2 million to \$3.4 million. In determining the reserve requirements of depository institutions, the exemption shall apply in the following order: (1) net 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.

accounts. The exclusion approx only to account that would be subject to be percent reserve requirement. 3. 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 to third persons or others. However, 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 can be checks, are not transaction accounts (such accounts are savings

than three can be checks, are not transaction accounts (such accounts are savings deposits). 4. 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. 18, 1990 for institutions, determined as of June 30 each year. Effective Dec. 18, 1990 for institutions, determined as of June 30 each year. Effective Dec. 18, 1990 for institutions, determined as of June 30 each year. Effective Dec. 18, 1990 for institutions, determined as of June 30 each year. Effective Dec. 18, 1990 for institutions determined as of June 30 each year. Effective Dec. 18, 1990 for institutions of the percentage of the deposits with an original maturity of less than 1-1/2 years were reduced from 3 percent to 1-1/2 percent on the maintenance period that began December 13, 1990, and to zero for the maintenance period that began December 13, 1990, for institutions that report weekly. The reserve requirement on nonpersonal time deposits with an original maturity of 1-1/2 years or more has been zero since October 6, 1983. 6. For institutions that report quarterly, the reserves on nonpersonal time deposits with an original maturity of zero in the same manner and on the same dates as were reduced from 3 percent to zero and Line deposits with an original maturity of less than 1-1/2 years were reduced from 3 percent to zero in the same manner and on the same dates as were the reserves on nonpersonal time deposits with an original maturity of less than 1-1/2 years were reduced from 3 percent to zero in the same manner and on the same dates as were the reserves on nonpersonal time deposits with an original maturity of less than 1-1/2 years (see notes 5 and 6).

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

Millions of dollars

			4000				1990			
Type of transaction	1988	1989	1990	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U.S. TREASURY SECURITIES			_							
Outright transactions (excluding matched transactions)			ſ				2			
Treasury bills         1       Gross purchases         2       Gross sales         3       Exchange         4       Redemptions	8,223 587 241,876 2,200	14,284 12,818 231,211 12,730	24,739 7,291 231,386 4,400	1,732 0 16,279 0	287 0 16,159 0	4,264 68 21,912 0	631 0 19,041 0	933 0 19,271 0	6,658 0 25,981 0	0 2,350 16,939 3,000
Others within 1 year 5 Gross purchases	-24,588	327 0 28,848 -25,783 500	475 0 25,638 -27,424 0	50 0 1,314 0 0	0 0 1,321 ~3,577 0	$ \begin{array}{c} 0 \\ 0 \\ 3,235 \\ -4,550 \\ 0 \end{array} $	0 0 1,010 0 0	0 0 1,934 0 0	$325 \\ 0 \\ 3,531 \\ -4,315 \\ 0$	0 0 1,991 0 0
1 to 5 years         0       Gross purchases	-17,720	1,436 490 -25,534 23,250	200 0 -21,770 25,410	0 0 -1,314 0	0 0 ~1,234 3,577	0 0 2,188 4,200	0 0 -1,010 0	0 0 -1,677 0	0 0 -3,258 3,915	0 0 -1,991 0
5 to 10 years         14 Gross purchases         15 Gross sales         16 Maturity shift         17 Exchange	1,579 175 -5,946 1,797	287 29 -2,231 1,934	0 0 -2,186 789	0 0 0 0	0 -87 0	0 0 697 0	0 0 0 0	0 0 -256 0	0 0 127 0	0 0 0 0
Over 10 years         18       Gross purchases         19       Gross sales         20       Maturity shift         21       Exchange	1,398 0 188 275	284 0 -1,086 600	0 0 -1,681 1,226	0 0 0 0	0 0 0 0	0 0 -350 350	0 0 0 0	0 0 0 0	0 0 -400 400	0 0 0 0
All maturities 22 Gross purchases 23 Gross sales 24 Redemptions	18,863 1,562 2,200	16,617 13,337 13,230	25,514 7,491 4,400	1,782 0 0	287 0 0	4,264 68 0	631 0 0	933 0 0	6,983 0 0	100 2,550 3,000
Matched transactions 25 Gross sales	1,168,484 1,168,142	1,323,480 1,326,542	1,369,052 1,363,434	107,896 110,042	95,144 95,787	113,647 110,635	120,036 (20,280	127,265 129,722	116,601 114,488	125,844 123,442
Repurchase agreements <sup>2</sup> 27 Gross purchases	152,613 151,497	129,518 132,688	219,632 202,551	11,242 11,242	13,106 11,447	26,700 23,764	31,996 34,932	19,844 19,844	36,457 34,105	45,684 31,022
29 Net change in U.S. government securities	15,872	-10,055	25,086	3,928	2,590	4,121	-2,060	3,390	7,222	6,808
Federal Agency Obligations										
Outright transactions 30 Gross purchases 31 Gross sales 32 Redemptions	0 0 587	0 0 442	0 0 183	0 0 0	0 0 33	0 0 37	0 0 0	0 0 34	0 0 0	0 0 1
Repurchase agreements <sup>2</sup> 33 Gross purchases         34 Gross sales	57,259 56,471	38,835 40,411	41,836 40,461	3,221 3,221	4,697 4,137	7,130 5,944	7,394 8,580	5,913 5,913	2,774 2,504	2,091 1,021
35 Net change in federal agency obligations	198	~2,018	1,192	0	527	1,149	1,186	- 34	270	1,070
36 Total net change in System Open Market	16,070	-12,073	26,278	3,928	3,117	5,270	-3,247	3,356	7,492	7,878

1. Sales, redemptions, and negative figures reduce holdings of the System Open Market Account; all other figures increase such holdings. Details may not add to totals because of rounding.

2. In July 1984 the Open Market Trading Desk discontinued accepting bankers acceptances in repurchase agreements.

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

Millions of dollars

			Wednesday				End of month			
Account			1991			19		1991		
	Jan. 2	Jan. 9	Jan. 16	Jan. 23	Jan. 30	Nov. 30	Dec. 31	Jan. 31		
			Co	nsolidated co	ndition statem	tatement				
Assets										
Gold certificate account     Special drawing rights certificate account     Coin	11,058 10,018 529	11,058 10,018 529	11,059 10,018 553	11,059 10,018 584	11,058 10,018 611	11,059 10,018 532	11,058 10,018 535	11,058 10,018 611		
Loans 4 To depository institutions 5 Other	551	639 0	112 0	5,143 0	136 0	131 0	190 0	180 0		
6 Acceptances held under repurchase agreements Federal agency obligations 7 Bought outright 8 Held under repurchase agreements U.S. Treasury securities Benrik sources	0 6,342 0	0 0 6,342 0	0 0 6,342 0	0 0 6,342 0	0 0 6,342 866	0 0 6,343 270	0 0 6,342 1,341	0 0 6,342 2,186		
Bought outright         9       Bills         10       Notes.         11       Bonds         12       Total bought outright <sup>2</sup> 13       Held under repurchase agreements         14       Total U.S. Treasury securities.	115,484 91,407 31,163 238,053 0 238,053	109,209 91,407 31,163 231,779 0 231,779	113,301 91,407 31,163 235,871 0 235,871	116,148 91,407 31,163 238,717 0 238,717	111,664 91,407 31,163 234,234 2,359 236,592	119,763 91,707 31,163 242,633 2,352 244,985	112,520 91,407 31,163 235,090 17,013 252,103	111,736 91,407 31,163 234,306 14,888 249,194		
15 Total loans and securities	244,946	238,760	242,324	250,202	243,936	251,728	259,975	257,901		
16 Items in process of collection 17 Bank premises	4,470 872	7,090 875	9,231 876	9,358 876	6,650 875	6,235 862	6,106 872	5,160 875		
18         Denominated in foreign currencies <sup>2</sup> 19         All other <sup>3</sup>	32,634 5,776	32,668 5,821	32,700 5,753	32,810 6,002	32,838 6,308	33,579 4,859	32,633 6,376	33,879 6,704		
20 Total assets	310,303	306,819	312,514	320,908	312,294	318,871	327,573	326,206		
21 Federal Reserve notes	268,076	266,217	264,796	264,616	263,537	260,243	267,657	263,751		
Deposits 27 To depository institutions	19,641 10,495 203 184	21,114 5,577 197 150	28,170 5,099 213 195	28,485 11,079 188 161	17,926 16,884 225 197	37,359 5,495 264 213	38,658 8,960 369 242	19,902 27,810 271 183		
26 Total deposits	30,523	27,038	33,676	39,913	35,232	43,331	48,228	48,165		
27 Deferred credit items         28 Other liabilities and accrued dividends <sup>4</sup>	3,716 3,035	5,380 2,977	5,851 2,945	7,951 3,131	5,019 3,195	5,783 3,807	3,540 3,301	4,470 3,588		
29 Total liabilities	305,350	301,610	307,269	315,611	306,982	313,163	322,727	319,974		
CAPITAL ACCOUNTS 30 Capital paid in	2,423 2,423 106	2,427 2,423 359	2,438 2,423 384	2,438 2,423 436	2,450 2,423 438	2,404 2,243 1,062	2,423 2,423 0	2,450 2,423 1,359		
33 Total liabilities and capital accounts	310,303	306,819	312,514	320,908	312,294	318,871	327,573	326,206		
34 MEMO: Marketable U.S. Treasury securities held in custody for foreign and international accounts	244,852	246,027	246,148	247,463	252,496	246,728	247,521	255,092		
			Fe	deral Reserve	e note stateme	ent				
35 Federal Reserve notes outstanding issued to bank         36 LESS: Held by bank         37 Federal Reserve notes, net.         Collateral held against notes net:	304,645 36,569 268,076	304,081 37,864 266,217	305,196 40,399 264,796	306,121 41,505 264,616	306,722 43,185 263,537	304,591 44,349 260,243	304,829 37,172 267,657	306,681 42,930 263,751		
38         Gold certificate account           39         Special drawing rights certificate account           40         Other eligible assets           41         U.S. Treasury and agency securities	11,058 10,018 2,604 244,395	11,058 10,018 7,021 238,120	11,059 10,018 1,507 242,212	11,059 10,018 0 243,539	11,058 10,018 0 242,460	11,059 10,018 0 239,166	11,058 10,018 0 246,581	11,058 10,018 0 242,675		
42 Total collateral	268,076	266,217	264,796	264,616	263,537	260,243	267,657	263,751		

1. Some of these data also appear in the Board's H.4.1 (503) release. For address, see inside front cover. Components may not add to totals because of rounding. 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 90 days.
 Includes exchange-translation account reflecting the monthly revaluation at market exchange rates of foreign-exchange commitments.

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

			Wednesday			End of month			
Type and maturity groupings	1990		19	191		19	1991		
	Dec. 26	Jan. 2	Jan, 9	Jan. 16	Jan. 23	Nov. 30	Dec. 31	Jan. 30	
1 Loans—Total.           2 Within 15 days           3 16 days to 90 days           4 91 days to 1 year	4,979 4,979 1 0	551 545 7 0	639 633 6 0	112 108 4 0	5,143 5,141 2 0	131 80 50 0	190 186 4 0	136 136 0. 0	
5 Acceptances—Total 6 Within 15 days 7 16 days to 90 days 8 91 days to 1 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 0 0	0 0 0	
9 U.S. Treasury securities—Total         10 Within 15 days!         11 16 days to 90 days         2 91 days to 1 year         13 Over 1 year to 5 years.         14 Over 5 years to 10 years.         15 Over 1 oyears	241,569 11,489 56,882 75,968 59,372 13,121 24,736	238,054 12,094 53,945 75,408 58,749 13,121 24,736	231,779 14,059 46,530 74,583 58,749 13,121 24,779	235,871 11,230 55,719 72,368 58,510 13,306 24,736	238,717 12,074 55,549 74,541 58,510 13,306 24,736	242,633 3,841 63,974 77,288 59,572 13,221 24,736	235,090 5,516 57,538 75,428 58,749 13,121 24,736	237,000 12,567 54,302 73,169 58,510 13,306 24,736	
16 Federal agency obligations—Total         17 Within 15 days         18 16 days to 90 days         19 91 days to 1 year         20 Over 1 year to 5 years         21 Over 5 years to 10 years         22 Over 10 years	6,352 210 737 1,639 2,555 1,022 [88	6,342 0 932 1,644 2,555 1,022 188	6,342 0 932 1,644 2,555 1,022 187	6,342 105 907 1,589 2,589 1,022 187	6,342 219 884 1,533 2,495 1,022 188	6,342 261 604 1,668 2,595 1,025 188	6,342 200 737 1,639 2,555 1,022 188	7,208 1,035 864 1,548 2,550 1,022 188	

1. Holdings under repurchase agreements are classified as maturing within 15 days in accordance with maximum maturity of the agreements.

NOTE: Components may not add to totals because of rounding.

#### A12 Domestic Financial Statistics April 1991

#### 1.20 AGGREGATE RESERVES OF DEPOSITORY INSTITUTIONS AND MONETARY BASE<sup>1</sup>

Billions of dollars, averages of daily figures

· · · · · · · · · · · · · · · · · · ·	1987	1988	1989	1990				1990				1991
Item	Dec.	Dec.	Dec.	Dec./	June	July	Aug.	Sept.	Oct.	Nov.	Dec.'	Jan,
Adjusted for						Seasonall	y adjuste	d				
Changes in Reserve Requirements <sup>2</sup> i Total reserves <sup>3</sup>	58.59	60.59	60.03	60,53	59.73	59.32	59.75	60.08	59.61	59.76	60.53	60.63
<ol> <li>Nonborrowed reserves<sup>4</sup></li></ol>	57.82 58.30 57.55 258.18 <sup>r</sup>	58.88 60.12 59.55 275.40 <sup>r</sup>	59.77 59.79 59.11 285.28	60.20 60.22 58.86 309.73	58.85 59.20 58.96 296.47'	58.56 58.84 58.46 298.01'	58.82 58.95 58.88 301.08 <sup>r</sup>	59.46 59.46 59.17 304.47 <sup>r</sup>	59.20 59.22 58.76 306.38 <sup>r</sup>	59.53 59.56 58.82 307.76 <sup>r</sup>	60.20 60.22 58.86 309.73	60.10 60.12 58.45 314.27
Adjusted for Changes in Reserve Requirements <sup>2</sup>		I	ļ	<b>↓</b>	No	t seasona	ully adjus	ted		<b>I</b>		
6 Total reserves <sup>7</sup>	60.07	62.22	61.67	62.18	59.61	59.47	59.21	59.81	59.24	60.02	62.18	62.29
7 Nonborrowed reserves	59.30 59.78 59.03 262.00	60.50 61.75 61.17 279.54	61.40 61.42 60.75 289.45	61.86 61.88 60.52 314.03	58.73 59.07 58.84 297.37	58.71 58.99 58.61 299.90	58.29 58.41 58.34 301.46	59.19 59.20 58.90 303.56	58.83 58.85 58.40 305.00	59.79 59.82 59.08 308.71	61.86 61.88 60.52 314.03	61.76 61.78 60.11 315.36
Not Adjusted for Changes in Reserve Requirements <sup>10</sup>												
11 Total reserves <sup>11</sup>	62.14	63.75	62.81	59.12	61.20	60.94	60.73	61.45	61.05	62.05	59.12	51.00
12 Nonborrowed reserves	61.36 61.85 61.09 266.06 1.05 .78	62.03 63.27 62.70 283.00 1.05 1.72	62.54 62.56 61.89 292.55 .92 .27	58.79 58.82 57.46 313.70 1.66 .33	60.32 60.66 60.42 300.99 .77 .88	60.19 60.47 60.08 303.39 .86 .76	59.80 59.93 59.86 304.99 .87 .93	60.83 60.83 60.54 307.21 .91 .62	60.64 60.66 60.21 308.85 .85 .41	61.82 61.84 61.10 312.69 .95 .23	58.79 58.82 57.46 313.70 1.66 .33	50.47 50.49 48.83 309.31 2.18 .53

Latest monthly and biweekly figures are available from the Board's H.3(502) 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, D.C. 20551.
 Figures reflect adjustments for discontinuities or "breaks" associated with renulatory changes in reserve reserve reserves.

Federal Reserve System, Washington, D.C. 2051.
Figures reflect adjustments for discontinuities or "breaks" associated with regulatory changes in reserve requirements.
Seasonally adjusted, break adjusted total reserves equal seasonally adjusted, break-adjusted total reserves equal seasonally adjusted, break-adjusted nonborrowed reserves (line 16).
Seasonally adjusted, break-adjusted nonborrowed reserves equal seasonally adjusted break-adjusted total reserves (line 1) less total borrowings of depository institutions from the Federal Reserve (line 17).
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 adjusted, break-adjusted total reserves.
The seasonally adjusted, break-adjusted total reserves (line 10, plus (2) the seasonally adjusted total reserves (line 10, plus (2) the seasonally adjusted toreak-adjusted total reserves.
The seasonally adjusted, break-adjusted total reserves (line 10, plus (2) the seasonally adjusted, break-adjusted total reserves (line 10, plus (2) the seasonally adjusted, break-adjusted difference between current vault Cash" and for all those weekly reporters whose vault cash exceeds their required reserves, the seasonally adjusted, break-adjusted required reserves (line 9) plus excess reserves (line 16).

To adjust required reserves for discontinuities because of regulatory changes in reserve requirements, a multiplicative procedure is used to estimate what required reserves would have been in past periods had current reserve require-ments been in effect. Break-adjusted required reserves includes required reserves against transactions deposits and nonpersonal time and savings deposits (but not reservable nondeposit liabilities).
 The break-adjusted monetary base equals (1) break-adjusted total reserves (line 6), plus (2) the (unadjusted) currency component of the money stock, plus (3) (for all quarterly reporters on the "Report of Transaction Accounts, Other Deposits and Vault Cash" and for all those weekly reporters whose vault cash exceeds their required reserves; the break-adjusted difference between current vault cash and the amount applied to satisfy current reserve requirements.
 Reflects actual reserve requirements, including those on nondeposit liabili-ties, with no adjustments to eliminate the effects of discontinuities associated with changes in reserve requirements.
 Reserve balances with Federal Reserve Banks plus vault cash used to satisfy reserve requirements.

Reserve balances with Federal Reserve Banks plus vault cash used to satisfy reserve requirements.
 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 reserve requirements. After the introduction of CRR, currency and vault cash figures are measured over the computation periods ending on Mondays.
 Unadjusted total reserves (line 11) less unadjusted required reserves (line 14).

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

Billions of dollars, averages of daily figures

Item <sup>2</sup>	1987	1988	1989	1990		1990/		1991
100	Dec."	Dec.'	Dec."	Dec.'	Oct.	Nov.	Dec.	Jan.
		r	<b></b>	Seasonall	y adjusted			<b></b>
1 M1 2 M2 3 M3 4 L 5 Debt	749.7 2,910.1 3,677.4 4,337.0 8,345.1	786.4 3,069.9 3,919.1 4,676.0 9,107.6	793.6 3,223.1 4,055.2 4,889.9 9,790.4	825.4 3,330.5 4,115.9 4,988.2 10,472.1	821.2 3,325.2 4,111.3 4,966.9 10,356.2	823.3 3,325.8 4,113.7 4,978.1 10,416.1	825.4 3,330.5 4,115.9 4,988.2 10,472.1	827.0 3,333.1 4,129.5 n.a. n.a.
M1 components 6 Currency <sup>1</sup> 7 Travelers checks <sup>4</sup> 8 Demand deposits <sup>5</sup> 9 Other checkable deposits <sup>6</sup>	196.8 7.0 286.5 259.3	212.0 7.5 286.3 280.7	222.2 7.4 278.7 285.2	246.4 8.4 276.9 293.7	243.9 8.3 277.1 291.8	245.0 8.4 277.2 292.8	246.4 8.4 276.9 293.7	251.6 8.4 272.8 294.1
Nontransactions components 10 In M2' 11 In M3 only <sup>8</sup>	2,160.4 767.3	2,283.5 849.3	2,429.5 832.1	2,505.1 785.4	2,504.0 786.1	2,502.5 787.9	2,505.1 785.4	2,506.1 796.4
Time and Savings accounts         Commercial banks         12       Savings deposits         13       Money market deposit accounts         14       Small time deposits <sup>10</sup> , <sup>11</sup> 15       Large time deposits <sup>10</sup> , <sup>11</sup>	178.3 356.4 388.0 326.6	192.1 350.2 447.5 368.0	187.7 353.0 531.4 401.9	199.4 378.4 598.0 386.0	197.6 376.7 588.1 386.8	198.2 377.4 589.5 387.4	199.4 378.4 598.0 386.0	201.5 377.8 601.4 394.4
Thrift institutions         16       Savings deposits         17       Money market deposit accounts         18       Small time deposits <sup>3</sup> 19       Large time deposits <sup>10</sup>	233.7 168.5 529.7 162.6	232.3 151.2 584.3 174.3	216.4 133.1 614.5 161.6	211.4 127.6 566.9 121.0	213.9 130.0 574.1 128.3	212.9 129.4 573.4 125.1	211.4 127.6 566.9 121.0	210.7 127.5 562.0 117.9
Money market mutual funds 20 General purpose and broker-dealer 21 Institution-only	221.7 88.9	241.1 86.9	313.6 101.9	347.7 125.7	341.7 119.6	343.0 120.5	347.7 125.7	356.3 130.1
Debt components 22 Federal debt 23 Nonfederal debt	1,957.9 6,387.2	2,114.2 6,993.4	2,268.1 7,522.3	2,534.7 7,937.3	2,474.3 7,881.9	2,507.7 7,908.4	2,534.7 7,937.3	n.a. n.a.
			···	Not seasona	lly adjusted	·		
24 M1 25 M2 26 M3 27 L 28 Debt.	766.2 2,923.0 3,690.3 4,352.8 8,329.1	804.2 3,083.3 3,931.5 4,691.8 9,093.2	811.9 3,236.6 4,067.0 4,907.4 9,775.9	844.3 3,344.5 4,127.9 5,007.4 10,459.2	817.6 3,322.5 4,108.4 4,962.9 10,317.4	826.1 3,329.5 4,120.8 4,983.2 10,386.6	844.3 3,344.5 4,127.9 5,007.4 10,459.2	833.5 3,343.4 4,135.6 n.a. n.a.
M1 components         29 Currency <sup>3</sup> 30 Travelers checks <sup>4</sup> 31 Demand deposits <sup>3</sup> 32 Other checkable deposits <sup>6</sup>	199.3 6.5 298.6 261.8	214.8 6.9 298.9 283.5	225.3 6.9 291.5 288.2	249.6 7.8 289.9 296.9	242.8 8.4 278.0 288.4	245.7 8.0 280.5 291.9	249.6 7.8 289.9 296.9	249.8 7.8 277.7 298.1
Nontransactions components 33 In M2 <sup>2</sup> 34 In M3 only <sup>8</sup>	2,156.8 767.3	2,279.1 848.2	2,424.7 830.4	2,500.2 783.5	2,505.0 785.9	2,503.3 791.3	2,500.2 783.5	2,509.9 792.3
Time and Savings accounts         Commercial banks         5 Savings deposits         36 Money market deposit accounts         37 Small time deposits <sup>10</sup> , 11         38 Large time deposits <sup>10</sup> , 11	176.8 359.0 387.2 325.8	190.6 353.2 446.0 366.8	186.4 356.5 529.2 400.4	197.7 381.6 596.0 386.0	198.2 375.8 588.0 389,2	197.9 379.7 588.4 389.9	197.7 381.6 596.0 386.0	200.0 380.7 601.9 392.8
Thrift institutions         39       Savings deposits         40       Money market deposit accounts         41       Small time deposits <sup>10</sup> 42       Large time deposits <sup>10</sup>	231.4 168.6 529.5 163.3	229.9 151.6 583.8 175.2	214.2 133.7 613.8 162.6	209.6 128.7 565.0 121.0	214.4 129.7 574.0 129.1	212.6 130.1 572.5 125.9	209.6 128.7 565.0 121.0	209.1 128.4 562.5 117.4
Money market mutual funds           43 General purpose and broker-dealer.           44 Institution-only	221.1 89.6	240.7 87.6	313.5 102.8	347.8 127.0	341.3 117.1	344.5 121.2	347.8 127.0	356.6 134.8
Repurchase agreements and Eurodollars 45 Overnight 46 Term	83.2 197.1	83.4 227.7	77.3 179.8	73.9 162.9	83.6 166.9	77.7 168.3	73.9 162.9	70.8 161.7
Debt components 47 Federal debt 48 Nonfederal debt	1,955.6 6,373.5	2,111.8 6,981.4	2,265.9 7,509.9	2,532.1 7,927.1	2,459.3 7,858.1	2,498.8 7,887.8	2,532.1 7,927.1	n.a. n.a.

For notes see following page.

#### NOTES TO TABLE 1.21

NOTES TO TABLE 1.21
 1. Latest monthly and weekly figures are available from the Board's H.6 (508) 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, D.C. (2051).
 2. Composition of the money stock measures and debt is as follows:
 M1: (1) currency outside the Treasury, Federal Reserve Banks, and the vults 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 (Datt and (4), other checkable deposits (CCD) 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.
 M2: M1 plus overnight (and continuing contract) repurchase agreements (Ps) issued by all depository institutions and overnight Eurodollars issued to U.S. residents by foreign branches of U.S. banks worldwide, money market depositist—including retail RPs—in amounts of less than \$100,000, and balances in both taxable and tax-exempt general purpose and broker-dealer money market mutual funds. Excludes and banks, money market funds. Also excludes all balances held by U.S. commercial banks, money market funds. Also excludes all balances held by U.S. commercial banks, money market mutual (general purpose and broker-dealer) foreign government.
 M3: M2 plus large-denomination time deposits and term. RP liabilities (in amounts of 5100,000 or more) issued by all depository institutions, and commercial banks, and the U.S. government.
 M3: M2 plus large-denomination time deposits the estimated amounts below and thankeset mutual funds. Excludes amounts fund kingdom and Canada, and

funds

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 mutual fund holdings of these assets.

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, con-sumer 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. 3. Currency outside the U.S. Treasury, Federal Reserve Banks, and vaults of

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 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.

Reserve noat. 6. Consists of NOW and ATS balances at all depository institutions, credit union share draft balances, and demand deposits at thrift institutions. 7. Sum of overnight RPs and overnight Eurodollars, money market fund balances (general purpose and broker-dealer), MMDAs, and savings and small

balances (general purpose and broker-dealer), MMDAs, and savings and small time deposits. 8. Sum of large time deposits, term RPs, term Eurodollars of U.S. residents, and money market fund balances (institution-only), less a consolidation adjust-ment that represents the estimated amount of overnight RPs and Eurodollars held by institution-only money market funds. 9. Small-denomination time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All individual retirement accounts (IRA) and Keogh accounts at commercial banks and thrifts are subtracted from small time demosits.

deposits. 10. Large-denomination time deposits are those issued in amounts of \$100,000 tubing those backed at international banking facilities.

or more, excluding those booked at international banking facilities. 11. Large-denomination time deposits at commercial banks less those held by money market mutual funds, depository institutions, and foreign banks and official institutions money market mu official institutions.

#### 1.22 BANK DEBITS AND DEPOSIT TURNOVER<sup>1</sup>

Debits are shown in billions of dollars, turnover as ratio of debits to deposits. Monthly data are at annual rates.

	1007	1000	1000			19	90		
Bank group, or type of customer	1987	1988	1989	June	July	Aug.	Sept.	Oct.	Nov.
DEBITS TO		•		Sea	asonally adjus	ted			
Demand deposits <sup>3</sup> 1 All insured banks 2 Major New York City banks 3 Other banks 4 ATS-NOW accounts <sup>4</sup> 5 Savings deposits	217,116.2 104,496.3 112,619.8 2,402.7 526,5	226,888.4 107,547.3 119,341.2 2,757.7 579.2	272,793,1 121,894.2 150,898.9 3,501.8 636.6	301,578.2 131,042.7 170,535.5 4,004.2 566.6	301,589.9 130,590.7 170,999.2 4,163.7 608.8	309,441.0 133,491.9 175,949.1 4,478.9 592.0	287,546.5 131,920.3 155,626.2 3,763.3 543.7	294,431.1 137,315.9 157,115.2 4,229.5 638.6	296,942.4 138,232.9 158,709.6 4,193.5 560.0
Deposit Turnover									
Demand deposits <sup>3</sup> 6 All insured banks 7 Major New York City banks 8 Other banks 9 ATS-NOW accounts <sup>4</sup> 10 Savings deposits <sup>4</sup>	612.1 2,670.6 357.0 13.8 3.1	641.2 2,903.5 376.8 14.7 3.1	781.0 3,401.6 481.5 18.3 3.5	866.2 3,742.8 544.6 19.5 2.9	865.5 3,838.3 543.8 20.5 3.1	888.6 3,777.5 562.3 21.9 3.1	826.2 3,827.6 496.3 18.3 2.8	852.0 4,100.4 503.4 20.6 3.3	861.7 4,132.0 510.1 20.2 2.9
DEBITS TO				Not s	casonally adj	usted			
Demand deposits <sup>3</sup> 1 All insured banks. 2 Major New York City banks. 3 Other banks. 14 ATS-NOW accounts <sup>4</sup> 5 MMDA <sup>6</sup> . 16 Savings deposits <sup>5</sup> .	217,125.1 104,518,8 112,606.2 2,404.8 1,954.2 526,8	227,010.7 107,565.0 119,445.7 2,754.7 2,430.1 578.0	271,957.3 122,241.8 149,715.5 3,496.5 2,790.6 635.8	302,181.4 130,332.7 171,848.6 4,098.2 2,992.1 567.8	302,826.4 130,100.1 172,726.3 4,108.9 3,033.8 640.3	321,168.8 137,460.3 183,708.4 4,274.0 3,171.1 598.1	263,881.4 121,343.4 142,538.0 3,868.9 2,786.5 538.5	304,854.0 142,664.0 162,190.0 4,207.4 3,138.8 662.6	283,550.3 133,220.6 150,329.7 3,928,4 2,798.5 510.1
DEPOSIT TURNOVER		(							
Demand deposits <sup>3</sup> 17 All insured banks 18 Major New York City banks 19 Other banks 20 ATS-NOW accounts <sup>4</sup> 21 MMDA <sup>6</sup> 22 Savings deposits <sup>4</sup>	612.3 2,674.9 356.9 13.8 5.3 3.1	641.7 2,901.4 377.1 14.7 6.9 3.1	779.0 3.415.4 477.8 18.3 8.3 3.5	866.5 3,797.6 546.6 20.1 8.2 2.9	864.8 3,777.5 547.1 20.4 8.3 3.3	938.3 4,109.2 594.8 21.1 8.6 3.1	760.6 3,607.3 454.9 19.0 7.5 2.8	887.5 4,376.5 521.7 20.7 8.4 3.4	815.7 4,067.4 477.4 19.0 7.4 2.6

Historical tables containing revised data for carlier periods may be obtained from the Monetary and Reserves Projections Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.
 These data also appear on the Board's G.6 (406) release. For 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 (NOW) and accounts authorized for automatic transfer to demand deposits (ATS). ATS data are available beginning December 1978.
 Excludes ATS and NOW accounts, MMDA and special club accounts, such as Christmas and vacation clubs.
 Money market deposit accounts.

# A16 Domestic Financial Statistics April 1991

#### 1.23 LOANS AND SECURITIES All Commercial Banks<sup>1</sup>

Billions of dollars; averages of Wednesday figures

										_		
Catalan						1990'		_				1991
Category	Feb.	Маг.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nøv.	Dec.	Jan.
						Seasonall	y adjusted	_		_		
1 Total loans and securities <sup>2</sup>	2,615.1	2,633.2	2,648.1	2,655.4	2,670.1	2,683.0	2,704.9	2,708.0	2,713.6	2,716.6	2,723.6	2,721.1
<ul> <li>2 U.S. government securities</li> <li>3 Other securities</li> <li>4 Total loans and leases<sup>2</sup></li> <li>5 Commercial and industrial</li> <li>6 Bankers acceptances held<sup>3</sup></li> <li>7 Other commercial and industrial</li> </ul>	413.8 180.6 2,020.7 640.3 7.6 632.7	420.3 180.4 2,032.5 643.5 7.5 636.0	426.4 180.2 2,041.5 645.9 7.6 638.3	430.3 178.2 2,046.9 644.3 7.6 636.7	438.4 177.5 2,054.2 645.3 7.8 637.4	442.8 177.3 2,062.9 644.4 7.6 636.7	445.7 178.8 2,080.4 645.1 7.4 637.7	450.1 178.8 2,079.0 644.7 7.5 637.1	453.1 177.8 2,082.7 643.7 7.3 636.4	454.0 175.9 2,086.7 646.5 7.4 639.1	454.2 175.6 2,093.8 648.1 7.5 640.5	454.0 177.8 2,089.3 644.3 7.7 636.7
8 U.S. addressees <sup>4</sup> 9 Non-U.S. addressees <sup>4</sup> 10 Real estate 11 Individual. 12 Security 13 Nonbank financial	627.9 4.9 774.9 379.2 38.3	631.0 4.9 782.7 379.4 37.0	634.0 4.3 790.8 377.8 36.8	632.2 4.4 798.9 378.4 35.5	633.2 4.3 805.9 377.6 35.0	632.5 4.3 814.5 376.4 38.7	633.4 4.3 818.0 378.2 44.6	632.6 4.5 822.5 378.6 41.3	631.7 4.7 827.7 379.7 40.5	634.0 5.1 832.0 378.7 39.6	635.3 5.3 836.5 378.9 40.6	631.1 5.5 837.2 375.8 43.2
institutions 14 Agricultural 15 State and political	32.9 30.8	33.7 30.8	34.0 30.8	34.1 31.0	34.4 31.1	34.7 31.3	35.0 31.5	35.3 31.8	35.2 32.2	35.0 32,5	34.9 33.0	34.4 33.6
subdivisions 16 Foreign banks 17 Foreign official institutions 18 Lease financing receivables 19 All other loans.	39.1 7.9 3.3 32.1 41.8	38.6 8.3 3.2 32.4 43.0	38.2 8.6 3.3 32.4 42.8	37.9 8.7 3.3 32.6 42.3	37.3 7.4 3.2 32.4 44.5	36.4 7.0 3.2 32.6 43.6	35.8 7.9 3.2 32.7 48.2	35.2 8.1 3.3 32.8 45.4	35.0 9.0 3.2 33.3 43.2	34.7 8.2 3.2 32.9 43.3	34.2 7.4 3.2 32.7 44.3	33.5 6.6 3.0 32.4 45.2
					1	lot seasona	ally adjuste	d				
20 Total loans and securities <sup>2</sup>	2,616.7	2,630.0	2,647.7	2,654.5	2,670.8	2,677.5	2,700.1	2,707.0	2,715.5	2,720.1	2,730.5	2,721.0
21 U.S. government securities         22 Other securities         23 Total Joans and leases <sup>2</sup> 24 Commercial and industrial         25 Bankers acceptances held <sup>3</sup> 26 Other commercial and	419.0 180.3 2,017.3 639.5 7.7	423.8 179.7 2,026.4 645.8 7.5	427.5 179.5 2,040.7 650.6 7.4	430.3 178.0 2,046.2 648.3 7.6	437.1 177.5 2,056.3 647.7 8.0	439.9 176.4 2,061.1 644.6 7.3	444.0 179.1 2,077.1 643.5 7.2	448.2 179.0 2,079.8 640.9 7.5	450.8 178.0 2,086.7 641.2 7.4	454.1 176.6 2,089.3 644.5 7.6	451.5 176.3 2,102.7 648.0 7.7	455.8 177.9 2,087.2 641.1 7.6
industrial	631.7 626.9 4.8 772.1 378.7 39.6	638.4 633.6 4.7 779.4 376.6 38.1	643.2 638.6 4.6 788.4 375.1 38.3	640.8 636.3 4.5 798.0 376.6 34.9	639.7 635.5 4.3 806.0 375.6 37.1	637.3 632.9 4.4 814.9 374.1 38.6	636.3 631.8 4.5 819.9 377.4 43.9	633.4 628.8 4.6 824.2 380.4 40.3	633.8 629.1 4.7 830.3 380.6 39.5	636.9 631.9 5.0 834.0 379.8 38.5	640.3 635.1 5.2 837.9 383.8 40.0	633.5 628.2 5.3 837.1 380.0 41.0
institutions	32.5 29.9	33.0 29.5	33.7 29.8	33.8 30.6	34.5 31.4	34.6 32.1	35.0 32.5	35.0 32.9	35.1 33.1	35.4 32.9	36.3 32.9	35.0 32.9
<ul> <li>state and pointeal subdivisions</li></ul>	39.3 7.8 3.3 32.3 42.5	38.6 7.9 3.2 32.4 42.0	38.2 8.3 3.3 32.4 42.5	37.8 8.6 3.3 32.5 41.6	37.2 7.5 3.2 32.2 43.9	36.2 7.1 3.2 32.4 43.3	35.7 8.0 3.2 32.6 45.4	35.2 8.2 3.3 32.8 46.6	35.0 9.3 3.2 33.3 46.0	34.6 8.4 3.2 33.1 45.0	34.0 7.6 3.2 32.8 46.2	34.1 6.6 3.0 32.8 43.5

Data have been revised to reflect new benchmark and seasonal adjustments. Historical data may be obtained from the Division of Monetary Affairs, Banking and Money Market Statistics section, Board of Governors of the Federal Reserve System, Washington, D.C., 20551. These data also appear in the Board's G.7

(407) release. For address, see inside front cover.
2. Excludes loans to commercial banks in the United States.
3. Includes nonfinancial commercial paper held.
4. United States includes the 50 states and the District of Columbia.

#### 1.24 MAJOR NONDEPOSIT FUNDS OF COMMERCIAL BANKS<sup>1</sup>

Monthly averages, billions of dollars

						1990'		- <del></del>			<u> </u>	1991
Source	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Seasonally adjusted         1 Total nondeposit funds <sup>2</sup> 2 Net balances due to related foreign offices <sup>4</sup> 3 Borrowings from other than commercial banks in United States <sup>4</sup> 4 Domestically chartered banks         5 Foreign-related banks	267.6 15.9 251.7 200.2 51.5	270.9 19.0 251.8 197.2 54.6	268.9 18.7 250.3 193.7 56.6	269.0 25.8 243.2 186.6 56.5	272.3 17.2 255.1 196.8 58.3	281.1 19.0 262.0 201.6 60.4	283.7 19.0 264.8 202.2 62.6	282.9 21.5 261.3 198.8 62.5	290.7 29.9 260.8 196.9 63.9	291.5 30.1 261.5 195.1 66.4	286.8 34.6 252.3 187.2 65.1	276.6 33.4 243.2 182.4 60.8
Not seasonally adjusted         6 Total nondeposit funds <sup>4</sup> 7 Net balances due to related foreign offices <sup>4</sup> 8 Domestically chartered banks         9 Foreign-related banks         10 Borrowings from other than commercial banks in United States <sup>4</sup> 11 Domestically chartered banks and security RP borrowings <sup>4</sup> 12 Federal funds and security RP borrowings <sup>4</sup> 13 Other <sup>4</sup>	270.9 15.9 -11.1 26.9 255.0 202.7 199.0 3.7 52.3	276.5 18.3 -11.5 29.8 258.2 202.3 197.8 4.5 55.9	269.7 16.7 -10.6 27.3 253.0 194.8 191.0 3.7 58.2	277.3 28.5 -1.3 29.8 248.8 191.6 188.3 3.4 57.2	275.1 17.4 -6.1 23.5 257.7 197.7 194.6 3.2 60.0	277.2 16.5 -5.8 22.4 260.6 199.1 196.2 2.9 61.5	282.5 18.5 -3.4 21.9 264.0 201.7 198.1 3.6 62.3	278.4 21.5 -4.2 25.7 256.9 195.6 191.6 4.0 61.3	287.6 29.5 1.0 30.5 258.0 195.0 191.7 3.2 63.1	292.7 30.8 .6 30.2 262.0 197.6 194.8 2.9 64.3	281.3 37.1 -4.2 41.3 244.2 182.9 180.1 2.8 61.3	272.0 33.1 ~15.3 48.4 238.9 177.9 174.7 3.2 61.0
MEMO Gross large time deposits <sup>7</sup> 15       Seasonally adjusted         16       Not seasonally adjusted         17       Seasonally adjusted         18       Not seasonally adjusted	459.9 458.7 18.6 22.0	459.0 458.8 19.8 16.7	456.2 453.9 21.3 20.0	454.4 454.0 19.2 25.2	451.5 451.0 20.6 20.9	451.9 450.5 15.0 15.2	449.2 450.1 32.7 23.5	443.6 445.4 26.0 31.0	437.9 440.4 22.3 20.9	435.2 437.8 25.2 19.2	431.8 431.8 24.4 23.0	441.0 439.4 25.9 29.6

1. Data have been revised to reflect new benchmark and seasonal adjustments. Historical data may be obtained from the Division of Monetary Affairs, Banking and Money Market Statistics section, Board of Governors of the Federal Reserve System, Washington, D.C., 20551. Commercial banks are those in the 50 states and the District of Columbia with national or state charters plus 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. These data also appear in the Board's G.10 (411) release. For address, see inside front cover.

Inese data also appear in the Board's G.10 (411) release. For address, see inside front cover. 2. Includes federal funds, 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 IBFs. 4. Other borrowings are 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. Based on daily average data served to be a served by the s

pooled loans.
5. Based on daily average data reported weekly by approximately 120 large banks and quarterly or annual data reported by other banks.
6. Figures are partly daily averages and partly averages of Wednesday data.
7. Time deposits in denominations of \$100,000 or more. Estimated averages of daily data.
8. U.S. Treasury demand deposits and Treasury tax-and-loan notes at commercial banks. Averages of daily data.

#### Domestic Financial Statistics April 1991 A18

#### 1.25 ASSETS AND LIABILITIES OF COMMERCIAL BANKING INSTITUTIONS Last-Wednesday-of-Month Series<sup>1</sup> Billions of dollars

					19	90'					1991
Account	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
ALL COMMERCIAL BANKING INSTITUTIONS <sup>2</sup>			1								
1 Loans and securities         2 Investment securities         3 U.S. government securities         4 Other         5 Trading account assets         6 Total loans         7 Interbank loans         8 Loans excluding interbank         9 Commercial and industrial         10 Real estate         11 Individual         12 All other	2,821.2 576.8 405.9 170.8 26.0 2,218.5 191.6 2,026.9 646.2 781.6 375.5 223.6	2,839.0 583.0 413.1 170.0 23.9 2,232.1 190.5 2,041.5 650.4 790.2 376.7 224.2	2,847.1 587.2 417.8 169.3 21.4 2,238.5 192.8 2,045.7 645.8 801.7 376.6 221.7	2,871.6 589.8 422.2 167.6 23.7 2,258.1 202.2 2,055.9 646.9 807.9 376.8 224.3	2,878.8 588.3 421.7 166.6 27.7 2,262.8 204.8 2,057.9 641.5 816.0 374.8 225.6	2,896.8 597.2 429.1 168.0 29.3 2,270.4 200.1 2,070.3 639.7 820.1 379.4 231.1	2,887.1 601.7 434.5 167.2 21.4 2,264.0 191.0 2,073.0 639.7 825.0 381.2 227.1	2,931.3 604.9 438.0 166.8 27.4 2,299.0 207.9 2,091.2 643.4 831.5 380.8 235.5	2,925.1 603.3 437.6 165.7 25.0 2,296.9 207.0 2,089.8 644.4 833.7 380.5 231.2	2,936.9 605.6 439.6 166.0 22.0 2,309.3 204.0 2,105.3 650.8 838.3 384.7 231.5	2,908.6 612.8 447.6 165.2 24.1 2,271.7 193.2 2,078.5 637.4 836.9 378.2 225.9
<ol> <li>Total cash assets.</li> <li>Reserves with Federal Reserve Banks.</li> <li>Cash in vault.</li> <li>Cash items in process of collection</li> <li>Demand balances at U.S. depository</li> </ol>	212.9 32.0 27.7 80.0 27.4	210.6 31.5 28.5 80.1 26,3	237.7 27.6 29.9 100.7	219.6 31.8 28.9 86.2 27.7	210.7 29.8 28.8 79.6 27.3	207.7 30.0 30.3 77.5 27.3	213.7 33.6 29.3 81.1	220.8 29.7 29.4 85.4 28.5	216.7 33.0 32.8 78.4 28.4	217.9 23.4 32.0 86.0 29.6	199.2 16.5 30.4 74.7 28.1
institutions 18 Other cash assets	45.8	44.2	32.0 47.5	45.0	45.2	42.5	27.0 42.8	47.8	44.2	46.8	49.6
19 Other assets         20 Total assets/total liabilities and capital	209.1 3,243.2	204.8 3,254.4	197.0 3,281.8	207.5 <b>3,298.6</b>	205.3 3,294.8	220.8 3,325.3	226.6 3,327.4	230.1 3,382.2	226.6 3,368.5	245.1 3,399.9	250.0 3,357.8
20 Four assets of information in admits and capital	2,251.3 594.3 551.8 1,105.3 545.4 230.8 215.7	2,258.3 600.9 548.8 1,108.6 563.9 216.0 216.2	2,295.3 618.1 554.5 1,122.7 546.1 223.3 217.1	2,282,4 598,6 556,4 1,127,5 572,6 223,9 219,7	2,290.9 590.1 561.3 1,139.5 562.1 220.5 221.2	2,296.5 589.1 565.6 1,141.8 579.9 226.2 222.8	2,300.1 595.3 563.5 1,141.3 570.9 233.1 223.4	2,332.0 612.1 570.5 1,149.4 591.0 236.0 223.3	2,319.9 598.1 573.1 1,148.8 570.6 255.3 222.7	2,363.4 637.1 573.3 1,152.9 548.7 264.4 223.5	2,334.6 587.9 573.9 1,172.8 529.7 268.9 224.6
MEMO 28 U.S. government securities (including trading account) 29 Other securities (including trading account)	423.8 179.0	428.2 178.7	430.9 177.6	436.1 177.4	440.4 175.6	446.3 180.2	445.1 178.0	454.2 178.1	451.9 176.4	451.1 176.5	459.4 177.5
Domestically Chartered Commercial Banks <sup>3</sup>											- - -
30 Loans and securities         31 Investment securities         32 U.S. government securities         33 Other         34 Trading account assets         35 Total loans         36 Interbank loans         37 Loans excluding interbank         38 Commercial and industrial         39 Real estate         40 Individual         41 All other	2,570.5 547.2 391.2 156.0 26.0 1,997.3 148.3 1,849.0 519.4 747.8 375.5 206.3	2,584.1 551.9 398.0 154.0 23.9 2,008.3 148.9 1,859.3 524.0 753.9 376.7 204.7	2,589.5 558.6 404.8 153.7 21.4 2,009.5 144.2 1,865.4 521.4 764.5 376.6 202.9	2,608.3 559.2 407.7 151.5 23.7 2,025.5 153.3 1,872.2 520.1 769.7 376.8 205.5	2,614.4 557.3 406.5 150.8 27.7 2,029.4 153.7 1,875.7 517.3 776.7 374.8 206.9	2,631.8 566.1 414.1 152.0 29.3 2,036.4 153.7 1,882.6 514.0 779.5 379.4 209.8	2,620.5 569,0 417.9 151.2 21.4 2,030.0 146.0 1,884.0 513.2 784.0 381.2 205.7	2,658.4 571.5 420.9 150.6 27.4 2,059.5 164.0 1,895.5 515.4 789.8 380.8 209.5	2,645.1 569.8 420.8 149.1 25.0 2,050.3 157.4 1,892.9 513.4 791.6 380.5 207.4	2,654.2 570.5 421.7 148.8 22.0 2,061.7 160.0 1,901.7 512.7 796.4 384.7 207.9	2,627.8 575.3 426.5 148.8 24.1 2,028.5 151.7 1,876.8 504.4 794.0 378.2 200.2
42       Total cash assets.         43       Reserves with Federal Reserve Banks.         44       Cash in vault.         45       Cash items in process of collection         46       Demand balances at U.S. depository	187.3 29.8 27.7 78.5	186.3 29.8 28.5 78.7	209.7 26.6 29.9 99.3	193.3 30.9 28.9 84.2	184.7 28.9 28.8 78.1	181.7 28.0 30.3 75.9	187.0 32.1 29.2 79.0	189.3 28.5 29.4 83.6	187.7 31.5 32.8 76.4	188.3 23.0 32.0 83.9	166.6 15.3 30.3 72.9
47 Other cash assets	25.6 25.7	24.6 24.7	30.0 23.9	25.9 23.4	25.6 23.4	25.0 22.5	25.1 21.5	26.6 21.2	26.2 20.9	27.6 21.8	26.2 22.0
48 Other assets	136.4	133.5	136.0	141.2	139.1	145.6	152.3	153.6	155.0	167.8	167.0
49 Total assets/liabilities and capital         50 Deposits         51 Transaction deposits         52 Savings deposits         53 Time deposits         54 Borrowings         55 Other liabilities         56 Residual (assets less liabilities)	2,894.2 2,169.4 584.5 548.8 1,036.1 393.1 119.9 211.8	<b>2,903.9</b> 2,175.7 591.3 545.8 1,038.6 406.4 109.5 212.4	<b>2,935.2</b> 2,213.0 608.3 551.6 1,053.2 393.6 115.1 213.4	2,942.9 2,200.0 588.5 553.4 1,058.1 410.3 116.5 216.2	<b>2,938.2</b> 2,209.2 558.3 1,070.7 396.0 115.3 217.7	<b>2,959.1</b> 2,214.9 578.8 562.6 1,073.5 404.3 120.7 219.2	2,959.7 2,220.1 584.4 560.4 1,075.3 395.8 124.1 219.7	<b>3,001.3</b> 2,253.8 601.5 567.4 1,085.0 400.4 127.5 219.6	<b>2,987.8</b> 2,243.3 587.7 569.8 1,085.8 394.1 131.5 219.0	<b>3,010.3</b> 2,283.5 626.1 570.0 1,087.4 375.6 131.4 219.8	<b>2,961.4</b> 2,236.2 577.4 570.6 1,088.1 380.0 124.3 220.9
MEMO 57 Real estate loans, revolving 58 Real estate loans, other	52.0 695.8	53.2 700.7	54.1 710.3	55.0 714.7	56.3 720.4	57.7 721.7	58.6 725.4	60.6 729.2	61.1 730.5	61.7 734.7	63.0 731.0

Data have been revised because of benchmarking beginning April 1990. Back data are available from the Banking and Monetary Statistics section, Board of Governors of the Federal Reserve System, Washington, D.C., 20551. These data also appear in the Board's weekly H.8 (510) release.
 Figures are partly estimated. They include all bank-premises subsidiaries and other significant majority-owned domestic subsidiaries. Loan and securities data for domestically chartered commercial banks are estimates for the last Wednes-day of the month based on a sample of weekly reporting banks and quarter-end

condition report data. Data for other banking institutions are estimates made for the last Wednesday of the month based on a weekly reporting sample of foreign-related institutions and quarter-end condition reports. 2. Commercial banks, branches and agencies of foreign banks, Edge Act and Agreement corporations, and New York State foreign investment corporations. 3. Insured domestically chartered commercial banks include all member banks and insured nonmember banks.

