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At its meeting on December 15-16, 1987, the Committee approved a directive that called for maintaining the existing degree of pressure on reserve positions and for phasing open market operations into a more normal approach to policy implementation keyed increasingly to a desired degree of reserve pressure while giving less emphasis than recently to money market conditions. The members recognized that the conduct of open market operations might continue to require a special degree of flexibility, given still quite sensitive conditions in financial markets and the uncertainties in the business outlook. Taking account of conditions in financial markets, the members indicated that somewhat less or somewhat more reserve restraint would be acceptable, depending on the strength of the business expansion, indications of inflation, the performance of the dollar in foreign exchange markets, with consideration also taken of the behavior of the monetary aggregates. If current reserve conditions were maintained, the members expected growth in M2 and M3 to pick up from the pace in recent months to annual rates of about 5 percent and 6 percent respectively over the fourmonth period from November to March. Growth of M1 was expected to remain

relatively limited over the same period; because of the substantial uncertainty that continued to surround the outlook for M1, the Committee continued its practice of not specifying a numerical expectation for its growth. The members agreed that the intermeeting range for the federal funds rate, which provides a mechanism for initiating consultation of the Committee when its boundaries are persistently exceeded, should be left unchanged at 4 to 8 percent.

At a telephone meeting on January 5, 1988, the Committee agreed that with the further passage of time since the October disturbances in financial markets and with year-end pressures in the money market in the process of unwinding, further progress could be made toward restoring a normal approach to open market operations. Some flexibility might continue to be needed in the conduct of operations, given the still somewhat unsettled conditions in financial markets and the uncertainties in the economic outlook.

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The Recent Behavior of Demand Deposits

Patrick I. Mahoney of the Board's Division of Monetary Affairs prepared this article. Mary T. Hoffman and Linda C. Rosenberg provided research assistance for the article, and Lyle S. Kumasaka provided extensive research assistance on the survey.

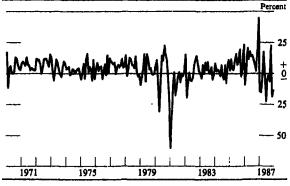
The monetary aggregate M1, consisting of currency, demand deposits, and other checkable deposits, has been less reliable as an economic indicator during the 1980s than it was during previous decades. In part, the deterioration in the link between M1 and economic activity is attributable to the inclusion in M1 of negotiable order of withdrawal (NOW) accounts. These deposits, which were authorized nationwide effective at the end of 1980, serve as a hybrid savings and transaction instrument and therefore blur the definition of M1 as a transaction aggregate and increase its interest sensitivity. In addition, the behavior of the demand-deposit component of M1 has changed in the 1980s. The shift of household transaction deposits to NOW accounts, changes in the way businesses manage cash and compensate banks for services, and innovations in financial instruments are among the factors responsible for that change. Demand deposits have become somewhat more volatile month to month and, more important from a policy perspective, their longer-run relationship to income and to interest rates appears to be changing. In particular, growth in demand deposits was considerably stronger in 1986 and considcrably weaker in 1987 than historical relationships suggested.

To obtain more information about the weakness of demand deposits in 1987 and in particular to understand better the role of compensatingbalance arrangements in the behavior of these deposits, the staff at the Board of Governors of the Federal Reserve System and at the Federal Reserve Banks conducted a survey of senior financial officers of large banks in January of this year. The results of the survey, reported in the second part of this article, confirm the influence of interest rate movements on the recent behavior of demand deposits and shed some light on changing ways of using demand balances to compensate banks for services.

Demand Deposit Behavior in the 1980s

The short-run behavior of demand deposits has been more volatile in the 1980s than it was in the previous decade. For example, the monthly growth rates of demand deposits have varied over a wider range in the 1980s (chart 1). In statistical terms, the standard deviation of annualized monthly growth rates of seasonally adjusted demand deposits, which was slightly less than 6 percent over the 1970s, jumped to nearly 14 percent for the 1980-87 period. Because data on demand deposits for earlier years have been subject to the smoothing effects of more revisions in seasonal factors, the figures as first published for both periods were examined to provide the same review of seasonal factors. The standard deviation of these monthly growth rates was about 8 percent over the 1970s and has been 15 percent so far in the 1980s. And for not

 Monthly growth rate of demand deposits, 1970/87



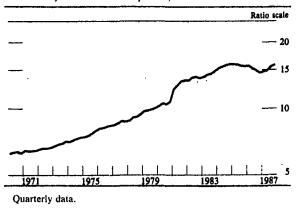
Seasonally adjusted.

seasonally adjusted data, the comparable standard deviations also rose though by smaller amounts, from 26 to 32 percent. Statistical tests confirmed the significance of the increases in variability. These wider monthly swings in growth have made it more difficult to predict and to interpret the behavior of demand deposits in the short run.

More important, the relationship between longer-run movements in demand deposits and aggregate spending, which was relatively stable in the 1960s and 1970s, has weakened in the 1980s. Movements in the velocity of demand deposits, the ratio of gross national product to demand deposits, were fairly steady and predictable through the end of the 1970s; over this period, velocity rose at an average annual rate of 4.1 percent per year, in part reflecting rising interest rates. Velocity jumped at the beginning of 1981, however, as consumers shifted funds out of demand deposits and into interest-bearing NOW accounts (chart 2). Later, in 1985 and particularly in 1986, the velocity of demand deposits declined substantially, and then it rebounded in 1987.

The shifts in velocity in the past three years appear to be related to the pattern of interest rate movements and to an increasing responsiveness to changes in rates. Rates declined in 1985 and 1986, reducing incentives for depositors to economize on cash balances and increasing the levels of balances businesses needed to compensate their banks for credit and operational services (see the discussion below). Rates then rose through most of 1987, reversing these effects.

2. Velocity of demand deposits, 1970-87.



But the responses of demand deposits to changes in interest rates were greater than past norms suggested. This change is illustrated by the results of a simulation of a typical money-demand model for demand deposits (see the appendix for its specification and discussion of other work). The model explains the annual growth in demand deposits fairly accurately through 1985, but then underpredicts growth by 5.6 percentage points in 1986, when rates were falling, and overpredicts it by 5.2 percentage points in 1987, when rates were rising (table 1). The misses in the simulation generally are related to movements in interest rates; coupled with the results of estimations of the model over more recent periods, they suggest that the interest elasticity of demand deposits has increased, though to an uncertain extent.

This development has caused the growth of demand deposits to diverge increasingly from predictions implied by its historical relationship with spending and interest rates. To be sure, this relationship had had episodes of unpredictability before, such as the surprising weakness of these deposits in the mid-1970s. But, the divergence of demand deposits from their previously normal relationship to spending and interest rates has widened in the 1980s.