#### 1.26 ASSETS AND LIABILITIES OF LARGE WEEKLY REPORTING COMMERCIAL BANKS<sup>1</sup>

Millions of dollars, Wednesday figures

· · · · · · · · · · · · · · · · · · ·	[								Adjustment
Account	Nov. 7	Nov. 14	Nov. 21	Nov. 28	Dec. 5	Dec. 12	Dec. 19	Dec. 26	bank 1990 <sup>2</sup>
1 Cash and balances due from depository institutions         2 Total loans, leases, and securities, net         3 U.S. Treasury and government agency         4 Trading account         5 Investment account         6 Mortgage-backed securities	<b>1,305,927</b> 184,961 16,783	124,953 1,311,348 183,743 15,538 168,205 82,126	106,130 1,305,215 183,668 16,186 167,482 82,251	107,639 1,299,570 180,844 14,279 166,565 81,521	107,019 1,308,365 182,165 16,000 166,165 81,523	106,643 1,301,990 179,635 14,185 165,450 80,703	107,105 1,303,670 176,340 12,596 163,743 79,303	105,231 1,300,989 174,400 11,547 162,852 78,995	1,656 <b>22,869</b> 2,697 4 2,694 1,463
All other maturing in         7       One year or less         8       Over one through five years         9       Over five years         10       Other securities         11       Trading account         12       Investment account         13       States and political subdivisions, by maturity         14       One year or less         15       Over one year         16       Other bonds, corporate stocks, and securities	15,159 41,685 29,096 60,533 1,364 59,170 31,170 3,797 27,373 28,000	15,020 41,855 29,204 60,421 1,406 59,015 30,958 3,752 27,206 28,057	15,254 41,420 28,557 60,108 1,406 58,702 30,648 3,646 27,002 28,054	15,271 41,281 28,492 60,107 1,529 58,578 30,465 3,649 26,816 28,113	15,678 40,148 28,815 59,762 1,355 58,407 30,102 3,650 26,452 28,306	15,956 40,112 28,679 59,275 910 58,366 29,937 3,628 26,309 28,428	16,264 39,627 28,549 59,176 1,064 58,112 29,520 3,589 25,931 28,592	15,810 39,367 28,680 59,442 1,242 58,200 29,459 3,560 25,899 28,740	684 403 143 890 0 889 539 67 471 350
17 Other trading account assets         18 Federal funds sold <sup>4</sup> 19 To commercial banks         20 To nonbank brokers and dealers in securities         21 To others         22 Other loans and leases, gross         23 Other loans, gross         24 Commercial and industrial.         25 Bankers acceptances and commercial paper         26 All other         27 U.S. addressees         28 Non-U.S. addressees	74,018 50,193 18,613 5,212 1,016,970 989,630 19,592 1,520 318,071	9,178 77,276 55,265 17,690 4,320 1,020,866 993,458 319,017 1,488 317,529 315,886 1,643	8,368 72,837 50,127 18,158 4,552 1,020,413 993,060 319,400 1,338 318,061 316,601 1,460	8,729 71,300 48,111 19,054 4,134 1,018,709 991,382 317,822 1,384 316,438 315,017 1,421	8,617 76,716 54,392 18,173 4,150 993,968 319,262 1,493 317,769 316,327 1,442	8,292 76,078 50,972 21,252 3,853 1,018,922 991,638 317,646 1,380 316,266 314,838 1,428	9,004 75,711 50,775 20,299 4,636 1,023,606 996,531 316,592 1,315 315,278 313,902 1,376	8,749 76,078 52,782 19,048 4,248 1,022,259 995,166 316,609 1,363 315,246 313,802 1,444	399 2,275 2,227 48 0 17,236 17,183 4,488 0 4,487 4,487 0
29       Real estate loans         30       Revolving, home equity         31       All other         32       To individuals for personal expenditures         33       To depository and financial institutions         34       Commercial banks in the United States         35       Banks in foreign countries         36       Nonbank depository and other financial institutions         37       For purchasing and carrying securities         38       To finance agricultural production         39       To states and political subdivisions         40       To foreign governments and official institutions         41       All other         42       Lease financing receivables         43       Less: Unearned income         44       Loans and lease exerve <sup>4</sup>	383,252 32,676 350,576 172,654 50,624 22,571 3,993 24,060 12,958 6,065 21,611 1,352 21,522 21,522 27,341	384,187 32,803 351,384 172,754 51,612 22,943 4,378 24,292 14,020 6,046 21,611 1,431 22,778 27,408 4,224 35,910 980,731	384,903 32,864 352,039 172,993 51,300 23,632 4,159 23,510 13,062 5,930 21,490 1,492 22,490 27,354 4,214 35,965 980,234	383,952 32,939 351,013 173,366 51,242 23,740 4,208 23,294 14,020 5,858 21,415 1,402 5,858 21,415 22,306 27,326 4,196 35,923 978,590	386,994 33,323 353,671 173,785 51,192 22,719 4,326 24,146 12,062 5,822 21,256 1,489 22,106 27,331 4,154 36,039 981,105	387,157 32,946 354,211 174,448 49,879 21,551 4,344 23,984 12,721 1,563 21,295 27,285 4,146 36,066 978,710	388,401 33,198 355,203 175,727 51,465 23,297 4,038 24,130 13,344 5,848 20,950 1,280 22,924 4,128 36,038 983,439	387,106 33,205 353,902 175,844 50,537 22,186 4,180 24,172 12,990 5,910 20,940 1,424 23,804 27,093 4,129 35,810 982,320	8,167 954 7,213 3,784 0 0 14 9 94 261 0 366 53 43 585 585
<ul> <li>46 All other assets</li> <li>47 Total assets</li> <li>48 Demand deposits</li> <li>49 Individuals, partnerships, and corporations</li> <li>50 States and political subdivisions</li> </ul>	139,382 1,543,784 213,880 173,796 5,825	139,846 1,576,148 234,321 188,752 5,757	141,369 1,552,714 221,678 178,123 7,201	142,960 1,550,169 217,214 173,928 6,427	144,959 1,560,343 226,104 182,170 6,796	144,443 1,553,076 224,606 181,317 6,640	148,448 1,559,223 230,851 184,995 6,882	153,457 1,559,677 238,449 191,867 7,441	1,996 <b>26,521</b> 3,706 3,327 73
51       U.S. government.         2       Depository institutions in the United States         33       Banks in foreign countries         34       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       States and political subdivisions         60       U.S. government, official institutions, and banks	1,427 18,678 5,668 6,48 7,839 80,723 756,352 720,373 28,476 1,009 6,056 439 247 439	1,593 23,771 6,024 538 7,886 79,712 756,440 720,510 28,471 1,003 6,007 450 00180	2,070 19,568 5,769 8,356 79,698 754,987 718,959 718,959 718,959 28,642 1,014 5,925 447 299,407	1,038 19,915 5,335 638 9,934 78,354 753,989 717,988 28,675 1,019 5,862 445 200,671	1,661 20,469 5,145 769 9,093 83,298 759,755 724,031 28,512 1,014 5,756 442 281,122	1,448 19,542 6,455 502 8,701 81,456 758,667 722,715 28,750 1,008 5,744 450	1,909 21,847 5,538 790 82,670 82,670 757,988 722,887 27,979 1,007 5,646 469 278,501	1,62316 21,169 5,735 557 10,057 82,642 756,632 721,980 27,526 1,004 5,598 524	16 104 0 185 2,159 16,261 15,692 516 3 49 0
63 Liabilities for borrowed money         64 Borrowings from Federal Reserve Banks         65 Treasury tax-and-loan notes         66 All other liabilities for borrowed money <sup>6</sup> 67 Other liabilities and subordinated notes and debentures         68 Total liabilities         69 Residual (total assets minus total liabilities) <sup>7</sup> MEMO	287,438 0 9,345 278,093 100,993 <b>1,439,386</b> 104,397	300,180 227 9,558 290,395 100,736 <b>1,471,389</b> 104,759	288,497 0 13,132 275,365 103,750 <b>1,448,610</b> 104,104	290,571 0 16,243 274,328 105,445 1,445,573 104,596	281,352 0 4,767 276,585 105,305 1,455,814 104,529	277,685 90 4,850 272,745 105,499 <b>1,447,913</b> 105,162	278,501 0 23,381 255,120 104,492 1,454,502 104,721	272,666 4,281 25,424 242,960 103,931 <b>1,454,319</b> 105,358	2,691 0 2,691 207 <b>25,024</b> 1,496
<ul> <li>70 Total loans and leases (gross) and investments adjusted<sup>8</sup>.</li> <li>71 Total loans and leases (gross) adjusted<sup>6</sup>.</li> <li>72 Time deposits in amounts of \$100,000 or more.</li> <li>73 U.S. Treasury securities maturing in one year or less</li> <li>74 Loans sold outright to affiliates—total<sup>9</sup>.</li> <li>75 Commercial and industrial.</li> <li>76 Other</li></ul>	1,273,277 1,018,225 208,704 15,421 277 136 140 290,268	1,273,275 1,019,933 207,538 15,376 281 150 131 291,347	1,271,635 1,019,492 206,728 15,224 278 152 125 290,208	1,267,838 1,018,158 206,049 15,104 263 140 123 289,582	1,271,447 1,020,902 205,508 15,245 250 135 115 292,945	1,269,680 1,022,477 204,806 15,426 259 135 124 292,352	1,269,764 1,025,245 202,167 14,264 262 138 124 291,425	1,265,960 1,023,370 201,087 14,112 267 151 116 290,94	21,270 17,284 2,222 485 0 0 0 6,046

Beginning Jan. 6, 1988, the "Large bank" reporting group was revised somewhat, eliminating some former reporters with less than \$2 billion of assets and adding some new reporters with assets greater than \$3 billion.
 These amounts represent accumulated adjustments originally made to offset the cumulative effects of bank mergers during the calendar year. The adjustment data for 1990 should be added to the reported data for 1990 to establish comparability with data reported for 1991.
 Includes U.S. government-issued or guaranteed certificates of participation in pools of residential mortgages.
 Includes securities purchased under agreements to resell.
 Includes allocated transfer risk reserve.

Includes federal funds purchased and securities sold under agreements to repurchase; for information on these liabilities at banks with assets of \$1 billion or more on Dec. 31, 1977, see table 1.13.
 This is not a measure of equity capital for use in capital-adequacy analysis or for other analytic uses.
 Exclusive of loans and federal funds transactions with domestic commercial banks.
 Loans sold are those sold outright to 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.

# 1.28 ASSETS AND LIABILITIES OF LARGE WEEKLY REPORTING COMMERCIAL BANKS IN NEW YORK CITY<sup>1</sup>

Millions of dollars, Wednesday figures

					1990				
Account	Oct. 31	Nov. 7	Nov. 14	Nov. 21	Nov. 28	Dec. 5	Dec. 12	Dec. 19	Dec. 26
Cash balances due from depository institutions     Cash balances due from depository institutions     Total loans, leases, and securities, net <sup>2</sup>	21,704 <b>220,234</b>	22,020 <b>214,241</b>	26,393 217,372	20,970 <b>214,14</b> 7	23,816 213,274	20,642 <b>215,993</b>	21,815 217,660	24,567 <b>216,877</b>	20,398
Securities         3 U.S. Treasury and government agency <sup>3</sup>	0 0 24,195 11,850 2,338 5,017 4,990 0 0 12,781 5,859 616 5,242 6,922 0	0 0 24,249 11,841 2,361 5,076 4,971 0 0 12,569 5,632 607 5,025 6,936 0	0 0 24,189 11,968 2,297 4,923 5,000 0 0 12,438 5,528 6,006 4,922 6,911 0	0 0 23,299 11,789 2,319 4,196 4,995 0 0 12,234 5,307 5,922 4,715 6,927 0	0 0 22,785 11,425 2,335 4,034 4,990 0 12,160 5,254 597 4,658 6,905 0	0 0 23,138 11,448 2,662 3,891 5,136 0 0 12,187 5,227 5,929 4,627 6,960 0	0 023,182 11,444 2,675 3,922 5,141 0 012,173 5,214 601 4,613 6,958 0	0 0 22,936 11,151 2,691 3,951 5,143 0 0 12,128 5,189 5,7189 5,7189 5,7189 5,7189 6,938 0	0 0 22,992 11,232 2,632 3,974 5,153 0 0 12,108 5,173 572 4,600 6,935 0
Loans and leases         18       Federal funds sold <sup>5</sup> 19       To commercial banks         20       To onbank brokers and dealers in securities         21       To others         22       Other loans, gross         23       Other loans, gross         24       Commercial and industrial         25       Bankers acceptances and commercial paper         26       All other         27       U.S. addressees         28       Non-U.S. addressees         29       Real estate loans         30       Revolving, home equity         31       All other         32       To individuals for personal expenditures         33       To depository and financial institutions         34       Commercial banks in the United States         35       Banks in foreign countries         36       Nonbank depository and other financial institutions         37       For purchasing and carrying securities         38       To foreign governments and official institutions         39       To states and political subdivisions         40       Ither         41       Loan and lease reserve         42       Lease financing receivables	19,082 13,450 5,136 496 88,0168 174,436 58,210 58,210 62,369 4,364 55,430 62,369 4,364 57,430 62,369 4,364 58,005 19,969 18,572 6,438 3,642 5,284 4,343 1,533 6,5,732 1,810 14,183 164,176 56,300 298,238	16,102 9,289 5,792 1,021 177,349 171,628 57,715 145 57,715 145 57,715 156,961 609 62,498 4,359 58,139 19,956 17,566 5,818 8,649 4,318 2,327 4,845 5,722 1,810 4,217 161,322 56,490 292,751	17,323 11,743 4,970 6009 179,504 173,769 58,052 138 57,914 57,169 57,914 57,169 57,914 57,169 57,914 57,169 5,741 3,323 8,852 4,952 168 4,337 308 5,386 5,744 1,809 14,273 163,422 56,951 300,716	16,022 9,403 5,912 706 57,837 141 57,636 57,103 594 62,912 4,371 594 62,912 4,371 594 62,912 4,371 5,546 5,960 3,261 8,533 4,112 17,756 4,331 5,743 5,433 5,752 1,810 14,281 162,595	15,229 9,273 5,306 650 179,167 173,429 57,158 142 57,158 4,372 58,325 19,886 6,596 6,596 4,374 8,285 4,951 172 4,328 276 2,734 5,738 1,809 14,258 163,100 14,258 163,200 14,258	18,166 11,932 5,582 651 178,534 172,798 58,316 142 58,316 62,787 4,322 58,465 19,787 17,784 3,516 8,449 3,972 176 4,346 5,288 5,738 1,790 14,241 162,502 58,468 <b>295,103</b>	20,425 13,196 6,431 798 177,920 172,197 56,676 602 62,963 4,333 58,630 19,812 17,724 5,780 3,602 8,341 4,245 176 4,288 436 5,158 5,159 1,768 4,272 1,61,88 14,272 161,88 14,272 161,88 14,272 161,89 1,759	17,145 11,220 5,448 477 174,968 55,926 55,926 55,926 63,137 4,342 58,795 19,932 19,453 7,802 3,409 8,242 4,801 1,666 4,232 321 6,332 5,739 1,767 14,272 164,668 60,749 302,194	16,573 11,529 4,656 388 179,049 173,318 56,600 55,879 62,13 62,356 62,356 4,346 58,010 19,474 19,191 7,709 3,490 19,474 4,232 4,66 6,452 5,730 1,769 14,163 163,117 63,902 299,089
Deposits         48 Demand deposits         49 Individuals, partnerships, and corporations         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 (ATS, NOW, Super NOW, telephone transfers)         57 Nontransaction balances         58 Individuals, partnerships, and corporations         59 States and political subdivisions         60 U.S. government.         61 Depository institutions in the United States         52 Foreign governments, official institutions, and banks         53 Liabilities for borrowed money         54 Horrowings from Federal Reserve Banks         55 All other liabilities for borrowed money <sup>8</sup> 66 Other liabilities for borrowed money <sup>8</sup> 67 Other liabilities and subordinated notes and debentures         68 Total liabilities         69 Residual (total assets minus total liabilities) <sup>9</sup> MEMO	45,437 31,968 641 294 4,482 4,752 4,19 2,882 8,406 112,559 104,752 5,631 119 1,527 5,300 62,290 0 0 5,010 5,010 5,010 5,010 5,010 5,010 2,72,785 25,452	43,309 31,030 632 121 3,729 4,442 5,695 104,926 5,695 104,926 104,926 104,926 104,926 104,926 104,926 104,920 267,623 25,128	47,383 34,376 536 4,392 4,839 390 2,670 8,528 113,004 105,448 5,753 112 1,523 167 66,637 66,637 0 2,074 64,563 40,048 <b>275,601</b> 25,115	44,282 31,332 626 3,692 4,628 4,628 4,628 4,628 4,628 4,628 4,628 104,749 5,916 112 1,404 170 5,916 112 1,404 170 5,916 112 1,404 2,489 5,724 42,603 267,548 24,977	46,534 32,590 7777 102 4,009 4,119 4943 8,376 112,076 114,444 104,444 104,444 104,444 104,444 104,444 104,444 0,3,158 58,006 43,764 271,914 24,802	46,414 33,429 532 202 4,015 3,920 614 3,702 8,836 112,952 105,497 5,813 124 1,350 168 58,318 58,318 43,397 <b>269,917</b> 25,186	46,767 32,847 620 174 3,935 5,315 3,509 8,676 112,641 105,241 105,241 105,241 105,241 1,347 166 58,685 58,685 57,748 44,986 <b>271,756</b> 25,319	50,992 36,533 741 237 5,189 4,327 659 4,327 659 111,837 104,778 8,879 112 1,315 163 61,010 0 5,120 55,889 44,446 <b>277,165</b> 25,029	49,981 35,609 664 4,721 4,356 4,040 8,979 111,977 105,064 5,372 108 1,252 180 5,7631 3,345 6,093 48,192 44,961 <b>273,528</b> 25,560
70 Total loans and leases (gross) and investments adjusted <sup>2,10</sup> 71 Total loans and leases (gross) adjusted <sup>10</sup> 72 Time deposits in amounts of \$100,000 or more 73 U.S. Treasury securities maturing in one year or less	216,338 179,362 35,893 1,791	215,162 178,344 35,415 2,051	215,969 179,342 35,244 2,235	214,874 179,341 34,950 2,386	213,472 178,527 34,817 2,191	214,308 178,984 35,289 2,175	214,723 179,369 34,945 2,089	213,894 178,830 34,384 1,935	211,483 176,384 34,316 1,884

These data also appear in the Board's H.4.2 (504) release. For address, see inside front cover.
 Excludes trading account securities.
 Not available due to confidentiality.
 Includes U.S. government-issued or guaranteed certificates of participation in pools of residential mortgages.
 Includes securities purchased under agreements to resell.
 Includes allocated transfer risk reserve.

Includes trading account securities.
 Includes federal funds purchased and securities sold under agreements to repurchase.
 Not a measure of equity capital for use in capital adequacy analysis or for other analytic uses.
 Exclusive of loans and federal funds transactions with domestic commercial banks.

#### 1.30 LARGE WEEKLY REPORTING U.S. BRANCHES AND AGENCIES OF FOREIGN BANKS<sup>1</sup> Assets and Liabilities

Millions of dollars, Wednesday figures

			· · · · · ·		1990				
Account	Oct. 31	Nov. 7	Nov. 14	Nov. 21	Nov. 28	Dec. 5	Dec. 12	Dec. 19	Dec. 26
1 Cash and due from depository institutions	17,374	16,515	17,455	14,711	15,292	15,044	15,853	14,774	16,332
2 Total loans and securities	163,623	162,182	167,122	164,017	167,730	165,969	170,051	169,302	169,948
<ul> <li>4 Other securities</li> <li>5 Federal funds sold<sup>2</sup></li> <li>6 To commercial banks in the United States.</li> </ul>	11,296	11,752	12,068	11,157	11,161	11,330	12,631	12,481	11,778
	7,480	7,599	7,626	7,618	7,639	7,787	7,856	7,878	7,938
	7,600	4,304	9,174	6,078	8,905	4,984	6,949	6,205	6,511
	4,334	2,267	6,449	4,471	6,418	2,618	4,105	3,445	3,980
7 To others 8 Other loans, gross 9 Commercial and industrial 10 Bankers acceptances and commercial	3,266 137,247 77,625	2,037 138,527 77,901	2,725 138,254 78,208	1,607 139,164 78,950	2,487 140,025 79,554	2,366 141,868 80,669	2,844 142,615 80,975	2,760 142,738 81,864	2,531 143,721 83,871
paper	2,579	2,682	2,694	2,895	3,020	3,123	2,739	2,827	3,038
	75,046	75,219	75,514	76,055	76,534	77,546	78,236	79,037	80,833
	73,626	73,684	73,949	74,519	74,870	75,880	76,550	77,295	79,111
	1,420	1,535	1,565	1,536	1,664	1,666	1,686	1,742	1,722
14       Loans secured by real estate <sup>3</sup> 15       To financial institutions         16       Commercial banks in the United States         17       Banks in foreign countries         18       Nonbank financial institutions	25,482	25,691	25,575	25,760	25,994	26,229	26,041	26,015	26,071
	30,376	30,787	30,539	30,277	30,274	30,491	31,130	30,028	29,343
	22,374	23,195	23,424	23,343	23,293	23,460	23,924	22,851	22,238
	2,730	2,416	1,828	1,769	1,697	1,445	1,476	1,300	1,208
	5,272	5,176	5,287	5,165	5,284	5,586	5,730	5,877	5,897
<ol> <li>To foreign governments and official institutions</li></ol>	199 1,561 2,004	204 1,582 2,362	213 1,371 2,348	216 1,581 2,380	207 1,609 2,387	210 1,768 2,501	218 1,698 2,553	216 2,148 2,467	203 1,583 2,650
<ul> <li>22 Other assets (claims on nonrelated parties)</li> <li>23 Net due from related institutions</li> <li>24 Total assets</li></ul>	33,200	33,593	33,227	33,917	33,742	33,877	34,624	34,346	34,060
	12,980	13,286	12,766	12,985	10,456	12,770	12,345	12,778	11,907
	227,178	225,578	230,570	225,629	227,221	227,664	232,873	231,202	232,250
than directly related institutions Transaction accounts and credit balances <sup>4</sup> . Individuals, partnerships, and corporations	45,456 3,983 2,664	45,374 3,928 2,700	45,048 3,999 2,690	44,907 4,266 2,957	44,701 4,405 2,929	44,313 4,295 2,907	44,682 4,597 2,775	45,696 4,334 2,916	46,934 4,603 3,001
<ul> <li>28 Other</li></ul>	1,319	1,228	1,309	1,309	1,476	1,388	1,822	1,418	1,602
	41,473	41,446	41,049	40,641	40,296	40,018	40,085	41,362	42,331
	32,040	31,902	31,566	31,245	30.961	30,908	30,998	32,476	33,134
<ul> <li>31 Other</li> <li>32 Borrowings from other than directly related institutions</li> </ul>	9,433 118,298	9,544 116,939	9,483 117,215	9,396 116,206	9,335 110,249	9,110	9,087 111,101	8,886	9,197 106,986
<ul> <li>Federal funds purchased<sup>6</sup></li></ul>	55,695	52,248	52,394	44,106	44,281	48,309	42,987	45,902	42,491
	29,047	25,429	23,475	22,070	21,228	22,558	19,588	20,491	22,520
	26,648	26,819	28,919	22,036	23,053	25,751	23,399	25,411	19,971
<ul> <li>Other liabilities for borrowed money</li> <li>To commercial banks in the United States</li></ul>	62,603 35,334 27,269	64,691 36,065 28,626	64,821 35,830 28,991	72,100 38,703 33,397	65,968 38,432 27,536	66,706 38,625 28,081	68,114 38,005 30,109	65,713 37,374 28,339	64,495 35,039 29,456
39 Other liabilities to nonrelated parties           40 Net due to related institutions           41 Total liabilities	32,964	33,096	33,056	33,458	33,598	33,366	34,296	33,467	33,459
	30,459	30,168	35,250	31,058	38,672	34,971	42,794	40,422	44,871
	227,178	225,578	230,570	225,629	227,221	227,664	232,873	231,202	232,250
MEMO 42 Total loans (gross) and securities adjusted <sup>7</sup> 43 Total loans (gross) adjusted <sup>7</sup>	136,915 118,139	136,720 117,369	137,249 117,555	136,203 117,428	138,019 119,219	139,891 120,774	142,022 121,535	143,006 122,647	143,730 124,014

Effective Jan. 4, 1989, the reporting panel includes a new group of large U.S. branches and agencies of foreign banks. Earlier data included 65 U.S. branches and agencies of foreign banks that included those branches and agencies with assets of \$750 million or more on June 30, 1980, plus those branches and agencies that had reached the \$750 million asset level on Dec. 31, 1984. These data also appear in the Board's H.4.2 (504) release. For address, see inside front cover.
 Includes securities purchased under agreements to resell.
 Effective Jan. 4, 1989, loans secured by real estate are being reported as a

separate component of Other loans, gross. Formerly, these loans were included in "All other", line 21. 4. Includes credit balances, demand deposits, and other checkable deposits. 5. Includes savings deposits, money market deposit accounts, and time

deposits, includes savings deposits, moley market deposit accounts, and three deposits.
 f. Includes securities sold under agreements to repurchase.
 T. Exclusive of loans to and federal funds sold to commercial banks in the United States.

#### Domestic Financial Statistics April 1991 A22

#### 1.32 COMMERCIAL PAPER AND BANKERS DOLLAR ACCEPTANCES OUTSTANDING

Millions of dollars, end of period

	1986	1987	1988	1989	1990				90		
Instrument	Dec.	Dec.	Dec.	Dec.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.
			Con	nmercial pa	per (seasor	nally adjust	ed unless n	oted otherv	vise)		
1 All issuers	329,991	358,056	457,297	529,055	565,116	545,849	546,691	559,593	557,731	561,448	565,116
Financial companies <sup>1</sup> Dealer-placed paper <sup>2</sup> Total Bank-related (not seasonally adjusted) <sup>3</sup> Total Bank-related (not seasonally adjusted) <sup>3</sup> 6 Nonfinancial companies <sup>3</sup>	101,072 2,265 151,820 40,860 77,099	102,844 1,428 173,980 43,173 81,232	160,094 1,248 194,537 43,155 102,666	187,084 n.a. 212,210 n.a. 129,761	219,823 n.a. 200,800 n.a. 144,493	199,466 n.a. 202,829 n.a. 143,554	199,099 n.a. 202,217 n.a. 145,375	205,093 n.a. 204,065 n.a. 150,435	203,987 n.a. 204,273 n.a. 149,471	214,199 n.a. 203,289 n.a. 143,960	219,823 n.a. 200,800 n.a. 144,493
				Bankers d	ollar accep	tances (not	seasonally	adjusted) <sup>6</sup>			
7 Total	64,974	70,565	66,631	62,972	51,863	52,006	52,324	50,469	52,093	53,968	51,863
Holder 8 Accepting banks 9 Own bills 10 Bills bought Federal Reserve Banks 11 Own account	13,423 11,707 1,716 0	10,943 9,464 1,479 0	9,086 8,022 1,064 0	9,433 8,510 924 0	9,045 7,698 1,327 0	9,628 8,395 1,233	9,944 7,895 2,049 0	9,366 7,944 1,421 0	9,189 7,868 1,321 0	8,751 7,535 1,217 0	9,045 7,698 1,327 0
12 Foreign correspondents 13 Others	1,317 50,234	965 58,658	1,493 56,052	1,066 52,473	918 41,900	1,571 40,806	1,560 40,821	1,333 39,770	1,145 41,760	880 44,337	918 41,900
Basis 14 Imports into United States 15 Exports from United States 16 All other	14,670 12,960 37,344	16,483 15,227 38,855	14,984 14,410 37,237	15,651 13,683 33,638	12,696 12,686 26,481	13,691 12,186 26,129	13,188 12,221 26,915	12,723 11,889 25,856	12,408 13,238 26,447	12,758 13,865 27,345	12,696 12,686 26,481

Institutions engaged primarily in activities such as, but not limited to, commercial savings, and mortgage banking; sales, personal, and mortgage fi-nancing; factoring, finance leasing, and other business lending; insurance under-writing; and other investment activities.
 Includes all financial company paper sold by dealers in the open market.
 Beginning January 1989, bank-related series have been discontinued.
 As reported by financial companies that place their paper directly with investors.

5. Includes public utilities and firms engaged primarily in such activities as communications, construction, manufacturing, mining, wholesale and retail trade, transportation, and services.
6. Beginning January 1988, the number of respondents in the bankers acceptance survey were reduced from 155 to 111 institutions—those with \$100 million or more in total acceptances. The panel is revised every January and currently has about 100 respondents. The current reporting group accounts for over 90 percent of total acceptances activity.

#### 1.33 PRIME RATE CHARGED BY BANKS on Short-Term Business Loans

Percent per year

Date of change	Rate	Period	Average rate	Period	Average rate	Period	Averag rate
988— Feb. 2         May 11         July 14         Aug. 11         Nov. 28	8.50 9.00 9.50 10.00 11.50 11.00 11.50 10.50 10.00 9.00	1988         1989         1990         1988—Jan.         Feb.         Mar.         Apr.         May         June         July         Sept.         Oct.         Nov.         Dec.	9.32 10.87 10.01 8.75 8.51 8.50 8.50 8.50 9.84 9.00 9.29 9.84 10.00 10.05 10.50	1989— Jan. Feb. Mar. Apr. June June July Aug. Sept. Oct. Nov. Dec.	10.50 10.93 11.50 11.50 11.50 11.50 11.50 10.50 10.50 10.50 10.50 10.50	1990 Jan. Feb. Mar. Apr. June July Aug. Sept. Oct. Nov. Dec. 1991 Jan. Feb.	10.11 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 9.52 9.05

NOTE. These data also appear in the Board's H.15 (519) and G.13 (415) releases. For address, see inside front cover.

#### 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.

Ins	strument	1988	1989	1990		1990		1991	1990, week ending		1991, we	ek ending	
					Oct.	Nov.	Dec.	Jan.	Dec. 28	Jan, 4	Jan. 11	Jan. 18	Jan. 25
MONEY N	ARKET RATES												
<ol> <li>Federal funds<sup>1,2,3</sup></li> <li>Discount window Commercial paper</li> </ol>	b borrowing <sup>2,11</sup>	7.57 6.20	9.21 6.93	8.10 6.98	8.11 7.00	7.81 7.00	7.31 6.79	6,91 6.50	7.16 6.50	7.17 6.50	6.40 6.50	6.77 6.50	6.88 6.50
3 1-month 4 3-month	irectly placed <sup>3,4,6</sup>	7.58 7.66 7.68	9.11 8.99 8.80	8.15 8.06 7.95	8.04 7.98 7.81	7.84 7.91 7.74	8.28 7.80 7.49	7.12 7.10 7.02	9.01 8.14 7.66	7,57 7,31 7,17	7.22 7.15 7.08	7.27 7.25 7.15	6.83 6.92 6.86
6 1-month 7 3-month		7.44 7.38 7.14	8.99 8.72 8.16	8,00 7,87 7.53	7.92 7.80 7.50	7.64 7.75 7.42	7.62 7.32 6.95	6.95 6.92 6.59	7.59 7.14 6.73	7.19 7.02 6.70	7.01 6.97 6.60	7.09 7.06 6,60	6.68 6.77 6.55
9 3-month	nces <sup>3,4,7</sup>	7.56 7.60	8.87 8.67	7.93 7.80	7.85 7.67	7.82 7.58	7.60 7.25	6.96 6.84	7.95 7.38	7.08 6.90	7.05 6.96	7.13 7.00	6.76 6.63
11       1-month         12       3-month         13       6-month         14       Eurodollar depos         15       Trassury bit	its, 3-month <sup>3,9</sup>	7.59 7.73 7.91 7.85	9.11 9.09 9.08 9.16	8.15 8.15 8.17 8.16	8.03 8.06 8.05 8.06	7.92 8.03 7.95 8.04	8.27 7.82 7.64 7.87	7.10 7.17 7.17 7.23	9.17 8.13 7.78 8.19	7.39 7.35 7.31 7.67	7.28 7.30 7.30 7.40	7.26 7.33 7.34 7.39	6.77 6.94 6.97 7.20
16 6-month	ket <sup>3,4</sup>	6.67 6.91 7.13	8.11 8.03 7.92	7.50 7.46 7.35	7.17 7.16 7.06	7.06 7.03 6.85	6.74 6.70 6.61	6.22 6.28 6.25	6.48 6.59 6.51	6.47 6.44 6.37	6.31 6.36 6.30	6.07 6.20 6.22	6.12 6.20 6.19
18 3-month 19 6-month	· · · · · · · · · · · · · · · · · · ·	6.68 6.92 7.17	8.12 8.04 7.91	7.51 7.47 7.36	7.19 7.20 7.01	7.07 7.04 6.81	6.81 6.76 6.58	6.30 6.34 6.22	6.52 6.57 n.a.	6.52 6.48 n.a.	6.52 6.51 n.a.	6.12 6.21 6.22	6.14 6.21 n.a.
CAPITAL I	MARKET RATES												
U.S. Treasury no Constant matur	otes and bonds rities <sup>13</sup>												
22         2-year            23         3-year            24         5-year            25         7-year            26         10-year		7.65 8.10 8.26 8.47 8.71 8.85 8.96	8.53 8.57 8.55 8.50 8.52 8.49 8.45	7.89 8.16 8.26 8.37 8.52 8.55 8.61	7.55 7.88 8.07 8.33 8.59 8.72 8.86	7.31 7.60 7.74 8.02 8.28 8.39 8.54	7.05 7.31 7.47 7.73 8.00 8.08 8.24	6.64 7.13 7.38 7.70 7.97 8.09 8.27	6.95 7.28 7.49 7.79 8.08 8.15 8.31	6.78 7.12 7.34 7.62 7.93 8.00 8.18	6.71 7.15 7.41 7.77 8.06 8.18 8.38	6.62 7.18 7.43 7.77 8.02 8.15 8.31	6.58 7.09 7.35 7.66 7.92 8.04 8.22
28 Over 10 years a State and local no Moody's series	(long-term)	8.98	8.58	8.74	8.93	8.60	8.31	8.33	8.41	8.24	8.44	8.38	8.28
<ul> <li>29 Aaa</li> <li>30 Baa</li> <li>31 Bond Buyer set Corporate bonds Seasoned issue</li> </ul>	ries <sup>16</sup> s <sup>17</sup>	7.36 7.83 7.68	7.00 7.40 7.23	6.96 7.29 7.27	7.23 7.43 7.49	6.75 7.22 7.18	6.63 7.10 7.09	6.57 7.17 7.08	6.60 7.10 7.14	6.63 7.17 7.09	6.63 7.27 7.15	6.51 7.15 7.10	6.51 7.10 7.06
32         All industries           33         Aaa           34         Aa           35         A	y offered utility bonds <sup>18</sup>	10.18 9.71 9.94 10.24 10.83 10.20	9.66 9.26 9.46 9.74 10.18 9.79	9.77 9.32 9.56 9.82 10.36 10.01	10.03 9.53 9.77 10.06 10.74 10.23	9.85 9.30 9.59 9.88 10.62 10.07	9.63 9.05 9.39 9.64 10.43 9.95	9.62 9.04 9.37 9.61 10.45 9.83	9.65 9.04 9.40 9.67 10.47 9.99	9.58 9.02 9.35 9.58 10.40 9.85	9.66 9.05 9.40 9.67 10.51 9.96	9.65 9.08 9.39 9.64 10.51 9.77	9.61 9.05 9.36 9.58 10.44 9.80
Jo FICIENCU SLOCK	ss	9.23 3.64	9.05 3.45	n.a. n.a.	9.10 4.01	8.88 3.91	8.72 3.74	8.71 3.82	8.68 3.74	8.76 3.80	8.67 3.98	8.83 3.92	8.69 3.75

The daily effective federal funds rate is a weighted average of rates on trades through N.Y. brokers.
 Weekly figures are averages of 7 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.
 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.
 An average of dealer offering rates on nationally traded cartificates of the days of the several for the several forther several for the several forther several several several forther several severa

8. An average of dealer offering rates on nationally traded certificates of

8. An average of deate offering facts on nationally deposit.
9. Bid rates for Eurodollar deposits at 11 a.m. London time.
10. One of several base rates used by banks to price short-term business loans.
11. Rate for the Federal Reserve Bank of New York.
12. Auction date for daily data; weekly and monthly averages computed on an invert date basis issue-date basis.

13. Yields on actively traded issues adjusted to constant maturities. Source:

Yields on actively traded issues adjusted to constant maturities. Source:
 U.S. Treasury.
 I. Unweighted average of rates on all outstanding bonds neither due nor callable in less than 10 years, including one very low yielding "flower" bond.
 General obligation based on Thursday figures; Moody's Investors Service.
 General obligations only, with 20 years to maturity, issued by 20 state and local governmental units of mixed quality. Based on figures for Thursday.
 Deally figures from Moody's Investors Service. Based on yields to maturity on selected long-term bonds.
 Compliation of the Federal Reserve. This series is an estimate of the yield on recently-offered, A-rated utility bonds with a 30-year maturity and 5 years of call protection. Weekly data are based on Friday quotations.
 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. Norte. These data also appear in the Board's H.15 (519) and G.13 (415) releases. For address, see inside front cover.

#### 1.36 STOCK MARKET Selected Statistics

							19	90			•	1991
Indicator	1988	1989	1990	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
				Pr	ices and t	rading (av	erages of c	laily figure	es)			
Common stock prices 1 New York Stock Exchange (Dec. 31, 1965 = 50) 2 Industrial 3 Transportation 4 Utility 5 Finance 6 Standard & Poor's Corporation (1941-43 = 10)! 7 American Stock Exchange (Aug. 31, 1973 - 50) <sup>2</sup> Volume of trading (thousands of shares)	149.97 180.83 134.09 72.22 127.41 265.88 295.08	180.13 228.04 174.90 94.33 162.01 323.05 356.67	183.48 225.81 158.64 90.61 133.23 334.63 338.36	191.35 234.85 173.53 93.29 142.94 350.25 353.82	196.68 242.42 177.37 93.65 147.93 360.39 361.62	196.61 245.86 173.18 89.85 143.11 360.03 359.09	181.45 226.73 147.41 85.81 128.14 330.75 333.49	173.22 216.81 136.95 83.30 118.59 315.41 318.53	168.05 208.58 131.99 87.27 108.01 307.12 296.67	172.21 212.81 132.96 89.69 113.76 315.29 294.88	179.57 221.86 141.31 91.56 122.18 328.75 305.54	177.95 220.69 145.89 88.59 121.39 325.49 304.08
8 New York Stock Exchange 9 American Stock Exchange	161,386 9,955	165,568 13,124	156,842 13,155	163,486 14,005	153,634 12,421	160,490 12,529	174,446 15,881	142,054 11,668	159,590 11,294	149,916 10,368	155,836 11,620	166,323 10,870
			Cu	stomer fin	ancing (en	d-of-perio	d balances	, in millio	ns of dolla	urs)		
10 Margin credit at broker-dealers <sup>3</sup>	32,740	34,320	28,210'	31,600	31,720	32,130	30,350	29,640	28,650	27,820	28,210	27,390
Free credit balances at brokers <sup>4</sup> 11 Margin-account <sup>5</sup> 12 Cash-account	5,660 16,595	7,040 18,505	8,050 19,2857	6,215 15,470	6,490 15,625	6,385 17,035	7,140 16,745	7,285 16,185	7,245 15,820	7,300 17,025	8,050 19,285'	7,435 18,825
	Margin requirements (percent of market value and effective date) <sup>6</sup>											
	Mar. 1	1, 1968	June 8	, 1968	May 6	, 1970	Dec. 6	, 1971	Nov. 2	4, 1972	Jan. 3	, 1974
13 Margin stocks 14 Convertible bonds 15 Short sales	70 50 70		8 6 8	Ō	6 5 6	0	55 50 55		65 50 65			0 0 0

1. 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 financial.

Inancial.
Beginning July 5, 1983, the American Stock Exchange rebased its index effectively outling previous readings in half.
Beginning July 1983, under the revised Regulation T, margin credit at broker-dealers includes credit extended against stocks, convertible bonds, and government securities. Separate reporting of data for margin stocks, convertible bonds, and government securities. Separate reporting of data for margin stocks, convertible bonds, and subscription issues was discontinued in April 1984.
Free credit balances are in accounts with no unfulfilled commitments to the brokers and are subject to withdrawal by customers on demand.
These regulations, adopted by the Board of Governors pursuant to the Securities Exchange Act of 1934, limit the amount of credit to purchase and carry

"margin securities" (as defined in the regulations) when such credit is collater-alized by securities. Margin requirements 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 T, 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.

## 1.37 SELECTED FINANCIAL INSTITUTIONS Selected Assets and Liabilities

Millions of dollars, end of period

						<u></u>	19	90				
Account	1988	1989	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.
					S	AIF-insure	d institution	s				
1 Assets	1,350,500	1,249,055	1,225,087	1,223,350	1,210,338	1,197,787	1,174,675	1,162,555	1,157,158	1,124,903	t	t t
2 Mortgages 3 Mortgage-backed securities	764,513 214,587	733,729 170,532	721,450 167,260	717,687 167,683	715,422 166,167	708,550 165,741	691,239 159,173	689,084 158,142	684,975 156,393	665,960 154,190		
4 Contra-assets to mortgage assets <sup>1</sup> , 5 Commercial loans 6 Consumer loans	37,950 33,889 61,922	25,457 32,150 58,685	22,729 31,770 56,821	23,073 31,069 56,805	21,999 30,931 56,639	22,044 30,351 55,659	20,337 28,753 55,171	19,550 28,483 54,661	19,321 27,868 53,381	18,451 26,774 50,512		
<ul> <li>7 Contra-assets to non- mortgage loans<sup>2</sup>.</li> <li>8 Cash and investment</li> </ul>	3,056	3,592	2,27 <del>9</del>	2,476	2,227	1,771	1,980	1,977	2,022	1,957		
securities 9 Other <sup>3</sup>	186,986 129,610	166,053 116,955	157,314 115,480	162,313 113,341	153,346 112,059	152,391 108,910	155,674 106,922	150,400 103,311	153,057 102,827	148,028 99,847	n.a.	n.a.
10 Liabilities and net worth .	1,350,500	1,249,055	1,225,087	1,223,350	1,210,338	1,197,787	1,174,675	1,162,555	1,157,158	1,124,903		
11       Savings capital         12       Borrowed money         13       FHLBB         14       Other         15       Other         16       Net worth		945,656 252,230 124,577 127,653 27,556 23,612	926,439 248,135 120,633 127,502 28,096 22,417	929,910 246,875 117,489 129,386 25,997 20,568	916,069 246,646 115,620 131,026 27,341 20,282	902,653 241,943 114,047 127,896 28,807 24,379	890,497 230,169 109,733 120,436 25,151 28,803	885,272 222,442 106,127 116,315 26,743 28,099	878,730 221,872 105,882 115,990 28,240 28,317	857,686 212,240 101,694 110,546 23,862 31,116		
		L		L	SAIF-	insured fede	eral savings	banks		L4		L
17 Assets	425,966	498,522	581,983	595,644	593,345	570,795	583,392	580,847	584,632	591,136	+	4
18 Mortgages 19 Mortgage-backed	230,734	283,844	330,366	332,995	333,300	317,985	323,516	328,236	328,895	332,927		
20 Contra-assets to mortgage assets <sup>1</sup> .	64,957 13,140	70,499 13,548	77,016	80,059 11,844	81,030 11,590	77,781 10,798	78,001 10,200	80,474 9,227	80,994 9,339	82,418 9,964		
21 Commercial loans 22 Consumer loans 23 Contra-assets to non-	16,731 24,222	18,143 28,212	20,244 20,244	20,366 20,365	20,324 20,324	19,713 32,407	19,683 32,745	18,810 31,003	18,662 31,183	18,767 30,750		
mortgage loans <sup>2</sup> . 24 Finance leases plus	889	1,193	986	1,001	908	707	970	870	813	980		
interest 25 Cash and investment 26 Other	880 61,029 35,412	1,101 64,538 39,981	n.a. 70,054 46,238	n.a. 76,158 46,371	n.a. 72,618 46,180	n.a. 70,999 44,840	n.a. 75,081 47,723	n.a. 71,354 44,150	n.a. 73,756 44,129	n.a. 73,602 46,043	n.a.	n.a.
27 Liabilities and net worth .	425,966	498,522	581,983	595,644	593,345	570,795	583,392	580,847	584,632	591,136		
28       Savings capital         29       Borrowed money         30       FHLBB         31       Other         32       Other         33       Net worth	298,197 99,286 46,265 53,021 8,075 20,218	360,547 108,448 57,032 51,416 9,041 22,716	419,246 124,171 63,026 61,145 10,347 25,723	433,000 126,253 63,550 62,703 9,435 24,169	429,469 126,240 63,120 63,120 9,982 23,505	413,009 123,415 61,057 62,358 10,307 21,138	427,379 121,721 60,666 61,055 8,889 21,944	423,472 118,393 61,287 57,106 9,245 26,424	424,260 120,592 62,209 58,383 10,128 26,420	434,705 119,991 61,605 58,386 8,253 24,859		

#### 1.37-Continued

	1000	1000					19	90				
Account	1988	1989	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.
						Credit	unions <sup>4</sup>				-	
34 Total assets/liabilities and capital	174,593	183,688	186,119	192,718	193,208	195,020	195,302	194,523	196,625	197,272	+	+
5 Federal 6 State	114,566 60,027	120,666 63,022	122,885 63,234	126,690 66,028	127,250 65,958	128,648 66,372	128,142 67,160	127,564 66,959	128,715 67,910	129,086 68,186		
7 Loans outstanding           8 Federal	113,191 73,766 39,425 159,010 104,431	122,608 80,272 42,336 167,371 109,653	121,968 79,715 42,253 168,609 111,246	121,660 79,407 42,253 175,942 115,714	122,616 80,205 42,411 175,745 115,554	123,205 80,550 42,655 176,701 116,402	123,968 81,063 42,905 178,127 116,717	124,343 81,063 43,280 176,360 115,305	126,156 82,040 44,116 178,081 116,411	127,341 82,823 44,518 177,532 115,469	n.a.	n.a.
2 State	54,579	57,718	57,363	60,228	60,191 L	60,299	61,408	61,056	61,670	62,063	•	
3 Assets	+	4	•	1,299,756	+	+	1,376,660	+	•	1,387,463	+	•
Securities         4 Government         5 United States <sup>6</sup> 6 State and local         7 Foreign <sup>7</sup> 8 Business         9 Bonds         0 Stocks         1 Mortgages         2 Real estate         3 Policy loans         4 Other assets	n.a.	n.a.	n.a.	178,141 153,361 9,028 15,752 663,677 538,063 125,614 254,215 39,908 57,439 106,376	n.a.	n.a.	195,287 167,735 10,963 16,589 705,070 570,245 134,825 264,865 44,188 63,144 104,106	n.a.	n.a.	202,962 175,156 11,818 15,988 709,470 588,251 121,219 266,063 44,544 60,641 103,783	n.a.	n.a.

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 loans, contracts, and pass-through securities include loans in process, unearned discounts and deferred loan fees, valuation allowances.
 Contra-assets are credit-balance accounts that must be subtracted from the corresponding gross asset categories to yield net asset levels. Contra-assets to nonmortgage loans include loans in process, unearned discounts and deferred loan fees, and specific reserves and other valuation allowances.
 Contra-assets are credit-balance accounts that must be subtracted from the corresponding gross asset categories to yield net asset levels. Contra-assets to nonmortgage loans include loans in process, unearned discounts and deferred loan fees, and specific reserves and valuation allowances.
 Holding of stock in Federal Home Loan Bank and Finance leases plus interest are included in "Other" (line 9).
 Data re no longer available on a monthly basis for life insurance companies.
 Direct and guaranteed obligations. Excludes federal agency issues not guaranteed, which are shown in the table under "Business" securities.

7. Issues of foreign governments and their subdivisions and bonds of the International Bank for Reconstruction and Development. NOTE. SAIF-insured institutions: Estimates by the OTS for all institutions insured by the SAIF and based on the OTS thrift Financial Report. SAIF-insured Jederal savings banks: Estimates by the OTS for federal savings banks insured by the SAIF and based on the OTS thrift Financial Report. Credit unions: Estimates by the National Credit Union Administration for federally chartered and federally insured state-chartered credit unions serving natural persons.

federally chartered and federally insured state-chartered credit dimons serving natural persons. *Life insurance companies*: Estimates of the American Council of Life Insurance for all life insurance companies in the United States. Annual figures are annual-statement asset values, with bonds carried on an amortized basis and stocks at year-end market value. Adjustments for interest due and accrued and for differences between market and book values are not made on each item separately but are included, in total, in "other assets."

#### 1.38 FEDERAL FISCAL AND FINANCING OPERATIONS

Millions of dollars

		Fiscal year 1989	Fiscal year 1990						
Type of account or operation	Fiscal year 1988					1990			1991
				Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
U.S. budget <sup>1</sup> 1 Receipts, total 2 On-budget 4 Outlays, total 5 On-budget 6 Off-budget 7 Surplus, or deficit (-), total 8 On-budget 9 Off-budget	908,166 666,675 241,491 1,063,318 860,627 202,691 -155,152 -193,952 38,800	990,701 727,035 263,666 1,144,020 933,109 210,911 -153,319 -206,074 52,755	1,031,463 749,809 281,654 1,251,850 1,026,785 225,065 -220,387 -276,976 56,589	78,486 56,284 22,202 131,206 89,717 41,489 -52,719 -33,432 -19,287	102,874 78,542 24,332 82,026 80,613 1,413 20,848 -2,071 22,919	78,711 58,751 19,960 109,995' 91,083' 18,912 -31,285' -32,332' 1,048	72,819 47,843 24,976 120,529' 99,081' 21,448 -47,711' -51,238' 3,528	102,266 82,425 19,841 109,578' 95,046' 14,532 -7,311' -12,620' 5,309	101,802 71,112 30,690 100,042 80,124 19,918 1,760 -9,012 10,772
Source of financing (total) 10 Borrowing from the public	166,139 7,962 3,025	141,806 3,425 8,088	264,453 818 -44,884	47,329 2,433 2,957	-2,595 17,832 -421	32,265 4,720 -5,700 <sup>r</sup>	46,776 12,533 11,598'	19,700 -9,286 -3,103 <sup>r</sup>	31,764 30,627 2,897
MEMO 13 Treasury operating balance (level, end of period) 14 Federal Reserve Banks 15 Tax and loan accounts	44,398 13,023 31,375	40,973 13,452 27,521	40,155 7,638 32,517	22,323 4,453 17,869	40,155 7,638 32,517	35,435 7,607 27,828	22,902 5,495 17,406	32,188 8,960 23,228	62,815 27,810 35,006

In accordance with the Balanced Budget and Emergency Deficit Control Act of 1985, all former off-budget entries are now presented on-budget. The Federal Financing Bank (FFB) activities are now shown as separate accounts under the agencies that use the FFB to finance their programs. The act has also moved two social security trust funds (Federal old-age survivors insurance and Federal disability insurance trust funds) off-budget.
 Includes SDRs; reserve position on the U.S. quota in the IMF; loans to

international monetary fund; other cash and monetary assets; accrued interest payable to the public; allocations of special drawing rights; deposit funds; miscellaneous liability (including checks outstanding) and asset accounts; seigniorage; increment on gold; net gain/loss for U.S. currency valuation adjust-ment; net gain/loss for IMF valuation adjustment; and profit on the sale of gold. Source: Monthly Treasury Statement of Receipts and Outlays of the U.S. Government and the Budget of the U.S. Government.

#### Domestic Financial Statistics April 1991 A28

## 1.39 U.S. BUDGET RECEIPTS AND OUTLAYS<sup>1</sup>

Millions of dollars

						Calendar yea	r		
Source or type	Fiscal year 1989	Fiscal year 1990	19	89	19	90	19	990	1991
			HI	H2	HI	H2	Nov.	Dec.	Jan.
RECEIPTS									Į
1 All sources	990,701	1,031,462	527,574	470,329	548,977	507,513	72,819	102,266	101,802
2 Individual income taxes, net     Withheld     Presidential Election Campaign Fund     Nonwithheld     Refunds     Refunds	445,690 361,386 32 154,839 70,567	466,884 390,480 32 149,189 72,817	233,572 174,230 28 121,563 62,251	218,706 193,296 3 33,303 7,898	243,087 190,219 30 117,675 64,838	230,745 207,469 3 31,728 8,455	27,156 27,505 0 1,606 1,956	46,471 44,560 0 2,605 694	50,882 29,390 0 21,799 308
Corporation income taxes 7 Gross receipts	117,015 13,723	110,017 16,510	61,585 7,259	52,269 6,842	58,830 8,326	54,044 7,603	2,132 837	23,425 902	5,025 1,197
10 Employment taxes and contributions <sup>2</sup>	359,416 332,859	380,047 353,891	200,127 184,569	162,574 152,407	210,476 195,269	178,468 167,224	33,723 31,209	25,480 24,918	39,604 38,472
Self-employment taxes and contributions*           2         Unemployment insurance.           13         Other net receipts*	18,504 22,011 4,546	21,795 21,635 4,522	16,371 13,279 2,277	1,947 7,909 2,260	19,017 12,929 2,278	2,638 8,996 2,249	0 2,098 416	0 217 345	1,795 778 354
14 Excise taxes	34,386 16,334 8,745 22,839	35,345 16,707 11,500 27,470	16,814 7,918 4,583 10,235	16,799 8,667 4,451 13,704	18,153 8,096 6,442 12,222	17,535 8,568 5,333 20,423	2,953 1,354 845 5,494	3,005 1,281 741 2,765	2,931 1,324 906 2,326
OUTLAYS									
18 All types	1,144,020	1,251,850	565,425	587,448	640,982	651,614'	120,529	109,578'	100,042
National defense     International affairs     International affairs     I General science, space, and technology     Energy     Natural resources and environment.     A Agriculture	303,559 9,574 12,838 3,702 16,182 16,948	299,335 13,760 14,420 2,470 17,009 11,998	148,098 6,567 6,238 2,221 7,022 9,619	149,613 5,971 7,091 1,449 9,183 4,132	152,733 6,770 6,974 1,216 7,343 7,450	153,757 8,943 <sup>7</sup> 8,081 979 9,930 6,878	29,868 4,652' 1,231 269 3,103 1,903	26,021 488' 1,486 190 1,138 2,742	21,874 395 1,013 71 1,398 1,516
<ul> <li>25 Commerce and housing credit</li></ul>	29,091 27,608 5,361	67,495 29,495 8,466	4,129 12,953 1,833	22,295 14,982 4,879	38,672 13,754 3,987	37,491 <sup>r</sup> 16,218 3,939	4,276 2,494 1,325	4,597' 2,919 -37	-144 2,658 663
social services	36,694 48,390 317,506	37,479 58,101 346,383	18,083 24,078 162,195	18,663 25,339 162,322	19,537 29,488 175,997	18,988 31,424 176,353	3,120 5,235 29,973	3,863 5,206 29,301	4,045 5,663 30.625
31 Income security	317,506 136,031 30,066	346,383 148,299 29,112	162,195 70,937 14,891	67,950 14,864	78,475	176,353 75,948 15,479	13,758 4.033	13,904	30,625 14,299 962
32 Veterans benefits and services         33 Administration of justice         34 General government         35 General-purpose fiscal assistance         36 Net interest         37 Undistributed offsetting receipts <sup>1</sup>	30,066 9,422 9,124 n.a. 169,317 -37,212	29,112 10,076 10,822 n.a. 183,790 -36,615	14,891 4,801 3,858 0 86,009 -18,131	14,864 4,963 4,760 n.a. 87,927 -18,935	15,217 4,983 4,916 n.a, 91,155 -17,688	15,479 5,397 6,982 n.a. 94,650 ~19,829	4,033 1,050 1,875 n.a. 15,138 -2,775	2,446 860 976 n.a. 16,362 -2,891	962 978 1,071 n.a. 16,064 -3,109

I. Functional details do not add 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.

Deposits of earnings by Federal Reserve Banks and other miscellaneous receipts.
 Net interest function includes interest received by trust funds.
 Consists of rents and royalties on 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 1990.

## 1.40 FEDERAL DEBT SUBJECT TO STATUTORY LIMITATION

#### Billions of dollars

	1988		19	989		1990				
Item	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	
1 Federal debt outstanding	2,707.3	2,763.6	2,824.0	2,881.1	2,975.5	3,081.9	3,175.5	3,266.1	3,397.3 <sup>r</sup>	
2 Public debt securities     3 Held by public     4 Held by agencies	2,684.4 2,095.2 589.2	2,740.9 2,133.4 607.5	2,799.9 2,142.1 657.8	2,857.4 2,180.7 676.7	2,953.0 2,245.2 707.8	3,052.0 2,329.3 722.7	3,143.8 2,368.8 775.0	3,233.3 2,437.6 795.8	3,364.8 n.a. n.a.	
5 Agency securities 6 Held by public	22.9 22.6 .3	22.7 22.3 .4	24.0 23.6 .5	23.7 23.5 .1	22.5 22.4 .1	29.9 29.8 .2	31.7 31.6 .2	32.8 32.6 .2	n.a. n.a. n.a.	
8 Debt subject to statutory limit	2,669.1	2,725.6	2,784.6	2,829.8	2,921.7	2,988.9	3,077.0	3,161.2	3,281.7	
9 Public debt securities 10 Other debt	2,668.9 .2	2,725.5 .2	2,784.3 .2	2,829.5 .3	2,921.4	2,988.6 .3	3,076.6 .4	3,160.9 .4	3,281.3 .4	
11 MEMO: Statutory debt limit	2,800.0	2,800.0	2,800.0	2,870.0	3,122.7	3,122.7	3,122.7	3,195.0	4,145.0	

Includes guaranteed debt of Treasury and other federal agencies, specified participation certificates, notes to international lending organizations, and District of Columbia stadium bonds.

SOURCES. Treasury Bulletin and Monthly Statement of the Public Debt of the United States.

#### 1.41 GROSS PUBLIC DEBT OF U.S. TREASURY Types and Ownership

Billions of dollars, end of period

	1007	1988	1989	1000	1990				
Type and holder	1987	1968	1969	1990	Q1	Q2	Q3	Q4	
i Total gross public debt	2,431.7	2,684.4	2,953.0	3,364.8	3,052.0	3,143.8	3,233.3	3,364.8	
By type         2 Interest-bearing debt .         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 debt .	2,428.9 1,724.7 389.5 1,037.9 282.5 704.2 139.3 4.0 4.0 99.2 461.3 2.8	2,663.1 1,821.3 414.0 1,083.6 308.9 841.8 151.5 6.6 6.6 .0 107.6 575.6 21.3	2,931.8 1,945.4 430.6 1,151.5 986.4 163.3 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 .0 124.1 813.8 2.8	3,029.5 1,995.3 453.1 1,169.4 357.9 1,034.2 163.5 37.1 37.1 37.1 .0 118.0 705.1 22.4	3,121.5 2,028.0 453.5 1,192.7 366.8 1,093.5 164.3 36.4 .0 120.1 758.7 22.3	3,210.9 2,092.8 482.5 1,218.1 377.2 1,118.2 161.3 36.0 .0 122.2 779.4 22.4	3,362.0 2,195.8 527.4 1,265.2 388.2 1,166.2 160.8 43.5 .0 124.1 813.8 2.8	
By holder <sup>4</sup> 15 U.S. government agencies and trust funds         16 Federal Reserve Banks	477.6 222.6 1,731.4 201.5 14.6 104.9 84.6 284.6 101.1 71.3 299.7 569.1	589.2 238.4 1,858.5 193.8 11.8 107.3 87.1 313.6 109.6 79.2 362.2 593.4	707.8 228.4 2,015.8 180.6 14.4 107.9 98.7 337.1 117.7 93.8 393.4 672.5	n.a.	722.7 219.3 2,115.1 182.0 31.3 108.0 102.2 342.0 119.9 95.0 386.9 749.5	775.0 231.4 2,141.8 195.0 28.1 n.a. 112.1 n.a. 121.9 n.a. 392.7 n.a.	795.8 232.5 2,207.3 n.a. n.a. 114.6 n.a. 123.9 n.a. n.a. n.a. n.a.	n.a.	

Includes (not shown separately): Securities issued to the Rural Electrifica-tion Administration; depository bonds, retirement plan bonds, and individual retirement bonds.
 Nonmarketable dollar-denominated and foreign currency-denominated se-ries held by foreigners.
 Held almost entirely by U.S. Treasury agencies and trust funds.
 Data for Federal Reserve Banks and U.S. Treasury agencies and trust funds are actual holdings; data for other groups are Treasury estimates.

5. Consists of investments of foreign and international accounts. Excludes non-interest-bearing notes issued to the International Monetary Fund. 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. Data by type of security, U.S. Treasury Department, Monthly Statement of the Public Debt of the United States; data by holder and the Treasury Bulletin.

#### A30 Domestic Financial Statistics April 1991

#### 1.42 U.S. GOVERNMENT SECURITIES DEALERS Transactions<sup>1</sup>

Millions of dollars, daily averages

		1990			19	90			199	l, week en	ding	
Item	Oct.	Nov.	Dec.	Dec. 5	Dec. 12	Dec. 19	Dec. 26	Jan. 2	Jan. 9	Jan. 16	Jan. 23	Jan. 30
Immediate Transactions <sup>2</sup>												
By type of security U.S. government securities Bills Coupon securities Maturing in less than 3.5 years Maturing in 3.5 to 7.5 years Maturing in 7.5 to 15 years Federal agency securities Debt	31,703 29,840 25,896 11,386 13,365	32,259 33,722 25,249 15,451 15,364	32,387 28,498 24,702 11,161 13,055	27,897 29,207 30,839 13,845 14,837	34,908 <sup>r</sup> 30,842 33,550 15,248 18,638	38,353 34,040 28,773 13,104 15,853	27,373 22,107 12,353 7,169 6,898	31,087 25,299 17,613 5,081 7,568	39,907 40,250 33,281 12,498 17,105	36,908 32,314 27,219 8,466 13,455	37,132 48,320 29,319 12,060 17,415	28,449 32,661 25,534 10,583 13,780
6 Maturing in less than 3.5 years 7 Maturing in 3.5 to 7.5 years 8 Maturing in 7.5 years or more Mortgage-backed	4,397 534 836	4,562 626 605	4,968 509 614 12,308	5,966 672 460	5,203 719 1,064	5,194 583 653	3,811 312 379	5,129 201 344	5,410 544 2,261	4,210 486 1,292	4,459 427 583	4,671 392 505
9 Pass-throughs 10 All others <sup>3</sup>	9,005 1,247	8,646 1,440	1,340	10,428 1,304	14,447 2,263	15,097 1,262	10,793 1,020	8,502 502	15,847 1,128	10,970 1,172	8,615 1,042	9,468 1,106
By type of counterparty         Primary dealers and brokers         11       U.S. government securities         Federal agency         12       Debt securities         13       Mortgage backed securities         14       U.S. government securities         14       U.S. government securities         Federal agency       15         15       Mortgage-backed securities         16       Mortgage-backed securities	70,998 2,007 4,834 41,193 3,760 5,418	74,510 1,900 5,036 47,535 3,894 5,050	66,700 1,842 7,230 43,102 4,248 6,418	72,565 2,163 5,829 44,060 4,934 5,904	82,598 <sup>7</sup> 2,336 8,149 50,588 4,649 8,560	81,552 2,012 8,397 48,570 4,417 7,962	43,555 1,169 7,333 32,344 3,332 4,480	48,160 1,537 4,982 38,487 4,136 4,022	91,380 2,780 8,019 51,661 5,435 8,956	71,471 2,123 6,151 46,891 3,864 5,991	92,219 1,537 5,187 52,026 3,932 4,470	67,754 1,702 5,355 43,253 3,865 5,219
Future and Forward Transactions <sup>4</sup>												
By type of deliverable security         U.S. government securities         17 Bills         Coupon securities         18 Maturing in 15 to 7.5 years         19 Maturing in 7.5 to 15 years         20 Maturing in 7.5 to 15 years         21 Maturing in 5 to 15 years         22 Maturing in 15 years or more         23 Maturing in 15 years or more         24 Maturing in 5 years or more         25 Pass-throughs         26 All others         27 OPTION TRANSACTIONS <sup>5</sup>	3,694 1,306 523 873 8,957 81 53 96 8,427 721	5,402 1,556 797 1,295 10,185 47 57 36 9,025 1,151	4,833 1,093 810 1,037 7,861 113 36 39 6,603 780	7,540 1,384 1,093 1,111 9,472 46 38 41 6,651 1,276	8,577 1,197 1,114 1,249 10,699' 86' 14 62 9,302 917	4,009 1,241 928 1,177 9,377 133 85 32 8,057 791	1,852 934 399 745 4,572 210 26 38 4,226 542	2,228 646 510 864 4,477 30 6 11 3,598 434	7,624 1,669 829 1,100 12,065 26 4 190 12,348 1,369	5,259 1,126 883 871 8,582 116 21 44 11,465 1,034	10,793 1,298 849 795 11,562 72 150 26 9,498 1,268	3,089 1,839 750 532 7,256 320 4 15 5,741 974
By type of underlying securities U.S. government securities 7 Bills	60 715 223 182 2,152	63 661 240 202 2,299	10 650 270 195 1,648	0 574 187 136 1,195	41' 737' 616' 401' 2,028'	0 754 167 201 1,676	0 453 94 100 1,872	0 735 241 62 1,048	58 1,631 84 192 2,580	14 1,112 414 163 3,299	38 920 90 215 3,426	160 715 394 231 2,032
Debt Maturing in less than 3.5 years Maturing in 3.5 to 7.5 years Maturing in 7.5 years or more Mortgage-backed Pass-throughs 6 All others	6 0 0 482	5 0 1 370	1 0 0 382 0	0 0 0 386 0	1 1 0 815 0	2 1 0 277 0	0 0 0 110	0 0 284 0	0 1 1 538	0 1 0 274 0	0 0 331 8	101 0 306 0

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 for transactions are based on the number of trading days in the period. Immediate, forward, and future transactions are reported at principal value, which does not include accrued interest; option transactions are reported at the face value of the underlying securities. Dealers report cumulative transactions for each week ending Wednesday.
 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 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 securities such as CMOs, REMICs; IOs, and POs.
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. government securities and federal agency debt 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. government and federal agency securities.

#### 1.43 U.S. GOVERNMENT SECURITIES DEALERS Positions and Financing<sup>1</sup>

#### Millions of dollars

		1990			1990, we	ek ending			199	1, week en	ding	<u> </u>
Item	Oct.	Nov.	Dec.	Dec. 5	Dec. 12	Dec. 19	Dec. 26	Jan, 2	Jan. 9	Jan. 16	Jan. 23	Jan. 30
		<b>.</b>	L	<b>.</b>	/	Posit	tions <sup>2</sup>	·		L	L	
NET IMMEDIATE <sup>3</sup>												
By type of security U.S. government securities	1.050						10 751	17.000				10.001
Bills     Coupon securities     Maturing in less than 3.5 years     Maturing in 3.5 to 7.5 years     Maturing in 3.5 to 15 years     Maturing in 15 years or more     Federal agency securities     Debt	3,258 -2,016 -5,885 -6,987 -15,377	11,077 3,964 -6,343 -6,674 -10,609	14,443 7,333 -1,780 -7,711 -9,616	11,048 3,813 -2,727 -7,485 -9,725	14,720 4,154 -2,211 -8,021 -8,553	16,256 7,911 -2,160 -8,673 -9,987	12,751 10,434 -1,868 -7,187 -9,599	17,283 10,156 424 -6,890 -10,498	10,781 4,136 902 ~6,831 -13,960	11,211 559 -768 -7,520 -14,961	12,237 5,193 -3,413 -7,441 -13,985	10,004 5,082 -1,857 -8,500 -13,324
6 Maturing in less than 3.5 years 7 Maturing in 3.5 to 7.5 years 8 Maturing in 7.5 years or more Mortuage-backed	4,169 1,737 4,115	4,471 1,662 4,656	3,867 2,135 4,407	4,788 2,285 4,438	3,188 2,091 4,409	4,108 2,183 4,473	4,032 2,143 4,465	3,327 1,968 4,201	3,287 2,046 7,962	5,617 1,821 7,569	3,428 1,824 7,573	3,892 1,975 7,363
9 Pass-throughs 10 All others Other money market instruments	17,886 11,548 <sup>r</sup>	21,001 12,067'	21,431 12,881	18,628 12,560'	22,061 13,518	22,746 13,235	20,680 12,693	22,564 12,076	27,809 11,022	22,343 10,961	21,408 9,988	21,778 10,360
11 Certificates of deposit	2,559 6,423 1,214	1,993 5,995 1,407	2,526 7,132 863	1,927 5,217 1,157	2,850 8,517 879	2,612 6,695 902	2,725 7,816 693	2,271 6,762 732	2,584 6,200 1,072	3,040 6,162 960	3,043 5,759 999	3,189 6,531 1,214
Future and Forward <sup>5</sup>												
By type of deliverable security         U.S. government securities         14 Bills         Coupon securities         15 Maturing in 1.5s than 3.5 years         16 Maturing in 7.5 to 1.5 years         17 Maturing in 7.5 to 15 years or more         18 Maturing in 1.5 years or more         19 Federal agency securities	-17,120 -685 -1,541 -982 -2,256	- 10,671 - 1,605 - 890 - 1,726 - 5,330	-19,084 -1,347 -3,308 -1,000 -5,865	-11,323 -447 -2,406 -1,419 -4,804	17,066 750 2,484 1,847 6,398	-22,043 -1,295 -3,614 -587 -5,390	-21,009 -2,231 -3,851 -456 -6,516	-22,834 -1,919 -4,178 -734 -5,934	-23,447 -1,363 -3,791 -1,270 -5,838	-23,467 -1,688 -3,103 -676 -3,837	-19,460 -2,518 -2,571 -920 -5,764	-18,872 705 -2,867 -937 -6,157
Debt 19 Maturing in less than 3.5 years 20 Maturing in 3.5 to 7.5 years 21 Maturing in 7.5 years or more Mortgage-backed	166 96 118	69 45 -35	189 54 -117	145 -4 -136	282 66 -238	208 45 - 57	149 93 -76	132 51 -67	123 -34 -76	189 -37 -92	225 110 -124	434 10 - 50
22 Pass-throughs	-8,186 -812'	-11,250 -2,604 <sup>r</sup>	-9,587 -2,150	-10,040 -1,679 <sup>r</sup>	-9,847 -2,732	-9,621 -2,825	-8,133 -1,880	-10,757 -1,241	-15,511 -1,100	-10,196 -285	-8,911 31	-9,161 -677
24       Certificates of deposit.         25       Commercial paper.         26       Bankers' acceptances.	86,147 0 0	85,459 0 0	48,860 0 0	55,816 0 0	47,634 0 0	46,620 0 0	49,743 0 0	45,519 0 0	47,017 0 0	61,280 0 0	56,755 0 0	50,752 0 0
		I	L	•		Finar	ncing <sup>6</sup>	<b></b>		(		
Reverse repurchase agreements         27       Overnight and continuing	175,353 226,083 248,211	169,357 224,231 235,064	145,088 211,555 244,723	158,449 215,257 244,003	151,109 217,777 239,361	139,864 218,034 245,899	132,538 216,107 242,359	148,182 183,698 254,613	168,573 214,825 263,060	160,269 230,712 268,767	158,837 226,668 258,038	163,110 225,547 258,273
29 Overnight and continuing     30 Term     Securities borrowed     31 Overnight and continuing	183,745	205,441	176,412 55,446	181,829 53,270	184,766 57,206	182,153 56,689	181,651 54,971	143,930 54,080	183,723 54,913	193,099 53,648	196,142 52,199	195,086 51,965
32 Term Securities lent 33 Overnight and continuing	19,182 5,362'	22,067 5,518'	22,406 6,176	22,313 6,434 <sup>r</sup>	21,488 4,951	22,629 6,474	22,970 6,615	22,685 6,600	23,950 6,773	25,409 6,452	24,576 6,352	24,099 6,196
34 Term. Collateralized loans 35 Overnight and continuing	621 4,421	1,922 4,434	1,206	846 4,790	784 5.715	1,422 6,318	1,936	832 5,736	401	829 5,930	835 6.062	778 6.291
36 Term.	1,101	1,078	890	943	1,061	1,228	695	396	918	779	1,392	1,320
MEMO: Matched book <sup>7</sup> Reverse repurchases 37 Overnight and continuing 8 Term Repurchases	110,533 179,414	105,308 179,011	94,705 168,822	100,604 170,754	100,762 175,527	91,572 174,938	85,221 170,680	97,987 146,342	109,437 179,319	103,973 186,140	104,915 185,169	109,985 183,574
39       Övernight and continuing         40       Term	141,338 142,489	126,078 152,980	123,020 129,305	129,834 135,487	127,199 138,562	118,842 132,258	115,356 130,387	126,933 104,515	145,740 136,971	142,360 139,944	138,640 144,241	142,516 146,257

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 Wednes-day data; monthly figures are averages of weekly data. Data for positions and financing are averages of close-of-business Wednesday data.
 Securities positions are reported at market value.
 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 settle on the issue date of offering. Net immediate positions of mortgage-backed securities include securities such as CMOs, REMICs, IOs, and POs.
 Futures positions are standardized contracts arranged on an exchange. Forward positions areflex made in the over-the-counter market that

specify delayed delivery. All futures positions are included regardless of time to delivery. Forward contracts for U.S. government securities and for federal agency debt securities are included when the time to delivery is more than five business days. Forward contracts for mortgage-backed 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 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 a requirement for 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 listed above. The reverse repurchase and repurchase numbers are not always equal due to the "matching" of securities of different values or types of collateralization.

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## 1.44 FEDERAL AND FEDERALLY SPONSORED CREDIT AGENCIES Debt Outstanding

Millions of dollars, end of period

	1000	1987	1988	1000		<u> </u>	1990		
Agency	1986	1987	1988	1989	Aug.	Sept.	Oct.	Nov.	Dec.
Federal and federally sponsored agencies	307,361	341,386	381,498	411,805	421,554	421,308	431,519	430,842	0
<ul> <li>2 Federal agencies</li> <li>3 Defense Department<sup>1</sup></li> <li>4 Export-Import Bank<sup>2,3</sup></li> <li>5 Federal Housing Administration<sup>4</sup></li> <li>6 Government National Mortgage Association participation</li> </ul>	36,958 33 14,211 138	37,981 13 11,978 183	35,668 8 11,033 150	35,664 7 10,985 328	42,323 7 11,150 316	42,420 7 11,346 357	42,685 7 11,346 382	42,191 7 11,346 387	42,159 7 11,376 393
certificates <sup>3</sup> . 7 Postal Service <sup>6</sup> . 8 Tennessee Valley Authority	2,165 3,104 17,222 85	1,615 6,103 18,089 0	6,142 18,335 0	0 6,445 17,899 0	0 6,948 23,902 0	6,948 23,762 0	0 6,948 24,002 0	0 6,948 23,510 0	6,948 23,435 0
10 Federally sponsored agencies <sup>7</sup> 11 Federal Home Loan Banks         12 Federal Home Loan Mortgage Corporation         13 Federal Home Loan Mortgage Association         14 Farm Credit Banks <sup>3</sup> 15 Student Loan Marketing Association <sup>9</sup> 16 Financing Corporation <sup>10</sup> 17 Farm Credit Banks         18 Resolution Funding Corporation <sup>11</sup> 19 Financing Corporation <sup>12</sup> 10 Financing Corporation <sup>12</sup>	270,553 88,758 13,589 93,563 62,478 12,171 0 0 0	303,405 115,727 17,645 97,057 55,275 16,503 1,200 0 0	345,830 135,836 22,797 105,459 53,127 22,073 5,850 690 0	375,407 136,108' 26,148 116,064 54,864 28,705 8,170 847 4,522	379,231 118,380 27,589 119,248 54,015 32,605 8,170 1,172 18,052	378,388 116,336 27,985 118,826 54,382 33,376 8,170 1,261 18,052	388,834 117,120 29,073 119,775 56,788 33,592 8,170 1,261 23,055	388,651 116,627 30,035 122,257 53,469 33,777 8,170 1,261 23,055	0 117,895 0 123,403 53,590 34,194 8,170 1,261 23,055
Мемо 19 Federal Financing Bank debt <sup>13</sup>	157,510	152,417	142,850	134,873	166,017	173,318	180,538	177,620	179,083
Lending to federal and federally sponsored agencies 20 Export-Import Bank <sup>3</sup> 21 Postal Service <sup>6</sup> 22 Student Loan Marketing Association 23 Tennessee Valley Authority 24 United States Railway Association <sup>6</sup>	14,205 2,854 4,970 15,797 85	11,972 5,853 4,940 16,709 0	11,027 5,892 4,910 16,955 0	10,979 6,195 4,880 16,519 0	11,144 6,698 4,880 14,522 0	11,340 6,698 4,880 14,382 0	11,340 6,698 4,880 14,622 0	11,340 6,698 4,850 14,130 0	11,370 6,698 4,850 14,055 0
Other Lending <sup>14</sup> 25 Farmers Home Administration	65,374 21,680 32,545	59,674 21,191 32,078	58,496 19,246 26,324	53,311 19,265 23,724	52,211 19,043 57,519	52,049 19,042 64,927	52,324 18,966 71,708	52,324 18,968 69,310	52,324 18,890 70,896

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.
 Off-budget Aug. 17, 1974, through Sept. 30, 1976; on-budget thereafter.
 Consists of debentures issued in payment of Federal Housing Administration

Insurance claims. Once issued the securities may be sold privately on the securities market. 5. Certificates of participation issued before fiscal 1969 by the Government National Mortgage Association acting as trustee for the Farmers Home Admin-istration; Department of Health, Education, and Welfare; Department of Housing and Urban Development; Small Business Administration; and the Veterans

and Urban Development; Small Business Administration; and the veterans Administration.
 6. Off-budget.
 7. Includes outstanding noncontingent liabilities: notes, bonds, and deben-tures. Some data are estimated.

8. Excludes borrowing by the Farm Credit Financial Assistance Corporation,

Before late 1981, the Association obtained financing through the Federal Financing Bank (FFB). Borrowing excludes that obtained from the FFB, which is shown on line 21.

10. The Financing Corporation, established in August 1987 to recapitalize the Federal Savings and Loan Insurance Corporation, undertook its first borrowing in

10. The Financing Corporation, extension, 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. Includes FFB purchases of agency assets and guaranteed loans; the latter contain loans guaranteed by smaller. The Farmers Home Administration it merous agencies with the guarantees of any particular agency being generally small. The Farmers Home Administration it merous assets, while the Rural Electrification Administration it methy contains both agency assets and guaranteed loans.
14. The FFB, which began operations in 1974, is authorized to purchase or sell obligations issued, sold, or guaranteed by other federal agencies. Since FFB incurs debt solely for the purpose of lending to other agencies, its debt is not included in the main portion of the table in order to avoid double counting.

## 1.45 NEW SECURITY ISSUES Tax-Exempt State and Local Governments

#### Millions of dollars

Type of issue or issuer,	1988	1989	1990			1991					
or use	1900	1969	1990	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 All issues, new and refunding <sup>1</sup>	114,522	113,646	120,261	13,323	8,513	10,899	13,930	8,434	9,961	12,250	7,230
Type of issue 2 General obligation 3 Revenue	30,312 84,210	35,774 77,873	39,076 81,751	4,124 9,199	2,624 5,889	3,400 7,499	3,763 10,167	3,169 5,265	3,024 6,937	3,536 8,714	2,343 4,887
Type of issuer 4 State	8,830 74,409 31,193	11,819 71,022 30,805	15,148 73,140 32,341	1,090 8,556 3,977	965 5,883 1,666	1,568 6,962 2,369	2,317 8,188 3,425	1,470 4,521 2,530	1,337 5,879 2,745	1,396 7,032 3,822	713 4,563 1,954
7 Issues for new capital, total	79,665	84,062	103,157'	9,842	7,123	9,061	12,713	7,858 <sup>r</sup>	9,058	10,707	6,977
Use of proceeds 8 Education 9 Transportation 10 Utilities and conservation 11 Social welfare 12 Industrial aid 13 Other purposes	15,021 6,825 8,496 19,027 5,624 24,672	15,133 6,870 11,427 16,703 5,036 28,894	16,846 11,635 11,509 23,058 5,876 35,252	1,962 1,340 1,239 1,456 415 3,430	1,413 683 694 1,741 509 2,083	1,345 540 1,002 2,554 700 2,919	1,472 920 687 3,995 674 4,965	1,667 1,060 620 1,153 445 2,913	1,009 727 1,301 1,992 540 4,392	1,418 2,008 776 2,001 933 3,571	1,079 711 1,196 891 607 2,493

Par amounts of long-term issues based on date of sale.
 Includes school districts beginning 1986.

SOURCES. Investment Dealer's Digest beginning April 1990. Securities Data/ Bond Buyer Municipal Data Base beginning 1986. Public Securities Association for earlier data.

#### 1.46 NEW SECURITY ISSUES U.S. Corporations

Millions of dollars

	Type of issue or issuer,	1085	1000	1000				19	990			
	or use	1988	1989	1990	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	All issues <sup>1</sup> ,	410,707'	376,410'	235,059	25,226'	29,157'	19,966'	13,769"	14,917'	20,361′	24,929'	21,089
2	Bonds <sup>2</sup>	352,906'	318,539	n.a.	22,875 <sup>r</sup>	26,284'	17,719	12,961'	14,491'	19,399	23,694'	19,300
3 4 5	Type of offering Public, domestic Private placement, domestic <sup>3</sup> Sold abroad	202,028' 127,700 23,178	181,059 <sup>r</sup> 114,629 22,851 <sup>r</sup>	188,692 n.a. 22,929	19,725 <sup>r</sup> n.a. 3,150	23,073 <sup>r</sup> n.a. 3,211	14,414 <sup>r</sup> n.a. 3,305	11,765 <sup>r</sup> n.a. 1,196	12,582' n.a. 1,909	17,534 <sup>7</sup> n.a. 1,865	22,003 <sup>r</sup> n.a. 1,706 <sup>r</sup>	18,500 n.a. 800
7 8 9 10	Industry group Manufacturing Commercial and miscellaneous Transportation Public utility Communication Real estate and financial	70,569 <sup>7</sup> 62,089 10,075 19,528 5,952 184,692	76,345 49,317' 10,105 17,059 8,503 157,213'	35,187 10,704 4,931 13,758 4,792 142,253	2,580 1,155' 927 1,004 364' 16,845	3,813' 3,135' 1,001 2,561 411 15,364'	1,755 <sup>7</sup> 1,822 <sup>7</sup> 270 703 137 13,031 <sup>7</sup>	854' 234' 500 818' 68' 10,488	2,512' 138' 533 928' 268 10,112'	3,371 <sup>7</sup> 548 <sup>7</sup> 230 <sup>7</sup> 796 <sup>7</sup> 288 <sup>7</sup> 14,166 <sup>7</sup>	6,082' 794' 453' 2,168' 654' 13,542'	2,683 980 349 1,928 1,340 12,020
12	Stocks <sup>2</sup>	57,802	57,870	n.a.	2,351	2,873	2,247	808	426	962	1,235	1,789
	Type         Preferred         Common         Private placement <sup>1</sup>	6,544 35,911 15,346	6,194 26,030 25,647	3,998 19,443 23,439	665 1,686 n.a.	310 2,563 n.a.	350 1,897 n.a.	145 663 n.a.	100 327 n.a.	550 412 n.a.	265 970 n.a.	175 1,614 n.a.
17 18 19 20	Industry group Manufacturing Commercial and miscellaneous Transportation Public utility Communication Real estate and financial	7,608 8,449 1,535 1,898 515 37,798	9,308 7,446 1,929 3,090 1,904 34,028	n.a. 5,026 126 4,229 416 11,055	86 706 22 471 380 686	265 748 21 0 29 1,799	348 507 0 173 0 862	125 251 71 139 0 218	0 172 0 39 0 215	60 194 7 297 0 400	154 42 0 462 0 574	46 110 5 288 6 1,327

Figures which represent gross proceeds of issues maturing in more than one year, are principal amount or number of units multiplied by offering price. Excludes 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.
 Monthly data include only public offerings.

3. Data are not available on a monthly basis. Before 1987, annual totals include

underwritten issues only. Sources. IDD Information Services, Inc., the Board of Governors of the Federal Reserve System, and before 1989, the U.S. Securities and Exchange Commission.

### A34 Domestic Financial Statistics April 1991

## 1.47 OPEN-END INVESTMENT COMPANIES Net Sales and Asset Position

Millions of dollars

······································	1989	1990	1990											
Item	1989	1990	May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.				
Investment Companies <sup>1</sup>														
1 Sales of own shares <sup>2</sup>	306,445	345,780	27,431	28,301	29,444	29,227	23,387	27,511	25,583	34,553				
2 Redemptions of own shares <sup>3</sup> 3 Net sales	272,165 34,280	289,573 56,207	23,337 4,094	23,340 4,961	22,933 6,511	24,837 4,390	21,053 2,334	23,112 4,399	22,085 3,498	29,484 5,069				
4 Assets <sup>4</sup>	553,871	570,744	574,302	582,190	586,526	554,722	535,787	538,306	557,676	570,744				
5 Cash position <sup>5</sup>	44,780 509,091	48,638 522,106	52,741 521,560	49,861 532,329	48,944 537,582	51,103 503,619	51,128 484,659	51,847 486,459	52,829 504,847	48,638 522,106				

Data on sales and redemptions exclude money market mutual funds but include limited maturity municipal bond funds. Data on asset positions exclude both money market mutual funds and limited maturity municipal bond funds.
 Includes reinvestment of investment income dividends. Excludes reinvestment of capital gains distributions and share issue of conversions from one fund the operbarie the norm ensuing.

to another in the same group.

Market value at end of period, less current liabilities.
 Also includes all U.S. government securities and other short-term debt securities.

NOTE. Investment Company Institute data based on reports of members, which comprise substantially all open-end investment companies registered with the Securities and Exchange Commission. Data reflect newly formed companies after their initial offering of securities.

#### 1.48 CORPORATE PROFITS AND THEIR DISTRIBUTION

Billions of dollars; quarterly data are at seasonally adjusted annual rates.

	1000	1989	1990	1988		19	89			1990	
Account	1988		1990	Q4	QI	Q2	Q3	Q4	Qı	Q2	Q3
Corporate profits with inventory valuation and capital consumption adjustment	337.6 316.7 136.2 180.5 110.0 70.5 -27.0 47.8	311.6 307.7 135.1 172.6 123.5 49.1 -21.7 25.5	298.7 307.4 135.0 172.4 133.9 38.6 -13.6 4.9	349.6 331.1 142.1 189.1 115.3 73.8 -22.5 40.9	327.3 335.1 148.3 186.7 119.1 67.6 ~43.0 35.2	321.4 314.6 140.8 173.8 122.1 51.7 -23.1 29.9	306.7 291.4 127.8 163.6 125.0 38.6 -6.1 21.4	290.9 289.8 123.5 166.3 127.7 38.6 -14.5 15.6	296.8 296.9 129.9 167.1 130.3 36.8 11.4 11.3	306.6 299.3 133.1 166.1 133.0 33.2 5 7.7	300.7 318.5 139.1 179.4 135.1 44.3 19.8 2.0

SOURCE. Survey of Current Business (Department of Commerce).

#### 1.50 TOTAL NONFARM BUSINESS EXPENDITURES on New Plant and Equipment A

Billions of dollars; quarterly data are at seasonally adjusted annual rates.

	1989 1990 199			1989 1990							
Industry	1989	1990	1991	Q2	Q3	Q4	QI	Q2	Q3	Q4	Q1
1 Total nonfarm business	507.40	533.91	546.67	502.05	514.95	519.58	532.45	535.49	534.86	532.84	557.92
Manufacturing 2 Durable goods industries 3 Nondurable goods industries	82.56 101.24	83.70 108.60	83.01 110.57	82.44 98.47	83.60 102.40	83.41 108.47	86.35 105.02	84.34 110.82	82.67 111.81	81.42 106.74	82.79 108.28
Nonmanufacturing 4 Mining Transportation	9.21	9.81	9,38	9.24	9.24	9.38	9.58	9.84	9.98	9.84	10.24
5 Railroad 6 Air 7 Other Public utilities	6.26 6.73 5.85	6.30 9.02 6.14	6.62 10.82 6.35	5.81 6.84 5.78	6.36 8.89 5.78	6.80 5.75 5.69	6,45 9,35 6,33	6.66 9.36 5.84	5.60 10.05 5.76	6.48 7.31 6.63	6.22 11.03 6.51
9 Gas and other 10 Commercial and other <sup>2</sup>	44.81 21.47 229.28	43.99 22.97 243.39	45.72 22.16 252.04	46.37 21.72 225.39	44.44 20.75 233.50	44.66 21.15 234.25	43.37 22.34 243.66	42.62 21.65 244.37	43.63 23.85 241.51	46.34 24.05 244.02	47.33 24.43 261.08

▲Trade and services are no longer being reported separately. They are included in Commercial and other, line 10. I. Anticipated by business.

<sup>2. &</sup>quot;Other" consists of construction; wholesale and retail trade; finance and insurance; personal and business services; and communication. SOURCE. Survey of Current Business (Department of Commerce).