1. Results of a long-run simulation of demand-deposit growth

Year	Demand-de	posit growth cent)	Difference (percentage	Change in 3-month Treasury bill rate ² (basis points)	
	Actual	Predicted ¹	points)		
1981 1982 1983 1984 1985	-12.8 .8 2.4 1.5 8.9	-12,8 ³ -1.0 4.9 2.1 8,7	.0 1.8 2.6 6	200 -480 40 60 -250	
1986 1987	11.8 9	6.3 4.2	5.6 -5.2	-170 -60	

1. Simulation beginning in 1981.

FACTORS IN THE BEHAVIOR OF DEMAND DEPOSITS IN THE 1980S

The 1980s have been characterized by many financial events that have directly or indirectly affected the behavior of demand deposits, includ-

^{2.} Change from fourth quarter to fourth quarter of a two-quarter moving average.

The model includes a variable to capture the effects of the availability of NOW accounts.

ing the deregulation of interest rates on other deposits, changes in the structure of federal income taxes, numerous innovations in financial instruments and in the technology for executing transactions, and greater volatility in interest rates and financial markets. In some cases single events have had easily identifiable effects, while in others the interactions of several developments appear to have contributed to the changes in the behavior of demand deposits.

Special Occurrences and Monthly Growth Rates

Certain unique developments, such as credit controls and the nationwide authorization of NOW accounts, explain some of the unusually wide short-run swings in the growth of demand deposits since 1979. Some affected the level of demand deposits permanently, as when households shifted transaction balances to NOW accounts. Others affected the monthly growth rates of demand deposits briefly, but had no long-run effect on their levels. Monthly growth in demand deposits can swing widely when the volumes of major types of transactions diverge markedly from their trends. For example, demand deposits jumped in late 1986 when investors scrambled to complete transactions under the more favorable capital gains and other tax provisions that the Tax Reform Act of 1986 eliminated or reduced. They then fell rapidly in January 1987 as the bulge worked its way through, only to rise markedly in April with income tax payments that were considerably higher than normal because they reflected the increase in income tax liabilities incurred by the transactions at the end of 1986. Another temporary surge in October 1987 resulted from the huge increase in financial transactions associated with the plunge in share prices in midmonth.

Financial Developments and the Interest Sensitivity of Demand Deposits

The relationship between movements in interest rates and the deviations of the velocity of demand deposits from historical patterns suggests that the interest sensitivity of demand deposits has increased. As this sensitivity increases,

movements in demand deposits are more likely to reflect unanticipated changes in interest rates than variations in aggregate spending. Even a one-time increase in this interest elasticity—that is, the percent change in demand-deposit balances demanded given a 1 percent change in the level of interest rates—loosens the observed linkage between demand deposits and underlying economic developments and produces wider swings in velocity. Because demand deposits are a significant component of the very narrow monetary aggregates, such an increase in interest elasticity lessens the usefulness of these aggregates as intermediate monetary targets. In addition, if the interest elasticity of demand deposits continually changes, both predicting the behavior of demand deposits and relating it to economic activity become even more uncertain and complicated.

The economic literature has identified two channels through which movements in interest rates affect the level of demand deposits: opportunity costs and, for business deposits, compensating-balance arrangements.

Opportunity Costs. The opportunity cost of holding demand-deposit balances is the return that could have been earned if those balances had been placed in an interest-bearing instrument. less any implicit return on the deposit itself. Managing balances in a demand-deposit account is not costless, however. Shifting funds to earning assets entails transaction costs and often reduces the liquidity of these funds. When market interest rates decline, the opportunity cost of holding demand-deposit balances also declines. and balances tend to rise, ceteris paribus, as the loss of liquidity and the transaction costs of frequent shifts of funds out of these deposits outweigh the explicit interest that might be earned elsewhere. When rates increase, the opportunity cost of holding demand-deposit balances also increases, and depositors, both households and businesses, have more incentive to economize on balances and invest funds in other instruments. The elasticities that opportunity costs impart to demand deposits probably are not large. Theoretical models of the behavior of demand deposits suggest that the interest elasticity from this channel is considerably less than

unity; that is, a 1 percent change in the level of interest rates results in a change of less than 1 percent in the level of balances demanded by depositors.

Compensating Balances. The other channel through which changes in interest rates affect the level of demand deposits is the use of compensating-balance arrangements by businesses. Under such arrangements, firms compensate their banks for credit and operational services by maintaining a specified level of demand-deposit balances. The amount of balances required to compensate the bank for a given level of services is determined by the earnings credit rate (ECR). The ECR usually is based on a short-term market interest rate, reduced by 12 percent to reflect the reserve requirements on demand deposits. Specifically, required compensating balances are calculated by the following formula:

$$RCB = \frac{S}{MR(1 - RR)},$$

where

RCB = required compensating balances

S = the dollar value of services used

MR = the market rate, expressed as a deci-

RR = the percentage reserve requirement, expressed as a decimal; MR(1 - RR)= the earnings credit rate.

When market interest rates rise and thus the ECR rises, the balance that a firm must hold to compensate its bank for a given amount of services declines. As market interest rates fall, firms must hold higher compensating balances.

The ultimate effect of compensating-balance arrangements on the interest elasticity of business demand deposits is considerably more complex than this formula suggests, and it may vary with interest rates. If, for a given amount of services, the level of a firm's demand deposits on the margin is determined solely by compensating-balance requirements and thus changes in the ECR, its deposits will have a relatively large interest elasticity; specifically, it will be unity; that is, if interest rates and thus the ECR fall by

half, the firm's required compensating balances and thus its demand deposits will double.

But, while demand deposits held to compensate banks for services earn an implicit return, they still entail opportunity costs because of the existence of reserve requirements on demand deposits. As shown by the formula above, the implicit return on balances held for compensation purposes is lower than the market rate by the amount of reserves banks are required to hold against demand deposits. This reserve requirement, currently 12 percent, represents an opportunity cost. Firms thus have an incentive to reimburse their banks at least partially for services by paying explicit fees rather than holding compensating balances. This practice, in turn, can cause the interest elasticity of their demand deposits to be less than unity. When a firm given the level of interest rates, its own funding needs, and its demand for services—can choose a combination of balances and fees to remunerate its bank, it may keep its balances at the level desired for transaction purposes and simply make up the difference in required compensation by paying higher explicit fees. Because the interest elasticity associated with the opportunity cost of holding balances for transactional purposes is less than unity, using such a combination reduces the interest elasticity of the firm's demand deposits below that implied by the strict application of the formula for computing required compensating balances.

When interest rates are low, however, the absolute value of the opportunity cost arising from reserve requirements is small relative to the transaction and liquidity costs of shifting balances out of demand deposits. Firms then have little incentive to reduce their balances below those required for compensation purposes and to make up the difference with fees. In this situation firms may stop paying fees and alter the level of their demand deposits in line with changes in their required compensating balances. When interest rates rise, firms may shift back to compensating banks by a combination of fees and balances. The importance of such shifts on movements of demand deposits as interest rates change is unknown, but to the extent that they are present, they may compound the difficulty of measuring interest elasticity empirically.