## 1.51 DOMESTIC FINANCE COMPANIES Assets and Liabilities<sup>1</sup>

Billions of dollars, end of period

	1005	1007	1987		19	189			1990	
Account	1985	1986	1987	Q1	Q2	Q3	Q4	QI	Q2	Q3
Assets										
Accounts receivable, gross <sup>2</sup> 1 Consumer	111.9 157.5 28.0 297.4	134.7 173.4 32.6 340.6	141.1 207.4 39.5 388.1	139,1 243,3 45,1 427,5	143.9 250.9 47.1 441.9	146.3 246.8 48.7 441.8	140.8 256.0 48.9 445.8	137.9 262.9 52.1 452.8	138.6 274.8 55.4 468.8	140.9 275.4 57.7 474.0
Less: 5 Reserves for uncarned income 6 Reserves for losses	39.2 4.9	41.5 5.8	45.3 6.8	51.0 7.4	52.2 7.5	52.9 7.7	52.0 7.7	51.9 7.9	54.3 8.2	55.1 8.6
7 Accounts receivable, net 8 All other	253.3 45.3	293.3 58.6	336.0 58.3	369.2 75.1	382.2 81.4	381.3 85.2	386.1 91.6	393.0 92.5	406.3 95.5	410.3 102.8
9 Total assets	298.6	351.9	394.2	444.3	463.6	466.4	477.6	485.5	501.9	513.1
LIABILITIES								ļ		)
10 Bank loans 11 Commercial paper Debt	18.0 99.2	18.6 117.8	16.4 128.4	11.3 147.8	12.1 149.0	12.2 147.2	14.5 149.5	13.9 152.9	15.8 152.4	15.6 148.6
12 Other short-term.         13 Long-term         14 Due to parent         15 Not elsewhere classified         16 All other liabilities         17 Capital, surplus, and undivided profits	12.7 94.4 n.a. n.a. 41.5 32.8	17.5 117.5 n.a. n.a. 44.1 36.4	28.0 137.1 n.a. n.a. 52.8 31.5	n.a. n.a. 56.9 133,6 58,1 36,6	n.a. n.a. 59,8 140,5 63,5 38,8	n.a. n.a. 60.3 145.1 61.8 39.8	n.a. n.a. 63.8 147.8 62.6 39.4	n.a. n.a. 70.5 145.7 61.7 40.7	n.a. n.a. 72.8 153.0 66.1 41.8	n.a, n.a, 82.0 156.6 68.7 41.6
18 Total liabilities and capital	298.6	351.9	394.2	444.3	463.6	466.4	477.6	485.5	501.9	513.1

1. Components may not add to totals because of rounding.

2. Excludes pools of securitized assets.

## 1.52 DOMESTIC FINANCE COMPANIES Business Credit Outstanding and Net Change<sup>1</sup>

Millions of dollars, seasonally adjusted

Туре	1988	1989	1990			19	90		
1 урс	1900	1969	1990	Juty	Aug.	Sept.	Oct.	Nov.	Dec.
1 Total	234,578	258,504	291,694	277,616	283,043	285,654	287,921	287,819	291,694
Retail financing of installment sales         2       Automotive         3       Equipment         4       Pools of securitized assets <sup>2</sup> Wholesale       Wholesale	36,957 28,199 n.a.	39,139 29,674 698	37,771 31,991 951	38,931 30,623 800	38,610 30,707 987	38,470 30,607 946	39,150 30,487 902	38,600 30,729 927	37,771 31,991 951
5 Automotive 6 Equipment 7 All other 8 Pools of securitized assets <sup>2</sup>	32,357 5,954 9,312 n.a.	33,074 6,896 9,918 0	33,247 11,346 9,309 415	33,158 9,929 9,722 0	34,429 9,812 9,707 650	37,082 9,791 9,597 863	35,258 10,698 9,477 679	33,111 10,847 9,447 649	33,247 11,346 9,309 415
Leasing 9 Automotive 10 Equipment 11 Pools of securifized assets <sup>2</sup> 12 Loans on commercial accounts receivable and factored	24,875 57,658 n.a.	27,074 68,112 1,247	39,317 76,594 1,849	30,210 76,316 1,760	30,942 78,714 1,703	30,453 79,158 1,655	31,303 80,833 1,724	31,601 81,427 1,884	39,317 76,594 1,849
commercial accounts receivable	18,103 21,162	19,081 23,590	22,037 26,867	20,077 26,089	19,974 26,809	20,538 26,495	20,740 26,670	21,652 26,944	22,037 26,867
				Net cha	inge (during	period)			
14 Total	22,434	22,580	30,973	3,830	5,427	2,611	2,267	101	3,875
Retail financing of installment sales 15 Automotive 16 Equipment 17 Pools of securitized assets <sup>2</sup> Wholesale	819 1,386 n.a.	2,182 1,475 -26	-1,368 2,319 253	785 132 158	321 84 187	141 100 41	680 - 120 - 44	549 243 25	-829 1,262 24
Automotive	2,288 377 983 n.a.	716 940 605 0	173 2,231 -608 415	1,343 434 -321 0	1,271 -118 -16 650	2,653 -21 -110 213	~1,823 907 -120 -184	-2,147 149 -29 -30	135 499 138 234
2 Automotive 2 Automotive 2 Equipment 2 E	2,777 9,752 n.a.	2,201 9,187 526	12,243 8,483 602	636 1,400 213	731 2,398 57	~488 444 48	850 1,675 69	298 594 160	7,716 -4,833 -35
25 Loans of commercial accounts receivable and factored commercial accounts receivable	-65 4,119	979 3,796	2,954 3,278	208 412	-103 721	564 -314	202 175	912 273	384 -76

1. These data also appear in the Board's G.20 (422) release. For address, see inside front cover.

2. Data on pools of securitized assets are not seasonally adjusted.

#### 1.53 MORTGAGE MARKETS

Millions of dollars; exceptions noted.

· · · · · · · · · · · · · · · · · · ·						19	90			1991
ltem	1988	1989	1990	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			Ter	ms and yiel	lds in prima	ary and seco	ondary mar	kets		
PRIMARY MARKETS										
Conventional mortgages on new homes		1		i		1	i			
Purchase price (thousands of dollars).     Amount of loan (thousands of dollars).     Loan/price ratio (percent).     Maturity (years).     Fees and charges (percent of loan amount) <sup>2</sup> .     Contract rate (percent per year).	150.0 110.5 75.5 28.0 2.19 8.81	159.6 117.0 74.5 28.1 2.06 9.76	153.2 112.4 74.8 27.3 1.93 9.68	163.5 120.9 75.3 28.0 1.93 9.75	161.5 118.3 74.5 27.2 2.07 9.75	156.6 114.8 74.7 27.2 1.78 9.60	146.1 105.1 73.5 26.9 1.80 9.68	151.5 111.2 75.0 27.1 1.68 9.61	156.3 115.4 74.9 28.6 1.85 9.45	148.3 112.3 77.2 28.1 1.75 9.36
Yield (percent per year) 7 OTS series <sup>3</sup> 8 HUD series <sup>4</sup>	9.18 10.30	10.11 10.21	10.01 10.08	10.08 9.94	10.11 10.12	9.90 10.18	9.98 10.11	9.90 9.86	9.76 9.66	9.65 9.53
SECONDARY MARKETS			]							
Yield (percent per year) 9 FHA mortgages (HUD series) <sup>5</sup> 10 GNMA securities <sup>6</sup>	10.49 9.83	10.24 9.71	10.17 9.51'	10.11 9.48	10.28 9.59	10.24 9.65	10.23 9.66	9.81 9.46	9.66 9.08	9.58 8.87
				Act	ivity in sec	ondary mar	kets			
Federal National Mortgage Association										
Mortgage holdings (end of period) 11 Total 12 FHA/VA-insured 13 Conventional	101,329 19,762 81,567	104,974 19,640 85,335	113,329 21,028 92,302	113,378 21,059 92,319	113,507 21,101 92,406	113,718 21,364 92,354	114,216 21,495 92,721	115,085 21,530 93,555	116,628 21,751 94,877	117,445 21,854 95,591
Mortgage transactions (during period) 14 Purchases	23,110	22,518	23,959	2,304	2,134	2,123	2,077	2,078	2,410	1,781
Mortgage commitments <sup>7</sup> 15 Issued (during period) <sup>8</sup> 16 To sell (during period) <sup>9</sup>	n.a. n.a.	n.a. n.a.	n.a. n.a.	2,215 874	2,302 761	2,073 644	1,849 92	2,426 0	2,104 0	1,889 0
FEDERAL HOME LOAN MORTGAGE CORPORATION										
Mortgage holdings (end of period) <sup>9</sup> 17 Total 18 FHA/VA. 19 Conventional	15,105 620 14,485	20,105 590 19,516	n.a. n.a. n.a.	20,127 546 19,581	20,564 541 20,023	20,508 536 19,972	20,790 530 20,260	n.a. n.a. n.a.	n.a. n.a. n.a.	n.a. n.a. n.a.
Mortgage transactions (during period) 20 Purchases	44,077 39,780	78,588 73,446	n.a. 68,383	4,527 4,248	5,417 4,808	5,798 5,707	6,118 5,734	n.a. 5,280	n.a. 5,519	n.a. 4,507
Mortgage commitments <sup>10</sup> 22 Contracted (during period)	66,026	88,519	n.a.	5,851	5,646	6,643	10,972	n.a.	n.a.	n.a.

Weighted averages based on sample surveys of mortgages originated by major institutional lender groups; compiled by the Federal Home Loan Bank Board in cooperation with the Federal Deposit Insurance Corporation.
 Includes all fees, commissions, discounts, and "points" paid (by the borrower or the seller) to obtain a loan.
 Average effective interest rates on loans closed, assuming prepayment at the end of 10 years.
 Average contract rates on new commitments for conventional first mort-gages; from Department of Housing and Urban Development.
 Average gross yields on 30-year, minimum-downpayment, Federal Housing Administration-insured first mortgages for immediate delivery in the private secondary market. Based on transactions on first day of subsequent month. Large monthly movements in average yields may reflect market adjustments to changes in maximum permissable contract rates.
 Average net yields to investors on Government National Mortgage Asso-

ciation guaranteed, mortgage-backed, fully modified pass-through securities, assuming prepayment in 12 years on pools of 30-year FHA/VA mortgages 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 1- to 4-family loan commitments accepted in 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. 9. Includes participation as well as whole loans. 10. Includes conventional and government-underwritten loans. FHLMC's mortgage commitments and mortgage transactions include activity under mortgage/ securities swap programs, while the corresponding data for FNMA exclude swap activity.

activity.

#### 1.54 MORTGAGE DEBT OUTSTANDING<sup>1</sup>

Millions of dollars, end of period

_		1007	1000	1000	19	89		1990	
	Type of holder, and type of property	1987	1988	1989	Q3	Q4	QI	Q2	Q3 <sup>µ</sup>
1	All holders	2,971,019	3,264,348	3,538,305	3,472,516	3,538,305	3,599,880	3,666,728	3,726,071
2 3 4 5	I- to 4-family Multifamily Commercial Farm	1,958,400 272,500 651,323 88,797	2,186,292 289,128 702,113 86,816	2,404,272 304,068 744,626 85,339	2,347,563 301,160 737,484 86,309	2,404,272 304,068 744,626 85,339	2,449,981 308,865 756,323 84,710	2,512,799 307,683 761,698 84,548	2,569,327 307,631 764,933 84,180
6 7 8 9 10 11	Commercial banks <sup>2</sup> I- to 4-family Multifamily Commercial	1,657,937 592,449 275,613 32,756 269,648 14,432	1,826,668 669,237 317,585 33,158 302,989 15,505	1,918,938 763,415 368,518 37,996 340,204 16,697	1,914,074 742,442 355,096 37,201 333,606 16,539	1,918,938 763,415 368,518 37,996 340,204 16,697	1,924,626 783,379 376,306 39,127 351,135 16,811	1,925,053 811,174 395,082 39,172 359,747 17,173	1,917,435 826,721 403,142 39,971 366,085 17,523
12 13 14 15 16 17 18 19 20 21 22	I - tō 4-family Multifamily Commercial Farm Lífe insurance companies I - to 4-family Multifamily Commercial	860,467 602,408 106,359 150,943 757 205,021 12,676 21,644 160,874 9,828 29,716	924,606 671,722 110,775 141,433 676 232,825 15,299 23,583 184,273 9,671 37,846	910,254 669,220 106,014 134,370 650 245,269 13,812 27,174 194,722 9,561 45,476	932,373 683,148 108,447 140,096 682 239,259 13,275 26,351 190,003 9,630 43,157	910,254 669,220 106,014 134,370 245,269 13,812 27,174 194,722 9,561 45,476	891.921 658,405 103,841 129,056 619 249,326 14,158 28,161 197,472 9,535 45,808	860,540 641,864 97,314 120,795 567 253,339 14,560 29,247 199,990 9,542 47,104	835,219 627,758 92,479 114,428 554 255,496 15,038 30,207 200,714 9,537 48,531
23 24 25 26 27 28 29 30 31	I- to 4-family. Muhifamily. Farmers Home Administration <sup>5</sup>	192,721 444 25 419 43,051 18,169 8,044 6,603 10,235	200,570 26 0 42,018 18,347 8,513 5,343 9,815	209,498 23 0 41,176 18,422 9,054 4,443 9,257	205,809 24 24 0 41,117 18,405 8,916 4,366 9,430	209,498 23 0 41,176 18,422 9,054 4,443 9,257	216,146 22 22 0 41,125 18,419 9,199 4,510 8,997	228,362 21 21 0 41,175 18,434 9,361 4,545 8,835	237,497 20 0 41,330 18,445 9,513 4,732 8,641
32 33 34 35 36 37 38 39 40 41 42 43	Federal Housing and Veterans Administration I - to 4-family Multifamily Federal National Mortgage Association I - to 4-family Multifamily Federal Land Banks I - to 4-family Farm Federal Home Loan Mortgage Corporation I - to 4-family Multifamily	5,574 2,557 3,017 96,649 89,666 6,983 34,131 2,008 32,123 12,872 11,430 1,442	5,973 2,672 3,301 103,013 95,833 7,180 32,115 1,890 30,225 17,425 15,077 2,348	6,087 2,875 3,212 110,721 102,295 8,426 29,640 1,210 28,430 21,851 18,248 3,603	6,023 2,900 3,123 107,052 99,168 7,884 30,943 1,821 29,122 20,650 17,659 2,992	6,087 2,875 3,212 110,721 102,295 8,426 29,640 1,210 28,430 21,851 18,248 3,603	6,355 3,027 3,328 112,353 103,300 9,053 29,325 1,197 28,128 19,823 16,772 3,051	6,792 3,054 3,738 112,855 103,431 9,424 29,595 1,741 27,854 19,979 17,316 2,663	6,912 3,121 3,790 114,828 105,466 9,362 29,212 1,782 27,430 19,994 17,320 2,674
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Mortgage pools or trusts <sup>6</sup> Government National Mortgage Association         1 - to 4-family         Multifamily         Federal Home Loan Mortgage Corporation         1 - to 4-family         Multifamily         Federal National Mortgage Association         1 - to 4-family         Multifamily         Federal National Mortgage Association         1 - to 4-family         Multifamily         Farmers Home Administration <sup>3</sup> 1 - to 4-family         Multifamily         Commercial         Farm	718,297 317,555 309,806 7,749 212,634 205,977 6,657 139,960 137,988 1,972 245 121 0 63 61	810,887 340,527 331,257 9,270 226,406 219,988 6,418 178,250 172,331 5,919 104 26 0 38 40	942,432 368,367 358,142 10,225 272,870 266,060 6,810 228,232 219,577 8,655 80 21 0 26 33	898,241 360,097 349,838 10,259 257,938 251,232 6,706 208,894 200,302 8,592 202,894 200,302 8,592 202,00 205,0000 205,0000 205,0000 205,0000000000	942,432 368,367 358,142 10,225 272,870 266,060 6,810 228,232 219,577 8,655 80 21 0 228,232 219,577	979,936 376,962 366,300 10,662 281,736 274,084 7,652 246,391 237,916 8,475 20 0 0 25 31	1,020,293 385,456 374,960 10,496 295,340 287,232 8,108 263,330 254,811 8,519 72 19 0 24 30	1,064,675 393,879 383,532 10,347 309,415 300,931 8,484 283,415 274,675 8,740 70 18 0 24 28
59 60 61 62 63	Individuals and others <sup>7</sup> I- to 4-family Multifamily Commercial Farm	402,064 242,053 75,458 63,192 21,361	426,223 258,639 78,663 68,037 20,884	467,438 292,967 82,899 70,861 20,711	454,392 283,445 80,689 69,387 20,871	467,438 292,967 82,899 70,861 20,711	479,172 301,573 84,873 72,136 20,589	493,021 312,670 86,935 72,868 20,548	506,464 324,020 88,264 73,713 20,467

Based on data from various institutional and governmental sources, with 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 bank trust departments.
 Includes savings banks and savings and loan associations. Beginning 1987:1, data reported by FSLIC-insured institutions include loans in process and other contra assets (credit balance accounts that must be subtracted from the corre-sponding gross asset categories to yield net asset levels).
 Assumed to be entirely 1- to 4-family loans.

Farmers Home Administration-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 pools backing securities insured or guaranteed by the agency indicated. Includes private pools which are not shown as a separate line item.
 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 other U.S. agencies.

## 1.55 CONSUMER INSTALLMENT CREDIT<sup>1</sup> Total Outstanding, and Net Change, seasonally adjusted

Millions of dollars, amounts outstanding, end of period

	10.00						1990	· · · · · · · · · · · · · · · · · · ·	·					
Holder, and type of credit	1989	1990	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov."	Dec.			
					Sea	sonally adju	sted							
1 Total	716,624	737,910	720,835	724,485	724,601	729,329	732,385	735,222	736,595	739,357	737,910			
2 Automobile 3 Revolving 4 Mobile home 5 Other	290,770 197,110 22,343 206,401	285,269 218,531 21,730 212,380	288,936 203,965 22,702 205,232	288,931 207,153 22,815 205,585	287,168 208,362 22,733 206,338	286,791 212,138 22,795 207,605	285,283 214,492 22,976 209,635	285,261 216,804 22,672 210,484	284,402 218,381 22,491 211,320	284,483 219,757 22,518 212,599	285,269 218,531 21,730 212,380			
		Not seasonally adjusted												
6 Total	727,561	749,852	715,801	720,045	722,953	727,196	734,511	737,260	737,252	740,346	749,852			
By major holder 7 Commercial banks 8 Finance companies	343,865 140,832 90,875 42,638 57,228 3,935 48,188	351,198 135,641 91,203 42,111 49,594 4,747 75,358	337,576 138,174 89,689 37,207 53,606 3,928 55,621	339,328 138,384 89,913 37,347 53,301 4,024 57,748	335,998 138,642 90,137 37,382 52,902 4,192 63,700	339,124 138,796 90,631 36,804 52,503 4,396 64,942	342,987 139,496 91,306 37,231 52,399 4,722 66,370	344,941 140,890 91,311 36,682 51,358 4,723 67,355	344,875 141,329 91,406 36,047 50,787 4,718 68,090 <sup>r</sup>	346,128 139,195 91,174 37,470 50,310 4,701 71,368	351,198 135,641 91,203 42,111 49,594 4,747 75,358			
By major type of credit <sup>3</sup> 14 Automobile           15 Commercial banks           16 Finance companies           17 Pools of securitized assets <sup>2</sup>	290,421 126,613 82,721 18,191	284,841 133,687 74,396 24,198	286,220 126,483 79,295 19,406	287,140 127,056 78,927 20,151	287,254 126,988 78,273 21,043	287,479 126,986 77,716 21,692	288,221 128,079 77,205 21,562	289,255 128,937 78,116 21,239	287,730 128,133 78,033 20,786	285,877 127,039 75,224 23,159	284,841 133,687 74,396 24,198			
18 Revolving         19 Commercial banks         20 Retailers         21 Gasoline companies         22 Pools of securitized assets <sup>2</sup>	208,188 130,956 37,967 3,935 22,977	230,769 133,687 37,535 4,747 43,808	201,783 124,039 32,721 3,928 29,403	204,854 125,433 32,857 4,024 30,913	206,820 122,116 32,884 4,192 36,076	209,582 124,569 32,325 4,396 36,786	213,119 125,967 32,735 4,722 38,194	214,853 126,995 32,212 4,723 39,606	216,285 127,950 31,601 4,718 40,798	219,713 129,111 32,993 4,701 41,797	230,769 133,687 37,535 4,747 43,808			
23 Mobile home         24 Commercial banks         25 Finance companies	22,283 9,155 4,716	21,671 10,048 3,756	22,484 9,231 5,168	22,610 9,295 5,224	22,644 9,296 5,266	22,873 9,443 5,328	23,033 9,541 5,358	22,815 9,396 5,423	22,720 9,363 5,400	22,646 9,351 5,364	21,671 10,048 3,756			
26 Other.         27 Commercial banks         28 Finance companies.         29 Retailers         30 Pools of securitized assets <sup>2</sup>	206,669 77,141 53,395 4,671 7,020	212,571 81,413 57,488 4,576 7,352	205,314 77,823 53,711 4,486 6,812	205,441 77,544 54,233 4,490 6,684	206,235 77,598 55,103 4,498 6,581	207,252 78,126 55,752 4,479 6,464	210,138 79,400 56,933 4,496 6,614	210,337 79,613 57,351 4,470 6,510	210,517 79,429 57,896 4,446 6,506	212,110 80,627 58,607 4,477 6,412	212,571 81,413 57,488 4,576 7,352			

1. The Board's series cover 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. These data also appear in the Board's G.19 (421) release. For 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.

## 1.56 TERMS OF CONSUMER INSTALLMENT CREDIT<sup>1</sup>

Percent unless noted otherwise

		1989	1989 1990		<u></u>		1990			<u> </u>
Item	1988	1989		June	July	Aug.	Sept.	Oct.	Nov.	Dec.
INTEREST RATES										
Commercial banks <sup>2</sup> 1 48-month new car <sup>3</sup> 2 4-month personal 3 120-month mobile home <sup>3</sup> 4 Credit card Auto finance companies	10.85 14.68 13.54 17.78	12.07 15.44 14.11 18.02	11.78 15.46 14.02 18.17	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	11.89 15.46 14.09 18.18	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	11.62 15.69 13.99 18.23	n.a. n.a. n.a. n.a.
5 New car 6 Used car Other Terms <sup>4</sup>	12.60 15.11	12.62 16.18	12.54 15.99	12.58 16.00	12.68 15.96	12.62 15.98	12.34 16.03	12.57 16.12	12.74 16.07	12.86 16.04
			{	1				1		
Maturity (months) 7 New car	56.2 46.7	54.2 46.6	54.6 46.1	54.8 46.2	54.9 46.2	54.8 46.2	54.3 46.1	54.6 46.1	54.6 46.0	54.7 45.8
9 New car 10 Used car Amount financed (dollars)	94 98	91 97	87 95	87 95	86 96	86 96	85 95	85 95	85 95	85 94
11     New car       12     Used car	11,663 7,824	12,001 7,954	12,071 8,289	12,108 8,296	12,125 8,401	11,939 8,415	11,837 8,403	11,917 8,423	11,986 8,494	12,140 8,530

These data also appear in the Board's G.19 (421) release. For address, see inside front cover.
 Data for midmonth of quarter only.

Before 1983 the maturity for new car loans was 36 months, and for mobile home loans was 84 months.
 At auto finance companies.

# A40 Domestic Financial Statistics 🗆 April 1991

## 1.57 FUNDS RAISED IN U.S. CREDIT MARKETS

Billions of dollars; quarterly data are at seasonally adjusted annual rates.

				1007	4000	4000		- 19	189			1990	
	Transaction category, sector	1985	1986	1987	1988	1989	Q1	Q2	Q3	Q4	Q1	Q2	Q3
						ו	Nonfinanc	ial sector	·s				
1	Total net borrowing by domestic nonfinancial sectors	848.1	836.9	687.0	760.8	678.2	746.9	666.8	678.8	620.2	762.1	624.6	708.6
2 3 4	By sector and instrument U.S. government Treasury securities. Agency issues and mortgages	223.6 223.7 1	215.0 214.7 .4	144.9 143.4 1.5	157.5 140.0 17.4	151.6 150.0 1.6	147.3 148.5 -1.2	100.1 95.0 5.1	173.9 166.8 7.1	185.0 189.6 -4.6	247.6 218.1 29.6	228.7 223.4 5.4	286.7 288.0 -1.3
5 6 7 8 9 10 11 12 13	Private domestic nonfinancial sectors Debt capital instruments Tax-exempt obligations Corporate bonds Mortgages Home mortgages Multifamily residential Commercial Farm	624.5 451.2 135.4 73.5 242.2 156.8 29.8 62.2 ~6.6	621.9 465.8 22.7 126.8 316.3 218.7 33.5 73.6 -9.5	542.1 453.2 49.3 79.4 324.5 234.9 24.4 71.6 -6.4	603.3 459.2 49.8 102.9 306.5 231.0 16.7 60.8 -2.1	526.6 379.8 30.4 73.7 275.7 218.0 16.4 42.7 -1.5	599.6 412.8 39.7 58.2 314.9 225.5 23.1 68.6 -2.3	566.7 390.1 28.7 86.5 275.0 211.3 21.4 41.5 .9	504.9 369.2 34.1 62.7 272.4 221.0 11.8 40.9 -1.3	435.2 347.0 19.1 87.4 240.5 214.3 9.5 19.9 -3.2	514.5 366.2 13.0 44.6 308.6 237.3 21.9 50.7 -1.4	395.8 331.4 21.9 66.9 242.7 225.4 -4.3 24.6 -3.0	422.0 294.0 25.9 38.1 230.0 207.9 .0 23.0 9
14 15 16 17 18	Other debt instruments	173.3 82.5 40.6 14.6 35.6	156.1 58.0 66.9 -9.3 40.5	88.9 33.5 10.0 2.3 43.2	144.1 50.2 39.8 11.9 42.2	146.8 39.1 39.9 20.4 47.4	186.8 38.2 55.9 32.3 60.4	176.5 36.9 45.1 39.5 55.0	135.6 37.1 50.8 16.9 30.9	88.2 44.1 7.7 -6.9 43.3	148.3 14.6 19.6 69.7 44.4	64.4 9.8 6.5 -6.0 54.1	128.0 27.7 10.5 17.5 72.2
19 20 21 22 23 24 25	By borrowing sector . State and local governments Households . Nonfinancial business Farm Nonfarm noncorporate Corporate .	624.5 90.9 284.5 249.1 - 14.5 129.3 134.3	621.9 36.2 293.0 292.7 -16.3 99.2 209.7	542.1 48.8 302.2 191.0 10.6 77.9 123.7	603.3 45.6 314.9 242.8 -7.5 65.7 184.6	526.6 29.6 285.0 211.9 1.6 50.8 159.5	599.6 40.1 293.4 266.1 4.7 71.0 190.3	566.7 33.3 264.0 269.4 -5.0 56.9 217.4	504.9 28.6 290.8 185.4 -2.1 40.2 147.3	435.2 16.5 291.8 126.9 8.9 35.0 83.1	514.5 9.0 300.0 205.4 4.3 38.4 162.8	395.8 14.9 270.2 110.7 -6.1 25.5 91.3	422.0 20.5 283.4 118.1 3.9 24.3 89.9
27 28 29 30	Foreign net borrowing in United States Bonds Bank loans n.e.c. Open market paper U.S. government loans	1.2 3.8 -2.8 6.2 -6.0	9.7 3.1 -1.0 11.5 -3.9	4.5 7.4 -3.6 2.1 -1.4	6.3 6.9 -1.8 8.7 -7.5	10.9 5.3 1 13.3 -7.5	3.2 2.5 3.2 16.9 -19.4	-6.9 11.5 -3.2 -6.6 -8.7	30.4 8.1 3.7 20.7 -2.1	16.9 -1.0 -4.3 22.2 .1	-3.5 28.3 -6.7 -16.5 -8.6	41.1 27.0 -2.1 23.0 -6.9	26.3 1.6 2.7 27.3 -5.3
31	Total domestic plus foreign	849.3	846.6	691,5	767.1	689.1	750.1	659.9	709.2	637.1	758.6	665.7	734.9
				1			Financia			1	1		1
32	Total net borrowing by financial sectors By instrument	201.3	285.1	300.2	247.6	205.5	356.6	154.1	123.9	187.3	198.5	172.5	214.3
33 34 35 36		101.5 20.6 79.9 1.1	154.1 15.2 139.2 4	171.8 30.2 142.3 8	119.8 44.9 74.9 .0	151.0 25.2 125.8 .0	194.0 70.0 124.0 .0	128.8 22.5 106.3 .0	124.8 13.2 111.6 .0	156.4 -4.7 161.1 .0	176.2 14.5 161.7 .0	183.7 17.3 166.4 .0	167.4 17.9 149.4 .0
37 38 39 40 41 42	Private financial sectors Corporate bonds Mortgages. Bank loans n.e.c. Open market paper. Loans from Federal Home Loan Banks	99.7 50.9 .1 2.6 32.0 14.2	131.0 82.9 .1 4.0 24.2 19.8	128.4 78.9 .4 -3.2 27.9 24.4	127.8 51.7 .3 1.4 54.8 19.7	54.5 36.8 .0 1.8 26.9 -11.0	162.6 52.3 .3 1.0 50.1 58.9	25.3 28.5 .0 1 10.1 -13.1	9 26.7 .3 2.0 11.0 -41.0	30.9 39.6 4 4.2 36.3 -48.8	22.3 37.7 7 -2.2 9.4 -21.8	-11.2 64.1 .8 ~.7 -44.7 -30.7	46.9 39.5 -1.4 1.7 37.3 -30.3
43	By sector Total	201.3	285.1	300.2	247.6	205.5	356,6	154.1	123.9	187.3	198.5	172.5	214.3
44 45 46 47 48 49 50 51 52 53	Sponsored credit agencies Mortgage pools Private financial sectors Commercial banks Bank affiliates Savings and Ioan associations Mutual savings banks Finance companies. REITs SCO Issuers	21.7 79.9 99.7 -4.9 16.6 17.3 1.5 57.7 1 11.5	14.9 139.2 131.0 -3.6 15.2 20.9 4.2 54.7 .8 39.0	29.5 142.3 128.4 6.2 14.3 19.6 8.1 40.8 .3 39.1	44.9 74.9 127.8 -3.0 5.2 19.9 1.9 67.7 3.5 32.5	$\begin{array}{c} 25.2\\ 125.8\\ 54.5\\ -1.4\\ 6.2\\ -14.1\\ -1.4\\ 46.3\\ -1.9\\ 20.8\end{array}$	70.0 124.0 162.6 -11.1 9.4 60.8 -4.1 68.8 -1.8 40.6	22.5 106.3 25.3 2.5 2.9 -16.3 .0 40.4 -2.8 -1.4	13.2 111.6 9 3.5 16.5 -44.7 -2.3 23.5 -3.1 5.7	-4.7 161.1 30.9 7 -3.9 -56.2 .7 52.6 .1 38.2	14.5 161.7 22.3 -4.9 -12.8 -15.8 -15.8 -8.3 29.8 5 34.7	17.3 166.4 -11.2 -7.9 -32.6 -52.7 5.9 27.8 -2.0 50.3	17.9 149.4 46.9 -14.4 -22.7 -38.0 1.2 87.1 -1.5 35.3

#### 1.57-Continued

Transaction category, sector	1985	1986	1987	1988	1989		19	189			1990	
Transaction caregory, sector	1965	1960	1907	1966	1709	Q1	Q2	Q3	Q4	QI	Q2	Q3
						All se	ectors					
54 Total net borrowing	1,050.6	1,131.7	991.7	1,014.7	894.5	1,106.7	814.0	833.0	824.4	957.1	838.2	949.2
55       U.S. government securities         56       State and local obligations         57       Corporate and foreign bonds         58       Mortgages         59       Consumer credit         59       Bank loans n.e.c.         51       Open market paper         62       Other loans         63       MEMO: U.S. government, cash balance         Totals net of changes in U.S. government cash balances         64       Net borrowing by domestic nonfinancial         65       Net borrowing by U.S. government	324.2 135.4 128.2 242.2 82.5 40.3 52.8 45.0 14.4 833.7 209.3	369.5 22.7 212.8 316.4 58.0 69.9 26.4 56.1 .0 836.9 215.0	317.5 49.3 165.7 324.9 33.5 3.2 32.3 65.5 -7.9 694.9 152.8	277.2 49.8 161.5 306.7 50.2 39.4 75.4 54.4 10.4 750.4 147.1	302.6 30.4 115.8 275.7 39.1 41.5 60.6 28.9 -5.9 684.1 157.5	341.3 39.7 113.0 315.2 60.2 99.3 99.9 -14.3 761.2 161.6	228.9 28.7 126.5 275.0 36.9 41.9 42.9 33.2 20.7 646.1 79.4	298.7 34.1 97.6 272.7 37.1 56.5 48.5 -12.2 -22.7 701.6 196.7	341.4 19.1 125.9 240.1 44.1 7.5 51.6 -5.4 -7.3 627.6 192.4	423.8 13.0 110.5 307.9 14.6 10.6 62.7 14.0 21.5 740.6 226.2	412.5 21.9 158.0 243.5 9.8 3.7 -27.7 16.5 -40.5 665.1 269.2	454.0 25.9 79.2 228.7 27.7 15.0 82.1 36.6 18.8 689.8 267.9
				Externa	l corporat	e equity fu	unds raise	d in Unite	d States			
66 Total net share issues	17.2	86.8	10.9	-124.2	-63.7	-165.8	-43.0	-61.0	14.9	-4.8	50.5	-11.9
67       Mutual funds         68       All other         69       Nonfinancial corporations         70       Financial corporations         71       Foreign shares purchased in United States	84.4 -67.2 -84.5 13.6 3.7	159.0 -72.2 -85.0 11.6 1.2	73.9 -63.0 -75.5 14.6 -2.1	1.1 -125.3 -129.5 3.3 .9	41.3 -105.1 -124.2 2.4 16.7	1.0 -166.8 -172.3 1.0 4.5	34.0 -77.0 -98.7 4.3 17.4	57.9 -118.9 -146.3 1 27.5	72.4 -57.6 -79.3 4.5 17.2	53.1 57.9 69.0 9.9 1.2	76.5 -26.0 -48.0 .3 21.7	51.7 ~63.7 ~74.0 8.4 2.0

### A42 Domestic Financial Statistics April 1991

#### 1.58 DIRECT AND INDIRECT SOURCES OF FUNDS TO CREDIT MARKETS

Billions of dollars, except as noted; quarterly data are at seasonally adjusted annual rates.

							19	89			1990	
Transaction category, or sector	1985	1986	1987	1988	1989	QI	Q2	Q3	Q4	QI	Q2	Q3
1 Total funds advanced in credit markets to domestic nonfinancial sectors	848.1	836.9	687.0	760.8	678.2	746.9	666.8	678.8	620.2	762.1	624.6	708.6
By public agencies and foreign         2 Total net advances         3 U.S. government securities         4 Residential mortgages.         5 FHLB advances to thrifts         6 Other loans and securities.	202.0	280.2	248.8	210.7	187.6	312.8	15.5	218.3	203.8	233.7	313.3	283.0
	45.9	69.4	70.1	85.2	30.7	83.1	-103.3	115.7	27.1	16.9	93.5	97.3
	94.6	136.3	139.1	86.3	137.9	126.0	119.7	127.7	178.3	182.1	210.6	181.7
	14.2	19.8	24.4	19.7	-11.0	58.9	-13.1	-41.0	-48.8	-21.8	-30.7	-30.3
	47.3	54.7	15,1	19.4	30.0	44.8	12.1	15.8	47.1	56.5	39.8	34.2
Total advanced, by sector         7       U.S. government.         8       Sponsored credit agencies	17.8	9.7	-7.9	-9.4	-2.4	2	-6.0	-9.3	5.7	33.6	42.7	30.9
	103.5	153.3	169.3	112.0	125.3	188.2	28.0	126.4	158.4	184.0	165.8	150.5
	18.4	19.4	24.7	10.5	-7.3	8.1	-1.6	-31.2	-4.6	-6.7	39.7	23.7
	62.3	97.8	62.7	97.6	72.1	116.7	-4.9	132.4	44.2	22.8	65.0	77.9
11         Sponsored credit agencies and mortgage pools           12         Foreign	101.5	154.1 9.7	171.8 4.5	119.8 6.3	151.0 10.9	194.0 3.2	128.8 -6.9	124.8 30.4	156.4 16.9	176.2 -3.5	183.7 41.1	167.4 26.3
Private domestic funds advanced         13 Total net advances         4 U.S. government securities         15 State and local obligations         16 Corporate and foreign bonds         17 Residential mortgages         18 Other mortgages and loans         19 LESS: Federal Home Loan Bank advances	748.8	720.5	614.5	676.2	652.5	631.3	773.3	615.7	589.7	701.1	536.1	619.3
	278.2	300.1	247.4	192.1	271.9	258.2	332.2	183.0	314.3	406.9	318.9	356.7
	135.4	22.7	49.3	49.8	30.4	39.7	28.7	34.1	19.1	13.0	21.9	25.9
	40.6	89.7	66.9	91.3	66.1	36.8	91.1	65.6	70.6	56.8	71.4	35.5
	91.8	115.9	120.2	161.3	96.5	122.6	113.0	105.1	45.5	77.2	10.5	26.2
	216.9	212.0	155.2	201.4	176.6	232.9	195.2	186.9	91.5	125.4	82.7	144.7
	14.2	19.8	24.4	19.7	-11.0	58.9	- 13.1	-41.0	-48.8	-21.8	-30.7	~30.3
Private financial intermediation         20 Credit market funds advanced by private financial institutions         21 Commercial banking         22 Savings institutions         21 Insurance and pension funds         24 Other finance	578.0 188.4 87.9 150.1 151.6	730.0 198.1 107.6 160.1 264.2	528.4 135.4 136.8 179.7 76.6	562.3 156.3 120.4 198.7 86.9	511.1 177.3 -90.9 177.9 246.8	474.1 180.4 16.5 182.1 95.1	600.9 160.9 -42.3 188.1 294.2	345.9 183.7 -135.8 136.1 161.9	623.4 184.3 -201.9 205.1 436.0	326.9 187.9 56.4 138.0 57.3	241.7 125.8 215.8 201.9 129.8	418.6 106.3 -158.9 176.8 294.4
25 Sources of funds         26 Private domestic deposits and RPs         27 Credit market borrowing         28 Other sources         29 Foreign funds         30 Treasury balances         31 Insurance and pension reserves         32 Other, net	578.0	730.0	528.4	562.3	511.1	474.1	600.9	345.9	623.4	326.9	241.7	418.6
	212.1	277.1	162.8	229.2	225.2	140.9	267.4	284.4	208.0	117.0	18.3	78.4
	99.7	131.0	128.4	127.8	54.5	162.6	25.3	9	30.9	22.3	-11.2	46.9
	266.1	321.8	237.1	205.3	231.4	170.6	308.2	62.3	384.6	187.6	234.6	293.3
	19.7	12.9	43.7	9.3	-9.9	-14.1	-35.4	30.4	-20.6	45.3	11.6	125.6
	10.3	1.7	-5.8	7.3	-3.4	-12.6	13.9	-19.9	5.0	11.9	-15.4	16.2
	131.7	119.9	135.4	177.6	140.5	162.3	123.2	82.6	193.9	120.3	179.5	142.0
	104.4	187.3	63.9	11.0	104.2	35.1	206.4	-30.8	206.3	10.0	58.9	9.5
Private domestic nonfinancial investors         33 Direct lending in credit markets.         34 U.S. government securities.         35 State and local obligations.         36 Corporate and foreign bonds.         37 Open market paper.         38 Other	270.5	121.5	214.6	241.7	195.9	319.7	197.7	268.9	-2.8	396.5	283.3	247.6
	157.8	27.0	86.0	129.0	134.3	199.8	136.2	196.8	4.3	281.2	185.7	244.2
	37.7	19.9	61.8	53.5	28.4	56.7	5.1	39.0	12.8	.9	9.2	12.2
	3.8	52.9	23.3	-9.4	.7	- 16.5	9.4	-4.7	14.6	28.4	14.1	19.1
	51.6	9.9	15.8	36.4	5.4	47.3	17.8	21.4	-64.6	43.3	43.2	29.8
	19.6	51.7	27.6	32.2	27.1	32.5	29.2	16.4	30.1	42.7	31.1	40.1
39 Deposits and currency         40 Currency         41 Checkable deposits         42 Small time and savings accounts         43 Money market fund shares         44 Large time deposits         45 Security RPs.         46 Deposits in foreign countries	222.8	297.5	179.3	232.8	241.3	182.2	290.6	261.8	230.6	141.6	41.2	117.3
	12.4	14.4	19.0	14.7	11.7	17.8	12.8	6.0	10.1	25.9	22.9	32.0
	41.4	96.4	9	12.9	1.5	-33.0	-41.7	14.7	65.8	-10.9	-4.1	13.1
	138.5	120.6	76.0	122.4	100.5	30.7	99.0	163.1	109.1	112.0	9.4	38.3
	7.2	43.2	28.9	20.2	85.2	39.4	119.2	116.7	65.6	72.8	5.8	120.9
	7.4	-3.2	37.2	40.8	23.1	68.5	61.1	-23.8	-13.4	-22.2	-7.4	-78.2
	17.7	20.2	21.6	32.9	14.9	35.4	29.8	13.7	-19.2	-34.8	14.6	-15.7
	-1.7	5.9	-2.5	-11.2	4.4	23.5	10.4	-28.6	12.4	-1.3	.0	7.0
47 Total of credit market instruments, deposits, and currency	493.3	419.0	393.9	474.5	437.2	502.0	488.3	530.7	227.7	538.1	324.4	364.9
<ul> <li>48 Public holdings as percent of total</li></ul>	23.8	33.1	36.0	27.5	27.2	41.7	2.3	30.8	32.0	30.8	47.1	38.5
	77.2	101.3	86.0	83.2	78.3	75.1	77.7	56.2	105.7	46.6	45.1	67.6
	82.0	110.7	106.4	106.9	62.2	102.6	40.3	162.8	23.6	68.1	76.6	203.5
MEMO: Corporate equities not included above 51 Total net issues	17.2	86.8	10.9	-124.2	-63.7	165.8	-43.0	-61.0	14.9	-4.8	50.5	11.9
52       Mutual fund shares         53       Other equities         54       Acquisitions by financial institutions         55       Other net purchases	84.4	159.0	73.9	1.1	41.3	1.0	34.0	57.9	72.4	53.1	76.5	51.7
	-67.2	-72.2	-63.0	-125.3	-105.1	-166.8	-77.0	-118.9	-57.6	-57.9	-26.0	-63.7
	46.9	50.9	32.0	-2.9	17.2	2	-14.1	6.1	76.9	63.4	114.7	41.8
	-29.7	35.9	-21.2	-121.4	-80.9	-165.6	-28.9	-67.1	-62.1	-68.2	-64.2	-53.7

NOTES BY LINE NUMBER.
1. Line 1 of table 1.57.
2. Sum of lines 3-6 or 7-10.
6. Includes farm and commercial mortgages.
11. Credit market funds raised by federally sponsored credit agencies, and net issues of federally related mortgage pool securities.
13. Line 1 less line 2 plus line 11 and 12. Also line 20 less line 27 plus line 33.
Also sum of lines 28 and 47 less lines 40 and 46.
18. Includes farm and commercial mortgages.
26. Line 39 less lines 40 and 46.
27. Excludes equity issues and investment company shares. Includes line 19.
29. Foreign deposits at commercial banks, bank borrowings from foreign branches, and liabilities of foreign banking agencies to foreign affiliates, less claims on foreign affiliates and deposits by banking in foreign banks.
30. Demand deposits and note balances at commercial banks.

31. Excludes net investment of these reserves in corporate equities.
32. Mainly retained earnings and net miscellaneous liabilities.
33. Line 13 less line 20 plus line 27.
34-38. Lines 14-18 less amounts acquired by private finance plus amounts borrowed by private finance. Line 38 includes mortgages.
40. Mainly an offset to line 9.
47. Lines 33 plus 39, or line 13 less line 28 plus 40 and 46.
48. Line 2/line 1.
49. Line 20line 13.
50. Sum of lines 10 and 29.
51, 53. Includes issues by financial institutions. Norre. Full statements for sectors and transaction types in flows and in amounts outstanding may be obtained from Flow of Funds Section, Division of Research and Statistics, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

## 1.59 SUMMARY OF CREDIT MARKET DEBT OUTSTANDING

Billions of dollars; period-end levels.

					· · ·			989			1990	
	Transaction category, sector	1985	1986	1987	1988	QI	Q2	Q3	Q4	Q1	Q2	Q3
				<b>.</b>		Non	financial se	ctors			,,,	
1	Total credit market debt owed by domestic nonfinancial sectors	6,804.5	7,646.3	8,343.9	9,096.0	9,267.7	9,438.7	9,605.1	9,805.2	9,975.7	10,136.3	10,309.4
2 3 4	By sector and instrument U.S. government Treasury securities Agency issues and mortgages	1,600.4 1,597.1 3.3	1,815.4 1,811.7 3.6	1,960.3 1,955.2 5.2	2,117.8 2,095.2 22.6	2,155.7 2,133.4 22.3	2,165.7 2,142.1 23.6	2,206.1 2,180.7 25.4	2,269.4 2,245.2 24.2	2,360.9 2,329.3 31.6	2,401.7 2,368.8 32.9	2,470.2 2,437.6 32.6
5 6 7 8 9 10 11 12 13	Private domestic nonfinancial sectors Debt capital instruments	5,204.1 3,485.2 655.5 542.6 2,287.1 1,490.2 213.0 478.1 105.9	5,831.0 3,962.7 679.1 669.4 2,614.2 1,720.8 246.2 551.4 95.8	6,383.6 4,427.9 728.4 748.8 2,950.7 1,943.1 270.0 648.7 88.9	6,978.2 4,886.4 790.8 851.7 3,243.8 2,173.9 286.7 696.4 86.8	7,112.0 4,989.1 798.6 866.3 3,324.2 2,229.0 293.1 716.2 86.0	7,273.0 5,091.4 804.9 887.9 3,398.6 2,287.6 298.3 725.9 86.8	7,399.0 5,189.9 816.4 903.5 3,470.0 2,347.6 301.2 734.9 86.3	7,535.8 5,283.3 821.2 925.4 3,536.6 2,404.3 304.4 742.6 85.3	7,614.8 5,355.5 822.4 936.5 3,596.6 2,450.0 307.8 754.1 84.7	7,734.6 5,443.2 826.7 953.3 3,663.3 2,512.8 306.5 759.4 84.5	7,839.2 5,523.0 836.3 962.8 3,724.0 2,569.3 306.6 763.9 84.2
14 15 16 17 18	Other debt instruments Consumer credit Bank loans n.e.c. Open market paper Other	1,718.9 601.8 602.3 72.2 442.6	1,868.2 659.8 666.0 62.9 479.6	1,955.7 693.2 673.3 73.8 515.3	2,091.9 743.5 713.1 85.7 549.6	2,122.9 741.7 725.6 96.1 559.4	2,181.6 756.7 740.3 110.1 574.5	2,209.1 771.0 750.7 113.3 574.1	2,252.6 790.6 763.0 107.1 591.9	2,259.3 774.3 756.3 126.0 602.6	2,291.4 783.3 761.8 128.7 617.6	2,316.2 794.4 762.6 131.8 627.4
19 20 21 22 23 24 25	By borrowing sector State and local governments Households Nonfinancial business. Farm Nonfarm noncorporate Corporate	5,204.1 473.9 2,296.0 2,434.2 173.4 898.3 1,362.4	5,831.0 510.1 2,596.1 2,724.8 156.6 997.6 1,570.6	6,383.6 558.9 2,879.1 2,945.6 145.5 1,075.4 1,724.6	6,978.2 604.5 3,191.5 3,182.2 137.6 1,145.1 1,899.5	7,112.0 612.4 3,257.9 3,241.7 136.7 1,163.9 1,941.0	7,273.0 619.9 3,330.7 3,322.5 139.5 1,177.6 2,005.3	7,399.0 629.9 3,411.4 3,357.6 139.2 1,183.0 2,035.5	7,535.8 634.1 3,501.8 3,400.0 139.2 1,195.9 2,064.8	7,614.8 634.3 3,544.5 3,436.1 138.2 1,206.5 2,091.4	7,734.6 636.8 3,619.8 3,478.0 140.7 1,212.4 2,124.8	7,839.2 645.1 3,698.1 3,496.1 141.8 1,213.9 2,140.4
26 27 28 29 30	Foreign credit market debt held in United States Bonds. Bank loans n.e.c. Open market paper U.S. government loans	236.7 71.8 27.9 33.9 103.0	238.3 74.9 26.9 37.4 99.1	244.6 82.3 23.3 41.2 97.7	253.9 89.2 21.5 49.9 93.2	254.0 90.4 21.6 54.4 87.5	252.2 92.1 21.5 52.7 85.8	257.7 94.2 22.6 57.5 83.4	261.5 94.5 21.4 63.0 82.6	260.4 102.1 19.0 59.3 80.0	271.7 107.5 19.3 65.1 79.8	277.3 108.0 20.0 71.5 77.8
31	Total domestic plus foreign	7,041.1	7,884.7	8,588.5	9,349.9	9,521.7	9,690.8	9,862.8	10,066.8	10,236.1	10,408.0	10,586.6
						Fir	nancial sect	ors		·		·
32	Total credit market debt owed by financial sectors	1,213.2	1,529.8	1,836.8	2,084.4	2,191.3	2,234.1	2,263.8	2,322.4	2,356.3	2,403.4	2,455.2
33 34 35 36 37 38 39 40 41 42	By instrument U.S. government related Sponsored credit agency securities Mortgage pool securities Loans from U.S. government. Private financial sectors. Corporate bonds. Mortgages Bank loans n.e.c. Open market paper Loans from Federal Home Loan Banks	632.7 257.8 368.9 6.1 580.5 204.5 2.7 32.1 252.4 88.8	810.3 273.0 531.6 5.7 719.5 287.4 2.7 36.1 284.6 108.6	978.6 303.2 670.4 5.0 858.2 366.3 3.1 32.8 322.9 133.1	1,098.4 348.1 745.3 5,0 986.1 418.0 3,4 34.2 377.7 152.8	1,140.8 364.3 771.5 5.0 1,050.5 458.6 3.5 32.2 392.5 163.8	1,169.5 369.0 795.6 5.0 1,064.6 466.1 3.5 33.8 399.4 161.9	1,203.6 370.4 828.2 5,0 1,060.2 472.7 3.5 34.1 398.8 151.1	1,249.3 373.3 871.0 5,0 1,073.0 482.7 3,4 36.0 409.1 141.8	1,286.1 376.0 905.2 5.0 1,070.2 491.7 3.2 33.2 409.1 132.9	1,328.0 378.9 944.2 5.0 1,075.3 508.2 3.5 34.8 402.5 126.3	1,372.9 381.1 986.8 5.0 1,082.3 518.0 3.1 34.9 408.5 117.9
	Total, by sector	1,213.2	1,529.8	1,836.8	2,084.4	2,191.3	2,234.1	2,263.8	2,322.4	2,356.3	2,403.4	2,455.2
44 45 46 47 48 49 50 51 52 53	Sponsored credit agencies Mortgage pools	263.9 368.9 580.5 79.2 106.2 98.9 4.4 261.2 5.6 25.0	278.7 531.6 719.5 75.6 116.8 119.8 8.6 328.1 6.5 64.0	308.2 670.4 858.2 81.8 131.1 139.4 16.7 378.8 7.3 103.1	353.1 745.3 986.1 78.8 136.2 159.3 18.6 446.1 11.4 135.7	369.3 771.5 1,050.5 73.3 140.0 170.1 17.8 464.3 11.1 173.8	374.0 795.6 1,064.6 75.7 141.2 167.9 17.7 478.0 10.6 173.5	375,4 828,2 1,060,2 77,0 144,0 155,7 17,5 481,2 10,0 174,9	378.3 871.0 1,073.0 77.4 142.5 145.2 17.2 496.2 10.1 184.4	381.0 905.2 1,070.2 73.4 140.8 137.1 15.4 500.3 10.1 193.1	383.8 944.2 1,075.3 73.3 133.0 125.8 16.6 511.1 9.8 205.7	386.1 986.8 1,082.3 70.2 126.0 114.8 17.4 529.9 9.5 214.5
			<b>-</b>				All sectors			,		
54 55 56 57 58 59 60 61 62	Total credit market debt.         U.S. government securities.         State and local obligations.         Corporate and foreign bonds.         Mortgages.         Consumer credit         Bank loans n.e.c.         Open market paper.         Other loans.	8,254.4 2,227.0 655.5 818.9 2,289.8 601.8 662.4 358.5 640.5	9,414.4 2,620.0 679.1 1,031.7 2,617.0 659.8 729.0 384.9 693.1	<b>10,425.3</b> 2,933.9 728.4 1,197.4 2,953.8 693.2 729.5 437.9 751.1	11,434.3 3,211.1 790.8 1,358.9 3,247.2 743.5 768.9 513.4 800.5	11,713.0 3,291.5 798.6 1,415.2 3,327.7 741.7 779.5 543.0 815.7	11,925.0 3,330.3 804.9 1,446.1 3,402.1 756.7 795.6 562.2 827.1	12,126.6 3,404.7 816.4 1,470.5 3,473.6 771.0 807.4 569.6 813.5	12,389.1 3,513.7 821.2 1,502.6 3,540.1 790.6 820.3 579.2 821.4	12,592.4 3,642.0 822.4 1,530.3 3,599.9 774.3 808.6 594.5 820.5	12,811.4 3,724.8 826.7 1,569.0 3,666.7 783.3 815.9 596.3 828.7	<b>13,041.8</b> 3,838.1 836.3 1,588.8 3,727.1 794.4 817.6 611.7 828.0

#### A44 Domestic Financial Statistics April 1991

## 1.60 SUMMARY OF CREDIT MARKET CLAIMS, BY HOLDER

Billions of dollars, except as noted; period-end levels.

					1000		19	89			1990	
	Transaction category, or sector	1985	1986	1987	1988	QI	Q2	Q3	Q4	QI	Q2	Q3
1	Total funds advanced in credit markets to domestic nonfinancial sectors	6,804.5	7,646.3	8,343.9	9,096.0	9,267.7	9,438.7	9,605.1	9,805.2	9,975.7	10,136.3	10,309.4
2 3 4 5 6	By public agencies and foreign Total held. U.S. government securities Residential mortgages FHLB advances to thrifts. Other loans and securities	1,474.0 435.4 518.2 88.8 431.6	1,779.4 509.8 678.5 108.6 482.4	2,006.6 570.9 814.1 133.1 488.6	2,199.7 651.5 900.4 152.8 495.1	2,256.0 665.0 927.2 163.8 500.0	2,263.5 642.7 954.4 161.9 504.5	2,317.4 668.6 991.1 151.1 506.6	2,379.3 682.1 1,038.4 141.8 517.0	2,419.9 679.2 1,077.7 132.9 530.2	2,503.1 706.1 1,127.6 126.3 543.1	2,574.2 727.4 1,178.2 117.9 550.7
7 8 9 10 11	Total held, by type of lender U.S. government Sponsored credit agencies and mortgage pools Monetary authority Foreign	1,474.0 248.6 659.8 186.0 379.5	1,779.4 255.3 835.9 205.5 482.8	2,006.6 240.0 1,001.0 230.1 535.5	2,199.7 217.6 1,113.0 240.6 628.5	2,256.0 212.9 1,151.1 235.4 656.6	2,263.5 211.5 1,157.8 238.4 655.7	2,317.4 207.8 1,193.5 227.6 688.5	2,379.3 207.1 1,238.2 233.3 700.6	2,419.9 216.2 1,274.0 224.4 705.2	2,503.1 228.1 1,315.0 237.8 722.1	2,574.2 235.3 1,356.8 240.8 741.4
12 13	Agency and foreign debt not in line 1 Sponsored credit agencies and mortgage pools Foreign	632.7 236.7	810.3 238.3	978.6 244.6	1,098.4 253.9	1,140.8 254.0	1,169.5 252.2	1,203.6 257.7	1,249.3 261.5	1,286.1 260.4	1,328.0 271.7	1,372.9 277.3
14 15 16 17 18 19 20	Private domestic holdings Total private holdings U.S. government securities State and local obligations Corporate and foreign bonds Residential mortgages Other mortgages and loans Less: Federal Home Loan Bank advances	6,199.9 1,791.6 655.5 517.3 1,185.1 2,139.3 88.8	6,915.6 2,110.1 679.1 606.6 1,288.5 2,339.8 108.6	7,560.4 2,363.0 728.4 674.3 1,399.0 2,528.7 133.1	8,248.5 2,559,7 790.8 765.6 1,560.2 2,724.9 152.8	8,406.5 2,626.5 798.6 776.5 1,594.9 2,773.7 163.8	8,596.9 2,687.6 804.9 797.7 1,631.5 2,837.0 161.9	8,749.0 2,736.1 816.4 814.5 1,657.7 2,875.3 151.1	8,936.8 2,831.6 821.2 831.6 1,670.4 2,923.8 141.8	9,102.3 2,962.8 822.4 847.5 1,680.1 2,922.4 132.9	9,233.0 3,018.6 826.7 863.3 1,691.8 2,958.9 126.3	9,385.3 3,110.6 836.3 872.6 1,697.7 2,986.0 117.9
21 22 23 24 25	Private financial intermediation Credit market claims held by private financial institutions Commercial banking Savings institutions Insurance and pension funds Other finance.	5,289.4 1,989.5 1,191.2 1,365.3 743.4	6,018.0 2,187.6 1,297.9 1,525.4 1,007.1	6,564.5 2,323.0 1,445.5 1,705.1 1,091.0	7,128.6 2,479.3 1,567.7 1,903.8 1,177.9	7,269.9 2,501.4 1,570.6 1,954.4 1,243.5	7,424.6 2,549.0 1,561.0 1,999.0 1,315.6	7,507.8 2,599.6 1,530.3 2,031.6 1,346.2	7,662.7 2,656.6 1,480.7 2,081.6 1,443.8	7,747.2 2,680.4 1,461.5 2,121.7 1,483.6	7,813.2 2,720.7 1,408.4 2,169.1 1,515.0	7,913.6 2,751.6 1,372.7 2,211.5 1,577.8
26 27 28	Sources of funds Private domestic deposits and RPs Credit market debt	5,289.4 2,926.1 580.5	6,018.0 3,199.0 719.5	6,564.5 3,354.2 858.2	7,128.6 3,599.1 986.1	7.269.9 3,627.7 1,050.5	7,424.6 3,679.1 1,064.6	7,507.8 3,742.5 1,060.2	7,662.7 3,824.3 1,073.0	7,747.2 3,847.5 1,070.2	7,813.2 3,833.5 1,075.3	7,913.6 3,845.2 1,082.3
29 30 31 32 33	Other sources Foreign funds Treasury balances. Insurance and pension reserves Other, net.	1,782.9 5.6 25.8 1,289.3 462.1	2,099.5 18.6 27.5 1,398.5 655.0	2,352.1 62.3 21.6 1,527.8 740.3	2,543.5 71.5 29.0 1,692.5 750.5	2,591.7 59.3 13.5 1,737.3 781.5	2,680.9 49.4 34.4 1,770.0 827.2	2,705.1 55.0 30.3 1,785.7 834.0	2,765.5 61.6 25.6 1,826.0 852.3	2,829.5 63.4 16.7 1,860.8 888.6	2,904.4 66.3 32.1 1,907.8 898.2	2,986.1 95.4 36.6 1,941.7 912.4
34 35 36 37 38 39	Private domestic nonfinancial investors Credit market claims. U.S. government securities Tax-exempt obligations. Corporate and foreign bonds. Open market paper. Other.	1,491.0 803.3 231.5 37.1 135.2 283.8	1,617.0 848.7 212.6 90.5 145.1 320.1	1,854.1 936.7 274.4 114.0 178.5 350.4	2,106.0 1,072.2 340.9 100.4 218.0 374.4	2,187.1 1,100.0 348.8 126.4 225.8 386.0	2,236.9 1,122.9 353.8 128.2 236.7 395.3	2,301.5 1,171.3 363.1 131.1 239.3 396.8	2,347.1 1,206.4 369.3 130.5 228.7 412.1	2,425,3 1,264,1 362,8 154,1 229,6 414,7	2,495.1 1,296.9 368.1 157.6 247.7 424.8	2,554.0 1,357.4 371.3 156.9 237.6 430.8
40 41 42 43 44 45 46 47	Deposits and currency. Currency. Checkable deposits. Small time and savings accounts. Money market fund shares. Large time deposits Security RPs. Deposits in foreign countries.	3,116.8 171.9 420.3 1,831.9 225.6 339.9 108.3 18.8	3,410.1 186.3 516.6 1,948.3 268.9 336.7 128.5 24.8	3,583.9 205.4 515.4 2,017.1 297.8 373.9 150.1 24.3	3,832.3 220.1 527.2 2,156.2 318.0 414.7 182.9 13.1	3,864.2 220.7 494.2 2,168.9 342.7 430.8 191.1 15.8	3,926.2 226.4 495.0 2,189.3 362.1 435.7 196.9 20.7	3,979.0 224.4 486.1 2,224.4 391.0 440.0 200.9 12.1	4,073.6 231.8 528.7 2,256.7 403.3 437.8 197.9 17.6	4,095.8 234.4 501.3 2,289.8 436.7 431.5 188.3 13.9	4,092.6 242.7 510.7 2,288.1 426.3 417.9 190.5 16.4	4,108.9 247.2 500.2 2,292.3 456.7 409.0 186.9 16.6
48	Total of credit market instruments, deposits, and currency	4,607.8	5,027.2	5,438.0	5,938.2	6,051.2	6,163.0	6,280.5	6,420.7	6,521.1	6,587.7	6,663.0
49 50 51	Public holdings as percent of total Private financial intermediation (in percent) Total foreign funds	20.9 85.3 385.1	22.6 87.0 501.3	23.4 86.8 597.8	23.5 86.4 700.1	23.7 86.5 715.9	23.4 86.4 705.1	23.5 85.8 743.5	23.6 85.7 762.3	23.6 85.1 768.6	24.0 84.6 788.4	24.3 84.3 836.7
52	MEMO: Corporate equities not included above Total market value	2,823.9	3,360.6	3,325.0	3,619.8	3,730.5	4,069.7	4,395.4	4,378.9	4,170.2	4,336.2	3,769.7
53 54	Mutual fund shares Other equities	240.2 2,583.7	413.5 2,947.1	460.1 2,864.9	478.3 3,141.6	486.3 3,244.2	514.8 3,555.0	543.9 3,851.5	555.1 3,823.8	550,3 3,620.0	587.9 3,748.3	547.3 3,222.4
55 56	Holdings by financial institutions Other holdings	800.3 2,023.6	974.6 2,385.9	1,039.5 2,285.5	1,176.1 2,443.7	1,237.2 2,493.3	1,343.0 2,726.8	1,478.5 2,917.0	1,492.3 2,886.6	1,440.4 2,729.8	1,558.3 2,778.0	1,334.2 2,435.4

NOTES BY LINE NUMBER.
1. Line 1 of table 1.59.
2. Sum of lines 3-6 or 8-11.
6. Includes farm and commercial mortgages.
12. Credit market debt of federally sponsored agencies, and net issues of federally related mortgage pool securities.
14. Line 1 less line 2 plus line 12 and 13. Also line 21 less line 28 plus line 34.
Also sum of lines 29 and 48 less lines 41 and 47.
19. Includes farm and commercial mortgages.
27. Line 40 less lines 41 and 47.
28. Excludes equity issues and investment company shares. Includes line 20.
30. Foreign deposits at commercial and kplus bank borrowings from foreign affiliates, less claims on foreign affiliates and deposits by banking in foreign banks.
31. Demand deposits and note balances at commercial banks.

32. Excludes net investment of these reserves in corporate equities.
33. Mainly retained earnings and net miscellaneous liabilities.
34. Line 14 less line 21 plus line 28.
35-39. Lines 15-19 less amounts acquired by private finance plus amounts borrowed by private finance. Line 39 includes mortgages.
41. Mainly an offset to line 10.
48. Lines 34 plus 40, or line 14 less line 29 plus 41 and 47.
49. Line 2/line 1 and 13.
52-54. Includes issues by financial institutions.
Norte. Full statements for sectors and transaction types in flows and in amounts outstanding may be obtained from Flow of Funds Section, Stop 95, Division of Research and Statistics. Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

#### 2.10 NONFINANCIAL BUSINESS ACTIVITY Selected Measures

1977 = 100; monthly and quarterly data are seasonally adjusted. Exceptions noted.

Measure	1988	1989	1990			_	19	990				1991
measure	1900	1969	1990	May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec."	Jan.
1 Industrial production $(1987 = 100)^1 \dots$	105.4	108.1	109.2	109.4	110.1	110.4	110.5	110.6	109.9'	108.2	107.0	106.5
Market groupings           2 Products, total (1987 = 100)           3 Final, total (1987 = 100)           4 Consumer goods (1987 = 100)           5 Equipment (1987 = 100)           6 Intermediate (1987 = 100)           7 Materials (1987 = 100)	105.3 105.6 104.0 107.6 104.4 105.6	108.6 109.1 106.7 112.3 106.8 107.4	110.1 110.8 <sup>r</sup> 107.3 115.4 <sup>r</sup> 107.7 <sup>r</sup> 107.7	110.5 111.2 107.4 116.2 108.3 107.7	110.9 111.7 107.8 116.8 108.3 108.8	110.9 111.7 107.5 117.2 108.4 109.6	110.9 111.9 107.8 117.2 107.9 109.7	111.4 112.6 108.7 117.8 107.4 109.4	111.0' 112.3' 108.6' 117.0 107.0' 108.3'	109.2 110.1 106.5 114.9 106.3 106.6	108.3 109.1 105.8 113.3 105.9 104.9	107.9 108.9 105.7 113.0 105.0 104.4
Industry groupings 8 Manufacturing (1987 = 100)	105.8	108.9	109.9	110.3	110.8	111.1	111.1	111.2	110.7	108.9	107.3	106.9
Capacity utilization (percent) <sup>2</sup> 9 Manufacturing	83.9	83.9	82.3'	82.9	83.1'	83.1'	82.9	82.8'	82.2"	80.7	79.3	78.8
10 Construction contracts $(1982 = 100)^3$	166.7	172.9	153.2'	165.0	164.0	153.0	149.0	146.0	147.0	146.0	130.0	132.0
11 Nonagricultural employment, total         12 Goods-producing, total         13 Manufacturing, total         14 Manufacturing, production- worker         15 Service-producing.         16 Personal income, total         17 Wages and salary disbursements.         18 Manufacturing.         19 Disposable personal income <sup>4</sup> 20 Retail sales	128.0 103.7 98.6 93.7 138.2 253.2 244.6 196.5 252.2 228.0	131.6 105.3 99.6 94.6 142.7 272.7 258.9 203.1 270.1 240.7'	133.8 102.7 96.8 91.5 146.8 289.0 272.2 205.0 286.1 249.8 <sup>r</sup>	134.1 103.5 97.4 92.1 147.0 287.5 271.2 205.8 284.4 246.1	134.4 103.4 97.3 92.0 147.4 288.7 272.8 206.8 285.8 248.9	134.3 103.1 97.2 92.0 147.3 290.1 274.4 206.9 286.9 250.1	134.1 102.8 96.9 91.7 147.3 290.8 274.5 206.7 287.6 250.2	134.1 102.4 96.6 91.2 147.4 292.2 276.4 207.0 288.7 252.4	133.9 101.8 96.3 90.9 147.4 292.1 274.8 206.0 288.6' 252.7	133.6 100.7 95.2 89.6 147.4 293.3 274.8 202.9 289.9 252.7	133.4 100.3 95.0 89.4 147.3 294.9 277.1 205.5 291.4 249.1	133.1 99.4 94.6 89.0 147.2 293.6 275.7 202.5 289.9 246.8
Prices <sup>7</sup> 21 Consumer (1982-84 = 100) 22 Producer finished goods (1982 = 100)	118.3 108.0	124.0 113.6	130.7 119.2	129.2 117.7	129.9 117.8	130.4 118.2	131.6 119.3	132.7 120.4 <sup>*</sup>	133.5 122.3	133.8 122.9	133.8 121.9	134.6 121.9

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" in the Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187-204.
 Ratios of indexes of production to indexes of capacity. Based on data from Federal Reserve, McGraw-Hill Economics Department, Department of Com-merce, and other sources.
 Index of dollar value of total construction contracts, including residential, norresidential and heavy engineering, from McGraw-Hill Information Systems Company, F. W. Dodge Division.
 Based on data in Employment and Earnings (U.S. Department of Labor). Series covers employees only, excluding personnel in the Armed Forces.
 Based on data in Survey of Current Business (U.S. Department of Com-merce).

merce).

Based on Bureau of Census data published in Survey of Current Business.
 Data without seasonal adjustment, as published in Monthly Labor Review.
 Seasonally adjusted data for changes in the price indexes may be obtained from the Bureau of Labor Statistics, U.S. Department of Labor.

NOTE. Basic data (not index numbers) for series mentioned in notes 4, 5, and 6, and indexes for series mentioned in notes 3 and 7 may also be found in the Survey of Current Business.

of *Current Business*. Figures for industrial production for the latest month are preliminary and the prior three months have been revised. See "Recent Developments in Industrial Capacity and Utilization," *Federal Reserve Bulletin*, vol. 76 (June 1990), pp. 411-35.

## A46 Domestic Nonfinancial Statistics April 1991

#### 2.11 LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

Thousands of persons; monthly data are seasonally adjusted. Exceptions noted.

0	1000	1000	1990				1990				1991
Category	1988	1989	1990	June	July	Aug.	Sept.	Oct.	Nov."	Dec.	Jan.
HOUSEHOLD SURVEY DATA											
l Noninstitutional population <sup>1</sup>	186,837	188,601	190,216	190,122	190,275	190,411	190,568	190,717	190,854	190,999	191,116
<ul> <li>2 Labor force (including Armed Forces)<sup>1</sup></li> <li>3 Civilian labor force</li></ul>	123,893 121,669	126,077 123,869	126,954 124,787	126,942 124,797	126,848 124,709	126,855 124,705	127,137 124,970	127,067 124,875	126,880 124,723	127,307 125,174	126,777 124,638
4 Nonagricultural industries <sup>2</sup> 5 Agriculture Unemployment	111,800 3,169	114,142 3,199	114,728 3,186	114,958 3,279	114,774 3,108	114,538 3,152	114,689 3,194	114,558 3,175	114,201 3,185	114,321 3,253	113,759 3,163
6 Number 7 Rate (percent of civilian labor force) 8 Not in labor force	6,701 5,5 62,944	6,528 5,3 62,524	6,874 5,5 63,262	6,560 5.3 63,180	6,827 5,5 63,427	7,015 5.6 63,556	7,087 5,7 63,431	7,142 5.7 63,650	7,337 5.9 63,974	7,600 6.1 63,692	7,715 6.2 64,339
ESTABLISHMENT SURVEY DATA											
9 Nonagricultural payroll employment <sup>3</sup>	105,584	108,573	110,330	110,829	110,740	110,613	110,612	110,432	110,165	110,017'	109,785
10 Manufacturing .         11 Mining.         12 Contract construction         13 Transportation and public utilities         14 Trade         15 Finance         16 Service         17 Government	19,403 721 5,125 5,548 25,139 6,676 25,600 17,372	19,611 722 5,302 5,703 25,807 6,814 26,889 17,726	19,064 735 5,205 5,838 26,151 6,833 28,209 18,299	19,148 744 5,270 5,846 26,205 6,844 28,225 18,547	19,131 745 5,229 5,841 26,225 6,842 28,287 18,440	19,084 735 5,194 5,846 26,222 6,852 28,387 18,293	19,019 736 5,176 5,870 26,214 6,851 28,440 18,306	18,951 733 5,093 5,870 26,147 6,843 28,475 18,320	18,744 738 5,029 5,866 26,082 6,833 28,548 18,325	18,699 740' 4,987' 5,881' 26,011' 6,831 28,556' 18,312'	18,630 735 4,832 5,886 26,082 6,823 28,539 18,258

Persons 16 years of age and over. Monthly figures, which are based on sample data, relate to the calendar week that contains the 12th day; annual data are averages of monthly figures. By definition, seasonality does not exist in population figures. Based on data from *Employment and Earnings* (U.S. Depart-ment of Labor).
 Includes self-employed, unpaid family, and domestic service workers.

3. Data include all full- and part-time employees who worked during, or received pay for, the pay period that includes the 12th day of the month, and exclude proprietors, self-employed persons, domestic servants, 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. Based on data from *Employment and Earnings* (U.S. Department of Labor).

## 2.12 OUTPUT, CAPACITY, AND CAPACITY UTILIZATION<sup>1</sup>

#### Seasonally adjusted

•				<u></u>			19						
Series		QI	Q2	Q3	Q4	QI	Q2	Q3	Q4	QI	Q2	Q3	Q4
	_		Output (1	987 = 100	)	Capac	ity (percer	nt of 1987	output)	U	tilization 1	ate (perce	nt)
1 Total industry		108.3	109.4	110.5	108.4	130.3	131.1	131.9	132.8	83.1	83.5	83.7	81.6
2 Manufacturing		109.2	110.2	[ 111.1	109.0	132.1	133.0	134.0	135.0	82.7	82.8	82.9	80.7
3 Primary processing.		106.4	106.3	107.6	104.6	124.1	124.8	125.5	126.1	85.7	85.2	85.8	82.9
Advanced processing     Durable     Lumber and products     Primary metals     Iron and steel     Nonferrous.     Nonelectrical machinery     Electrical machinery     Motor vehicles and parts     Aerospace and miscellaneous transportation equipment		110.5 110.4 105.1 106.1 107.1 104.6 124.4 111.1 91.5 111.6	112.1 112.4 102.3 107.4 107.5 107.1 126.7 112.2 102.6 113.6	112.8 113.6 101.5 112.2 114.3 109.2 128.5 112.4 103.7 114.5	111.0 109.9 96.2 106.8 108.8 104.1 126.1 110.0 89.1 112.8	135.8 136.1 123.0 127.2 132.0 120.4 151.5 137.3 132.2 133.4	136.9 137.1 123.5 127.4 132.2 120.6 153.1 138.7 132.4 134.3	138.0 138.0 124.0 127.7 132.5 120.9 154.7 140.0 132.7 135.2	139.1 139.0 124.6 127.9 132.7 121.1 156.3 141.4 132.9	81.4 81.1 85.5 83.4 86.9 82.1 80.9 69.2 83.6	81.9 82.0 82.8 84.2 81.3 88.8 82.8 80.9 77.5 84.6	81.7 82.3 81.8 87.9 86.3 90.3 83.1 80.3 78.2 84.7	79.8 79.1 77.2 83.5 82.0 85.9 80.6 77.8 67.0 82.9
14       Nondurable         15       Textile mill products         16       Paper and products         17       Chemicals and products         18       Plastics materials         19       Petroleum products		107.7 101.1 103.9 109.9 111.7 109.9	107.5 102.4 104.5 109.9 116.3 106.0	108.1 101.3 107.2 110.8 117.2 110.0	107.8 98.3 105.4 110.3 106.9	126.9 115.9 113.9 133.4 126.1 121.1	127.9 116.3 114.5 134.6 128.4 121.2	128.9 116.6 115.1 135.9 130.6 121.3	129.9 117.0 115.7 137.1 121.4	84.8 87.2 91.2 82.4 88.6 90.7	84.0 88.1 91.3 81.6 90.6 87.4	83.8 86.9 93.2 81.5 89.7 90.7	83.0 84.0 91.2 80.4 88.1
20 Mining 21 Utilities 22 Electric		101.3 105.7 108.4	102.5 107.8 111.0	103.4 110.5 112.9	102.3 107.9 110.9	115.6 126.1 121.2	115.0 126.6 121.9	114.5 127.1 122.6	114.0 127.6 123.2	87.6 83.8 89.4	89.1 85.2 91.1	90.3 86.9 92.1	89.8 84.6 90.0
	Previou	s cycle <sup>2</sup>	Latest	cycle <sup>3</sup>				19	90'				1991
	High	Low	High	Low	Jan.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>
					c	apacity ut	ilization ra	ate (perce	nt)				
23 Total industry	89.2	72.6	87.3	71.8	82.7	83.8	83.8	83.7	83.6	83.0	81.5	80.4	79.9
24 Manufacturing	88.9	70.8	87.3	70.0	82.0	83.1	83.1	82.9	82.8	82.2	80.7	79.3	78.8
25 Primary processing	92.2	68.9	89.7	66.8	85.7	85.6	86.1	86.1	85.1	84.3	83.0	81.4	80.3
26       Advanced processing	87.5 88.8 90.1 100.6 105.8 92.9 96.4 87.8 93.4 77.0	72.0 68.5 62.2 66.2 66.6 61.3 74.5 63.8 51.1 66.6	86.3 86.9 87.6 102.4 110.4 90.5 92.1 89.4 93.0 81.1	71.4 65.0 60.9 46.8 38.3 62.2 64.9 71.1 44.5 66.9	80.5 79.9 86.3 82.6 79.3 87.8 81.9 80.5 58.1 83.4	82.0 82.5 82.5 85.9 83.4 89.7 83.0 81.1 81.5 84.5	81.8 82.3 83.6 86.4 83.5 90.9 83.2 80.4 77.4 85.4	81.6 82.3 81.0 89.8 89.3 90.5 83.2 80.4 76.1 84.4	81.8 82.2 80.7 87.4 86.0 89.6 82.8 80.1 81.0 84.3	81.3 81.2 78.9 85.0 83.2 87.7 82.2 78.6 78.1 84.0	79.7 79.0 76.1 85.3 84.8 85.9 80.7 78.1 64.5 82.6	78.5 77.1 76.5 80.4 77.9 84.2 79.0 76.7 58.4 82.1	78.2 76.6 75.4 76.6 73.3 81.7 78.1 76.7 61.3 81.2
36       Nondurable         37       Textile mill products         38       Paper and products         39       Chemicals and products         40       Plastics materials         41       Petroleum products	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	84.9 86.9 91.3 82.6 88.5 89.7	83.9 89.0 90.9 81.7 90.0 87.8	84.1 88.3 93.8 81.5 90.5 91.1	83.8 86.1 92.5 81.8 89.7 90.8	83.6 86.3 93.3 81.4 88.9 90.1	83.6 86.6 92.5 81.0 90.0 89.5	82.9 83.4 90.3 80.6 90.2 88.6	82.4 82.2 90.7 79.7  86.3	81.9 81.7 90.2 78.9 86.2
42 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	87.8 84.8 89.5	89.0 86.6 92.6	90.7 86.4 91.6	89.4 87.6 92.7	90.9 86.7 91.9	89.9 85.6 91.2	89.7 83.7 89.0	89.9 84.4 89.7	89.9 83.7 89.1

1. These data also appear in the Board's G. 17 (419) release. For 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), pages 411-35.

Monthly high 1973; monthly low 1975.
 Monthly highs 1978 through 1980; monthly lows 1982.

# A48 Domestic Nonfinancial Statistics 🗆 April 1991

## 2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value<sup>1</sup>

Monthly data are seasonally adjusted

		1987							19	990						1991
	Groups	pro- por- tion	1990 avg.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug,	Sept.	Oct.'	Nov.'	Dec."	Jan. <sup>p</sup>
					L	I			Inde	k (1987 =	= 100)			L	L	
1	MAJOR MARKET Total index	100.0	109.2	107.5	108.5	108.9	108.8	109.4	110.1	110,4	110.5	110.6	109.9	108.2	107.0	106.5
2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Products. Final products. Consumer goods. Automotive products. Autos and trucks Autos, consumer Trucks, 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. Paper products. Energy. Fuels. Residential utilities.	60.8 46.0 26.0 5.6 1.5 .9 .9 1.4 20.4 9.1 2.6 3.5 2.5 2.5 .7 7 2.0	110.1 110.8 107.3 106.2 102.3 97.4 92.2 106.1 109.6 109.4 102.0 109.6 100.6 10	108.4 108.5 106.0 99.4 85.2 66.3 62.1 73.3 113.6 110.6 108.4 103.7 116.2 107.8 105.5 100.6 112.7 116.2 107.9 105.1 109.0	109.4 109.7 107.0 99.3 92.7 86.9 102.3 109.4 111.6 107.8 104.7 118.2 107.2 106.2 99.6 112.0 117.6 101.5 106.6 99.6	110.1 110.7 107.5 110.8 109.3 107.7 120.0 111.6 112.0 108.1 105.9 118.0 106.6 105.8 97.0 111.0 116.4 103.1 101.8 103.6	109.8 110.4 107.2 107.3 102.4 95.8 87.7 109.3 112.2 104.4 107.5 111.2 104.4 107.5 117.3 107.1 105.6 96.0 113.5 118.1 104.1 104.1 104.1 104.1 104.1 104.5 1104.1 105.0	110.5 111.2 107.4 109.3 107.0 105.6 96.8 120.4 108.9 111.1 103.6 107.6 117.5 106.9 105.2 96.4 113.0 118.6 1194.1 198.2 106.3	110.9 111.7 107.8 112.1 112.2 112.9 103.8 128.3 111.2 112.0 107.5 107.8 117.2 106.6 104.4 95.7 112.8 118.3 102.6 106.3	110.9 111.7 107.5 108.3 106.7 104.8 98.0 116.1 109.5 109.5 109.5 109.5 100.2 106.0 116.9 107.3 105.1 95.6 112.4 120.3 106.7 104.6 107.5	110.9 111.9 107.8 107.4 104.6 101.5 97.2 108.8 109.6 101.9 104.9 106.9 106.9 106.0 114.3 119.3 109.0 106.0 110.0	111.4 112.6 108.7 110.4 111.8 113.0 111.5 115.4 110.0 106.0 116.1 108.2 105.3 95.3 115.1 121.9 108.0 105.6 108.9	111.0 112.3 108.6 106.9 107.1 107.5 104.6 112.2 106.4 106.8 94.6 103.8 115.5 109.1 106.7 94.2 115.9 123.4 108.8 104.0 110.6	109.2 110.1 106.5 99.4 93.6 84.2 80.7 90.2 107.8 103.9 90.8 99.2 114.2 108.4 107.9 91.7 114.5 121.9 105.4 101.1 107.0	108.3 109.1 105.8 96.1 86.8 74.6 77.2 70.2 105.1 103.4 89.9 101.1 112.5 108.5 107.7 92.4 113.3 123.4 106.0 98.3 108.9	107.9 108.9 105.7 97.1 90.4 79.6 83.2 73.7 106.6 102.4 90.1 98.7 111.7 108.1 107.2 91.5 113.5 113.5 113.5 113.5 123.1
23 24 25 26 27 28 29 30 31 32 33	Equipment, total 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 .2	115.4 123.0 127.2 149.4 115.4 129.6 96.8 118.3 97.2 109.0 90.8	111.8 118.0 124.0 142.7 113.5 111.4 69.6 118.7 97.5 98.3 91.6	113.3 120.1 124.7 144.3 113.4 122.7 91.7 117.4 97.6 100.1 94.3	114.9 122.2 126.0 147.2 113.9 130.6 104.5 117.8 97.5 106.0 92.9	114.7 121.6 126.4 149.3 114.2 126.2 95.2 117.6 97.3 114.3 89.7	116.2 123.5 126.6' 148.9 115.8' 132.5 105.7 119.4' 97.6 118.6 91.3	116.8 124.4 126.3 <sup>r</sup> 150.6 116.0 <sup>r</sup> 137.4 112.2 <sup>r</sup> 119.9 <sup>r</sup> 97.6 119.5 92.8	117.2 125.0 128.0 <sup>r</sup> 152.7 117.2 <sup>r</sup> 135.5 103.1 <sup>r</sup> 119.2 <sup>r</sup> 97.8 116.2 90.0	117.2 125.4 128.5 152.2 117.9 135.4 101.5 119.8 97.7 106.9 93.4	117.8 126.4 129.5 153.6 117.4 140.5 111.0 118.5 97.3 107.4 91.8	117.0 125.4 130.1 155.3 115.4 137.5 106.5 117.0 97.3 107.1 89.0	114.9 122.7 128.7 149.3 115.2 125.3 83.9 117.2 96.1 109.7 87.3	113.3 120.7 126.9 144.8 113.5 121.4 75.3 117.1 95.6 107.3 83.4	113.0 120.5 125.6 142.7 114.0 123.1 79.8 115.9 95.1 106.4 83.0
34 35 36	Intermediate products, total Construction supplies Business supplies	14.7 6.0 8.7	107.7 105.2 109.4	108.0 107.9 108.0	108.4 108.2 108.5	108.2 107.3 108.9	108.0 106.4 109.1	108.3 105.5 110.2	108.3 106.0 109.8	108.4 106.7 109.5	107.9 105.3 109.7	107.4 103.8 109.9	107.0 103.1 109.7	106.3 101.5 109.5	105.9 100.6 109.5	105.0 98.8 109.3
37 38 39 40 41 42 43 44 45 46 47 48 49 50	Materials, total Durable goods materials Durable consumer parts Equipment parts 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	107.7 111.8 103.9 118.1 110.2 111.9 106.1 96.8 106.4 106.8 109.6 101.9 101.1 103.6	106.2 109.4 96.5 116.5 109.7 108.5 105.4 94.6 105.8 110.9 101.2 101.1 101.4	107.1 110.8 102.8 117.6 108.7 109.9 105.8 96.2 105.3 107.3 108.8 101.7 102.1 100.9	107.1 10.9 104.5 117.6 108.1 107.5 105.2 94.9 103.0 107.5 108.7 102.0 101.2 103.4	107.3 110.9 103.2 117.4 108.9 110.2 106.1 95.6 106.0 107.4 109.8 101.8 100.3 104.6	107.7 112.5 108.5 118.1 109.6 109.2 105.2 97.4 104.5 105.4 104.5 105.4 109.8 101.1 100.1 102.9	108.8 113.8 108.5 119.1 111.8 113.6 106.1 99.4 104.8 107.3 108.8 102.1 101.2 103.9	109.6 114.0 108.1 119.2 112.4 115.5 107.8 100.2 109.0 108.5 109.9 103.3 103.3 103.4	109.7 114.9 110.4 119.4 113.1 116.3 106.8 97.8 106.9 108.0 109.3 103.0 102.1 104.9	109.4 114.1 109.0 119.8 111.6 115.8 106.9 98.1 109.4 106.6 110.1 103.0 101.0 107.0	108.3 112.5 106.0 118.6 110.4 112.0 106.5 97.9 97.9 108.6 105.6 110.8 102.3 100.7 105.3	106.6 110.2 98.5 117.4 109.7 112.8 105.7 95.2 107.2 106.0 109.5 101.1 100.1 103.0	104.9 107.2 90.1 117.0 107.2 109.1 105.0 91.7 107.8 105.8 108.4 100.8 99.8 102.8	104.4 106.4 90.8 116.2 105.6 106.0 104.3 92.8 108.0 104.6 106.6 100.9 100.6 101.4
<b>5</b> 1	SPECIAL AGGREGATES	97.3	109.5	108.6	108.9	109.0	109.2	109.5	110.0	110.6	110.7	110.6	110.0	108.9	107.9	107.3
52 53 54 55	Total excluding motor vehicles and parts Total excluding office and computing machines Consumer goods excluding autos and trucks . Consumer goods excluding energy Business equipment excluding autos and	95.3 97.5 24.5 23.3	109.8 108.2 107.9 107.5	109.0 106.6 108.4 105.8	109.2 107.6 107.8 107.6	109.2 108.0 107.5 108.0	109.5 107.8 107.9 107.5	109.7 108.4 107.6 107.8'	110.2 109.1 107.5 108.1	110.8 109.3 107.6 107.6	110.9 109.4 108.2 107.7	110.7 109.5 108.4 108.7	110.2 108.8 108.7 108.6	109.3 107.2 107.8 106.6	108.4 106.0 107.7 105.8	107.8 105.6 107.3 105.7
57	trucks Business equipment excluding office and computing equipment Materials excluding energy	12.7 12.0 28.4	125.6 118.7 110.0	122.8 114.0 108.1	122.9 116.2 109.2	124.0 118.2 109.1	124.2 117.2 109.4	125.3 119.4 110.2	125.6 120.2 111.4	127.2 120.5 112.1	127.8 121.1 112.3	128.0 122.0 111.8	127.2 120.6 110.6	126.5 118.4 108.8	125.2 116.8 106.5	124.5 116.9 105.7

#### 2.13-Continued

_		SIC	1987 pro-	1990					<u> </u>	1	990						1991
	Groups	code	por- tion	avg.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct."	Nov.'	Dec."	Jan. <sup>p</sup>
									-	Inde	x (1987 =	= 100)					
	Major Industry						[			T		[			1		Γ
1	Total index		100.0	109.2	107.5	108.5	108.9	108.8	109.4	110.1	110.4	110.5	110.6	109.9	108.2	107.0	106.5
2 3 4	Manufacturing Primary processing Advanced processing		84.4 26.7 57.7	109.9 106.2 111.6	108.1 106.2 109.0	109.6 106.9 110.9	109.8 106.0 111.7	109.5 105.9 111.3	110.3 106.1 112.4	110.8 107.0 112.6	111.1 107.9 112.5	111.1 108.0 112.5	111.2 106.9 113.2	110.7 106.2 112.8	108.9 104.7 110.8	107.3 102.9 109.4	106.9 101.6 109.3
5 6 7	Durable Lumber and products Furniture and fixtures	24 25	47.3 2.0 1.4	111.6 101.7 105.9	108.6 106.0 105.1	110.7 104.3 104.8	111.9 105.0 105.9	111.1 103.3 107.6	112.6 101.7 108.0	113.4 102.0 108.7	113.4 103.6 108.0	113.5 100.5 106.7	113.8 100.3 106.9	112.5 98.2 104.4	109.8 94.9 102.4	107.3 95.4 102.1	106.9 94.1 101.4
8 9 10	Clay, glass, and stone products Primary metals Iron and steel	32 33 331,2	1.9	105.7 108.2 109.6	110.0 105.0 104.6	108.0 107.9 110.6	107.7 105.4 106.1	105.1 106.4 106.7 104.9	106.4 106.2 105.5 107.6	106.1 109.5 110.3	106.0 110.3 110.6	106.6 114.6 118.3	104.5 111.6 113.9	104.4 108.6 110.3	103.8 109.0 112.5 109.5	102.0 102.9 103.5	100.2 98.1 97.4
11 12 13	Raw steel Nonferrous Fabricated metal	333-6,9	.1 1.4	109.6	109.9 105.6	109.0 104.0	105,9 104,3	104.9	107.1	111.8	113.9 109.8	118.5	111.6 108.4	112.8 106.2	104.1	100.6	97.6 99.1
14 15	products Nonelectrical machinery. Office and computing	34 35	5.4 8.6	105.8 126.4	105.1 123.7	105.6 124.2	105.5 125.2	105.0 125.7	107.1 126.9	106.7 127.5	107.7 128.3	107.9 128.8	106.8 128.5	106.4 128.1	104.3 126.2	101.6 123.9	100.8 123.0
16 17	machines Electrical machinery Transportation	357 36	2.5 8.6	149.4 111.4	142.7 110.1	144.3 111.0	147,3 112,3	149.3 111.3	149.0 112.4	150.6 112.8	152.7 112.2	152.2 112.5	153.6 112.5	155.3 110.8	149.3 110.4	144.7 108.8	142.7 109.1
18	equipment	37	9.8	105.4	94.7	103.5	107.9	105.1	109.0	111.0	109.3	107.9	111.1	109.2	99.8	95.7	97.0
t9	parts	371	4.7	96.8	76.8	94.1	103.5	95.8	104.0	108.0	102.7	101.0	107.5	103.8	85.8	17.7	81.6
20	trucks Aerospace and miscel- laneous transpor-		2.3	96.6	65.7	91.8	106.7	94.6	104.3	111.6 	103.8	100.9	112.8	107.1	83.7	74.9	80.1
21 22	tation equipment Instruments	372-6,9 38	5.1 3,3	113.1 116.9	111.0 116.0	111.9 116,2	111.9 115.7	113.4 115.8	113.5 116.5	113.8 115.0	115.2 116.9	114.1 117.5	114.2 118.4	114.0 118.1	112.4 118.3	111.9 118.3	111.0 117.5
22	manufacturers	39	1.2	120.0	117.0	118.1	118.6	118.6	119.1	119.6	120.4	121.8	121.3	121.5	122.1	120.3	120.4
23 24 25 26 27 28 29 30 31 32	Nondurable	20 21 22 23	37.2 8.8 1.0 1.8 2.4 3.6 6.4 8.6 1.3	107.8 107.7 98.5 100.9 98.9 105.2 112.0 110.3 108.1	107.5 106.8 101.3 100.6 102.4 103.8 110.7 109.9 108.6	108.3 107,4 102.3 103.0 102.1 105.0 112.1 110.5 112.0	107.2 107.1 100.0 99.8 99.8 102.8 111.4 109.5 109.1	107.5 107.0 98.8 100.9 98.7 105.3 112.0 110.3 106.8	107.4 106.8 97.2 102.7 99.2 104.0 112.8 109.2 104.6	107.6 106.1 95.6 103.6 99.3 104.2 112.0 110.3 106.5	108.1 107.1 98.5 102.9 99.2 107.8 111.4 110.4 110.5	108.1 107.7 96.3 100.4 98.8 106.5 110.9 111.1 110.2	108.0 107.6 96.4 100.7 98.4 107.5 111.6 110.9 109.3	108.4 108.8 97.8 101.2 97.2 106.8 112.9 110.7 108.6	107.7 109.7 98.6 97.5 95.5 104.5 112.8 110.5 107.6	107.4 109.3 100.0 96.2 95.3 105.0 113.3 109.7 104.7	106.9 109.1 99.5 95.7 93.8 104.7 113.3 108.9 104.6
33	products Leather and products	30 31	3.0 .3	110.1 100.0	110.7 104.3	109,1 102,9	109.8 103.3	109.0 102.6	110.9 103.5	112.8 102.0	110.9 102.5	112.0 99.6	110.3 100.3	110.6 95.3	108.2 89.9	106.7 92.3	106.3 90.3
34 35 36 37 38	Mining Metal Coal Oil and gas extraction Stone and earth minerals	10 11,12 13 14	7.9 .3 1.2 5.7 .7	102.4 153.0 113.2 95.3 119.5	101.7 144.8 114.1 94.4 121.2	101.0 143.4 111.9 94.1 120.0	101.1 141.4 112.9 94.6 116.5	102.9 152.7 114.2 95.7 120.2	102.2 148.7 110.0 96.0 119.9	102.2 156.7 113.5 94.6 121.1	104.0 164.8 118.5 95.5 121.8	102.4 155.7 110.2 95.8 120.1	103.9 163.6 116.8 95.8 121.7	102.6 146.8 114.7 95.8 118.0	102.2 153.5 112.9 95.7 114.0	102.3 159.9 110.6 95.4 118.7	102.2 154.6 112.0 95.7 115.6
39 40 41	Utilities Electric Gas	491,3PT 492,3PT	7.6 6.0 1.6	107.9 110.8 97.1	106.8 108.3 101.2	104.0 107.1 92.3	106.2 109.7 93.3	106.7 109.7 95.5	107.1 110.3 95.2	109.7 113.1 97.4	109.7 112.1 100.7	111.4 113.6 103.3	110.3 112.9 100.9	109.2 112.1 98.1	106.8 109.7 96.1	107.9 110.8 97.0	107.1 110.1 95.9
	Special Aggregates																
	Manufacturing excluding motor vehicles and parts Manufacturing excluding		79.8	110.7	109.9	110.5	110.2	110.3	110.7	111.0 <sup>r</sup>	111.6'	111.7	111.4	111.1	110.2	109.1	108.4
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	office and computing machines		82.0	108.7	107.1	108.6	108.7	108.3	109.2 <sup>r</sup>	109.6'	109.8″	109.9	110.0	109.4	107.7	106.2	105.8
							Gross va	lue (billi	ons of 1	982 dolla	rs, annu	al rates)		•	•		<b></b>
	Major Market		_							[							
44	Products, total		1734.8	1,910.6	1,863.6	1,903.3	1,922.6	1,906.2	1,922.2	1,937.0	1,923.5	1,929.5	1,941.6	1,939.6	1,882.8	1,850.2	1,852.1
46 47	Final Consumer goods Equipment Intermediate		1350.9 833.4 517.5 384.0	1,496.7 882.2 614.4 414.0	1,447.9 864.3 583.6 415.7	1,488.3 888.6 599.8 415.0	1,507.5 893.4 614.1 415.1	1,493.9 883.9 610.0 412.3	1,506.0 885.9 620.1 416.2	1,523.4 893.8 629.6 413.6	1,508.7 886.0 622.7 414.9	1,516.3 885.9 630.4 413.1	1,529.1 895.2 633.9 412.5	1,523.7 892.7 631.0 415.9	1,470.8 865.2 605.6 412.0	1,439.5 850.9 588.6 410.7	1,442.5 852.4 590.2 409.6

1. These data also appear in the Board's G.17 (419) release. For requests see address 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.