At a given level of interest rates, levels of demand deposits of some firms probably are determined on the margin primarily by transaction needs, while those of other firms are determined by required compensating balances, and this mix may vary with the level of interest rates. In addition, this mix and the importance of these types of demand-deposit arrangements to the behavior of aggregate demand deposits likely vary over time in response to technological change, deregulation, and changes in cash-management practices. Thus the rapid pace of change in financial markets in the 1980s probably has significantly altered the traditional channels through which interest elasticity is imparted to demand balances. New instruments have appeared, new cash-management techniques have developed that facilitate shifts of funds from non-interest-bearing demand deposits to interestearning financial assets, and the ways businesses compensate banks for credit and operational services have been evolving. In addition, complex transactions involving the relatively new mortgage-backed securities market appear to have contributed to variations in demand-deposit holdings, and the ownership of demand deposits has shifted away somewhat from households following the introduction of NOW accounts.

Changes in the Ownership of Demand Deposits. Changes over the 1980s in the shares of demand deposits that various sectors of the economy hold partly explain an increase in the interest elasticity of these deposits. According to the Federal Reserve's Demand Deposit Ownership

Survey (DDOS), consumers held one-third of demand deposits at all insured commercial banks in 1980 (table 2). This share had declined to about one-quarter by 1987, largely because of the nationwide authorization of NOW accounts. Holdings of demand deposits by financial and nonfinancial businesses, which may not own NOW accounts, rose from three-fifths to about twothirds of total demand deposits. The rise in businesses' share of demand deposits likely has increased the interest elasticity of demand deposits as a whole. Earlier empirical work at the Federal Reserve Board has shown that demand deposits of businesses are more interest elastic than are those of households, possibly because firms use compensating-balance arrangements and because they manage cash more carefully. But changes in ownership shares probably explain the apparent increase in the interest elasticity only partially; the increase in the business share of total demand deposits, while significant, was limited, and the shares have remained relatively stable over the past few years.

Effects of Innovations in Mortgage Markets. The tremendous growth in the market for mortgage-backed securities in the 1980s appears to have opened a new channel through which interest rates affect demand deposits. When a mortgage underlying two types of mortgage-backed securities is prepaid, the proceeds must be placed in custodial accounts until they are disbursed to the security holders on a specific date the following month. For one of these types of mortgage-backed securities, mortgage servicers

Ownership of demand deposits, by type of holder, all insured commercial banks Percent

V	Business			Fig. 1 and 1 and		
Year	Nonfinancial	Financial	Total	Consumer	Foreign and other	Total ¹
1980	50.6 52.8 51.7 53.0 54.6 55.4 55.3 55.0	9.7 10.3 11.1 11.7 10.8 9.6 10.7 10.8	60.3 63.1 62.8 64.7 65.4 65.0 66.0 65.8	33.5 30.3 30.5 28.1 27.5 27.3 26.3 26.4	6.2 6.8 6.7 7.2 7.1 7.6 7.8 7.9	100.0 100.0 100.0 100.0 100.0 100.0 100.0

^{1.} Details may not add to totals because of rounding.

SOURCE. Board of Governors of the Federal Reserve System, Demand Deposit Ownership Survey.

^{2.} Data through 1987:3.

are required to use non-interest-bearing accounts, and they typically use demand deposits for custodial purposes. As a result, some prepayments may be held in demand deposits for as long as 49 days. Thus major changes in the pace of mortgage prepayments can affect both the level of demand deposits and their growth rates.

The wide variation in mortgage interest rates in the 1980s may have resulted in unexpected movements in demand deposits through this new channel. A substantial amount of mortgages was made at the very high interest rates prevailing earlier in the decade and, with the significant drop in mortgage interest rates over the last few years, mortgage refinancings—and thus prepayments-rose sharply. Commitments for refinancings as a share of all mortgage commitments at thrift institutions jumped from less than 20 percent in the early 1980s to more than 35 percent in 1986 and early 1987 (chart 3). Mortgage refinancing at thrift institutions is estimated to have risen from a monthly rate of \$1 billion or \$2 billion to more than \$15 billion over the same period; it fell off sharply in the late spring of 1987, both in dollar terms and as a share of total mortgage activity. As a result of the institutional practices discussed above, these movements may have been a factor in the strong growth in demand deposits in 1986 and in their subsequent weakness in the second half of last year. They also may have increased the volatility in the monthly growth rate of demand deposits, although in either case the effect is difficult to quantify.

It is too soon to determine the longer-run effects of this development on the behavior of demand deposits. The surge in refinancings resulted from the existence of a large stock of mortgages issued during the earlier period of very high interest rates, and that stock has been reduced. Another surge in refinancings likely would require another substantial, sustained drop in interest rates. Nevertheless, the size of the mortgage-backed securities market and its institutional practices have opened a new channel through which changes in interest rates apparently can affect the levels of demand deposits.

Evolving Cash-Management Practices. While empirical evidence points to an increase in the

Mortgage interest rates and refinancings as a percent of mortgage activity, 1980-8"



- 1. Commitment rate on 30-year fixed-rate mortgages at thrift institutions.
- 2. Commitments to refinance as a percent of total mortgage commitments at thrift institutions. Monthly data.

interest elasticity of demand deposits over the past few years, it is difficult to sort through the interactions of the many financial innovations that facilitated the management of demand balances by businesses and to identify all of the changes in the ways businesses and banks interact. Rising interest rates spurred innovations in cash-management techniques and encouraged their implementation. In the mid-1970s, banks began aggressively to market instruments of very short maturity such as repurchase agreements and overnight dollar-denominated deposits at their offshore branches. The introduction of money market deposit accounts in December 1982 gave businesses, especially smaller firms for which the more sophisticated forms of cash management were not feasible, a new vehicle for obtaining returns on liquid balances. Together with more recent advances in telecommunications and the rise of electronic funds transfers, these innovations have allowed businesses to manage their demand deposits more effectively.

Theoretical models of money demand suggest that marginal changes in the transaction costs associated with managing demand balances will not affect the interest clasticity of demand deposits. At the same time, they imply that the quantum jumps in the availability of alternative investments and the spread of cash-management services can increase the interest elasticity of demand deposits of some firms, especially smaller ones. Smaller businesses may, for example, have been constrained in managing cash

balances by transaction costs that were high compared with their relatively small balances. By dramatically lowering these costs and by offering investments that theretofore were not available, the new instruments may have allowed these firms to adjust their balances more closely than before to changes in opportunity costs. Furthermore, small and medium-sized firms likely are making more use of cash-management services than they did in the past, as banks increasingly compete for business customers and market these services more aggressively. Finally, one legacy of the rise in interest rates in the late 1970s and early 1980s probably was an increase in businesses' sensitivity to the opportunity costs of holding demand deposits, with consequent investment in the technology and the professional staff needed to manage balances more closely. Indeed, the cash-management literature and corporate cash managers see a spread in this expertise, especially to mediumsized and small firms, which likely increases the interest sensitivity of demand deposits.

Other innovations are affecting the behavior of business demand deposits, but with uncertain implications for their interest elasticity. Banks have marketed sweep accounts, in which all balances remaining at the end of the day are placed in overnight investments, so that these balances are eliminated from the demand deposits reported in M1. Controlled disbursement accounts have the same effect: all debits are effectively cleared early in the day, allowing funds to be swept sooner. By removing demand-deposit balances of firms with extensive cash-management expertise from aggregate demand deposits, these innovations may be increasing the importance in aggregate demand deposits of accounts that exhibit more traditional responses to changes in opportunity costs; no available data measure this phenomenon, however. Perhaps more important, these innovations weaken the link between aggregate spending and demand deposits because changes in transaction activity in such accounts are not reflected in the levels of demand deposits.

Compensating-balance arrangements also have been changing, in reflection both of the spread of cash-management expertise and of the increase in competition among banks, which has

fostered the unbundling of fees for services. The trend in cash management has been to substitute explicit fees entirely for compensating-balance arrangements as the means for reimbursing banks for services. This transition has been slow for a variety of reasons; one reason often noted in the cash-management literature is that such changes require the education of senior management because explicit fees must be budgeted for and approved while the costs of compensating balances are indirect. Using a combination of fees and compensating balances narrows the opportunity cost associated with reserve requirements, but when interest rates are low, the absolute cost of this wedge, as discussed above, also is low. When interest rates rise, the cost of this wedge also rises, increasing the incentive for firms to shift entirely out of compensating-balance arrangements.

Changes in the use of compensating-balance arrangements and other innovations obviously have implications for the interest elasticity of demand deposits. To the extent that firms hold balances only to meet transaction needs and use fees for the rest of their reimbursement to banks, the interest sensitivity of their deposits could be lower. As firms shift out of compensating-balance arrangements completely to zero-balance accounts so that a larger proportion of the remaining demand deposits are held under compensating-balance arrangements, the interest elasticity of these deposits could increase. No data exist to determine whether such an increase has occurred over the 1980s.

SURVEY DATA ON COMPENSATING BALANCES AND THE BEHAVIOR OF DEMAND DEPOSITS IN LATE 1987

To obtain additional information about the behavior of demand deposits in late 1987 and compensating balances, the Federal Reserve surveyed senior financial officers at 60 large commercial banks in mid-January 1988. The demand deposits at these banks account for approximately 37 percent of total demand deposits at all federally insured commercial banks.

The results of the survey indicate that compensating balances are an important component of

business demand deposits and that movements in market interest rates continue to affect the levels of demand deposits both through compensatingbalance arrangements and through changing opportunity costs, sometimes with a considerable lag. The survey also revealed an acceleration of shifts out of compensating balances in 1987. The interaction of these factors, coupled with volatile interest rates and shifts away from compensating-balance arrangements, underscores the difficulty in assessing seasonal patterns and interest elasticities for demand deposits. Because most compensating-balance arrangements effectively require year-end settlement of accounts, yearend flows of demand deposits may be affected in complex ways by rate movements and by other developments over the year.

Besides questions about compensating-balance arrangements, respondents were asked about the sharp declines in demand deposits in November and December 1987. These declines. at annual rates of nearly 19 and 14 percent respectively for the two months, were larger than could be accounted for by the runoff of the surge in demand deposits associated with the October plunge in the stock market. The results of this portion of the survey verify that movements in interest rates significantly affected the levels of demand deposits, if with considerable lags, and confirm that other factors, such as shifts by firms away from compensating-balance arrangements, also affected the growth of demand deposits.

The Current Structure of Compensating Balances

According to the survey, compensating-balance arrangements vary widely across banks and across customers within individual banks. Twelve percent of the responding banks report that 20 percent or less of their business demand deposits are held under formal compensatingbalance arrangements, while a quarter of the respondents cited proportions of over 80 percent. (See table A.1. for detailed responses to this portion of the survey.) On average, about 62 percent of balances in business demand deposits at the respondent banks are made up of funds held under formal compensating-balance ar-

rangements. This proportion should be seen only as a confirmation that compensating balances are an important component of demand deposits; some may have been held in any event to meet current transaction needs, and the survey results do not indicate what proportion of business demand deposits are constrained at the margin by compensating-balance requirements.

Five out of six respondents based their ECR on the three-month Treasury bill rate, using either secondary market or auction rates. Other rates used included the federal funds rate and rates on wholesale certificates of deposit; all banks adjusted for reserve requirements. Onethird of all respondents indicated that they lag their ECR a month or more in calculating required balances.

Compensating-balance requirements also are measured over a variety of periods. Although 83 percent of the respondents indicated that they measured balances primarily on a monthly basis and another 15 percent reported quarterly computation periods, many commented that such arrangements were open to negotiation with individual customers or were left to the discretion of the account manager. As a result, some banks use various periods for various customers. The lags in applying ECRs, coupled with varying computation periods, result in lags in the changes in the levels of demand deposits in response to changes in interest rates and, if these arrangements shift over time, contribute to the uncertainty and unpredictability of this response.

Variation in compensating-balance arrangements also is evident in the willingness of banks to allow carryovers of surpluses or deficits. About two-thirds of the respondents allow carryovers from one computation period to the next. Some allow it only for certain customers, and a few institutions allow carryovers only of overages, not deficits. About three-fourths of the respondents that allow carryovers do not allow them beyond the end of the calendar year. effectively requiring account settlement at yearend.

The survey results confirm the view expressed in the cash-management literature and by corporate cash managers that businesses have been moving away from compensating-balance arrangements in favor of reimbursing their banks for services by explicit fees. Nearly three-fourths of the bank respondents reported such a shift, and 38 percent of these indicated that it had accelerated in 1987. Thus the combination of spreading cash-management expertise and the reserve-requirement wedge appears to have reduced the use of compensating-balance arrangements. Indeed, one bank commented that recent articles in cash-management journals have spurred shifts by some of their customers.

Evidence from November-December 1987

The most striking result from this section of the survey was the importance of lagged effects of changes in market interest rates on demand-deposit levels. Apart from any unusual movements related to the drop in the stock market, the weakness in demand deposits in November and December reflected most importantly the lagged adjustment of account levels to earlier increases in interest rates, which peaked in mid-October. This development was attributed both to closer management of balances and to reductions in required compensating balances as rates rose in 1987.