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## 2.14 HOUSING AND CONSTRUCTION

Monthly figures are at seasonally adjusted annual rates except as noted.

_	<u></u>	1000	1000						19	90				
	Item	1988	1989	1990	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.'	Nov.'	Dec.
			• • • • • •	•	Priv	ate reside	ntial real	estate acti	vity (thou	sands of ı	inits)			
	New Units													
1 2 3	Permits authorized t-family 2-or-more-family	1,456 994 462	1,339 932 407	1,096 792 304	1,232 912 320	1,108 813 295	1,065 802 263	1,108 796 312	1,082 780 302	1,050 762 288	992 737 255	920 708 212	906 671 235	844 645 199
4 5 6	Started 1-family 2-or-more-family	1,488 1,081 407	1,376 1,003 373	1,193 895 298	1,298′ 988′ 310′	1,217' 901' 316'	1,208' 897 311'	1,187 <sup>7</sup> 890 <sup>7</sup> 297 <sup>7</sup>	1,155′ 876′ 279′	1,131 835' 296'	1,106 858 <sup>r</sup> 248 <sup>r</sup>	1,026 839 187	1,130 769 361	975 749 226
7 8 9	1-family	919 570 350	850 535 315	721 455 266	887 567 320	876 559 317	857 546 311	849 540 309	833 529 304	815 517 298	792 505 287	766 496 270	760 488 272	751 483 268
10 11 12	Completed 1-family 2-or-more-family	1,530 1,085 445	1,423 1,026 396	1,307 965 342	1,378 1,037 341	1,295 942 353	1,363 1,008 355	1,295 946 349	1,300 981 319	1,314 954 360	1,333 970 363	1,269 931 338	1,242 918 324	1,150 872 278
13	Mobile homes shipped	218	198	188	192′	1907	190″	190'	187′	193'	184″	186	181	167
14 15	Merchant builder activity in I-family units Number sold Number for sale, end of period <sup>1</sup>	675 367	650 362	537 319	558 363	533 363	536 360	550 354	541 351	527 345	505 <sup>r</sup> 338 <sup>r</sup>	475 334	496 327	463 319
16 17	Average	113.3 139.0	120.4	122.9	119.4	130.0 153.4	125.0	125.0	118.7 149.8	118.4 144.7	113.0 <sup>r</sup> 142.1	120.0	120.0 145.7	133.0 163.5
17	Existing Units (I-family)	139.0	146.5	150.0	144.0	155.4	150.0	150.4	147.0	144.7	142.1	152.7	145.7	103,5
18	Number sold	3,594	3,439	3,300	3,400	3,330	3,300	3,330	3,330	3,500	3,170	3,050	3,150	3,220
19 20	Price of units sold (thousands of dollars) <sup>2</sup> Median Average	89.2 112.5	93.0 118.0	95.2 118.3	96.3 119.5	95.6 117.8	95.6 118.7	97.5 121.1	98.3 122.0	97.1 120.5	94.4 116.7	92.9 115.9	91.8 115.5	91.9 114.0
						Value of	new cons	truction <sup>3</sup>	(millions c	of dollars)				
	Construction													
21	Total put in place	422,076	432,068	434,937	457,272	444,737	443,805	441,088	437,010	436,338	423,941	423,320	417,097	415,110
22 23 24	Private Residential Nonresidential, total Buildings	327,102 198,101 129,001	333,514 196,551 136,963	325,095 187,423 137,672	347,366 206,868 140,498	338,780 200,234 138,546	333,992 196,055 137,937	329,556 189,462 140,094	331,269 187,083 144,186	323,518 184,409 139,109	317,516 179,713 137,803	311,397 176,824 134,573	303,241 171,464 131,777	299,954 167,541 132,413
25 26 27 28	Industrial Commercial Other Public utilities and other	14,931 58,104 17,278 38,688	18,506 59,389 17,848 41,220	20,582 54,673 18,826 43,591	21,086 57,210 17,646 44,556	21,039 55,765 18,227 43,515	20,847 54,698 18,379 44,013	20,405 56,581 19,272 43,836	23,609 56,951 19,792 43,834	20,239 55,347 19,801 43,722	19,862 53,648 20,267 44,026	19,616 51,996 19,634 43,327	19,548 49,529 19,382 43,318	20,906 50,253 18,378 42,876
29 30 31 32 33	Public Military . Highway . Conservation and development Other	94,971 3,579 30,140 4,726 56,526	98,551 3,520 29,502 4,969 60,560	109,841 3,789 32,044 4,718 69,290	109,906 5,099 32,374 4,996 67,437	105,957 5,057 29,714 4,979 66,207	109,813 5,459 30,658 5,504 68,192	111,532 5,868 30,311 3,958 71,395	105,741 3,308 28,775 4,460 69,198	112,820 2,888 31,865 4,776 73,291	106,425 2,543 31,322 3,482 69,078	111,923 2,401 33,398 4,944 71,180	113,856 2,821 35,324 5,056 70,655	115,156 2,292 36,271 5,308 71,285

Not at annual rates.
 Not seasonally adjusted.
 Value of new construction data in recent periods may not be strictly comparable with data in previous periods because of changes by the Bureau of the Census in its estimating techniques. For a description of these changes see Construction Reports (C-30-76-5), issued by the Bureau in July 1976.

NOTE. 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 16,000 jurisdictions beginning with 1978.

## 2.15 CONSUMER AND PRODUCER PRICES

Percentage changes based on seasonally adjusted data, except as noted

		from 12 s earlier	Cha	nge from 3 (at ann	months e ual rate)	arlier		Change f	rom 1 mor	nth earlier		Index
Item	1990	1991		19	90'			19	90″		1991	level Jan. 1991
	Jan.	Jan.	Mar.	June	Sept.	Dec.	Sept.	Oct.	Nov.	Dec.	Jan.	
Consumer Prices <sup>2</sup> (1982-84=100)	5.2	5.7	7.5	4.1	8.2	4.9	.8	.6	.3	.3	.4	134.6
2 Food 3 Energy items 4 All items less food and energy. 5 Commodities 6 Services	6.7 9.7 4.4 2.6 5.3	4.1 9.7 5.6 4.0 6.3	10.4 12.0 6.5 5.7 6.9	2.5 1.2 4.6 2.0 5.5	4.6 44.2 6.0 3.3 7.2	3.9 18.0 3.8 2.3 4.8	.3 5.3 .4 .3 .4	.4 4.2 .3 .2 .3	.4 .5 .3 .2 .4	.1 4 .4 .2 .4	.6 -2.4 .8 1.0 .7	135.8 107.1 139.4 125.9 147.1
PRODUCER PRICES (1982=100) 7 Finished goods	5.9 6.2 19.6 4.2 3.5	3.7 .6 12.7 4.0 3.5	6.4 8.8 16.9 3.9 4.4	1.0 -1.6 -4.6 3.8 2.7	11.3 2.3 118.7 3.5 3.6	4.4 1.3 17.7 3.1 3.3	1.3 5 11.3 .5 .3	1.2 .6 9.1 .1 .2	.4 .2 .2 .7 .2	6 5 -4.7 .0 .3	1 3 -2.5 .8 .3	121.9 124.6 81.9 132.1 125.4
12 Intermediate materials <sup>3</sup> 13 Excluding energy	2.7 .3	2.9 2.0	1.4 1.0	.4 .7	13.4 4.0	3.8 2.0	1.7 .5	1.5 .3	.3 .2	<b>8</b> 1	4 .1	116.7 122.4
Crude materials 14 Foods 15 Energy 16 Other	.9 15.6 -5.8	-5.4 20.3 1.0	4.7 .5 3.7	-3.8 -39.2 13.5	-7.8 305.8 5.9	-5.3 -20.2 -18.5	-1.2 13.0 9	.5 18.0 ~1.4	-1.2 -10.3 -2.2	7 -10.7 -1.6	-1.5 6.3 .3	107.4 99.0 133.4

Not seasonally adjusted.
 Figures for consumer prices are those for all urban consumers and reflect a rental equivalence measure of homeownership after 1982.

3. Excludes intermediate materials for food manufacturing and manufactured animal feeds. SOURCE, Bureau of Labor Statistics.

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### 2.16 GROSS NATIONAL PRODUCT AND INCOME

Billions of current dollars except as noted; quarterly data are at seasonally adjusted annual rates.

					1989			90	
	Account	1988	1989	1990	Q4	QI	Q2	Q3	Q4
	GROSS NATIONAL PRODUCT								
1	Total	4,873.7	5,200.8	5,463.0	5,289.3	5,375.4	5,443.3	5,514.6	5,518.9
	By source Personal consumption expenditures Durable goods Nondurable goods Services	3,238.2 457.5 1,060.0 1,720.7	3,450.1 474.6 1,130.0 1,845.5	3,658.1 481.6 1,194.2 1,982.3	3,518.5 471.2 1,148.8 1,898.5	3,588.1 492.1 1,174.7 1,921.3	3,622.7 478.4 1,179.0 1,965.3	3,693.4 482.3 1,205.0 2,006.2	3,728.1 473.5 1,218.3 2,036.3
6 7 9 10 11	Gross private domestic investment Fixed investment Nonresidential Structures Producers' durable equipment Residential structures	747.1 720.8 488.4 139.9 348.4 232.5	771.2 742.9 511.9 146.2 365.7 231.0	745.0 747.2 524.3 147.2 377.2 222.9	762.7 737.7 511.8 147.1 364.7 225.9	747.2 758.9 523.1 148.8 374.3 235.9	759.0 745.6 516.5 147.2 369.3 229.1	759.7 750.7 532.8 149.8 383.0 217.9	714.0 733.6 525.0 142.8 382.2 208.6
12 13	Change in business inventories Nonfarm	26.2 29.8	28.3 23.3	-2.2 -4.7	25.0 24.1	-11.8 -17.0	13.4 13.0	9.0 6.8	-19.5 -21.6
14 15 16	Net exports of goods and services Exports Imports	74.1 552.0 626.1	46.1 626.2 672.3	38.0 670.4 708.4	-35.3 642.8 678.1	-30.0 661.3 691.3	-24.9 659.7 684.6	-41.3 672.7 714.1	-55.9 687.7 743.7
17 18 19	Government purchases of goods and services Federal State and local	962.5 380.3 582.3	1,025.6 400.0 625.6	1,098.0 424.2 673.8	1,043.3 399.9 643.4	1,070.1 410.6 659.6	1,086.4 421.9 664.6	1,102.8 425.8 677.0	1,132.7 438.5 694.2
20 21 22 23 24 25	By major type of product Final sales, total Goods Durable Nondurable Services Structures	4,847.5 1,908.9 840.3 1,068.6 2,488.6 450.0	5,172.5 2,044.4 894.7 1,149.7 2,671.2 456.9	5,465.3 2,146.5 938.2 1,208.4 2,860.5 458.2	5,264.3 2,060.9 894.2 1,166.7 2,747.5 455.9	5,387.2 2,122.8 941.4 1,181.4 2,791.3 473.0	5,429.9 2,133.1 930.1 1,203.0 2,834.2 462.5	5,505.6 2,161.4 943.4 1,218.0 2,889.6 454.6	5,538.4 2,168.9 937.9 1,231.0 2,926.8 442.7
26 27 28	Change in business inventories Durable goods Nondurable goods	26.2 19.9 6.4	28.3 11.9 16.4	-2.2 -5.6 3.3	25.0 13.2 11.9	-11.8 -21.6 9.8	13.4 .0 13.4	9.0 9.8 8	-19.5 -10.4 -9.1
	Мемо Total GNP in 1982 dollars	4,016.9	4,117.7	4,155.8	4,133.2	4,150.6	4,155.1	4,170.0	4,147.6
	NATIONAL INCOME								
	Total	3,984.9	4,223.3	4,417.5	4,267.1	4,350.3	4,411.3	4,452.4	n.a.
31 32 33 34 35 36 37	Compensation of employees Wages and salaries Government and government enterprises Other Supplement to wages and salaries Employer contributions for social insurance Other labor income	2,905.1 2,431.1 446.6 1,984.5 474.0 248.5 225.5	3,079.0 2,573.2 476.6 2,096.6 505.8 263.9 241.9	3,244.2 2,705.3 508.0 2,197.3 538.9 280.8 258.1	3,128.6 2,612.7 486.7 2,126.0 515.9 268.4 247.5	3,180.4 2,651.6 497.1 2,154.5 528.8 276.0 252.8	3,232.5 2,696.3 505.7 2,190.6 536.1 279.7 256.4	3,276.9 2,734.2 511.3 2,222.9 542.7 282.7 260.0	3,286.9 2,739.1 518.1 2,221.0 547.8 284.6 263.2
38 39 40	Proprietors' income <sup>1</sup> Business and professional <sup>1</sup> Farm <sup>1</sup>	354.2 310.5 43.7	379.3 330.7 48.6	402.4 352.5 49.9	381.7 336.0 45.7	404.0 346.6 57.4	401.7 350.8 51.0	397.9 355.6 42.4	406.1 357.2 48.9
	Rental income of persons <sup>2</sup>	16.3	8.2	6.7	4.1	5.5	4.3	8.4	8.5
42 43 44 45	Corporate profits <sup>1</sup> Profits before tax <sup>3</sup> Inventory valuation adjustment Capital consumption adjustment	337.6 316.7 27.0 47.8	311.6 307.7 -21.7 25.5	297.1 305.4 13.2 4.9	290.9 289.8 -14.5 15.6	296.8 296.9 -11.4 11.3	306.6 299.3 5 7.7	300.7 318.5 -19.8 2.0	n.a. n.a. ~21.2 ~1.4
46	Net interest	371.8	445.1	467.1	461.7	463.6	466.2	468.3	470.2

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

3. For after-tax profits, dividends, and the like, see table 1.48. SOURCE. Survey of Current Business (Department of Commerce).

#### 2.17 PERSONAL INCOME AND SAVING

Billions of current dollars; quarterly data are at seasonally adjusted annual rates. Exceptions noted.

				1989			990	
Account	1988	1989	1990	Q4	QI	Q2	Q3	Q4
PERSONAL INCOME AND SAVING								
l Total personal income	4,070.8	4,384.3	4,645.6	4,469.2	4,562.8	4,622.2	4,678.5	4,719.0
Wage and salary disbursements     Commodity-producing industries     Manufacturing     Distributive industries     Service industries     Government and government enterprises	2,431.1 696.4 524.0 572.0 716.2 446.6	2,573.2 720.6 541.8 604.7 771.4 476.6	2,705.3 729.2 546.7 637.1 831.0 508.0	2,612.7 721.4 540.9 614.6 790.0 486.7	2,651.6 724.6 541.2 627.0 802.9 497.1	2,696.3 731.1 548.1 637.3 822.2 505.7	2,734.2 735.3 551.8 642.7 844.9 511.3	2,739.1 725.6 545.6 641.5 853.9 518.1
<ul> <li>8 Other labor income</li> <li>9 Proprietors' income<sup>1</sup></li> <li>10 Business and professional<sup>1</sup></li> <li>11 Farm<sup>1</sup></li> <li>12 Rental income of persons<sup>2</sup></li> <li>13 Dividends</li> <li>14 Personal interest income</li> <li>15 Transfer payments</li> <li>16 Old-age survivors, disability, and health insurance benefits</li> </ul>	225.5 354.2 310.5 43.7 16.3 102.2 547.9 587.7 300.5	241.9 379.3 330.7 48.6 8.2 114.4 643.2 636.9 325.3	258.1 402.4 352.5 49.9 6.7 123.8 680.9 694.6 350.7	247.5 381.7 336.0 45.7 4.1 118.2 664.9 655.9 334.1	252.8 404.0 346.6 57.4 5.5 120.5 670.5 680.9 347.2	256.4 401.7 350.8 51.0 4.3 122.9 678.0 686.7 347.6	260.0 397.9 355.6 42.4 8.4 124.9 685.3 696.4 351.1	263.2 406.1 357.2 48.9 8.5 126.7 690.1 714.3 356.8
17 LESS: Personal contributions for social insurance	194.1	212.8	226.2	215.8	222.9	224.1	228.6	229.0
18 EQUALS: Personal income	4,070.8	4,384.3	4,645,6	4,469.2	4,562.8	4,622.2	4,678.5	4,719.0
19 LESS: Personal tax and nontax payments	591.6	658.8	699.8	669.6	675.1	696,5	709.5	718.1
20 EQUALS: Disposable personal income	3,479.2	3,725.5	3,945.8	3,799.6	3,887.7	3,925.7	3,969.1	4,000.9
21 LESS: Personal outlays	3,333.6	3,553.7	3,766,8	3,625.5	3,696.4	3,730.6	3,802.6	3,837.4
22 EQUALS: Personal saving	145.6	171.8	179.1	174.1	191.3	195.1	166.5	163.5
МЕмо           Per capita (1982 dollars)           23         Gross national product           24         Personal consumption expenditures           25         Disposable personal income           26         Saving rate (percent)	16,302.4 10,578.3 11,368.0 4.2	16,550.2 10,678.5 11,531.0 4.6	16,530.6 10,669.1 11,508.0 4,5	16,546.0 10,688.2 11,541.0 4.6	16,575.9 10,692.1 11,586.0 4.9	16,554.2 10,672.5 11,564.0 5.0	16,560.8 10,710.1 11,511.0 4.2	16,426.1 10,597.2 11,374.0 4.1
Gross Saving								
27 Gross saving	656.1	691.5	657.9	674.8	664.8	679.3	665.9	n.a.
28 Gross private saving         29 Personal saving         30 Undistributed corporate profits'         31 Corporate inventory valuation adjustment	751.3 145.6 91.4 -27.0	779.3 171.8 53.0 -21.7	783.9 179.1 29.1 -13.2	786.4 174.1 39.8 14.5	795.0 191.3 36.7 -11.4	806.7 195.1 40.5 -,5	772.2 166.5 26.5 ~19.8	n.a. 163.5 n.a. -21.2
Capital consumption allowances 32 Corporate	322.1 192.2	346.4 208.0	363.0 212.6	356.5 216.0	356.7 210.3	359.7 211.4	365.5 213.8	370.3 214.9
<ul> <li>34 Government surplus, or deficit (-), national income and product accounts</li> <li>35 Federal</li> <li>36 State and local</li> </ul>	-95.3 -141.7 46.5	-87.8 134.3 46.4	-126.0 -161.3 35,4	-111.6 -150.1 38.5	-130.2 -168.3 38.1	127.3 166.0 38.6	-106.4 -145.7 39.3	n.a. n.a. n.a.
37 Gross investment	627.8	674.4	654.8	671.8	665.6	676.1	661.0	616.7
38 Gross private domestic         39 Net foreign	747.J -119.2	771.2 -96.8	745.0 ~90.1	762.7 90.9	747.2 -81.6	759.0 -82.9	759.7 ~98.7	714.0 -97.3
40 Statistical discrepancy	-28.2	-17.0	-3.1	-3.0	.7	-3.2	-4.9	n.a.

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

SOURCE. Survey of Current Business (Department of Commerce).

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#### 3.10 U.S. INTERNATIONAL TRANSACTIONS Summary

Millions of dollars; quarterly data are seasonally adjusted except as noted.<sup>1</sup>

han an Ra an Jakim	1987	1099	1080	19	89	1990			
Item credits or debits	1987	1988	1989	Q3	Q4	Q1	Q2	Q3 <i><sup>p</sup></i>	
1 Balance on current account         2 Not seasonally adjusted         3 Merchandise trade balance <sup>2</sup> 4 Merchandise exports         5 Merchandise imports         6 Military transactions, net         7 Investment income, net         8 Other service transactions, net         9 Remittances, pensions, and other transfers         10 U.S. government grants	-162,315 -159,500 250,266 -409,766 -3,530 5,326 9,964 -4,299 -10,276	-128,862 -126,986 320,337 -447,323 -5,452 1,610 16,971 -4,261 -10,744	-110,035 -114,864 360,465 -475,329 -6,319 -913 26,783 -3,758 -10,963	-27,591 -31,620 -29,803 89,349 -119,152 -1,114 17 6,839 -909 -2,621	-26,692 -27,926 -28,746 91,738 -120,484 -1,776 561 7,900 -889 -3,742	-21,668 -17,922 -26,283 96,262 -122,545 -1,287 1,995 7,292 -983 -2,402	-22,485 -20,987 -23,102 96,758 -119,860 -1,382 -999 7,364 -865 -3,501	25,585 29,989 -29,752 96,159 -125,911 1,648 2,455 7,465 -1,078 3,027	
11 Change in U.S. government assets, other than official reserve assets, net (increase, -)	997	2,969	1,185	574	47	-659	-808	- 379	
<ol> <li>Change in U.S. official reserve assets (increase, -)</li> <li>Gold</li></ol>	9,149 0 -509 2,070 7,588	-3,912 0 127 1,025 -5,064	-25,293 0 -535 471 -25,229	-5,996 0 -211 337 -6,122	-3,202 0 -204 -23 -2,975	-3,177 0 -247 234 -3,164	371 0 -216 493 94	1,739 0 363 8 1,368	
<ol> <li>Change in U.S. private assets abroad (increase, ~)</li> <li>Bank-reported claims<sup>3</sup></li> <li>Nonbank-reported claims.</li> <li>U.S. purchase of foreign securities, net</li> <li>U.S. direct investments abroad, net</li> </ol>	-73,092 -42,119 5,324 -5,251 -31,046	-83,232 -56,322 -2,847 -7,846 -16,217	-102,953 -50,684 1,391 -21,938 -31,722	38,654 21,269 1,877 9,623 9,639	-45,496 -32,658 47 -4,109 -8,776	36,713 52,353 1,202 -7,496 -9,346	-31,284 -13,639 -1,550 -11,247 -4,848	-27,811 -7,603 -913 -19,295	
<ul> <li>22 Change in foreign official assets in United States (increase, +).</li> <li>23 U.S. Treasury securities.</li> <li>24 Other U.S. government obligations.</li> <li>25 Other U.S. government liabilities<sup>4</sup>.</li> <li>26 Other U.S. liabilities reported by U.S. banks<sup>3</sup>.</li> <li>27 Other foreign official assets<sup>3</sup>.</li> </ul>	45,210 43,238 1,564 -2,503 3,918 -1,007	39,515 41,741 1,309 -710 -319 -2,506	8,823 333 1,383 332 4,940 1,835	13,003 12,771 190 -350 -251 643	-7,016 -7,342 569 412 -820 165	-8,203 -5,897 -521 -381 -1,278 -126	5,541 2,442 346 1,089 1,918 -254	13,642 12,008 134 234 1,539 -273	
<ul> <li>28 Change in foreign private assets in United States (increase, +).</li> <li>9 U.S. bank-reported liabilities<sup>3</sup></li> <li>30 U.S. nonbank-reported liabilities.</li> <li>31 Foreign private purchases of U.S. Treasury securities, net .</li> <li>32 Foreign purchases of other U.S. securities, net .</li> <li>33 Foreign direct investments in United States, net .</li> </ul>	173,260 89,026 2,863 -7,643 42,120 46,894	181,926 70,235 6,664 20,239 26,353 58,435	205,829 61,199 2,867 29,951 39,568 72,244	61,133 27,845 -2,175 12,618 10,470 12,375	76,336 36,674 1,732 5,671 10,793 21,466	-24,786 -32,264 290 -835 2,486 5,537	19,954 4,897 1,317 3,614 2,890 7,236	38,829 32,288 453 1,543 7,631	
<ul> <li>34 Allocation of SDRs</li> <li>35 Discrepancy</li> <li>36 Owing to seasonal adjustments</li> <li>37 Statistical discrepancy in recorded data before seasonal adjustment</li> </ul>	0 6,790  6,790	0 -8,404 8,404	0 22,443  22,443	0 2,469 4,953 2,484	0 6,117 3,560 2,558	0 21,780 2,804 18,976	0 28,711 988 29,699	0 -435 -5,303 4,868	
<ul> <li>MEMO Changes in official assets</li> <li>U.S. official reserve assets (increase, -)</li></ul>	9,149 47,713	-3,912 40,225	-25,293 8,491	-5, <b>996</b> 13,353	-3,202 -7,428	-3,177 -7,822	371 4,452	1,739 13,408	
official assets in United States (part of line 22 above)	-9,956	-2,996	10,713	4,532	-1,379	2,953	208	-1,251	

Seasonal factors are not calculated for lines 6, 10, 12–16, 18–20, 22–34, and 38–41.
 Data are on an international accounts (IA) basis. Differs from the Census basis data, shown in table 3.11, for reasons of coverage and timing. Military exports are excluded from merchandise data and are included in line 6.
 Reporting banks include all kinds of depository institutions besides commer-cial banks, as well as some brokers and dealers.

Primarily associated with military sales contracts and other transactions arranged with or through foreign official agencies.
 Consists of investments in U.S. corporate stocks and in debt securities of private corporations and state and local governments. Norte. Data are from Bureau of Economic Analysis, Survey of Current Business (Department of Commerce).

### 3.11 U.S. FOREIGN TRADE<sup>1</sup>

Millions of dollars; monthly data are seasonally adjusted.

Item					1990							
	1988	1989	1990	June	July	Aug.	Sept.	Oct.	Nov.'	Dec. <sup>p</sup>		
1	EXPORTS of domestic and foreign merchandise excluding grant-aid shipments, f.a.s. value	322,426	363,812	394,045	34,221	32,125	32,549	32,010	35,006	34,194	33,460	
2	GENERAL IMPORTS including merchandise for immediate consumption plus entries into bonded warehouses Customs value	440,952	473,211	495,042	39,561	41,244	42,283	41,337	45,994	43,106	39,712	
3	Trade balance Customs value	-118,526	- 109,399	- 100,997	-5,340	-9,119	-9,734	-9,326	- 10,988	-8,912	-6,252	

1. The Census basis data differ from merchandise trade data shown in table 3.10, U.S. International Transactions Summary, for reasons of coverage and timing. On the *export side*, the largest adjustment is the exclusion of military sales (which are combined with other military transactions and reported separately in the "service account" in table 3.10, line 6). On the *import side*, additions are made for gold, ship purchases, imports of electricity from Canada, and other transac-

tions; military payments are excluded and shown separately as indicated above. As of Jan. 1, 1987 census data are released 45 days after the end of the month; the previous month is revised to reflect late documents. Total exports and the trade balance reflect adjustments for undocumented exports to Canada. Sounce. F1900 "Summary of U.S. Export and Import Merchandise Trade" (Department of Commerce, Bureau of the Census).

#### 3.12 U.S. RESERVE ASSETS

Millions of dollars, end of period

			1000	1000	1990							
Туре	1987	1988	1989	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan, <sup>p</sup>		
1	Total	45,798	47,802	74,609	77,906	78,909	80,024	82,852	83,059	83,340	85,025	
2	Gold stock, including Exchange Stabilization Fund <sup>1</sup>	11,078	11,057	11,059	11,064	11,065	11,063	11,060	11,059	11,058	11,058	
3	Special drawing rights <sup>2,3</sup>	10,283	9,637	9,951	10,699	10,780	10,666	10,876	11,059	10,989	10,922	
4	Reserve position in International Monetary Fund <sup>2</sup>	11,349	9,745	9,048	8,686	8,890	8,881	9,066	8,871	9,076	9,468	
5	Foreign currencies <sup>4</sup>	13,088	17,363	44,551	47,457	48,174	49,414	51,850	52,070	52,217	53,577	

Gold held under earmark at Federal Reserve Banks for foreign and interna-tional accounts is not included in the gold stock of the United States; see table
 3.13. Gold stock is valued at \$42.22 per fine troy ounce.
 Beginning July 1974, the IMF adopted a technique for valuing the SDR based on a weighted average of exchange rates for the currencies of member countries. From July 1974 through December 1980, 16 currencies were used; from January 1981, 5 currencies have been used. The U.S. SDR holdings and reserve position

in the IMF also are valued on this basis beginning July 1974. 3. Includes allocations by the International Monetary Fund of SDRs as follows: \$867 million on Jan. 1, 1970; \$717 million on Jan. 1, 1971; \$710 million on Jan. 1, 1972; \$1,139 million on Jan. 1, 1979; \$1,152 million on Jan. 1, 1980; and \$1,093 million on Jan. 1, 1981; plus transactions in SDRs. 4. Valued at current market exchange rates.

#### 3.13 FOREIGN OFFICIAL ASSETS HELD AT FEDERAL RESERVE BANKS<sup>1</sup>

Millions of dollars, end of period

			(	1990							
Assets	1987	1988	1989	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>	
Deposits	244	347	589	279	337	360	297	264	369	271	
Assets held in custody 2 U.S. Treasury securities <sup>2</sup> 3 Earmarked gold <sup>3</sup>	195,126 13,919	232,547 13,636	224,911 13,456	256,585 13,422	261,051 13,412	261,321 13,419	266,749 13,415	272,399 13,389	278,499 13,387	286,722 13,377	

Excludes deposits and U.S. Treasury securities held for international and regional organizations.
 Marketable U.S. Treasury bills, notes, and bonds; and nonmarketable U.S. Treasury securities payable in dollars and in foreign currencies at face value.

3. Earmarked gold and the gold stock are valued at \$42.22 per fine troy ounce. Earmarked gold is gold held for foreign and international accounts and is not included in the gold stock of the United States.

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#### 3.14 FOREIGN BRANCHES OF U.S. BANKS Balance Sheet Data<sup>1</sup>

Millions of dollars, end of period

							1990					
Asset account	1987	1988	1989	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
·····	All foreign countries											
1 Total, all currencies	518,618	505,595	545,366	524,010	531,418	551,346	546,140	552,510	558,608'	568,502		
2 Claims on United States	138,034 105,845 16,416 15,773 342,520 122,155 108,859 21,832 89,674	169,111 129,856 14,918 24,337 299,728 107,179 96,932 17,163 78,454	198,835 157,092 17,042 24,701 300,575 113,810 90,703 16,456 79,606	179,258 138,384 15,166 25,708 293,627 108,464 85,780 16,220 83,163	174,583 133,682 15,239 25,662 304,674 115,353 85,911 16,264 87,146	178,236 137,558 14,500 26,178 313,831 121,705 88,768 16,157 87,201	182,555 140,865 14,266 27,424 311,254 123,359 83,311 16,379 88,205	177,539 135,536 13,261 28,742 319,318 128,747 82,706 16,335 91,530	180,979 140,352 12,927 27,700 322,961 135,179 81,383 16,588 89,811	188,150 148,491 13,296 26,363 312,347 134,567 72,985 17,501 87,294		
11 Other assets	38,064	36,756	45,956	51,125	52,161	59,279	52,331	55,653	54,668'	68,005		
12 Total payable in U.S. dollars	350,107	357,573	382,498'	349,864'	346,091'	357,669'	359,828'	362,128'	371,228 <sup>r</sup>	390,175		
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         19 Public borrowers         21 Nonbank foreigners	132,023 103,251 14,657 14,115 202,428 88,284 63,707 14,730 35,707	163,456 126,929 14,167 22,360 177,685 80,736 54,884 12,131 29,934	191,184 152,294 16,386 22,504 169,690 82,949 48,396 10,961 27,384	171,551 133,167 14,575 23,809 158,452 76,410 42,918 10,956 28,168	166,294 128,066 14,375 23,853 157,910 79,241 38,815 10,652 29,202	169,714 131,994 13,513 24,207 163,152 82,564 40,733 10,939 28,916	173,978 135,068 13,416 25,494 163,650 84,378 39,419 11,166 28,687	168,956 129,850 12,441 26,665 168,345 90,198 37,531 11,201 29,415	172,145 134,255 12,078 25,812 174,397 95,599 37,740 11,199 29,859	179,561 142,349 12,513 24,699 173,712 94,939 36,439 12,297 30,037		
22 Other assets	15,656	16,432	21,624'	19,861′	21,887'	24,803'	22,200'	24,827′	24,686'	36,902		
	United Kingdom											
23 Total, all currencies	158,695	156,835	161,947	167,885	175,254	184,933	178,484	184,660	188,182 <sup>r</sup>	193,303		
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	32,518 27,350 1,259 3,909 115,700 39,903 36,735 4,752 34,310	40,089 34,243 1,123 4,723 106,388 35,625 36,765 4,019 29,979	39,212 35,847 1,058 2,307 107,657 37,728 36,159 3,293 30,477	39,904 35,924 730 3,250 108,080 38,068 34,194 3,740 32,078	40,418 36,564 894 2,960 114,254 41,181 35,085 3,619 34,369	40,092 36,140 1,037 2,915 118,423 43,581 37,623 3,757 33,462	42,568 39,042 717 2,809 114,869 44,408 34,094 3,639 32,728	39,862 35,904 694 122,203 47,390 35,480 3,521 35,812	42,301 38,453 1,088 2,760 124,077 49,501 36,133 3,675 34,768	45,560 42,413 792 2,355 115,536 46,367 31,604 3,860 33,705		
33 Other assets	10,477	10,358	15,078	19,901	20,582	26,418	21,047	22,595	21,804'	32,207		
34 Total payable in U.S. dollars	100,574	103,503	103,208'	100,641′	102,803'	106,891'	106,8997	109,950	115,283'	125,328		
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	30,439 26,304 1,044 3,091 64,560 28,635 19,188 3,313 13,424 5,575	38,012 33,252 964 3,796 60,472 28,474 18,494 2,840 10,664 5,019	36,404 34,329 843 1,232 59,062 29,872 16,579 2,371 10,240 7,742 <sup>r</sup>	36,158 33,509 552 2,097 57,802 30,050 14,625 2,942 10,185 6,681 <sup>r</sup>	36,230 33,716 681 1,833 58,278 31,220 13,621 2,839 10,598 8,295 <sup>r</sup>	35,979 33,585 721 1,673 60,390 32,976 14,570 2,896 9,948 10,5227	37,991 36,024 460 1,507 59,817 33,990 13,212 2,866 9,749 9,091'	35,429 33,145 419 1,865 63,720 37,069 13,571 2,790 10,290 10,801 <sup>r</sup>	37,668 35,614 611 1,443 66,876 39,630 13,915 2,862 10,469	41,259 39,609 334 1,316 63,701 37,142 13,135 3,143 10,281 20,368		
					Bahamas and	d Caymans		<b>5</b> 11 1 1 1 1 1	·			
45 Total, all currencies	160,321	170,639	176,006	154,354	145,813	150,695	153,234	153,497	153,615	161,968		
46 Claims on United States         47 Parent bank         48 Other banks in United States         49 Nonbanks         50 Claims on foreigners         1 Other branches of parent bank         52 Banks         53 Public borrowers         54 Nonbank foreigners	85,318 60,048 14,277 10,993 70,162 21,277 33,751 7,428 7,706	105,320 73,409 13,145 18,766 58,393 17,954 28,268 5,830 6,341	124,205 87,882 15,071 21,252 44,168 11,309 22,611 5,217 5,031	107,244 72,115 13,603 21,526 39,812 11,906 18,492 4,393 5,021	99,918 64,748 13,412 21,758 38,393 11,785 16,761 4,307 5,540	103,521 68,507 12,625 22,389 39,595 12,031 17,543 4,554 5,467	106,574 70,145 12,539 23,890 39,573 11,638 18,076 4,818 5,041	106,977 70,845 11,605 24,527 38,062 12,152 15,994 4,876 5,040	106,517 71,249 11,007 24,261 38,611 12,697 16,244 4,772 4,898	112,643 77,527 11,869 23,247 41,354 13,416 16,309 5,806 5,823		
55 Other assets	4,841	6,926	7,633	7,298	7,502	7,579	7,087	8,458	8,487	7,971		
56 Total payable in U.S. dollars	151,434	163,518	170,780	149,943	140,966	146,103	149,233	148,862	149,142	157,664		

1. Beginning with June 1984 data, 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-Continued

					1990							
	Liability account	1987	1988	1989	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
						All foreign	countries	•		•		
57	Total, all currencies	518,618	505,595	545,366	524,010	531,418	551,346	546,140	552,510	558,608'	568,502	
58 59 60 61 62	Negotiable CDs To United States Parent bank Other banks in United States Nonbanks	30,929 161,390 87,606 20,355 53,429	28,511 185,577 114,720 14,737 56,120	23,500 197,239 138,412 11,704 47,123	23,504 169,769 113,151 9,092 47,526	21,805 163,275 105,401 9,454 48,420	22,917 167,410 109,818 10,264 47,328	21,977 172,882 117,352 8,976 46,554	22,089 167,543 113,066 7,984 46,493	21,521 171,575' 115,613' 9,140' 46,822'	18,060 189,065 138,802 7,336 42,927	
64 65 66 67	To foreigners Other branches of parent bank Banks Official institutions Nonbank foreigners Other liabilities	304,803 124,601 87,274 19,564 73,364 21,496	270,923 111,267 72,842 15,183 71,631 20,584	296,850 119,591 76,452 16,750 84,057 27,777	299,951 113,653 73,896 17,637 94,765 30,786	314,503 119,476 78,190 19,468 97,369 31,835	321,365 124,393 79,485 17,801 99,686 39,654	317,204 125,382 75,353 17,475 98,994 34,077	327,139 131,045 75,815 18,436 101,843 35,739	328,534 <sup>r</sup> 137,849 <sup>r</sup> 72,352 17,996 100,337 36,978 <sup>r</sup>	311,663 138,799 58,981 14,776 99,107 49,714	
69	Total payable in U.S. dollars	361,438	367,483	396,613	358,681	355,782	365,928	364,940	363,931	372,124	394,868	
70 71 72 73 74	Negotiable CDs To United States Parent bank Other banks in United States Nonbanks	26,768 148,442 81,783 18,951 47,708	24,045 173,190 107,150 13,468 52,572	19,619 187,286 132,563 10,519 44,204	18,928 158,173 106,818 7,741 43,614	16,519 150,943 98,928 7,884 44,131	17,588 155,171 103,355 8,791 43,025	17,219 159,027 109,458 7,501 42,068	17,022 153,318 104,619 6,486 42,213	16,845 156,779' 106,828' 7,686' 42,265'	14,094 175,366 130,623 5,925 38,818	
76 77 78 79	To foreigners Other branches of parent bank Banks Official institutions . Nonbank foreigners Other liabilities	177,711 90,469 35,065 12,409 39,768 8,517	160,766 84,021 28,493 8,224 40,028 9,482	176,460 87,636 30,537 9,873 48,414 13,248	168,642 78,646 27,434 9,066 53,496 12,938	174,616 81,332 28,045 10,613 54,626 13,704	177,484 84,157 28,945 9,710 54,672 15,685	175,725 85,303 26,576 9,346 54,500 12,969	178,969 89,658 23,669 9,689 55,953 14,622	183,4617 95,5567 25,022 9,091 53,792 15,039	178,707 97,833 20,266 7,906 52,702 26,701	
		United Kingdom										
81	Total, all currencies	158,695	156,835	161,947	167,885	175,254	184,933	178,484	184,660	188,182'	193,303	
82 83 84 85 86	Negotiable CDs To United States Parent bank Other banks in United States Nonbanks	26,988 23,470 13,223 1,536 8,711	24,528 36,784 27,849 2,037 6,898	20,056 36,036 29,726 1,256 5,054	19,672 32,291 23,158 1,615 7,518	17,795 32,320 21,952 1,626 8,742	18,703 33,365 23,399 1,535 8,431	17,542 35,483 25,461 1,765 8,257	17,557 32,143 22,013 1,430 8,700	17,144 36,500 26,165 1,671 8,664	14,256 39,928 31,806 1,505 6,617	
88 89 90 91	To foreigners	98,689 33,078 34,290 11,015 20,306 9,548	86,026 26,812 30,609 7,873 20,732 9,497	92,307 27,397 29,780 8,551 26,579 13,548	99,279 26,506 28,575 10,263 33,935 16,643	107,533 28,944 32,420 11,314 34,855 17,606	109,372 28,967 34,647 9,902 35,856 23,493	106,496 30,487 30,113 9,578 36,318 18,963	114,959 32,357 33,870 10,788 37,944 20,001	113,958 34,406 32,844 9,534 37,174 20,580	108,531 36,709 25,141 8,346 38,335 30,588	
93	Total payable in U.S. dollars	102,550	105,907	108,178	101,530	104,372	108,532	107,216	108,064	114,090	124,638	
94 95 96 97 98	Negotiable CDs To United States Parent bank Other banks in United States Nonbanks	24,926 17,752 12,026 1,308 4,418	22,063 32,588 26,404 1,752 4,432	18,143 33,056 28,812 1,065 3,179	17,233 28,160 22,190 1,325 4,645	14,831 27,967 21,208 1,175 5,584	15,758 28,779 22,423 1,228 5,128	15,502 30,368 23,963 1,471 4,934	15,237 26,867 20,334 1,035 5,498	15,100 31,117 24,381 1,318 5,418	12,710 34,756 30,014 1,156 3,586	
100 101 102 103	To foreigners Other branches of parent bank Banks Official institutions Nonbank foreigners Other liabilities	55,919 22,334 15,580 7,530 10,475 3,953	47,083 18,561 13,407 4,348 10,767 4,173	50,517 18,384 12,244 5,454 14,435 6,462	49,672 16,199 9,911 5,305 18,257 6,465	54,591 17,408 11,251 6,515 19,417 6,983	55,252 17,347 13,042 5,463 19,400 8,743	54,679 18,560 11,116 5,324 19,679 6,667	57,639 20,797 10,465 5,751 20,626 8,321	59,787 23,288 11,911 5,000 19,588 8,086	60,014 25,957 9,503 4,677 19,877 17,158	
					]	Bahamas and	I Caymans					
105 '	Total, all currencies	160,321	170,639	176,006	154,354	145,813	150,695	153,234	153,497	153,615	161,968	
	Negotiable CDs To United States Parent bank Other banks in United States Nonbanks	885 113,950 53,239 17,224 43,487	953 122,332 62,894 11,494 47,944	678 124,859 75,188 8,883 40,788	535 103,592 58,880 5,984 38,728	548 95,904 51,415 6,228 38,261	553 100,622 56,092 7,039 37,491	553 104,211 62,276 5,398 36,537	560 103,545 62,474 4,959 36,112	561 103,852 61,227 5,798' 36,827'	646 114,391 74,995 4,399 34,997	
112 113 114 115	Fo foreigners Other branches of parent bank Banks Official institutions Nonbank foreigners Uther liabilities	43,815 19,185 10,769 1,504 12,357 1,671	45,161 23,686 8,336 1,074 12,065 2,193	47,382 23,414 8,823 1,097 14,048 3,087	47,613 24,184 8,969 960 13,500 2,614	47,010 24,560 8,120 999 13,331 2,351	46,922 24,965 7,469 943 13,545 2,598	46,237 24,781 7,519 731 13,206 2,233	46,867 25,864 6,794 703 13,506 2,525	46,299 25,579 6,569 763 13,388 2,903	44,444 24,715 5,588 622 13,519 2,487	
	Total pavable in U.S. dollars	152,927	162,950	171,250	149,680	140,377	145,670	148,589	147,749	147,962	156,784	

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## 3.15 SELECTED U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS

Millions of dollars, end of period

Item		1989	1990 <sup>r</sup>							
		1989	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>p</sup>	
1 Total <sup>1</sup>	304,132	312,472	310,041	312,691	321,418	323,834	329,623	340,722	343,410	
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>	31,519 103,722 152,429 523 15,939	36,496 76,985 179,264 568 19,159	37,971 71,804 178,016 3,644 18,606	38,986 72,690 178,740 3,668 18,607	40,501 72,803 185,534 3,692 18,888	39,842 72,472 189,334 3,717 18,469	44,146 72,457 190,716 3,741 18,563	42,997 80,385 195,481 3,765 18,094	38,825 78,492 203,343 4,491 18,259	
By area 7 Western Europe <sup>1</sup> 8 Canada 9 Latin America and Caribbean 10 Asia	123,752 9,513 10,030 151,887 1,403 7,548	133,417 9,482 8,740 153,338 1,030 6,469	147,167 6,961 10,451 136,335 946 8,183	149,845 8,415 9,973 135,695 917 7,848	152,777 11,083 11,190 137,008 1,697 7,665	156,432 10,171 11,406 136,383 1,383 8,058	163,383 8,903 11,244 137,082 1,305 7,707	169,573 8,639 14,081 139,376 1,404 7,650	170,816 8,618 15,654 138,202 1,387 8,031	

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.

of foreign countries. 4. Excludes notes issued to foreign official nonreserve agencies. Includes

bonds and notes payable in foreign currencies; zero coupon bonds are included at

bonds and notes payable in foreign currencies; zero coupon bonds are included at current value.
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.
NOTE. Based on 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 Payable in Foreign Currencies<sup>1</sup>

Millions of dollars, end of period

lian		1987	1988	1989	1990			
Item	1986	1987	1966	Dec.	Mar.	June	Sept.	
I Banks' own liabilities         2 Banks' own claims         3 Deposits         4 Other claims         5 Claims of banks' domestic customers <sup>2</sup>	29,702 26,180 14,129 12,052 2,507	55,438 51,271 18,861 32,410 551	74,980 68,983 25,100 43,884 364	67,822 65,127 20,491 44,636 3,507	63,244 61,100 21,590 39,510 1,649	68,547 66,655 20,256 46,399 1,501	69,683' 67,965 23,734 44,231 2,843'	

1. Data on claims exclude foreign currencies held by U.S. monetary author-ities.

2. 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

Millions of dollars, end of period

			1000				1990			
Holder and type of liability	1988	1989	1990	June	July	Aug.	Sept.	Oct.	Nov."	Dec. <sup>p</sup>
1 All foreigners	685,339	736,663	757,768	708,044	719,860	737,890	741,998	750,222'	746,976	757,768
2 Banks' own liabilities         3 Demand deposits         4 Time deposits         5 Other <sup>3</sup> 6 Own foreign offices <sup>4</sup>	514,532	577,283	579,364	544,775	554,516	570,277	572,174	576,823'	563,496	579,364
	21,863	22,030	21,733	20,347	19,723	20,505	22,086	20,320'	19,855	21,733
	152,164	168,735	167,815	150,695	153,533	156,254	158,638	158,345'	162,070	167,815
	51,366	67,700	67,272	66,016	67,214	74,923	66,373	74,426'	71,411	67,272
	289,138	318,818	322,545	307,718	314,046	318,594	325,077	323,731'	310,161	322,545
<ul> <li>7 Banks' custody liabilities<sup>5</sup></li></ul>	170,807	159,380	178,404	163,269	165,344	167,614	169,823	173,400 <sup>r</sup>	183,479	178,404
	115,056	91,100	98,383	90,082	91,884	93,038	91,464	94,971	101,430	98,383
10 Other	16,426	19,526	17,286	17,865	17,596	16,983	17,198	17,681'	18,294	17,286
	39,325	48,754	62,734	55,322	55,864	57,593	61,162	60,747	63,755	62,734
11 Nonmonetary international and regional organizations <sup>6</sup>	3,224	4,772	5,720	4,994	4,112	4,290	5,206	4,507	4,381	5,720
12 Banks' own liabilities         13 Demand deposits         14 Time deposits <sup>2</sup> 15 Other <sup>3</sup>	2,527	3,156	4,338	3,594	2,790	2,330	3,894	3,472	2,236	4,338
	71	96	36	29	46	39	101	57	33	36
	1,183	927	1,018	1,367	938	1,303	1,245	885	760	1,018
	1,272	2,133	3,284	2,198	1,807	987	2,548	2,529	1,443	3,284
<ol> <li>Banks' custody liabilities<sup>5</sup></li></ol>	698	1,616	1,382	1,399	1,322	1,959	1,311	1,034	2,145	1,382
	57	197	365	147	148	1,095	479	248	1,077	365
19 Other	641	1,417	1,017	1,253	1,159	819	817	782	1,022	1,017
	0	2	0	0	15	45	15	5	46	0
20 Official institutions <sup>9</sup>	135,241	113,481	117,317	109,774	111,676	113,304	112,313	116,602'	123,381	117,317
21       Banks' own liabilities         22       Demand deposits         23       Time deposits <sup>2</sup> 24       Other <sup>3</sup>	27,109	31,108	34,032	33,878	35,239	36,465	35,877	39,358'	37,891	34,032
	1,917	2,196	1,940	1,611	1,516	1,914	2,498	2,121	1,784	1,940
	9,767	10,495	13,598	9,951	11,290	11,039	11,187	11,100'	12,702	13,598
	15,425	18,417	18,494	22,316	22,433	23,512	22,192	26,137'	23,406	18,494
<ul> <li>25 Banks' custody liabilities<sup>5</sup></li> <li>26 U.S. Treasury bills and certificates<sup>6</sup></li> <li>27 Other negotiable and readily transferable</li> </ul>	108,132	82,373	83,285	75,896	76,437	76,839	76,436	77,244	85,490	83,285
	103,722	76,985	78,492	71,804	72,690	72,803	72,472	72,457	80,385	78,492
instruments <sup>7</sup>	4,130	5,028	4,590	3,650	3,596	3,685	3,676	4,361	4,725	4,590
	280	361	203	443	150	351	289	427	380	203
29 Banks <sup>10</sup>	459,523	515,229	540,203	497,345	507,243	524,512	529,813	528,751 <sup>r</sup>	522,536	540,203
30 Banks' own liabilities         31 Unaffiliated foreign banks         32 Demand deposits         33 Time deposits <sup>2</sup> 34 Other <sup>3</sup> 35 Own foreign offices <sup>4</sup>	409,501	454,227	460,881	424,831	433,379	449,097	451,339	450,961'	441,354	460,881
	120,362	135,409	138,337	117,114	119,334	130,502	126,262	127,230'	131,193	138,337
	9,948	10,279	10,048	9,484	9,224	9,797	10,405	8,989'	8,995	10,048
	80,189	90,557	89,063	72,618	74,103	77,585	80,214	80,350'	83,736	89,063
	30,226	34,573	39,226	35,012	36,007	43,120	35,643	37,892'	38,462	39,226
	289,138	318,818	322,545	307,718	314,046	318,594	325,077	323,731'	310,161	322,545
<ul> <li>36 Banks' custody liabilities<sup>5</sup></li></ul>	50,022	61,002	79,322	72,514	73,864	75,416	78,474	77,790 <sup>r</sup>	81,182	79,322
	7,602	9,367	12,965	13,502	13,964	13,855	13,009	13,646	13,352	12,965
39 Other	5,725	5,124	5,356	5,757	5,759	5,366	6,187	5,842′	5,837	5,356
	36,694	46,510	61,001	53,254	54,141	56,195	59,278	58,302	61,993	61,001
40 Other foreigners	87,351	103,182	94,527	95,931	96,828	95,784	94,666	100,362	96,678	94,527
41       Banks' own liabilities         42       Demand deposits         43       Time deposits'         44       Other <sup>3</sup>	75,396	88,793	80,113	82,471	83,107	82,385	81,063	83,031	82,016	80,113
	9,928	9,459	9,709	9,223	8,937	8,755	9,082	9,153	9,043	9,709
	61,025	66,757	64,136	66,759	67,202	66,326	65,992	66,010	64,872	64,136
	4,443	12,577	6,268	6,489	6,968	7,304	5,990	7,868	8,100	6,268
<ol> <li>Banks' custody liabilities<sup>5</sup></li></ol>	11,956	14,389	14,414	13,460	13,721	13,400	13,602	17,331	14,663	14,414
	3,675	4,551	6,561	4,630	5,082	5,285	5,504	8,621	6,616	6,561
	5,929	7,958	6,323	7,205	7,082	7,113	6,518	6,697	6,710	6,323
48 Other	2,351	1,880	1,530	1,625	1,558	1,001	1,580	2,013	1,336	1,530
custody for foreigners	6,425	7,203	6,522	6,429	5,909	5,713	6,346	6,199	6,466	6,522

Reporting banks include all kinds of depository institutions besides commer-cial banks, as well as some brokers and dealers.
 Excludes negotiable time certificates of deposit, which are included in "Other negotiable and readily transferable instruments."
 Includes borrowing under repurchase agreements.
 U.S. banks: includes amounts due to own foreign branches and foreign subsidiaries consolidated in "Consolidated Report of Condition" filed with bank regulatory agencies. Agencies, branches, and majority-owned subsidiaries of foreign banks: principally amounts due to head office or parent foreign bank, and foreign banks; principally amounts due to head office or parent foreign bank, and foreign bank.