Half of the respondents reported that growth in demand deposits at their institutions was below normal or very weak in November and December (see table A.2.). Only a few reported abovenormal growth in demand deposits, and none experienced very strong growth. Of those with growth that was lower than normal, 83 percent experienced weakness in business deposits, while slightly less than half cited weakness in household accounts. Data from the DDOS of weekly reporting banks for the fourth quarter of 1987 also point to weakness in business accounts. Demand deposits held by financial and nonfinancial business at these banks declined at seasonally adjusted annual rates of 12 percent and 9 percent respectively over the fourth quarter of last year. Consumer demand deposits grew at a 7 percent rate, noticeably below their pace of the fourth quarter of 1986.

Higher interest rates were the most important single factor in the weakness in demand deposits: 54 percent of the respondents to the senior financial officer survey who reported weakness in

business demand deposits attributed it to more careful cash management by firms in response to higher interest rates, and 29 percent indicated that higher rates (and thus higher ECRs) had permitted reductions in required compensating balances.

Other factors, including changes in cash-management practices, also affected growth in demand deposits in November and December. One-third of the respondents stated that customers switching from compensating-balance arrangements to explicit fees as payment for services had depressed demand-deposit levels at their banks. A few senior financial officers noted that some customers had reduced their balances below the minimums required late last year, making up the difference with fees; in the past corporate cash managers have stated that firms may be looking to reductions in compensating balances as a source of funds.

Twenty-nine percent of the survey respondents saw a slowing in business activity at some firms as a factor in the weakness in business demand deposits, while about 13 percent cited a reduction in financial activity associated with leveraged buyouts and merger financing. A reduction in demands by corporate customers for credit and operational services combined, which perhaps mirrored these developments, were reported as a factor by about 30 percent of the banks with lower than normal growth in business deposits. Slow loan growth and the financial troubles of one bank also were cited.

The contraction in business demand deposits was not concentrated in any one sector: over three-fourths of the respondents reported weakness across all of their business accounts. The fourth-quarter DDOS data for financial and nonfinancial businesses confirm this result. The respondents who cited specific sectors named real estate and mortgage banking most often. In terms of account structure, most of the institutions reported that the falloff in business demand deposits resulted from lower average balances; about 14 percent reported a decline in the number of accounts as some customers continued to consolidate demand accounts to reduce expenses and to facilitate cash management, a trend also noted in the cash-management literature.

APPENDIX

This technical appendix presents the specification of the model of the demand for demand deposits, and detailed responses to the Senior Financial Officer Opinion Survey conducted by the staff at the Federal Reserve Board and at the Reserve Banks in January 1988.

Specification of the demand-deposit model

$$\Delta \log (DD) = -.1192 - .0180 \log(RTBE)_{-1}$$

$$[-2.5] \quad [-3.2]$$

$$-.1686 \left[\log(DD) - \log(EPCEN)\right]_{-1}$$

$$[-2.5]$$

$$-.0009 \ TYME_{-1} - .0030 \ SHIFT_{-1}$$

$$[-2.2] \quad [-2.7]$$

$$+.1605 \log(1 - JNOWT)_{-1}$$

$$[2.2]$$

$$+ \sum_{i=0}^{1} dr_{i} \Delta \log (RTBE)_{-i}$$

$$+ \sum_{i=0}^{2} dy_{i} \Delta \log (EPCEN)_{-i}$$

$$-.0089 \ \Delta SHIFT$$

$$[-3.3]$$

$$+.8926 \ \Delta \log (1 - JNOWT)$$

$$[11.3]$$

$$+.1481 \ \Delta \log (DD)_{-1}$$

$$[2.5]$$

$$\sum dr_{i} = -.0295 \ \sum dy_{i} = .8519$$

$$[-3.3]$$

$$dr_{0} = -.0072 \ dy_{0} = .4889$$

$$dr_{1} = -.0222 \ dy_{1} = .1984$$

$$dy_{2} = .1645$$

where

DD = demand deposits (business and consumer)

EPCEN = personal consumption expenditures in current dollars

JNOWT = index of the availability of NOW accounts (held constant from 1985 onward)

RTBE = rate on three-month Treasury bills (effective yield)

SHIFT = 0 through 1974:2, 1 in 1974:3; increases in increments of 1 until reaching 10 in 1976:4 and remains at 10 thereafter (a dummy variable for the "missing money")

TYME = time variable: 1947:1 = 1; increases in increments of 1 each quarter.

All variables are quarterly averages.

Sample period: 1961:1-1986:2; $\overline{R}^2 = .763$; Durbin H statistic = -.7908; standard error of regression = .0069. The numbers in brackets are t statistics.

One convergence restriction is imposed on the estimates:

$$\sum_{i=0}^{2} dy_i + \text{coefficient on } \Delta \log (DD)_{-1} = 1.$$

This restriction imposes on the short-run dynamic terms the same unitary elasticity with respect to consumption that is imposed in the long run by the second line of the model.

This model and the results of the simulation are presented as an illustration of the extent to which the behavior of demand deposits in the 1980s has departed from that suggested by past relationships with interest rates and aggregate spending. The results presented in text table 1 are from a quarterly dynamic simulation of the model beginning in 1981:1. The parameter estimates of the model are based on quarterly data from 1961:1-1986:2 and thus incorporate data from the 1980s, including a part of 1986-87, the period when the most serious simulation errors emerge. By including information on demanddeposit behavior in the 1980s, rather than a pure out-of-sample simulation, this approach illustrates the extent to which the longer-run predictability of demand deposits has deteriorated. In addition, economists at the Board have run simulations of demand-deposit models with different specifications, estimated over 1961-86 and over 1983-87, and found similar patterns of errors in 1986 and 1987. As noted in the text, the apparent relation of the errors to movements in interest rates implies that the interest elasticity of demand deposits has increased.

Because of the wide swings in demand deposits in late 1986 and in various periods in 1987 induced by the special factors discussed in the text, it is difficult to sort out elasticity effects by estimating models over periods that include 1986:3-1987:4. The model specified here also was estimated from the early 1970s through mid-1986, and the results, when compared to those from estimating the model over the entire 1961:1-1986:2 period, indicate an increase in the long-run interest elasticity of demand deposits. This result supports the conclusion of a higher interest elasticity of demand deposits implied by the pattern of errors in the various simulations.

A detailed technical discussion of such empirical work at the Board is contained in a draft paper, "Modeling the Disaggregated Demands for M2 and M1 in the 1980s: the U.S. Experience," by George Moore, Richard Porter, and David Small, presented at a workshop at the Board in mid-January 1988.

RESPONSES TO THE SENIOR Financial Officer Opinion Survey

Tables A.1. and A.2. contain detailed data on the responses to the January 1988 Senior Financial

Officer Opinion Survey. Of the survey panel of 60 banks, 59 responded. Not all of the 59 banks, however, responded to all questions on the survey. Nonresponses were not included in tabulating the survey results and computing the percent of institutions answering in a particular category of a question. For example, 51 banks responded to the question, reported in table A.1., about the proportion of business demand balances held under formal compensating-balance arrangements, and the percentage of responses in each category is based on 51 respondents. On questions to which 59 banks responded, the percentages are based on 59 respondents. Of course, some questions applied to only a subset of the panel, depending on their answers to a previous question. For example, only the 37 banks that reported a shift from compensating balances to explicit fees answered the question about whether such shifts had accelerated in 1987. In all cases, if a bank responded that it was uncertain as to the answer to a question, its response was included in the totals and reported in the "uncertain" category.

A.1. Importance and structure of compensating balances at selected large U.S. banks, 1987

Survey item	Number of banks	Percent of banks ¹	Survey item	Number of banks	Percent of banks
Proportion of business demand balances held under formal compensating-balance arrangements (percent) 0-20	6 2 16 14 13	12 4 31 27 25	Period for measuring interest rate used for ECR³ Week Month Quarter Longer All banks Mamo Lagged ECR	1 47 9 1 58	2 81 16 2 100
All banks ² . Change in proportion in 1987 Increase. Decrease None. Uncertain All banks	51 2 6 41 2 51	100 4 12 80 4 100	Moving average Period for measuring compensating balances Month	10 49 9 1 59	83 15 2 100
Shift from compensating halances to explicit fees in recent years Yes Acceleration in 1987 Yes No Uncertain All banks No All banks	37 14 22 1 37 14 51	73 38 59 3 100 27	Carryover of surpluses or deficiencies permitted period to period Yes No For some customers All banks Limits on carryovers Yes No For some customers All banks	40 16 3 59 4 38 1	68 27 5 100 9 88 2
Most common ECR formula for compensating balance Adjusted for required reserves All banks	48 48 49	100	Carryovers permitted beyond end of calendar year Yes No For some customers All banks	10 32 1 43	23 74 2 100
Ninety-day CDs Other Average of several rates All banks	3 3 4 59	5 5 7 100	Change in ECR formula or other compensating-balance feature in 1987 No change Change by customer Chunge by bank Adjustment for FDIC insurance All banks	51 2 4 2 59	86 3 7 3 100

^{1.} Details may not add to totals because of rounding.

January 1988 Senior Financial Officer Opinion Survey. The survey panel consists of 60 large commercial banks with total combined domestic assets of \$810 billion as of June 30, 1987; all federally insured commercial banks have \$2.5 trillion in commercial assets.

^{2.} Mean for all banks, 61.6 percent.

^{3.} A bank may have responded in more than one category Source. Board of Governors of the Federal Reserve System,

A.2. Behavior of demand deposits at selected large U.S. banks, November and December 1987

Survey item	Number of banks	Percent of banks
Strength of demand-deposit growth Very strong	0 .4 25 23 6 58	0 7 43 40 10
Accounts with below-normal or very weak growth! Business Household Other All banks	24 14 5 29	83 48 17
Reason for below-normal or very weak growth in business accounts¹ Slowing business activity	. 2	29 13 54 29 13 17 8 33 25
Concentration of below-normal or very weak growth in business accounts, by type of business! Financial institutions Securities firms Real estate firms Firms involved in merger and acquisition activity Energy-related firms No apparent concentration All banks	2 1 3 1 1 18 23	9 4 13 4 4 78
Manifestation of below-normal or very weak growth in business accounts Reduction in number of accounts Reduction in average account balance Both Uncertain All banks	2 20 2 5 29	7 69 7 17

^{1.} A bank may have responded in more than one category.

Source. See table A.I.

Treasury and Federal Reserve Foreign Exchange Operations

This quarterly report, covering the period November 1987 through January 1988, provides information on Treasury and System foreign exchange operations. It was prepared 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.

The dollar experienced recurrent periods of downward pressure throughout November and December, then firmed in early January. On balance, the dollar ended the three-month period 7½ percent lower against the Japanese yen and 3 to 4 percent lower against most European currencies and the Canadian dollar. The U.S. authorities intervened to support the dollar at various times during the period, most heavily in early November and around the turn of the year.

EARLY NOVEMBER PRESSURE ON THE DOLLAR

In November, as the period under review opened, the dollar was already under selling pressure stemming from several sources.

Given the sharp decline in stock prices in October and the relatively greater importance of equity holdings in the United States than in other countries, the U.S. economy was seen to be in danger of weakening considerably, and more so than the economies of other countries. Under these circumstances and with the Federal Reserve acting to provide liquidity to the market, U.S. interest rates had declined significantly. Meanwhile interest rates in other countries had

declined less sharply. As a result, interest rate differentials favoring the dollar had narrowed.

Following the stock market developments in October, market participants looked to the administration and the Congress for decisive action to reduce the U.S. fiscal deficit. Progress was not yet visible, even though the administration and the Congress had begun discussions on a two-year deficit reduction program.

In light of these factors and the continuing large trade imbalances, many doubts were expressed in the press and in the market that the Group of Seven (G-7) countries would place a high priority on maintaining exchange rate stability and international policy coordination. As a result, market participants were looking for evidence that the economic policy coordinating mechanisms established at the February 1987 Louvre accord were still intact.

During the first week of November, the dollar's decline began to accelerate. Some press reports asserted that the U.S. authorities' primary concern, at least for the moment, was to prevent a recession, even at the risk of a further decline in the dollar. Other reports tended to reinforce doubts about the strength of the commitment of the G-7 countries to foster stability in exchange rates. The dollar's decline continued despite explicit reaffirmation of the U.S. adherence to the Louvre accord.

In fact, the Trading Desk at the Federal Reserve Bank of New York had already begun to intervene in the market on behalf of the U.S. monetary authorities. In concert with other central banks, the Desk purchased \$1,095 million from November 2 through November 10, of which \$717 million was against marks and \$378 million against yen. The dollar traded as low as DM1.6485 against the mark and Y133.20 against the yen on November 10.

Following these intervention operations and a

^{1.} The charts for the report are available on request from Publications Services, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

statement by President Reagan on November 10 that he did not want to see a further decline of the dollar, the selling pressures subsided. The report a few days later that the U.S. trade deficit had declined in September, and President Reagan's subsequent statement that the budget negotiations could result in \$80 billion in deficit reductions over two years, seemed to suggest progress toward reducing the U.S. external and internal imbalances. At the same time, the Bundesbank took action to lower German short-term interest rates, which reduced the tendency for the German mark to appreciate against its partner currencies within the European Monetary System (EMS) as well as against the dollar. In that environment, market participants questioned whether the stage was being set for a G-7 meeting that would reaffirm the commitment to exchange rate stability. The dollar firmed to DM1.7170 against the mark and Y137.30 against the yen on November 16.