Financial claims on residents of the United States, other than long-term securities, held by or through reporting banks.
 Includes nonmarketable certificates of indebtedness and Treasury bills issued to official institutions of foreign countries.
 Principally bankers acceptances, commercial paper, and negotiable time certificates of deposit.
 Principally the International Bank for Reconstruction and Development, and the Inter-American and Asian Development Banks. Data exclude "holdings of dollars" of the International Monetary Fund.
 Foreign central banks, foreign central governments, and the Bank for International Settlements.
 Excludes central banks, which are included in "Official institutions."

#### 3.17-Continued

2 Fore 3 Euro	Area and country	1988									
2 Fore 3 Euro			1989	1990	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>p</sup>
3 Euro	1	685,339	736,663	757,768	708,044	719,860	737,890	741,998	750,222r	746,976 <sup>r</sup>	757,768
	ign countries	682,115	731,892	752,048	703,051	715,747	733,601	736,792	745,716'	742,595 <sup>r</sup>	752,048
<u> </u>	ope	231,912	237,489	254,802	234,412	236,010	245,188	244,157	245,830 <sup>r</sup>	247,534'	254,802
	ustria	1,155	1,233	1,229	1,531 10,078	1,498	1,544	1,436	1,401	1,385'	1,229 12,407
6 De	enmark	2,200	1,415	1,412	2,411	2,581	2,238	2,055	1,984	1,781	1,412
	nland	285 24,777	570 26,903	602 30,925	387 23,566	485	463	392 29,116	660 29,128	422 29,193	602 30,925
9 Ge	ermany	6,772	7,578	7,446	8,359	7,671	7,605	7,845	8.439	8,195	7,446
	eece	672 14,599	1,028	934 17,918	833	877	923 17,117	1,435	993 16,984'	949 16,402'	934 17,918
	etherlands	5,316	6,613	5,375	7,626	5,972	6,209	5,385	6,082	6,056	5,375
13 No	orway	1,559	2,401	2,358	2,420	1,793	2,192	1,951	1,875	2,330	2,358
14 Po 15 Sp	ortugal	903 5,494	2,407	2,943	3,082	3,073	2,934	2,992 4,343	2,970	2,944 <sup>r</sup> 7,347 <sup>r</sup>	2,943
16 Sv	veden	1,284	1,491	1,837	1,769	1,586	1,495	833	1,706	2,304'	1,837
	vitzerland	34,199	34,496	37,751	34,780	33,557	34,545	34,637	34,463'	34,837	37,751
18 Tu 19 Ui	nkeynited Kingdom	1,012	1,818	1,133	1,596	1,654	1,897 108,181	1,634	1,451 100,961	1,358' 103,008'	1,133
20 Yi	igoslavia. her Western Europe <sup>1</sup>	529	1,474	928	2,169	2,436	2,272	2,043	1,753	1,571'	928
21 Ot 22 U.	her Western Europe <sup>4</sup>	8,598 138	13,563	11,025	12,360	14,619 194	14,057	13,145 240	15,934'	14,339	11,025
23 Ot	S.S.R her Eastern Europe <sup>2</sup>	591	608	1,546	1,686	1,335	1,275	1,515	1,294	1,388'	1,546
24 Cana	ıda	21,062	18,865	20,347	19,956	20,056	21,122	20,796	19,654	20,679	20,347
	America and Caribbean	271,146	310,948	329,610	313,130	316,656	320,056	325,927	333,603'	321,441'	329,610
	gentina hamas	7,804 86,863	7,304	7,361	7,993	8,163 98,292	7,844	7,981	7,717	7,659	7,361
27 Ba 28 Be	rmuda	2,621	2,884	2,818	3,097	2,824	2,656	2,739	2,482'	2,518	2,818
29 Br	azil	5,314	6,334	5,833	6,052	6,083	6,329	6,058	5,892	6,448 <sup>r</sup>	5,833
	itish West Indies	113,840 2,936	138,263	143,320	137,169	142,722	142,050 3,491	140,947	146,477'	144,473'	143,320
32 Co	lombia	4,374	4,653	4,491	4,508	4,474	4,344	3,926	4,284	4,251	4,491
	iba	10 1,379	10	11	10	15	11 1,348	10	49 1,314	1,310	11
	uador	1,195	1,391	1,534	1,473	1,549	1,346	1,548	1,485	1,478	1,534
36 Jai	maica	269	209	243	224	209	213	217	219	228	243
	exicoetherlands Antilles	15,185	15,423	16,792 7,381	16,391 6,628	16,070	16,325	16,486	16,465	16,501 <sup>r</sup> 7,351	16,792
39 Pa	nama.	4,353	4,361	4,575	4,547	4,388	4,648	4,632	4,592	4,644	4,575
	<i>r</i> u	1,671	1,984	1,295	1,473	1,405	1,369	1,362	1,360	1,327	1,295
	ruguay enezuela	1,898 9,147	2,284 9,468	2,522 12,758	2,529	2,560 9,830	2,531	2,512	2,512	2,446 12,988	2,522
	her	5,868	6,206	6,861	6,673	6,803	6,901	7,113	6,951	6,693 <sup>r</sup>	6,861
	lina	147,838	156,201	138,262	126,223	134,134	137,793	136,902	137,236	143,943 <sup>r</sup>	138,262
45	Mainland	1,895	1,773	2,421	1,871 11,006	1,890	2,324	2,115	2,173	2,493	2,421
	Taiwan	26,058 12,248	19,588 12,416	11,268	12,369	12,611	12,639 13,833	12,408	12,237 <sup>r</sup> 13,767	11,512 <sup>r</sup> 13,843	12,662
48 Inc	dia	699	780	1,225	966	909	806	1,035	953	1,116	1,225
	donesia ael	1,180 1,461	1,281	1,238	1,530	1,377	1,130	1,398 939	1,261 921	1,261	1,238
51 Ja	pan	74,015	81,184	68,582	62,402	66,299	68,676	68,926	67,923	69,333'	68,582
52 Ka	orea	2,541	3,215	2,231	2,101	2,157	2,316	2,564	2,442	2,732	2,231
53 Ph 54 Th	ilippines	1,163	1,766	1,510 1,441	1,329 2,125	1,314 2,745	1,350 2,233	1,340	1,274	1,549	1,510 1,441
55 Mi	ailand ddle-East oil-exporting countries <sup>3</sup>	12,083	13,370	15,816	13,007	14,027	14,928	14,047	16,412'	17,403	15,816
56 Ot	her	13,260	17,491	17,100	16,314	16,367	16,433	16,609	16,426'	17,947'	17,100
	a	3,991	3,823	4,580	3,650	3,412	4,638	4,152	4,223	4,388	4,580
58 Eg	ypt	911	686	1,377	592	583	1,505	970	1,099	996	1,377
60 So	orocco	68 437	78 205	101 225	81 318	95 239	332	93 393	87 234	90 282	101 225
61 Za	l-exporting countries <sup>4</sup>	85	86	53	41	38	43	44	45	55	53
62 Oi 63 Ot	l-exporting countries <sup>4</sup> her	1,017 1,474	1,121	1,109 1,714	890 1,728	873 1,584	1,072 1,609	966 1,687	1,050 1,708	1,288 1,678	1,109 1,714
	r countries	6,165	4,564	4,447	5,680	5,480	4,803	4,858	5,169	4,610	4,447
65 Au	istralia	5,293	3,867	3,672	5,052	4,892	4,122	4,127	4,371	3,804	3,672
66 All	l other	872	697	775	628	588	681	732	797	807	775
	nonetary international and regional	I .	l			Į			l		t i
	organizations.	3,224 2,503	4,772	5,720	4,994	4,112	4,290	5,206	4,507	4,381	5,720
68 Int 69 La	tin American regional	2,503	3,825	4,193 1,048	3,856 923	2,981 812	3,150 569	3,982 668	3,392 627	3,260 <sup>r</sup> 809	4,193
70 Ot	her regional <sup>6</sup>	133	263	479	215	319	571	556	487	312	479

Includes the Bank for International Settlements and Eastern European countries that are not listed in line 23.
 Comprises Bulgaria, Czechosłovakia, 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 "holdings of dollars" of the International Monetary Fund.
 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

Millions of dollars, end of period

	1000	1000	1000				1990			
Area and country	1988	1989	1990	June	July	Aug.	Sept.	Oct.	Nov."	Dec. <sup>p</sup>
1 Total	491,165	534,022	511,941	489,170	488,235	494,987	493,239	494,833'	504,527	511,941
2 Foreign countries	489,094	530,583	507,492	484,669	483,961	491,343	488,044	490,803'	500,117	507,492
3       Europe         4       Austria         5       Belgium-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         18       Turkey         19       United Kingdom         20       Yugoslavia	116,928 483 8,515 483 1,065 13,243 2,329 433 7,936 2,541 455 261 1,823 1,977 3,895 1,233 65,706 1,390	119,024 415 6,478 582 1,027 16,146 2,865 2,865 2,865 1,904 609 376 1,930 1,773 6,141 1,071 65,527 1,329	113,627 385 5,435 497 1,062 14,530 3,418 729 5,989 1,725 787 303 2,758 2,068 4,472 1,377 65,317 1,142	102,398 337 5,621 590 1,035 14,794 2,870 514 5,131 2,041 745 543 2,084 2,614 5,249 1,232 53,592 1,095	$102,368 \\ 399 \\ 6,754 \\ 503 \\ 1,112 \\ 13,746 \\ 2,595 \\ 529 \\ 4,615 \\ 1,744 \\ 692 \\ 543 \\ 2,125 \\ 3,362 \\ 4,297 \\ 1,186 \\ 54,804 \\ 1,070 \\ 1,$	106,463 287 6,682 6,76 1,177 14,288 2,939 6,10 4,498 1,636 7,16 427 2,100 3,407 3,712 1,434 58,630 1,029	105,418 373 5,627 962 14,398 3,403 686 4,634 2,219 744 412 2,312 2,447 3,928 1,377 57,830 1,120	103,631 247 5,147 814 13,750 3,242 729 5,070 1,711 732 444 2,373 2,577 3,475 1,371 58,267 1,226	107,188 268 6,441 876 13,343 3,634 720 5,171 1,849 661 368 2,584 2,251 3,995 1,346 59,919 1,160	113,627 385 5,435 1,062 14,530 3,418 729 5,989 1,725 787 303 2,758 2,068 2,068 4,472 1,377 65,317 1,142
20 Yugoslavia 21 Other Western Europe <sup>2</sup> 22 U.S.S.R. 23 Other Eastern Europe <sup>3</sup>	1,152 1,255 754	1,302 1,179 921	582 552 498	821 754 737	960 565 765	694 624 897	697 940 640	667 825 <sup>7</sup> 474	619 653 459	582 552 498
24 Canada	18,889	15,450	16,091	16,518	16,391	15,431	15,445	16,185'	14,295	16,091
25       Latin America and Caribbean         26       Argentina         27       Bahamas         28       Bermuda         29       Brazil         30       British West Indics         31       Chile         32       Colombia         33       Cuba         34       Ecuador         35       Guatemala <sup>4</sup> 36       Jamaica <sup>4</sup> 37       Mexico         38       Netherlands Antilles         39       Panama         40       Peru         41       Uruguay         42       Venezuela         43       Other Latin America and Caribbean	214,264 11,826 66,954 483 25,735 55,888 5,217 2,944 1 2,075 1,306 2,521 1,013 9,013 1,013 1,612	230,392 9,270 77,921 1,315 23,749 68,709 4,353 2,784 1 1,688 197 297 23,376 1,921 1,740 928 9,647 1,726	230,072 6,889 77,092 3,400 17,850 85,905 3,269 2,581 0 1,387 191 173 15,841 15,841 15,841 15,841 15,841 15,841 13,773 1,471 16,633 7,86 3,269 1,333	208,180 7,600 66,870 1,830 20,683 74,601 3,453 2,596 0 1,485 258 14,234 1,722 1,598 814,234 1,722 1,598 683 842 8,136 1,399	199,729 7,166 66,977 1,988 20,180 66,437 3,489 2,542 1,515 262 14,689 1,873 1,491 661 843 8,064 1,355	204,012 7,111 67,870 2,443 18,906 70,980 3,430 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,700 2,43 1,632 1,644 1,644 1,644	211,783 7,549 71,534 3,736 18,651 73,530 3,264 2,563 2,563 2,563 2,563 1,498 1,498 1,498 2,564 1,818 1,556 1,818 1,556 49 804 7,274 1,523	216,741' 7,028 71,934' 3,662' 18,626 77,539' 3,372 2,544 0 1,487 0 1,487 262 15,359 3,310 1,463 667 794 7,102 1,383	228,533 7,024 71,024 4,291 18,393 86,263 3,373 2,532 1 1,498 1,498 1,498 1,498 1,498 1,380 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449 7,386 1,449	230,072 6,889 77,092 3,400 17,850 85,905 3,269 2,581 0 1,387 15,841 7,973 1,471 7,973 1,471 663 786 3,269 1,333
44 Asia	130,881	157,474	140,263	149,197	158,028	157,933	147,568	146,800'	142,555	140,263
China Mainland Taiwan 47 Hong Kong 48 India 49 Indonesia 50 Israel 51 Japan 52 Korea 53 Philippines 54 Thailand 55 Middle East oil-exporting countries <sup>5</sup> 56 Other Asia	762 4,184 10,143 560 674 1,136 90,149 5,213 1,876 848 6,213 9,122	634 2,776 11,128 621 651 813 111,300 5,323 1,344 1,140 10,149 11,594	620 1,924 10,644 640 948 773 92,075 5,765 1,246 1,562 10,964 13,102	537 1,946 9,271 802 801 777 107,753 5,128 1,357 1,279 10,876 8,668	554 1,583 9,434 852 814 738 114,663 5,515 1,342 1,242 12,318 8,971	586 2,026 9,473 628 836 785 114,973 5,614 1,369 1,245 10,657 9,741	542 1,681 9,026 867 826 698 106,543 5,679 1,333 1,279 10,430 8,663	639 1,061 8,478 506 896' 688 106,369' 5,533' 1,206 1,444 11,098 8,883	689 1,576 8,506 540 923 758 100,071 5,533 1,175 1,523 10,947 10,314	620 1,924 10,644 640 948 773 92,075 5,765 1,246 1,562 10,964 13,102
57       Africa         58       Egypt         59       Morocco         60       South Africa         61       Zaire         62       Oil-exporting countries <sup>6</sup> 63       Other	5,718 507 511 1,681 17 1,523 1,479	5,890 502 559 1,628 16 1,648 1,537	5,435 377 509 1,525 16 1,484 4,525	5,787 469 565 1,573 21 1,649 1,511	5,567 421 544 1,560 20 1,604 1,418	5,567 449 539 1,571 19 1,586 1,403	5,544 430 542 1,594 20 1,536 1,422	5,601 411 534 1,576 19 1,510 1,551	5,705 383 519 1,726 19 1,492 1,566	5,435 377 509 1,525 16 1,484 1,525
64 Other countries	2,413 1,520 894	2,354 1,781 573	2,003 1,518 485	2,590 1,712 878	1,878 1,422 456	1,938 1,304 634	2,287 1,863 424	1,845 <sup>7</sup> 1,416 429 <sup>7</sup>	1,841 1,483 358	2,003 1,518 485
67 Nonmonetary international and regional organizations'	2,071	3,439	4,448	4,501	4,275	3,644	5,195	4,030	4,410	4,448

I. Reporting banks include all kinds of depository institutions besides commer-cial banks, as well as some brokers and dealers.
 I. Includes the Bank for International Settlements, Beginning April 1978, also includes Eastern European countries not listed in line 23.
 Beginning April 1978 comprises Bulgaria, Czechoslovakia, Hungary, Po-land, and Romania.

Included in "Other Latin America and Caribbean" through March 1978.
 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."

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#### 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

							1990			
Type of claim	1988	1989	1990	June	July	Aug.	Sept.	Oct.'	Nov.'	Dec. <sup>p</sup>
1 Total	538,689	592,616		548,270			558,941'			
2 Banks' own claims on foreigners	491,165 62,658 257,436 129,425 65,898 63,527 41,646	534,022 60,087 295,980 134,870 78,184 56,686 43,084	511,941 43,017 301,863 119,504 67,750 51,755 47,556	489,170 49,090 280,044 121,827 69,336 52,491 38,209	488,235 47,711 275,297 128,436 73,819 54,617 36,791	494,987 46,738 273,967 137,784 80,628 57,156 36,499	493,239 48,218 278,871 124,988 72,266 52,722 41,162	494,833 46,350 281,049 124,887 72,144 52,743 42,547	504,527 46,136 290,978 121,355 68,419 52,937 46,058	511,941 43,017 301,863 119,504 67,750 51,755 47,556
<ul> <li>9 Claims of banks' domestic customers<sup>3</sup></li> <li>10 Deposits</li> <li>11 Negotiable and readily transferable instruments<sup>4</sup></li> </ul>	47,524 8,289 25,700	58,594 13,019 30,983		59,100 15,708 27,451			65,702 <sup>r</sup> 14,707 33,791 <sup>r</sup>	·····		
12 Outstanding collections and other claims	13,535	14,592		15,940			17,203			
13 МЕМО: Customer liability on acceptances	19,596	12,899		12,930			12,812			
Dollar deposits in banks abroad, reported by nonbanking business enterprises in the United States <sup>5</sup>	45,565	45,675	n.a.	40,411	41,000	44,631	43,154	42,774	48,245	n.a.

1. Data for banks' own claims are given on a monthly basis, but the data for claims of banks' own domestic customers are available on a quarterly basis only. Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.
2. U.S. banks: includes amounts due from own foreign branches and foreign subsidiaries consolidated in "Consolidated Report of Condition" filed with bank regulatory agencies. Agencies, branches, and majority-owned subsidiaries of, and foreign banks; principally amounts due from head office or parent foreign banks, and foreign branches, agencies, or wholly owned subsidiaries of head office or

parent foreign bank

Assets owned by customers of the reporting bank located in the United States that represent claims on foreigners held by reporting banks for the account

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#### 3.20 BANKS' OWN CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

#### Millions of dollars, end of period

	1007	1007	1000	1989		1990	
Maturity; by borrower and area	1986	1987	1988	Dec.	Mar.	June	Sept."
1 Total	232,295	235,130	233,184	237,684	211,809	208,559	213,747
By borrower 2 Maturity of I year or less <sup>2</sup> 3 Foreign public borrowers 4 All other foreigners 5 Maturity over 1 year <sup>2</sup> 6 Foreign public borrowers 7 All other foreigners	160,555 24,842 135,714 71,740 39,103 32,637	163,997 25,889 138,108 71,133 38,625 32,507	172,634 26,562 146,071 60,550 35,291 25,259	177,907 23,493 154,415 59,776 36,014 23,762	160,299 23,253 137,046 51,510 27,893 23,617	159,280 20,650 138,630 49,279 27,960 21,320	166,556 21,560 144,996 47,191 26,217 20,974
By area         Maturity of 1 year or less <sup>2</sup> 8 Europe         9 Canada         10 Latin America and Caribbean         11 Asia         12 Africa         13 All other <sup>3</sup> 14 Europe         15 Canada         16 Latin America and Caribbean         17 Asia         18 Africa         19 All other <sup>4</sup> 10 Africa         11 Asia         12 Africa         13 All other <sup>4</sup> 14 Europe         15 Canada         16 Latin America and Caribbean         17 Asia         18 Africa         19 All other <sup>4</sup>	61,784 5,895 56,271 29,457 2,882 4,267 6,737 1,925 56,719 4,043 1,539 777	59,027 5,680 56,535 35,919 2,833 4,003 6,696 2,661 53,817 3,830 1,747 2,381	55,909 6,282 57,991 46,224 3,337 2,891 4,666 1,922 47,547 3,613 2,301 501	53,912 5,909 52,989 57,755 3,225 4,118 4,121 2,353 45,816 4,172 2,630 684	48,550 5,698 46,374 51,894 3,165 4,616 4,389 2,712 35,530 5,552 2,764 564	49,421 5,754 44,293 51,182 2,991 5,639 4,201 2,819 33,190 5,866 2,739 464	51,579 5,520 43,961 56,366 2,951 6,179 4,426 3,033 31,276 5,646 2,544 265

1. Reporting banks include all kinds of depository institutions besides commer-cial banks, as well as some brokers and dealers.

Remaining time 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>1,2</sup> Billions of dollars, end of period

			19	88			89			1990	
Area or country	1986	1987	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.
1 Total	386.5	382.4	354.0	346.3	346.1	340.0	346.2	338.4	334.3	322.6	333.1
2 G-10 countries and Switzerland.         3 Belgium-Luxembourg         4 France.         5 Germany         6 Italy.         7 Netherlands.         8 Sweden.         9 Switzerland         10 United Kingdom.         11 Canada.         12 Japan.	156.6 8.4 13.6 11.6 9.0 4.6 2.4 5.8 70.9 5.2 25.1	159.7 10.0 13.7 12.6 7.5 4.1 2.1 5.6 68.8 5.5 29.8	148.7 9.5 10.3 9.2 5.6 2.9 1.9 5.2 67.6 4.9 31.6	152.7 9.0 10.5 10.3 6.8 2.7 1.8 5.4 66.2 5.0 34.9	145.4 8.6 11.2 10.2 5.2 2.8 2.3 5.1 65.6 4.0 30.5	145.1 7.8 10.8 10.6 6.1 2.8 1.8 5.4 64.5 5.1 30.2	146.4 6.9 11.1 10.4 6.8 2.4 2.0 6.1 63.7 5.9 31.0	152.9 6.3 11.7 10.5 7.4 3.1 2.0 7.1 67.2 5.4 32.2	147.1 6.6 10.5 11.2 6.0 3.1 2.1 6.3 64.0 4.8 32.6	140.1 6.2 10.3 11.2 5.5 2.7 2.3 6.4 60.0 5.2 30.4	144.3 6.5 11.1 11.2 4.5 3.8 2.4 5.6 62.1 5.1 32.1
13 Other developed 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.	26.1 1.7 1.4 2.3 2.4 .9 5.8 2.0 1.5 3.0 3.4	26.4 1.9 1.7 1.2 2.0 2.2 .6 8.0 2.0 1.6 2.9 2.4	23.0 1.6 1.2 1.3 2.1 2.0 4 6.3 1.6 1.9 2.7 1.8	21.0 1.5 1.1 1.8 1.8 .4 6.2 1.5 1.3 2.4 1.8	21.1 1.4 1.0 2.1 1.6 .4 6.6 1.3 1.1 2.2 2.4	21.2 1.7 1.4 1.0 2.3 1.8 .6 6.2 1.1 1.1 2.1 1.9	21.0 1.5 1.1 2.4 1.4 6.9 1.2 1.0 2.1 2.1	20.7 1.5 1.1 1.0 2.5 1.4 .4 7.1 1.2 .7 2.0 1.6	23.1 1.5 1.1 2.6 1.7 .4 8.3 1.0 2.0 2.1	22.6 1.5 1.1 .9 2.7 1.4 .8 7.9 1.4 1.1 1.9 1.9	23.0 1.6 1.0 .8 2.8 1.5 .6 8.5 1.6 .7 1.9 2.0
25 OPEC countries <sup>3</sup>	19.4 2.2 8.7 2.5 4.3 1.8	17.4 1.9 8.1 1.9 3.6 1.9	17.9 1.8 7.9 1.8 4.6 1.9	16.6 1.7 7.9 1.7 3.4 1.9	16.2 1.6 7.9 1.7 3.3 1.7	16.1 1.5 7.5 1.9 3.4 1.6	16.2 1.5 7.4 2.0 3.5 1.9	17.1 1.3 7.0 2.0 5.0 1.7	15.5 1.2 6.1 2.1 4.3 1.8	15.3 1.1 6.0 2.0 4.4 1.8	14.4 1.1 6.0 2.3 3.3 1.7
31 Non-OPEC developing countries	99.6	97.8	87.2	85.3	85.9	83.4	81.2	77.5	68.8	66.0	66.3
Latin America Argentina Brazil Chile	9.5 25.3 7.1 2.1 24.0 1.4 3.1	9.5 24.7 6.9 2.0 23.5 1.1 2.8	9.3 22.4 6.3 2.1 20.4 .8 2.5	9.0 22.4 5.6 2.1 18.8 .8 2.6	8.5 22.8 5.7 1.9 18.3 .7 2.7	7.9 22.1 5.2 1.7 17.7 .6 2.6	7.6 20.9 4.9 1.6 17.2 .6 2.9	6.3 19.0 4.6 1.8 [7.7 .6 2.8	5.5 17.5 4.3 1.8 12.7 .5 2.7	5.1 16.0 3.7 1.7 12.6 .5 2.3	4.9 15.0 3.6 1.8 13.1 .5 2.4
Asia         China         39       Mainland.         40       Taiwan         41       India         42       Israel         43       Korea (South)         44       Malaysia         45       Philippines         46       Thailand         47       Other Asia	.4 4.9 1.2 1.5 6.7 2.1 5.4 .9 .7	.3 8.2 1.9 1.0 5.0 1.5 5.2 .7 .7	.2 3.2 2.0 1.0 6.0 1.7 4.7 1.2 .8	.3 3.7 2.1 1.2 6.1 1.6 4.5 1.1 .9	.5 4.9 2.6 .9 6.1 1.7 4.4 1.0 .8	.3 5.2 2.4 .8 6.6 1.6 4.4 1.0 .8	.3 5.0 2.7 .7 6.5 1.7 4.0 1.3 1.0	,3 4,5 3,1 .7 5,9 1.7 4,1 1.3 1.0	.3 3.8 3.5 .6 5.3 1.8 3.7 1.1 1.2	.2 3.6 3.6 .7 5.6 1.8 3.9 1.3 1.1	.2 3.9 3.6 .6 6.2 1.8 3.9 1.5 1.2
Africa 48 Egypt	.7 .9 .1 1.6	.6 .9 .0 1.3	.5 .8 .0 1.2	.4 .9 .0 1.1	.5 .9 .0 1.1	.6 .9 .0 1.1	.5 .8 .0 1.0	.4 .9 .0 1.0	.4 .9 .0 .9	.5 .9 .0 .9	.4 .9 .0 .8
52 Eastern Europe	3.5 .1 2.0 1.4	3.2 .3 1.8 1.1	3.1 .4 1.8 1.0	3.6 .7 1.8 1.1	3.5 .7 1.7 1.1	3.4 .6 1.7 1.1	3.5 .8 1.7 1.1	3.5 .7 1.6 1.3	3.4 .8 1.4 1.3	3.0 .4 1.4 1.2	2.9 .4 1.3 1.2
56 Offshore banking centers         57 Bahamas         58 Bermuda         59 Gayman Islands and other British West Indies         60 Netherlands Antilles         61 Panama*         62 Lebanon         63 Hong Kong         64 Singapore         65 Others*	61.5 22.4 .6 12.3 1.8 4.0 .1 11.1 9.2 .0 19.8	54.5 17.3 .6 13.5 1.2 3.7 .1 11.2 7.0 .0 23.2	47.3 12.9 .9 11.9 1.2 2.6 .1 10.5 7.0 .0 26.7	44.2 11.0 .9 12.9 1.0 2.5 .1 9.6 6.1 .0 22.6	48.5 15.8 1.1 12.0 .9 2.2 .1 9.6 6.8 .0 25.0	43.1 11.0 .7 10.8 1.0 1.9 .1 10.4 7.3 .0 27.4	49.2 11.4 1.3 15.3 1.1 1.5 .1 10.7 7.8 .0 28.5	36.6 5.5 1.7 8.9 2.3 1.4 .1 9.7 7.0 .0 29.8	42.9 9.2 9 10.9 2.6 1.3 .1 9.8 8.0 .0 33.2	40.0 8.5 2.2 8.5 2.3 1.4 .1 10.0 7.0 .0 35.4	41.9 8.9 4.0 9.0 2.2 1.5 .1 9.0 7.2 .0 40.0
to miscinancous and unanouncu	17.0	43.4	20.7		20.0	27.4	20.5	27.0	55.6	55.4	-0.0

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) 2. Beginning with June 1984 data, 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. This group comprises the 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 Babrain and Oman (not formally members of OPEC).
4. Excludes Liberia.
5. Includes Canal Zone beginning December 1979.
6. Foreign branch claims only.
7. Includes New Zealand, Liberia, and international and regional organizations.

tions

#### International Statistics April 1991 A64

#### 3.22 LIABILITIES TO UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States<sup>1</sup>

Millions of dollars, end of period

					1989			1990	
Type, and area or country	1986	1987	1988	June	Sept.	Dec.	Mar.	June	Sept.
Total	25,587	28,302	32,938	38,400	36,530	38,413	38,554	39,474	44,555
2 Payable in dollars 3 Payable in foreign currencies	21,749 3,838	22,785 5,517	27,320 5,618	33,312 5,088	31,669 4,861	33,569 4,845	34,265 4,289	34,962 4,512	39,429 5,126
By type 4 Financial liabilities 5 Payable in dollars 6 Payable in foreign currencies	12,133 9,609 2,524	12,424 8,643 3,781	14,507 10,608 3,900	18,427 14,551 3,875	17,141 13,289 3,852	18,364 14,462 3,902	17,837 14,625 3,213	19,499 16,098 3,401	20,534 16,694 3,840
7 Commercial liabilities         8 Trade payables         9 Advance receipts and other liabilities         10 Payable in dollars         11 Payable in foreign currencies	13,454 6,450 7,004 12,140 1,314	15,878 7,305 8,573 14,142 1,737	18,431 6,505 11,926 16,712 1,719	19,973 6,501 13,472 18,760 1,213	19,389 6,906 12,483 18,380 1,009	20,049 7,377 12,672 19,107 943	20,717 7,275 13,441 19,640 1,076	19,975 6,739 13,237 18,864 1,111	24,021 9,905 14,116 22,735 1,286
By area or country Financial liabilities 12 Europe	7,917 270 661 368 542 646 5,140	8,320 213 382 551 866 558 5,557	9,962 289 359 699 880 1,033 6,533	12,575 357 257 618 835 938 9,402	H1,213 308 242 592 855 799 8,207	11,607 340 258 521 946 541 8,741	10,960 333 217 482 900 529 8,212	12,026 347 156 676 934 667 8,759	11,527 350 503 735 948 740 7,579
19 Canada	399	360	388	626	575	573	476	345	357
20       Latin America and Caribbean         21       Bahamas         22       Bermuda         23       Brazil         24       British West Indies         25       Mexico         26       Venezuela	1,944 614 32 1,146 22 0	1,189 318 0 25 778 13 0	839 184 0 645 1 0	1,262 165 7 0 661 17 0	1,367 186 7 0 743 4 0	1,268 157 17 635 6 0	1,814 272 0 1,061 5 0	2,508 249 0 1,717 4 0	3,337 368 0 2,352 4 0
27       Asia         28       Japan         29       Middle East oil-exporting countries <sup>2</sup>	1,805 1,398 8	2,451 2,042 8	3,312 2,563 3	3,863 3,100 12	3,886 3,130 2	4,814 3,963 2	4,483 3,445 3	4,561 3,559 5	4,831 3,871 4
30       Africa         31       Oil-exporting countries <sup>3</sup>	1	4 1	2 0	32	4 2	2 0	3 0	3	2 0
32 All other <sup>4</sup>	67	100	4	97	97	100	102	55	479
Commercial liabilities         33       Europe         34       Belgium-Luxembourg         35       France         36       Germany         37       Netherlands         38       Switzerland         39       United Kingdom	4,446 101 352 715 424 385 1,341	5,516 132 426 909 423 559 1,599	7,305 158 455 1,699 587 417 2,065	7,776 114 535 1,188 688 447 2,709	8,321 137 806 1,185 548 531 2,703	8,885 178 871 1,364 699 621 2,618	9,133 233 881 1,143 688 583 2,925	8,304 295 928 959 606 607 2,435	9,719 246 1,186 1,019 700 708 2,803
40 Canada	1,405	1,301	1,217	1,133	1,189	1,067	1,124	1,169	1,264
41       Latin America and Caribbean         42       Bahamas         43       Bermuda         44       Brazil         45       British West Indies         46       Mexico         47       Venezuela	924 32 156 61 49 217 216	864 18 168 46 19 189 162	1,090 49 286 95 34 217 114	1,673 34 388 541 42 235 131	1,086 27 305 113 30 220 107	1,187 41 308 100 27 304 154	1,304 37 516 116 18 241 85	1,277 22 412 106 29 285 119	1,553 18 371 126 36 505 120
48       Asia         49       Japan         50       Middle East oil-exporting countries <sup>2,5</sup>	5,080 2,042 1,679	6,565 2,578 1,964	6,915 3,094 1,385	7,045 2,708 1,482	7,088 2,676 1,442	7,040 2,774 1,401	6,886 2,624 1,393	6,949 3,068 1,125	8,763 3,167 2,321
51       Africa         52       Oil-exporting countries <sup>3</sup>	619 197	574 135	576 202	762 263	648 255	844 307	753 263	885 277	1,315 593
53 All other <sup>4</sup>	980	1,057	1,328	1,584	1,057	1,027	1,517	1,390	1,408

1. For a description of the changes in the International Statistics tables, see July 1979 Bulletin, 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.
 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 States<sup>1</sup>

Millions of dollars, end of period

						1989			1990	
Type, and area or	country	1986	1987	1988	June	Sept.	Dec.	Mar.	June	Sept.
1 Total		36,265	30,964	34,035	34,420	32,088	31,437	29,708	31,468	30,846'
<ol> <li>Payable in dollars</li> <li>Payable in foreign currencies</li> </ol>		33,867 2,399	28,502 2,462	31,654 2,381	32,203 2,217	29,806 2,282	29,106 2,330	27,595 2,114	29,174 2,294	28,491' 2,355
By type         4 Financial claims         5 Deposits         6 Payable in dollars         7 Payable in foreign currencies         8 Other financial claims         9 Payable in follars         10 Payable in foreign currencies	Ś.,	26,273 19,916 19,331 585 6,357 5,005 1,352	20,363 14,894 13,765 1,128 5,470 4,656 814	21,869 15,643 14,544 1,099 6,226 5,450 777	21,920 16,500 15,581 919 5,420 4,683 737	19,135 12,154 11,278 877 6,981 6,073 908	17,689 10,400 9,473 927 7,289 6,535 754	16,481 10,436 9,583 853 6,045 5,357 688	17,975 9,877 8,825 1,053 8,098 7,365 733	16,527' 10,258' 9,109' 1,149 6,269' 5,616' 652
11 Commercial claims         12 Trade receivables         13 Advance payments and other commercial		9,992 8,783 1,209	10,600 9,535 1,065	12,166 11,091 1,075	12,499 11,068 1,432	12,953 11,472 1,481	13,748 12,140 1,608	13,227 11,635 1,592	13,493 11,807 1,686	14,319 <sup>7</sup> 12,506 <sup>7</sup> 1,813 <sup>7</sup>
14Payable in dollars15Payable in foreign currencies		9,530 462	10,081 519	11,660 505	11,939 560	12,455 498	13,099 650	12,655 573	12,985 508	13,765' 554
By area or country         Financial claims         16       Europe         17       Belgium-Luxembourg         18       France         19       Germany         20       Netherlands         21       Switzerland         22       United Kingdom		10,744 41 138 116 151 185 9,855	9,531 7 332 102 350 65 8,467	10,279 18 203 120 348 218 9,039	8,919 161 176 149 297 68 7,772	7,528 166 173 120 292 111 6,419	7,040 28 153 192 303 95 6,035	6,949 22 198 505 315 122 5,572	9,587 126 141 93 332 137 8,539	7,905 <sup>r</sup> 27 143 97 315 176 6,926 <sup>r</sup>
23 Canada		4,808	2,844	2,325	2,568	2,359	1,892	1,758	2,040	1,994
24       Latin America and Caribbean         25       Bahamas         26       Bermuda         27       Brazil         28       British West Indies         29       Mexico         30       Venezuela		9,291 2,628 6 86 6,078 174 21	7,012 1,994 7 63 4,433 172 19	8,160 1,846 19 47 5,763 151 21	9,319 1,875 33 78 6,923 114 31	8,315 1,699 33 70 6,125 105 36	7,590 1,516 7 224 5,431 94 20	6,921 1,599 4 79 4,824 152 21	5,431 920 3 84 4,027 153 20	5,666' 969' 12' 70 4,215 158 23
31    Asia      32    Japan      33    Middle East oil-exporting col	untries <sup>2</sup>	1,317 999 7	879 605 8	844 574 5	995 525 8	826 460 7	831 439 8	763 416 7	815 473 6	832' 450' 9
34    Africa      35    Oil-exporting countries <sup>3</sup>		85 28	65 7	106 10	80 8	75 8	140 12	67 11	62 8	49 7
36 All other <sup>4</sup>	· . <i></i>	28	33	155	40	31	195	23	41	81
Commercial claims           37         Burope           38         Beigium-Luxembourg           39         France           40         Germany           41         Netherlands           42         Switzerland           43         United Kingdom		3,725 133 431 444 164 217 999	4,180 178 650 562 133 185 1,073	5,181 189 672 669 212 344 1,324	5,302 205 775 675 413 231 1,372	5,429 220 829 686 396 222 1,398	6,168 241 956 687 478 305 1,572	6,026 219 958 699 450 270 1,690	6,041 207 908 662 475 235 1,586	6,427' 189 1,140' 638' 490 300' 1,675'
44 Canada		934	936	983	1,181	1,278	1,058	1,091	1,108	1,135'
<ul> <li>45 Latin America and Caribbean .</li> <li>46 Bahamas</li></ul>		1,857 28 193 234 39 412 237	1,930 19 170 226 26 368 283	2,241 36 230 299 22 461 227	2,103 13 238 315 30 439 229	2,147 10 271 239 33 509 189	2,177 57 323 292 36 509 147	2,061 22 243 231 38 525 188	2,214 17 284 233 46 594 222	2,389' 25 340 252' 35 649 223
52    Asia      53    Japan      54    Middle East oil-exporting control	untries <sup>2</sup>	2,755 881 563	2,915 1,158 450	2,993 946 453	3,154 999 434	3,316 1,176 410	3,538 1,184 515	3,257 1,061 432	3,379 1,046 414	3,568' 1,209' 403
55 Africa 56 Oil-exporting countries <sup>3</sup>		500 139	401 144	435 122	408 112	399 87	418 107	425 89	390 98	372 71
57 All other <sup>4</sup>		222	238	333	351	383	389	367	360	429

Comprises Algería, Gabon, Libya, and Nigeria.
 Includes nonmonetary international and regional organizations.

1. For a description of the changes in the International Statistics tables, see July 1979 Bulletin, p. 550. 2. Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).