REEMERGENCE OF PRESSURE IN LATE NOVEMBER AND DECEMBER

The dollar came under pressure again as hopes faded for rapid progress in the budget reduction negotiations. Expectations of an early G-7 meeting receded after statements by several foreign officials seemed to indicate that a meeting would not occur until a U.S. budget accord had been negotiated and approved by the Congress. By November 20, when the administration and congressional negotiators agreed upon a plan to reduce the budget deficit about \$75 billion over two years, the dollar was already moving lower as market participants wondered whether the program would be adequate and how long it would take for the Congress to enact the measures. With market attention focused almost exclusively on the progress of the budget reduction plan through the Congress, news of coordinated interest rate adjustments in Germany and several other European countries on November 24 again helped to ease tensions within the European Monetary System but provided only limited support for the dollar. In the presence of continued doubts about the strength of the G-7 commitment to foster stability in exchange rates, the dollar continued to move lower.

During late November and early December, the U.S. authorities again entered the market to contain the dollar's decline on various occasions when it came under pressure. Between November 27 and December 4, the U.S. authorities purchased \$272 million against marks and yen, again in cooperation with other central banks.

The dollar steadied during the first week of December. The Bundesbank cut its discount rate on December 3 to 21/2 percent in a move accompanied by official rate cuts in France, the United Kingdom, Switzerland, Belgium, the Netherlands, and Austria. Market participants were encouraged by these signs of renewed international cooperation.

The announcement on December 10 that the U.S. trade deficit had jumped to a record \$17.6 billion (not seasonally adjusted) in October underlined the difficulties in reducing the U.S. external imbalance and had a strong market impact. As traders rushed to liquidate their dollar positions, the dollar gapped downward 1½ to 2 percent within a few minutes of the announcement. The U.S. authorities entered the market. in concert with several European central banks, to restrain the dollar's decline. The next day, when market conditions again deteriorated, the Desk reentered the market. Over the two-day period, the U.S. authorities purchased \$351 million against marks and yen.

For the rest of the month, market sentiment remained bearish as the dollar came under recurrent strong selling pressure in an atmosphere of pessimism and uncertainty. Market participants remained skeptical that the budget reductions being considered by the Congress would be sufficient to deal effectively with the U.S. fiscal deficit problem. Erroneous press reports, though quickly denied, raised doubts about the commitment of the administration to exchange rate stability and added to the uncertainty.

Meanwhile, market participants were reassessing the economic outlook generally and found the performance abroad to be mixed. The Japanese economy remained buoyant, driven by accelerating domestic demand, while in Germany the mark's continuing rise was seen as possibly leading to a decline in both German net exports

1.	Federal	Reserve	reciprocal	currency	arrangements
	Millions of	f dollars			

Institution	Amount of facility, January 31, 1988
Austrian National Bank National Bank of Belgium Bank of Canada National Bank of Denmark Bank of England Bank of France German Federal Bank Bank of Italy Bank of Japan	250 1,000 2,000 250 3,000 2,000 6,000 3,000 5,000
Bank of Mexico Netherlands Bank Bank of Norway Bank of Sweden Swiss National Bank	700 500 250 300 4,000
Bank for International Settlements Dollars against Swiss francs Dollars against other authorized European currencies Total	600 1,250 30,100

and investment spending. The view that the Japanese economy was fairly strong, and that the Japanese authorities had less scope than others to lower interest rates, added to the selling pressure on the dollar against the yen. In these circumstances, the dollar fell more rapidly against the yen than other major foreign currencies during the second half of December. The strength of the yen relative to European currencies also was consistent with a view that, since Japan's trade surplus with Europe had widened in previous months, the yen had considerable scope to appreciate vis-à-vis the European currencies.

At the same time, market participants were no longer quite so pessimistic about the effect of the

 Net profits or losses (-) on U.S. Treasury and Federal Reserve current foreign exchange operations¹

Millions of dollars

Period	Federal Reserve	U.S. Treasury Exchange Stabilization Fund
November 1, 1987— January 31, 1988	612.4	749.7
assets and liabilities as of January 31, 1988	1,846.8	1,350.5

^{1.} Data are on a value-date basis.

October stock market decline on the U.S. economy. Evidence that consumer confidence may have fallen sharply in October and remained weak in November kept alive concerns about the possible effect of the stock market decline on U.S. economic growth. But the release of other statistics, including employment and industrial production figures for November that were better than expected, suggested that the market's initial worries that the decline might seriously weaken U.S. economic activity were exaggerated.

On December 22, officials of the G-7 nations issued a statement reaffirming the basic objectives and policy directions set forth in the Louvre accord agreeing that a further decline of the dollar could be counterproductive. However, traders were disappointed that the statement offered no explicit new economic policy moves aimed at stabilizing exchange rates and redressing trade imbalances.

Against this background, the dollar again came under strong downward pressure as the year drew to a close. U.S. corporations and Japanese banks sold dollars in thin holiday markets, at a time when most banks in Europe and the United States were unwilling to adjust their positions ahead of the year-end, and the market became one-sided. The U.S. monetary authorities intervened heavily in concerted intervention operations. During the period December 16 through December 31, the Desk purchased a total of \$1,707 million, approximately half of which was against marks and half against ven. By early morning January 4, the dollar had declined to record lows of DM1.5615 against the mark and Y120.20 against the yen in the Asian-Pacific markets. At that point, the dollar was almost 10 percent lower against the mark and more than 13 percent lower against the yen from the start of the period.

RECOVERY OF THE DOLLAR IN JANUARY

Market sentiment changed dramatically beginning later that day, when active trading resumed in New York after New Year's Day, in response to unmistakable evidence of concerted, visible, and aggressive intervention operations. These operations provided a clear signal that U.S. and

foreign officials were seriously committed to fostering exchange rate stability and gave new weight to the December G-7 statement. Reported comments by foreign officials also reinforced the view that the new initiatives to halt the dollar's decline might be under way. The dollar advanced 134 percent against the mark and 214 percent against the yen by the close of New York trading, from its lows earlier that day, and continued to strengthen during the remainder of the first week of January.

In this context, the announcement of reductions in official interest rates in three European countries on January 5 was interpreted as a further sign that officials were willing to take steps to adjust their monetary stance and coordinate policy to support the dollar. The release on January 8 of U.S. employment statistics for December that were better than expected helped to strengthen the view that a sharp slowdown in domestic economic activity was not imminent, and accordingly, that there might be less downward pressure on U.S. interest rates. On January 13, Japanese Prime Minister Takeshita and President Reagan met in Washington and reaffirmed the December G-7 statement. They indicated that arrangements had been made to assure the adequacy of resources needed for their cooperative efforts.