#### A66 International Statistics April 1991

#### 3.24 FOREIGN TRANSACTIONS IN SECURITIES

Millions of dollars

			1990				1990			
Transactions, and area or country	1989	1990	Jan. – Dec.	June	July	Aug.	Sept.	Oct.	Nov.'	Dec. <sup>p</sup>
				ιι	J.S. corpora	ate securitie	es	L		L
Stocks										
1 Foreign purchases	214,061	173,035	173,035	18,211	17,447	20,653	8,812	11,636'	12,551	13,317
2 Foreign sales	204,114	188,336	188,336	18,584 <b>372</b>	16,080	21,959	11,318	15,437 <sup>r</sup> -3,801 <sup>r</sup>	13,368	14,577
3 Net purchases, or sales (-)         4 Foreign countries	9,946 10,180	-15,301 -15,372	-15,301 -15,372	-336	1,367 1,315	-1,306 -1,343	-2,506	-3,759	-817 812	-1,261
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	481 -708 -830 79 -3,277 3,691 -881 3,042 3,531 3,577 3,330 131 299	$\begin{array}{c} -8,579\\ -1,183\\ -370\\ -407\\ -2,884\\ -3,122\\ 890\\ -1,347\\ -2,447\\ -3,505\\ -2,907\\ -60\\ -325\end{array}$	$\begin{array}{r} -8,579\\ -1,183\\ -370\\ -407\\ -2,884\\ -3,122\\ 890\\ -1,347\\ -2,447\\ -3,505\\ -2,907\\ -60\\ -325\end{array}$	$ \begin{array}{r} -590 \\ 32 \\ -66 \\ -83 \\ -198 \\ -114 \\ 88 \\ -14 \\ -85 \\ 243 \\ 212 \\ -7 \\ 30 \end{array} $	$\begin{array}{c} -12\\ -25\\ -41\\ -30\\ -170\\ 252\\ 174\\ -90\\ -36\\ 1,056\\ 851\\ 13\\ 211\end{array}$	-1,379 -175 -119 -107 -253 -637 -330 -242 187 -69 -22 16 -186	$\begin{array}{r} -1,160\\ -148\\ 2\\ -48\\ -126\\ -718\\ 210\\ -218\\ -437\\ -712\\ -737\\ -135\end{array}$	$\begin{array}{r} -1,415'\\ -159\\ -87\\ -61\\ -213\\ -688\\ 155\\ -357\\ -558\\ -1,517'\\ -1,135'\\ -31\\ -35\end{array}$	-582 -80 -14 21 -169 -282 216 292 -430 -420 -194 -5 117	$\begin{array}{r} -489 \\ -49 \\ -144 \\ -46 \\ -263 \\ 147 \\ 280 \\ -282 \\ -251 \\ -407 \\ -382 \\ -14 \\ -108 \end{array}$
18 Nonmonetary international and regional organizations	-234	71	71	-37	52	37	-55	-42	-5	9
BONDS <sup>2</sup> 19 Foreign purchases	120,540	118,011	118,011	12,562	10,915	11,846	7,484	8,699'	11,230	9,335
20 Foreign sales	86,568	99,356	99,356	8,448	7,553	12,465	9,354	7,385'	7,728	7,892
21 Net purchases, or sales (-)	33,972	18,655	18,655	4,114	3,362	-618	-1,870	1,314'	3,502	1,443
22 Foreign countries	33,619	19,110	19,110	4,082	3,323	- 588	-1,900	1,551′	3,506	1,446
23 Europe         24 France         25 Germany         26 Netherlands         27 Switzerland         28 United Kingdom         29 Canada         30 Latin America and Caribbean         31 Middle East         32 Other Asia         33 Japan         34 Africa         35 Other countries	19,823 372 -238 850 1,116 3,686 -182 9,063 6,331 56 57	11,672 378 -305 178 515 11,112 1,907 4,222 152 1,384 1,007 87 -314	11,672 378 -305 178 515 11,112 1,907 4,222 152 1,384 1,007 87 -314	$\begin{array}{c} 3,378\\ 293\\ 80\\ 37\\ 186\\ 2,761\\ 292\\ 578\\ -120\\ 11\\ -131\\ 2\\ -59\end{array}$	$1,996 \\ 54 \\ 33 \\ 37 \\ 570 \\ 1,145 \\ 70 \\ 273 \\ 13 \\ 999 \\ 930 \\ -4 \\ -24$	$\begin{array}{c} 706 \\ -40 \\ 172 \\ -15 \\ -346 \\ 722 \\ 91 \\ -103 \\ -178 \\ -986 \\ -632 \\ -1 \\ -118 \end{array}$	$ \begin{array}{r} -819 \\ -103 \\ 3 \\ -71 \\ 0 \\ -275 \\ -87 \\ -208 \\ -65 \\ -692 \\ -871 \\ 5 \\ -34 \\ \end{array} $	$\begin{array}{c} 667'\\ -74\\ -29\\ 35\\ -84\\ 371'\\ 127\\ 214'\\ -10'\\ 603'\\ 361\\ 2\\ -53\end{array}$	$1,951 \\ 24 \\ -59 \\ 52 \\ 53 \\ 1,727 \\ 237 \\ 343 \\ -35 \\ 1,035 \\ 814 \\ 6 \\ -30 \\ $	585 44 -41 110 -34 983 -209 517 74 479 395 -9 9
36 Nonmonetary international and regional organizations	353	455	-455	32	39	-31	30	-237	-4	-2
					Foreign :	securities		_		
37 Stocks, net purchases, or sales (-) <sup>3</sup>	-13,097	-8,406		-2,861	-1,135	-142	446	-314 <sup>r</sup>	1,192	-1,716
<ul> <li>38 Foreign purchases</li> <li>39 Foreign sales<sup>3</sup></li> </ul>	109,789 122,886	122,486 130,892	122,486 130,892	11,041 13,902	11,425 12,559	12,360 12,502	7,522 7,076	9,277 9,591'	10,022 8,831	7,323 9,039
40 Bonds, net purchases, or sales (~)         41 Foreign purchases         42 Foreign sales	-6,049 234,215 240,264	-22,350 313,576 335,926	-22,350 313,576 335,926	-1,939 25,762 27,702	-400 23,367 23,767	48 29,826 29,778	-599 25,746 26,346	-2,830' 35,254 38,085'	148 32,759 32,611	-4,302 32,798 37,101
43 Net purchases, or sales (-), of stocks and bonds $\ldots$ .	-19,145	-30,756	- 30,756	-4,800	-1,535	-94	-153	-3,144′	1,339	-6,019
44 Foreign countries	-19,178	-28,073	-28,073	-4,347	-1,564	-538	-428	-2,340	1,314	-5,277
45 Europe . 46 Canada . 47 Latin America and Caribbean . 48 Asia . 49 Africa . 50 Other countries .	-17,811 -4,180 426 2,540 93 -246	-8,189 -6,920 -8,787 -3,816 -137 -224	-8,189 -6,920 -8,787 -3,816 -137 -224	-3,645 -223 417 -1,082 8 178	-390 -328 -222 -211 -83 -331	-1,303 167 -64 606 -8 65	$-73 \\ -4 \\ -401 \\ -323 \\ 12 \\ 362$	910' 880' 229 697 4 87'	1,991 -1,659 283 720 -69 48	$\begin{array}{r} -935 \\ -219 \\ -2,652 \\ -1,572 \\ 28 \\ 73 \end{array}$
51 Nonmonetary international and regional organizations	33	-2,684	2,684	-453	30	444	275	-804	25	741

1. Comprises oil-exporting countries as follows: Bahrain, Iran, Iraq, Kuwait, Oman, 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 securi-

ties sold abroad by U.S. corporations organized to finance direct investments abroad. 3. As a result of the merger of a U.S. and U.K. company in July 1989, the former stockholders of the U.S. company received \$5,453 million in shares of the new combined U.K. company. This transaction is not reflected in the data above.

#### 3.25 MARKETABLE U.S. TREASURY BONDS AND NOTES Foreign Transactions

#### Millions of dollars

			1990				1990			
Country or area	1989	1990	Jan. – Dec.	June	July	Aug.	Sept.	Oct.	Nov."	Dec. <sup>p</sup>
			Transac	tions, net	purchases	s or sales (	(–) during	period		
1 Estimated total <sup>2</sup>	54,198	19,760	19,760	3,554	5,488	4,609	936	-1,134	5,936	6,473
2 Foreign countries <sup>2</sup>	52,296	20,115	20,115	3,249	5,331	3,968	1,293	-1,107	5,601	6,494
3 Europe <sup>2</sup> 4 Belgium-Luxembourg         5 Germany <sup>2</sup> 6 Netherlands         7 Sweden         8 Switzerland <sup>2</sup> 9 United Kingdom         10 Other Western Europe         11 Eastern Europe         12 Canada	36,286 1,048 7,904 -1,141 693 1,098 20,198 6,508 -21 698	18,791 -16 5,750 1,012 1,156 146 -2,159 12,880 13 -4,556	18,791 -16 5,750 1,012 1,156 146 -2,159 12,880 13 -4,556	2,587 270 -1,061 313 -34 -19 1,894 1,223 0 367	3,643 179 -1 196 133 -799 1,051 2,884 0 1,418	-2,128 -395 1,424 1,253 -266 -128 -3,776 -251 11 1,177	5,021 -95 633 956 -33 548 1,599 1,407 0 -868	275 72 581 -454 163 617 -1,747 1,043 0 -637	2,145 -67 1,677 -223 279 -6 -1,581 2,069 -5 -463	4,474 -106 575 625 727 238 210 2,204 0 155
13 Latin America and Caribbean         14 Venezuela         15 Other Latin America and Caribbean         16 Netherlands Antilles         17 Asia         18 Japan         19 Africa         20 All other	459 311 -327 475 13,297 1,681 116 1,439	15,788 -50 5,049 10,788 -11,064 -14,881 332 824	15,788 -50 5,049 10,788 -11,064 -14,881 332 824	914 48 1,021 -154 -1,086 -469 52 416	1,934 -1 1,060 874 -1,672 161 17 -9	1,319 0 295 1,023 3,304 2,376 57 239	-1,953 -49 -1,157 -747 -1,751 -2,092 151 692	4,676 1 591 4,086 5,192' -4,059' 83 313	4,306 49 967 3,290 -936 -1,154 8 543	$ \begin{array}{r} 1,551\\ 1\\ 1,149\\ 401\\ -73\\ -2,408\\ -3\\ 389 \end{array} $
21 Nonmonetary international and regional organizations         22 International         23 Latin America regional	1,902 1,473 231	-354 -150 -2	-354 -150 -2	305 462 - 109	158 -25 25	641 444 25	-357 -154 -75	-27 -87 -59	335 209 0	20 135 92
Memo 24 Foreign countries <sup>2</sup> 25 Official institutions 26 Other foreign <sup>2</sup>	52,296 26,835 25,461	20,115 24,079 -3,965	20,115 24,079 3,965	3,249 924 2,325	5,331 724 4,607	3,968 6,794 -2,826	1,293 3,799 -2,506	-1,107' 1,382' -2,489'	5,601 4,766 835	6,494 7,862 -1,368
Oil-exporting countries 27 Middle East 28 Africa <sup>4</sup>	8,148 -1	-383 0	-383	-439 0	-2,095 0	-365 0	241 0	-1,247 0	-878	1,014 0

1. Estimated official and private transactions in marketable U.S. Treasury securities with an original maturity of more than 1 year. Data are based on monthly transactions reports. Excludes nonmarketable U.S. Treasury bonds and notes held by official institutions of foreign countries. 2. Includes U.S. Treasury notes publicly issued to private foreign residents denominated in foreign currencies.

Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
 Comprises Algeria, Gabon, Libya, and Nigeria.

#### A68 International Statistics April 1991

#### 3.26 DISCOUNT RATES OF FOREIGN CENTRAL BANKS

Percent per year

Rate on Feb. 28, 1991			Rate on	Feb. 28, 1991		Rate on	Feb. 28, 1991	
Country	Percent	Month effective	Country	Percent	Month effective	Country	Percent	Month effective
Austria Belgium Canada Denmark	6.5 10.5 9.97 9.50	Oct. 1989 Nov. 1989 Feb. 1991 Jan. 1991	France <sup>1</sup> . Germany, Fed. Rep. of Italy. Japan. Netherlands	9.25 6.50 12.5 6.0 7.75	Nov. 1990 Feb. 1991 May 1990 Aug. 1990 Feb. 1991	Norway. Switzerland United Kingdom <sup>2</sup>	10.50 6.0	July 1990 Oct. 1989

As of the end of February 1981, the rate is that at which the Bank of France discounts Treasury bills for 7 to 10 days.
 Minimum lending rate suspended as of Aug. 20, 1981. NOTE. Rates shown are mainly those at which the central bank either discounts

or makes advances against eligible commercial paper and/or government com-mercial 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 the central bank transacts the largest proportion of its credit operations.

#### 3.27 FOREIGN SHORT-TERM INTEREST RATES

Percent per year, averages of daily figures

Country, or type	1088	1090	1990			1990	990			1991		
Country, or type	Country, or type 1988 1989	1990	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.			
1 Eurodollars 2 United Kingdom 3 Canada 4 Germany. 5 Switzerland	7.85 10.28 9.63 4.28 2.94	9.16 13.87 12.20 7.04 6.83	8.16 14.73 13.00 8.41 8.71	8.09 14.92 13.58 8.17 8.81	7.99 14.95 13.13 8.36 8.71	8.07 14.88 12.63 8.39 8.11	8.06 14.02 12.58 8.51 7.88	8.04 13.57 12.36 8.79 8.39	7.87 13.75 11.95 9.17 8.65	7.23 13.91 11.13 9.25 8.44		
6 Netherlands 7 France	4.72 7.80 11.04 6.69 4.43	7.28 9.27 12.44 8.65 5.39	8.57 10.20 12.11 9.70 7.75	8.16 9.91 11.38 9.30 7.68	8.44 10.03 11.49 9.30 8.02	8.42 10.24 10.65 9.04 8.37	8.39 9.92 11.40 8.89 8.26	8.73 9.88 12.42 9.03 8.35	9.27 10.14 13.45 9.81 8.27	9.31 10.14 13.13 9.91 8.18		

NOTE. Rates are for 3-month interbank loans except for Canada, finance company paper; Belgium, 3-month Treasury bills; and Japan, CD rate.

#### 3.28 FOREIGN EXCHANGE RATES<sup>1</sup>

Currency units per dollar

	1000	1989	1990		19	90		19	)91
Country/currency	1988	1989	1990	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
1 Australia/dollar <sup>2</sup>	78.409	79.186	78.069	82.512	80.060	77.290	77.019	77.930	78.351
	12.357	13.236	11.331	11.044	10.719	10.451	10.539	10.616	10.416
	36.785	39.409	33.424	32.282	31.373	30.647	31.014	31.088	30.475
	1.2306	1.1842	1.1668	1.1583	1.1600	1.1635	1.1603	1.1560	1.1549
	3.7314	3.7673	4.7921	4.7342	4.7339	4.9714	5.2352	5.2352	5.2352
	6.7412	7.3210	6.1899	5.9961	5.8117	5.6946	5.7735	5.8115	5.6953
7 Finland/markka.	4.1933	4.2963	3.8300	3.7113	3.6187	3.5644	3.6341	3.6431	3.5941
8 France/franc	5.9595	6.3802	5.4467	5.2575	5.1032	5.0020	5.0895	5.1253	5.0398
9 Germany/deutsche mark.	1.7570	1.8808	1.6166	1.5701	1.5238	1.4857	1.4982	1.5091	1.4805
10 Greece/drachma	142.00	162.60	158.59	154.93	153.17	152.27	156.08	159.70	158.82
11 Hong Kong/dollar	7.8072	7.8008	7.7899	7.7647	7.7722	7.7951	7.8034	7.7950	7.7943
12 India/rupee	13.900	16.213	17.492	17.860	18.074	18.098	18.127	18.339	18.860
13 Ireland/punt <sup>2</sup>	152.49	141.80	165.76	170.91	176.04	180.18	177.77	168.68	179.81
14 Italy/lira.	1,302.39	1,372.28	1,198.27	1,172.87	1,141.62	1,117.04	1,129.26	1,134.38	1,111.19
15 Japan/yen.	128.17	138.07	145.00	138.44	129.59	129.22	133.89	133.70	130.54
16 Malaysia/ringgit.	2.6190	2.7079	2.7057	2.6959	2.6995	2.6949	2.7030	2.7140	2.6969
17 Netherlands/guilder.	1.9778	2.1219	1.8215	1.7699	1.7180	1.6761	1.6904	1.7015	1.6689
18 New Zealand/dollar <sup>2</sup>	65.560	59.354	59.619	62.077	61.129	61.120	59.574	59.476	60.120
19 Norway/krone.	6.5243	6.9131	6.2541	6.0735	5.8241	5.7996	5.8717	5.8993	5.7919
20 Portugal/escudo	144.27	157.53	142.70	139.18	134.41	130.87	132.82	134.43	130.45
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 Tailwan/dollar         29 Thailand/baht         30 United Kingdom/pound <sup>2</sup>	2.0133	1.9511	1.8134	1.7671	1.7257	1.7100	1.7275	1.7455	1.7180
	2.2770	2.6214	2.5885	2.5712	2.5445	2.5247	2.5395	2.5643	2.5412
	734.52	674.29	710.64	717.87	717.76	717.03	718.58	720.83	723.97
	116.53	118.44	101.96	98.49	95.59	94.07	95.75	95.08	92.61
	31.820	35.947	40.078	39.953	40.285	40.355	40.244	40.300	40.598
	6.1370	6.4559	5.9231	5.7663	5.6411	5.5633	5.6338	5.6345	5.5516
	1.4643	1.6369	1.3901	1.3069	1.2818	1.2569	1.2814	1.2714	1.2685
	28.636	26.407	26.918	27.302	27.288	27.245	27.162	27.197	27.109
	25.312	25.725	25.609	25.376	25.130	25.078	25.208	25.244	25.141
	178.13	163.82	178.41	187.94	194.56	196.42	192.19	193.46	196.41
Мемо 31 United States/dollar <sup>3</sup>	92.72	98.60	89.09	86.10	83.43	82.12	83.35	83.51	82.12

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) release. For address, see inside front cover.
 Value in U.S. cents.
 Index of weighted-average exchange value of U.S. dollar against the

currencies of 10 industrial countries. The weight for each of the 10 countries is the 1972-76 average world trade of that country divided by the average world trade of all 10 countries combined. Series revised as of August 1978 (see *Federal Reserve Bulletin*, vol. 64, August 1978, p. 700).

# Guide to Tabular Presentation, Statistical Releases, and Special Tables

#### GUIDE TO TABULAR PRESENTATION

#### Symbols and Abbreviations

	~ · ·	•	<b>MA 1</b>
С	Corrected	0	Calculated to be zero
e	Estimated	n.a.	Not available
р	Preliminary	n.e.c.	Not elsewhere classified
r	Revised (Notation appears on column heading when about	IPCs	Individuals, partnerships, and corporations
	half of the figures in that column are changed.)	REITs	Real estate investment trusts
*	Amounts insignificant in terms of the last decimal place	RPs	Repurchase agreements
	shown in the table (for example, less than 500,000 when	SMSAs	Standard metropolitan statistical areas
	the smallest unit given is millions)	•••	Cell not applicable
Ge	neral Information		
Mir	us signs are used to indicate (1) a decrease, (2) a negative	tions of th	ne Treasury. "State and local government" also in-
	re, or (3) an outflow.		inicipalities, special districts, and other political

"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-

subdivisions. In some of the tables, details do not add to totals because of

In some of the tables, details do not add to totals because of rounding.

#### STATISTICAL RELEASES -- List Published Semiannually, with Latest BULLETIN Reference

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Special table follows.

#### 4.23 TERMS OF LENDING AT COMMERCIAL BANKS Survey of Loans Made, November 5-9, 1990<sup>1</sup>

A. Commercial and Industrial Loans

	Amount of	Average	Weighted average	Ĺ	oan rate (perc	ent)	Loans made	Partici-	Most
Characteristic	loans (thousands of dollars)	size (thousands of dollars)	Days	Weighted average effective <sup>3</sup>	Standard error <sup>4</sup>	Inter- quartile range <sup>5</sup>	under commit- ment (percent)	pation loans (percent)	common base pricing rate <sup>6</sup>
ALL BANKS									
1 Overnight <sup>7</sup>	9,662,879	5,132	*	8,96	.11	8.58-9.14	76.6	4.3	Fed Funds
2 One month and under         3 Fixed rate         4 Floating rate	9,615,512 7,517,999 2,097,513	973 1,192 587	18 18 18	9.21 9.06 9.75	.09 .10 .28	8.67–9.51 8.67–9.48 8.73–10.51	83.0 81.2 89.3	7.0 7.4 5.2	Other Other Domestic
5 Over one month and under a year 6 Fixed rate 7 Floating rate	11,129,241 5,004,619 6,124,622	160 172 152	145 112 173	10.14 9.85 10.37	.22 ,24 .26	8.91–11.30 8.95–10.81 8.81–11.52	80.3 76.4 83.4	10.7 14.9 7.4	Prime Other Prime
8 Demand <sup>8</sup> 9 Fixed rate 10 Floating rate	11,821,829 2,010,662 9,811,168	197 353 181	*	10.53 9.33 10.77	.18 .28 .18	9.25-11.57 8.52-9.92 10.25-11.63	80.7 79.2 81.0	5.6 3.0 6.2	Prime Other Prime
11 Total short term	42,229,460	299	59	9,77	.14	8.72-10.54	80.2	7.0	Prime
12 Fixed rate (thousands of dollars)           13         1-24.           14         25-49           15         50-99           16         100-499           17         500-99           18         1000 and over	24,196,158 192,991 100,429 158,689 662,706 470,892 22,610,450	563 7 33 62 190 651 6,480	32 129 128 132 111 70 28	9.21 12.54 11.51 11.64 11.05 10.17 9.08	.11 .20 .27 .26 .35 .22 .11	8.63-9.50 11.51-13.29 11.00-12.57 11.07-12.68 10.33-12.01 9.11-11.02 8.60-9.38	78.2 26.3 24.2 31.0 51.0 77.8 80.1	7.3 .0 3.0 .5 12.5 5.4 7.4	Other Other Prime Other Other Other Other
19 Floating rate (thousands of dollars)         20 1-24         21 25-49         22 50-99         23 100-499         24 500-99         25 1000 and over	18,033,302 457,897 541,436 864,207 3,321,885 1,667,147 11,180,731	184 10 34 66 197 652 4,339	133 173 152 175 158 201 117	10.52 12.12 11.88 11.62 11.35 11.06 9.97	.20 .13 .10 .08 .06 .09 .20	9.21-11.57 11.46-12.75 11.11-12.56 11.00-12.19 10.52-11.91 10.47-11.63 8.70-10.93	82.8 76.2 79.7 84.6 86.7 88.5 81.1	6.5 .8 2.7 3.8 7.6 8.6 6.4	Prime Prime Prime Prime Prime Prime Prime
			Months	]					
26 Total long term	4,472,762	210	50	10.82	.15	10.00-11.63	79.3	11.7	Prime
27         Fixed rate (thousands of dollars)           28         1-99.           29         100-499           30         500-999           31         1000 and over	1,303,664 186,228 170,640 21,984 924,811	119 19 187 661 4,085	62 54 143 50 49	10.46 12.30 11.28 11.10 9.92	.28 .18 .21 .29 .33	9.11-11.49 11.49-13.24 10.80-11.91 10.50-11.57 8.90-11.00	61.0 14.0 40.7 61.6 74.2	4.2 6.1 4.5 .0 3.9	Other Other None Prime Domestic
32         Floating rate (thousands of dollars)           33         1-99           34         100-499           35         500-999           36         1000 and over	3,169,098 190,343 442,578 255,716 2,280,462	305 26 215 665 3,433	45 43 60 39 42	10.96 12.06 11.25 11.04 10.80	.17 .12 .11 .10 .20	10.38-12.01 11.30-12.75 10.47-11.73 10.47-11.57 10.00-11.91	86.8 58.7 72.3 84.7 92.2	14.8 4.1 13.9 15.1 15.8	Prime Prime Prime Prime Prime
				Loan rate	(percent)				
			Days	Effective <sup>3</sup>	Nominal <sup>9</sup>	Prime rate <sup>10</sup>			
Loans Made Below Prime <sup>(1</sup>	j								
37 Overnight <sup>7</sup> 38 One month and under         39 Over one month and under a year         40 Demand <sup>8</sup>	8,895,731 8,455,158 6,098,468 3,907,308	7,298 4,824 617 1,054	* 17 137 *	8.82 8.91 9.04 8.96	8.45 8.55 8.73 8.70	10.00 10.00 10.08 10.09	75.8 83.1 86.8 68.3	5.0 7.3 12.3 4.3	
41 Total short term	27,356,665	1,652	42	8.92	8.58	10.03	79.4	7.3	
42 Fixed rate 43 Floating rate	21,126,152 6,230,513	2,139 933	28 113	8.90 8.98	8.55 8.67	10.01 10.08	79.0 80.8	7.9 4.9	
			Months						
44 Total long term	1,162,938	360	50	9.15	8.84	10.16	86.7	12.8	
45 Fixed rate 46 Floating rate	590,555 572,383	285 496	44 56	9.09 9.20	8.83 8.86	10.14 10.18	89.0 84.3	13.5 12.1	

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4.23 TERMS OF LENDING AT COMMERCIAL BANKS Survey of Loans Made, November 5-9, 1990<sup>1</sup>—Continued A. Commercial and Industrial Loans—Continued

	Amount of	Average	Weighted average	Lo	oan rate (perce	ent)	Loans made	Partici-	Most
Characteristic	loans (thousands of dollars)	size (thousands of dollars)	Days	Weighted average effective <sup>3</sup>	Standard error <sup>4</sup>	Inter- quartile range <sup>5</sup>	under commit- ment (percent)	pation loans (percent)	common base pricing rate <sup>6</sup>
LARGE BANKS									
I Overnight <sup>7</sup>	7,771,693	6,515	*	9.04	.18	8.66-9.19	71.1	4.8	Fed Funds
2 One month and under         3 Fixed rate         4 Floating rate	6,896,330 5,195,998 1,700,332	4,161 5,350 2,478	17 18 16	9,19 9,07 9,53	.11 .18 .34	8.67–9.52 8.67–9.51 8.69–10.47	81.4 78.0 91.9	5.7 5.8 5.6	Other Other Domestic
5 Over one month and under a year 6 Fixed rate 7 Floating rate	6,181,414 2,936,542 3,244,872	1,125 3,256 706	124 87 158	9.79 9.75 9.83	.26 .27 .41	8.79-10.54 8.98-10.20 8.64-10.81	90.1 87.0 93.0	13.6 19.3 8.4	Foreign Other Prime
8 Demand <sup>8</sup> 9 Fixed rate 10 Floating rate	6,718,095 1,246,081 5,472,014	337 887 296	* * *	10.29 9.07 10.56	.31 .29 .30	8.94-11.46 8.41-9.45 9.75-11.57	73.5 81.7 71.6	6.1 4.6 6.4	Prime Domestic Prime
11 Total short term	27,567,532	976	43	9.55	.19	8.70-10.47	78.5	7,3	Other
12         Fixed rate (thousands of dollars)           13         1-24.           14         25-49.           15         50-99.           16         100-499.           17         500-99.           18         1000 and over.	17,150,314 6,533 8,653 13,839 146,842 224,448 16,749,999	3,836 10 33 66 230 664 7,159	22 112 92 83 53 41 22	9.17 11.47 11.21 10.68 10.06 9.85 9.15	.18 .26 .44 .21 .40 .26 .18	8.67-9.45 10.79-12.00 11.00-11.94 10.38-11.50 9.09-11.00 9.11-10.52 8.67-9.42	76.7 33.9 37.0 54.9 69.2 75.7 76.8	7.6 .5 .8 1.5 1.9 7.8 7.6	Other Prime Prime Prime Prime Other Other
19         Floating rate (thousands of dollars)           20         1-24           21         25-49           22         50-99           23         100-499           24         500-99           25         1000 and over	10,417,218 95,545 125,306 251,836 1,089,944 628,414 8,226,173	438 11 34 67 201 663 5,184	109 179 162 158 160 161 102	10.17 11.60 11.53 11.42 11.12 10.84 9.91	.32 .18 .13 .12 .06 .07 .37	8.77-11.29 10.75-12.19 10.75-12.13 10.75-12.00 10.47-11.63 10.47-11.50 8.68-11.02	81.6 83.4 89.9 90.8 89.3 91.8 79.4	6.9 .6 1.1 2.3 4.5 9.7 7.3	Prime Prime Prime Prime Prime Prime Prime
			Months						
26 Total long term	2,702,411	886	40	10.57	.26	9.42-11.57	92.1	12.1	Prime
27         Fixed rate (thousands of dollars)           28         1-99.           29         100-499           30         500-999           31         1000 and over	471,544 7,483 13,547 13,449 437,066	1,072 26 245 704 5,399	45 48 62 55 44	9.60 11.57 10.30 11.08 9.49	.51 .33 .23 .28 .65	8.36-10.96 10.69-12.46 9.73-10.51 10.47-11.44 8.36-10.77	89.0 38.5 60.7 71.9 91.2	4.5 2.5 14.4 .0 4.4	Other None None Prime Other
32         Floating rate (thousands of dollars)           33         1-99           34         100-499           35         500-999           36         1000 and over	2,230,867 36,922 221,859 175,639 1,796,447	855 38 231 669 4,309	39 34 40 36 39	10.78 11.86 11.24 11.11 10.67	.27 .17 .12 .12 .31	10.00-11.85 11.02-12.55 10.47-11.85 10.47-11.73 10.00-11.63	92.8 79.4 83.7 86.7 94.8	13.8 7.2 11.5 18.6 13.7	Prime Prime Prime Prime Prime
				Loan rate	(percent)				
	i.		Days	Effective <sup>3</sup>	Nominal <sup>9</sup>	Prime rate <sup>10</sup>			
LOANS MADE BELOW PRIME <sup>11</sup>						<u> </u>			
37 Overnight <sup>7</sup>	7,036,229	7,689		8.88	8.51	10.00	69.5	5,8	
38 One month and under         39 Over one month and under a year         40 Demand <sup>8</sup>	6,037,689 4,152,477 2,576,793	6,204 4,711 2,749	16 123 *	8.88 9.07 8.79	8.52 8.77 8.57	10.00 10.00 10.00 10.00	80.3 90.1 55.8	5.7 13.4 3.5	
41 Total short term	19,803,187	5,342	36	8.91	8.57	10.00	75.3	7.1	l
42 Fixed rate 43 Floating rate	15,123,677 4,679,510	5,780 4,292	21 100	8.93 8.84	8.58 8.56	10.00 10.00	75.3 75.3	8.1 3.7	
			Months						
44 Total long term	773,271	2,779	42	8.84	8.59	10.00	94.6	12.9	
45 Fixed rate	309,570 463,701	3,116 2,592	46 39	8.75 8.90	8.60 8.58	10.00 10.00	96.8 93.1	16.7 10.3	

#### 4.23-Continued

A. Commercial and Industrial Loans-Continued

	Amount of	Average	Weighted	Le	oan rate (perc	ent)	Loans made	Partici-	Most
Characteristic	loans (thousands of dollars)	size (thousands of dollars)	average maturity <sup>2</sup> Days	Weighted average effective <sup>3</sup>	Standard error <sup>4</sup>	Inter- quartile range <sup>5</sup>	under commit- ment (percent)	pation loans (percent)	common base pricing rate <sup>6</sup>
OTHER BANKS						•			[
1 Overnight <sup>7</sup>	1,891,186	2,740	*	8.63	.08	8.39-8.86	99.5	2.1	Fed Funds
2 One month and under         3 Fixed rate         4 Floating rate	2,719,182 2,322,001 397,181	330 435 137	20 19 23	9.29 9.05 10.68	.13 .10 .23	8.61-9.50 8.57-9.46 9.33-11.58	87.0 88.5 78.0	10.1 11.2 3.9	Domestic Domestic Prime
5 Over one month and under a year 6 Fixed rate 7 Floating rate	4,947,827 2,068,077 2,879,750	77 73 81	172 146 191	10.58 10.00 10.99	.32 .39 .27	9.08-11.76 8.87-11.57 10.47-11.85	68.0 61.5 72.7	7.1 8.5 6.1	Prime Other Prime
8 Demand <sup>8</sup> 9 Fixed rate 10 Floating rate	5,103,734 764,580 4,339,154	128 178 122	) <u>*</u> * }	10.85 9.76 11.04	.12 .41 .14	10.25-11.63 8.84-10.47 10.47-11.63	90.2 75.3 92.9	5.0 .4 5.8	Prime Other Prime
11 Total short term	14,661,928	130	95	10.18	.08	8.79-11.43	83.3	6.3	Prime
12       Fixed rate (thousands of dollars)         13       1-24         14       25-49         15       50-99         16       100-499         17       500-99         18       1000 and over	7,045,844 186,459 91,776 144,850 515,864 246,444 5,860,451	183 6 33 62 181 640 5,098	55 129 129 134 123 93 44	9.29 12.57 11.54 11.73 11.33 10.47 8.86	. 14 . 16 .29 .34 .12 .37 .13	8.49-9.53 11.57-13.31 11.07-12.57 11.30-12.75 10.50-12.19 9.11-12.06 8.45-9.11	82.1 26.1 23.0 28.7 45.8 79.6 89.4	6.8 .0 3.3 .4 15.5 3.3 6.6	Other Other Other Other Other Prime Fed Funds
19         Floating rate (thousands of dollars)           20         1-24           21         25-49           22         50-99           23         100-499           24         500-99           25         100-399           25         1000-399           25         1000 and over	7,616,084 362,352 416,130 612,371 2,231,941 1,038,732 2,954,558	102 9 35 66 195 646 2,984	170 173 151 178 157 220 164	11.00 12.26 11.98 11.70 11.46 11.19 10.15	.14 .07 .06 .07 .06 .15 .17	10.47-11.80 11.57-12.75 11.36-12.68 11.03-12.19 10.75-12.13 10.47-12.13 9.14-10.93	84.5 74.3 76.7 82.0 85.5 86.5 85.8	5.8 .8 3.2 4.4 9.2 7.9 3.9	Prime Prime Prime Prime Prime Prime Prime
			Months						
26 Total long term	1,770,351	97	64	11.19	.13	10.47-11.91	59.7	11.0	Prime
27 Fixed rate (thousands of dollars)           28 1-99           29 100-499           30 500-999           31 1000 and over	832,120 178,746 157,094 8,535 487,745	79 19 183 602 3,354	71 54 150 43 53	10.95 12.33 11.37 11.14 10.31	.20 .17 .20 .71 .27	9.96-11.63 11.49-13.24 11.02-11.91 10.57-11.57 9.11-11.35	45.1 13.0 39.0 45.4 58.9	4.1 6.3 3.6 .0 3.4	Prime Other None Prime Prime
32         Floating rate (thousands of dollars)           33         1-99.           34         100-499           35         500-999           36         1000 and over	938,231 153,421 220,719 80,076 484,015	121 24 201 658 1,957	58 46 80 45 54	11.40 12.11 11.27 10.90 11.31	.16 .11 .18 .17 .27	10.52-12.13 11.30-12.75 10.47-11.63 10.50-11.57 10.52-12.19	72.5 53.7 60.8 80.3 82.6	17.2 3.4 16.4 7.4 23.5	Prime Prime Prime Prime Prime
ſ				Loan rate	(percent)				
			Days	Effective <sup>3</sup>	Nominal <sup>9</sup>	Prime rate <sup>10</sup>			
				Enective					[
LOANS MADE BELOW PRIME <sup>11</sup>	1.050.502	( 10)			0.24	10.00	<b>200</b> (		
37 Overnight'	1,859,502 2,417,469 1,945,991 1,330,516	6,121 3,101 216 481	19 168 *	8.59 8.97 8.98 9.30	8.24 8.61 8.65 8.95	10.00 10.01 10.24 10.26	99.6 90.0 79.7 92.4	2.2 11.4 9.9 5.7	
41 Total short term	7,553,478	588	60	8.94	8.59	10.11	90.2	7.7	
42 Fixed rate 43 Floating rate	6,002,475 1,551,003	827 278	45 167	8.82 9.39	8.48 9.01	10.05 10.33	88.3 97.3	7.5 8.6	
		ļ	Months						
44 Total long term	389,666	132	66	9.75	9.34	10.48	71.0	12.7	[
45 Fixed rate 46 Floating rate	280,985 108,682	142 111	42 129	9.47 10.50	9.07 10.03	10.30 10.92	80.5 46.6	9.9 19.9	

### 4.23 TERMS OF LENDING AT COMMERCIAL BANKS Survey of Loans Made, November 5–9, 1990—Continued B. Loans to Farmers<sup>12</sup>

	Size class of loans (thousands)								
Characteristic	All sizes	\$1-9	\$10-24	\$25-49	\$50-99	\$100-249	\$250 and over		
ALL BANKS									
1 Amount of loans (thousands of dollars)         2 Number of loans	\$ 1,949,950	\$ 126,966	\$ 157,314	\$ 190,582	\$ 227,141	\$ 220,261	\$ 1,027,687		
	55,958	34,346	10,440	5,373	3,351	1,544	905		
	8.5	6.5	8.9	7.9	14.2	27.4	3.5		
4 Weighted average interest rate (percent) <sup>3</sup> 5 Standard error <sup>4</sup> 6 Interquartile range <sup>5</sup>	11.51	12.53	12.31	12.15	11.88	11.67	11.03		
	.67	.22	.38	.32	.19	.30	1.25		
	10.52–12.19	12.01–13.01	11.63–12.89	11.57–12.75	11.35–12.47	11.00–12.19	10.52–11.85		
By purpose of loan         7 Feeder livestock         8 Other livestock         9 Other current operating expenses         10 Farm machinery and equipment         11 Farm real estate         12 Other	11.62 12.23 11.74 12.35 11.50 10.78	12.56 12.83 12.45 12.67 12.51 12.51	12.22 12.41 12.32 12.53 11.82 12.47	12.01 12.49 12.27 12.28 11.50 12.21	11.95 12.18 11.60 * 11.29 12.16	11.61 12.24 11.46 * 11.31	11.40 11.85 11.09 * 10.52		
Percentage of amount of loans 13 With floating rates 14 Made under commitment	58.5	54.4	48.6	55.3	57.9	85.7	55.4		
	63.0	51.8	54.4	60.3	53.3	69.6	66.9		
By purpose of loan         15       Feeder livestock         16       Other livestock         17       Other current operating expenses         18       Farm machinery and equipment         19       Farm real estate         20       Other	33.2	10.5	17.2	32.2	41.5	38.7	35.5		
	8.4	12.5	13.5	8.3	16.1	13.8	4.3		
	25.7	64.2	45.7	38.1	17.8	27.5	17.0		
	2.3	6.6	10.0	5.9	*	*	*		
	6.6	1.7	6.8	6.1	9.1	*	*		
	23.9	4.6	6.9	9.4	12.2	8.6	37.4		
LARGE FARM LENDERS <sup>12</sup>									
1 Amount of loans (thousands of dollars)         2 Number of loans	\$ 1,192,264	\$ 15,505	\$ 31,472	\$ 44,314	\$ 61,036	\$ 110,503	\$ 929,429		
	9,480	3,850	2,091	1,260	903	721	654		
	3.7	7.1	7.0	7.9	8.0	7.0	2.6		
4 Weighted average interest rate (percent) <sup>3</sup>	11.11	12.17	11.92	11.76	11.68	11.33	10.98		
5 Standard error <sup>4</sup>	.65	.21	.38	.28	.10	.21	1.12		
6 Interquartile range <sup>5</sup>	10.52–11.85	11.58-12.75	11.39–12.47	11.20-12.19	11.07–12.19	10.6611.76	10.52–11.57		
By purpose of loan         7         Feeder livestock         8       Other livestock         9       Other current operating expenses         10       Farm machinery and equipment         11       Farm real estate         12       Other	11.48 11.39 11.21 12.13 11.60 10.59	12.17 12.17 12.19 12.69 11.70 12.09	11.94 11.87 11.95 12.17 11.89 11.78	11.88 11.48 11.72 * 11.70 11.66	11.72 11.91 11.59 * 11.39	11.51 11.26 11.13 * 11.18	* 11.42 * 11.00 * 10.52		
Percentage of amount of loans 13 With floating rates 14 Made under commitment	61.4	83.5	84.4	90.7	87.7	95.0	53.2		
	68.9	80.8	77.8	81.6	75.7	82.9	65.7		
By purpose of loan         15       Feeder livestock         16       Other livestock         17       Other current operating expenses         18       Farm machinery and equipment         19       Farm real estate         20       Other	34.7 2.0 22.8 .4 5.3 34.8	16.0 2.8 59.1 4.8 4.0 13.4	21.6 4.4 50.9 2.6 6.9 13.5	34.7 2.5 40.0 * 7.8 13.7	41.9 6.6 30.9 * 10.8	41.1 7.0 38.4 * 10.4	34.2 * 17.9 * 41.3		
Other Banks <sup>12</sup>									
1 Amount of loans (thousands of dollars)         2 Number of loans	\$    757,686	\$ 111,461	\$ 125,843	\$ 146,268	\$ 166,106	\$ 109,752	\$ 98,257		
	46,479	30,496	8,348	4,113	2,448	823	251		
	14.4	6.4	9.2	7.9	15.8	44.2	12.8		
4 Weighted average interest rate (percent) <sup>3</sup>	12.14	12.58	12.41	12.27	11.96	12.01	11.54		
5 Standard error <sup>4</sup>	.10	.05	.04	.14	.16	.21	.52		
6 Interquartile range <sup>5</sup>	11.51–12.75	12.08–13.03	11.83–12.97	11.63–12.86	11.4612.47	11.27–12.66	10.72–12.19		
By purpose of loan 7 Feeder livestock 9 Other current operating expenses 10 Farm machinery and equipment 11 Farm real estate 2 Other	11.88 12.37 12.37 12.37 11.40 12.38	12.65 12.85 12.48 12.67 12.84 12.75	12.31 12.45 12.42 12.55 11.81 12.92	12.06 12.57 12.44 12.31 12.49	12.04 12.22 11.60 *	, 11.73 * * *	* * * *		

#### 4.23-Continued

B. Loans to Farmers<sup>12</sup>--Continued

	Size class of loans (thousands)								
Characteristic	All sizes	\$19	\$10-24	\$25-49	\$5099	\$100-249	\$250 and over		
Percentage of amount of loans 13 With floating rates	53.8 53.6	50.4 47.7	39.6 48.5	44.6 53.8	47.0 45.1	76.4 56.2	*		
By purpose of loan         15       Feeder livestock         16       Other livestock         17       Other current operating expenses         18       Farm machinery and equipment         19       Farm real estate         20       Other	30.7 18.4 30.3 5.2 8.7 6.7	9.7 13.9 64.9 6.9 1.3 3.4	16.1 15.8 44.4 11.8 6.7 5.2	31.5 10.0 37.6 7.3 * 8.1	41,4 19,6 13.0 * *	36.2 * * *	* * * *		

\*Fewer than 10 sample loans.

\*Fewer than 10 sample loans. 1. The survey of terms of bank lending to business collects data on gross loan extensions made during the first full business week in the mid-month of each quarter by a sample of 340 commercial banks of all sizes. A sample of 250 banks reports loans to farmers. The sample data are blown up to estimate the lending terms at all insured commercial banks during that week. The estimated terms of bank lending are not intended for use in collecting the terms of loans extended over the entire quarter or residing in the portfolios of those banks. Mortgage loans, purchased loans, foreign loans, and loans of less than \$1,000 are excluded from the survey. As of Dec: 31, 1989, assets of most of the large banks were at least \$7.0 billion. For all insured banks total assets averaged \$250 million. 3. Effective (compounded) annual interest rates are calculated from the stated rate and other terms of the loan and weighted by loan size. 4. The chances are about two out of three that the average rate shown would differ by less than this amount from the average rate that would be found by a complete survey of lending at all banks. 5. The interquartile range shows the interest rate range that encompasses the middle 50 percent of the total dollar amount of loans made. 6. The most common base rate is that rate used to price the largest dollar

volume of loans. Base pricing rates include the prime rate (sometimes referred to as a bank's "basic" or "reference" rate); the federal funds rate; domestic money market rates other than the federal funds rate; foreign money market rates; and other base rates not included in the foregoing classifications. 7. Overnight loans are loans that mature on the following business day. 8. Demand loans have no stated date of maturity. 9. Nominal (not compounded) annual interest rates are calculated from survey data on the stated rate and other terms of the loan and weighted by loan size. 10. The prime rate reported by each bank is weighted by the volume of loans extended and then averaged. 11. The proportion of loans made at rates below prime may vary substantially from the proportion of such loans outstanding in banks' portfolios. 12. Among banks reporting loans to farmers (Table B), most "large banks" (survey strata 1 to 2) had over \$20 million in farm loans, and most "other banks" (survey strata 3 to 5) had farm loans below \$20 million. The survey of terms of bank lending to farmers now includes loans secured by farm real estate. In addition, the categories describing the purpose of farm loans have now been expanded to include "purchase or improve farm real estate." In previous surveys, the purpose of such loans was reported as "other."

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SAVING

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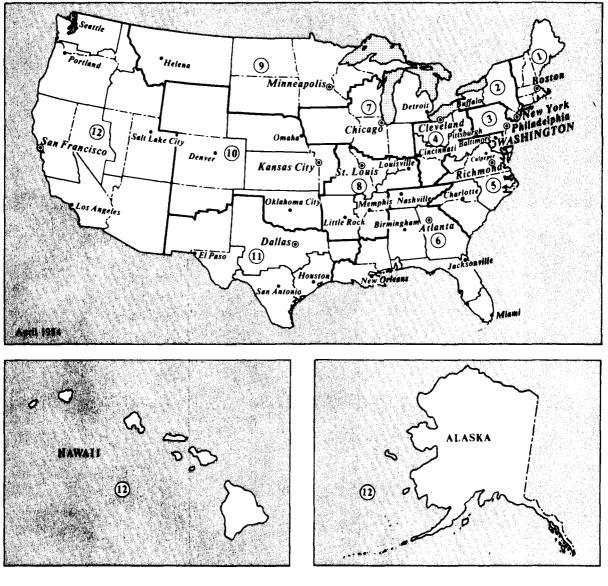
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PHILADELPHIA 19105	Peter A. Benoliel Jane G. Pepper	Edward G. Boehne William H. Stone, Jr.	
CLEVELAND* 44101	John R. Miller A. William Reynolds	W. Lee Hoskins William H. Hendricks	
Cincinnati			Charles A. Cerino <sup>1</sup> Harold J. Swart <sup>1</sup>
RICHMOND* 23219	Anne Marie Whittemore Henry J. Faison	Robert P. Black Jimmie R. Monhollon	
Baltimore	John R. Hardesty, Jr.		Ronald B. Duncan <sup>1</sup> Albert D. Tinkelenberg <sup>1</sup> John G. Stoides <sup>1</sup>
ATLANTA 30303	Larry L. Prince Edwin A. Huston	Robert P. Forrestal Jack Guynn	Donald E. Nelson <sup>1</sup>
Birmingham         35283           Jacksonville         32231           Miami         33152           Nashville         37203           New Orleans         70161	Roy D. Terry Hugh H. Brown	Jack Guymi	Fred R. Herr <sup>1</sup> James D. Hawkins <sup>1</sup> James T. Curry III Melvyn K. Purcell Robert J. Musso
CHICAGO* 60690 Detroit 48231	Charles S. McNeer Richard G. Cline Phyllis E. Peters	Silas Keehn Daniel M. Doyle	Roby L. Sloan <sup>1</sup>
ST. LOUIS 63166		Thomas C. Melzer	
Little Rock	Lois H. Gray	James R. Bowen	Karl W. Ashman Howard Wells Ray Laurence
MINNEAPOLIS 55480 Helena 59601	Gerald A. Rauenhorst	Gary H. Stern Thomas E. Gainor	John D. Johnson
KANSAS CITY 64198		Roger Guffey	
Denver         80217           Oklahoma City         73125           Omaha         68102	Burton A. Dole, Jr. Barbara B. Grogan Ernest L. Holloway	Henry R. Czerwinski	Kent M. Scott David J. France Harold L. Shewmaker
DALLAS 75222	Leo E. Linbeck, Jr.	Robert D. McTeer, Jr. To be announced	Tony J. Salvaggio <sup>1</sup>
El Paso	W. Thomas Beard, III		Sammie C. Clay Robert Smith, III <sup>1</sup> Thomas H. Robertson
SAN FRANCISCO 94120	Robert F. Erburu Carolyn S. Chambers	Robert T. Parry Carl E. Powell	
Los Angeles	Yvonne B. Burke William A. Hilliard D.N. Rose	Cari E. Powell	Thomas C. Warren <sup>2</sup> Angelo S. Carella <sup>1</sup> E. Ronald Liggett <sup>1</sup> Gerald R. Kelly <sup>1</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.

Senior Vice President.
 Executive Vice President.

# The Federal Reserve System

Boundaries of Federal Reserve Districts and Their Branch Territories



#### Legend

- Boundaries of Federal Reserve Districts
- Boundaries of Federal Reserve Branch Territories
- Board of Governors of the Federal Reserve System
- Federal Reserve Bank Cities
- Federal Reserve Branch Cities
- Federal Reserve Bank Facility