On January 15, the report that the U.S. trade deficit for November had narrowed to \$13.2 billion (not seasonally adjusted) pushed the dollar sharply higher. Market participants were encouraged that the deficit, which had declined with virtually all geographic regions and across all commodity groups, was finally narrowing, albeit slowly and erratically. U.S. retail sales figures for December that were stronger than expected, released at about the same time, reinforced earlier evidence that a recession was not STATEMENT OF THE GROUP OF SEVEN ON DECEMBER 22, 1987

Paragraph 8

The Ministers and Governors agreed that either excessive fluctuation of exchange rates, a further decline of the dollar, or a rise in the dollar to an extent that becomes destabilizing to the adjustment process could be counterproductive by damaging growth prospects in the world economy. They re-emphasized their common interest in more stable exchange rates among their currencies and agreed to continue to cooperate closely in monitoring and implementing policies strengthen underlying economic fundamentals to foster stability of exchange rates. In addition, they agreed to cooperate closely on exchange markets. The Ministers and Governors stressed the need for consistent and mutually supportive policies and believe that the measures being taken will accelerate progress toward the increased, more balanced economic growth and sustainable external positions necessary for greater exchange rate stability.

likely in the immediate future. The dollar closed on January 15 at Y130.85 against the yen and at DM1.6865 against the mark, 9 percent and 8 percent higher respectively, from its period lows on the morning of January 4. Although profittaking brought the dollar back from its highs, market participants had gained confidence in the view that the dollar had stabilized, at least for the time being.

Between January 4 and January 15, intervention dollar purchases by the U.S. monetary authorities totaled \$685 million against marks and yen. The bulk was purchased during the first two business days of the new year.

 Drawings and repayments by foreign central banks under special swap arrangement with the U.S. Treasury¹ Millions of dollars; drawings or repayments (-)

Central bank drawing on the U.S. Treasury	Amount of facility	Outstanding, November 1, 1987	November	December	January	Outstanding, January 31, 1988
Central Bank of Argentina	200 31	0	190	-190 31	-31	(2) (2)

^{1.} Data are on a value-date basis.

^{2.} No facility.

The dollar traded within a narrow range from the release of the U.S. trade figures through the remainder of the month. Market participants were impressed by the early January intervention operations and expected the U.S. authorities to act forcefully to counter any renewed sharp decline of the dollar. As it happened, the U.S. authorities intervened on only one other occasion, purchasing \$30 million against yen on January 21 when the dollar came under some downward pressure. At the same time, events abroad reinforced the sense that policies were being directed toward lessening exchange market pressures. In Germany, the Bundesbank changed its monetary target to a broader aggregate (M3) from the narrower aggregate for central bank money. The Bundesbank issued a statement that the new target would allow the German authorities to pursue the twin goals of providing monetary stability and stimulating domestic demand. Although the change was technical, observers felt that it might imply a reduced likelihood of a tightening of monetary policy.

As the period came to a close, the exchange market was quiet and the dollar was trading in a narrow range. However, the dollar was perceived as still vulnerable to disappointing trade figures. Market participants, therefore, awaited further evidence that a bottom for the dollar had been reached and that the underlying economic conditions were in place for a more sustained period of exchange rate stability. The dollar closed the three-month period at DM1.68 against the mark and at Y128 against the yen, down on balance almost 3 percent and 7½ percent respectively, from levels at the end of October.

During the three-month period, the U.S. monetary authorities purchased a total of \$4,140 million dollars, of which \$2,388.5 million was against German marks and \$1,751.5 million against Japanese yen. The U.S. Treasury and the Federal Reserve intervened in nearly equal dollar amounts, though the currency composition differed. The Federal Reserve sold \$2,030 million equivalent of German marks and no yen; the Treasury's Exchange Stabilization Fund (ESF) sold \$358.5 million equivalent of marks and the entire \$1,751.5 million equivalent of yen.

Over the same period, the U.S. authorities acquired yen in a variety of ways. In particular, \$30.9 million equivalent was received representing interest payments under the Supplemental Financing Facility of the International Monetary Fund (IMF), \$184.5 million equivalent resulted from the exchange of SDRs with other monetary authorities, and \$1.4 million equivalent was purchased from customers.

In the November-January period, the Federal Reserve and the ESF realized profits of \$612.4 million and \$749.7 million respectively, from foreign currency operations. As of the end of January, cumulative bookkeeping or valuation gains on outstanding foreign currency balances were \$1,846.8 million for the Federal Reserve and \$1,350.5 million for the ESF. These valuation gains represent the increase in the dollar value of outstanding currency assets valued at end-of-period exchange rates, compared with the 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 \$1,051.7 million equivalent, and holdings by the Treasury amounted to the equivalent of \$996.1 million.

TREASURY SWAP ARRANGEMENTS WITH FOREIGN CENTRAL BANKS

During the period under review, the U.S. Treasury through the ESF provided short-term financing facilities to Argentina and Ecuador.

Argentina. As noted in the previous report (pages 14-17 of the January 1988 BULLETIN), on October 30, 1987, a near-term credit facility of \$500 million was made available jointly by the ESF, the Bank for International Settlements (acting for certain central banks), and the central banks of Mexico, Uruguay, and Colombia to the Central Bank of the Argentine Republic. On

November 12, the Argentine central bank drew \$190 million from the ESF's portion of \$200 million. The central bank of Argentina repaid \$90.1 million on December 7, \$84.3 million on December 21, \$10.3 million on December 23, and the remaining \$5.3 million on December 30.

Ecuador. On December 3, 1987, the ESF agreed to provide a \$31 million short-term credit facility for the Central Bank of Ecuador. On the next day, the Central Bank of Ecuador drew the full amount, which was subsequently repaid on January 26, 1988.

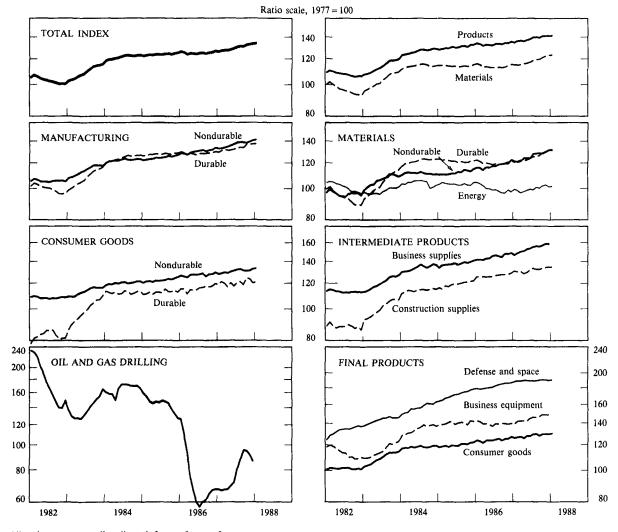
Industrial Production

Released for publication February 17

Industrial production increased 0.2 percent further in January after a revised rise of 0.4 percent in December. Gains were concentrated in the production of trucks for consumer use, nondurable consumer goods, business supplies, and manufacturing equipment; automobile production declined about 7.5 percent over the month. Output

of materials, which rose sharply throughout the second half of last year, was little changed in January. At 133.8 percent of the 1977 average, the total index in January was 6 percent higher than it was a year earlier.

In market groups, production of consumer goods rose 0.4 percent in January as large increases in lightweight truck assemblies and in nondurable consumer goods—particularly food



All series are seasonally adjusted. Latest figures: January.

	1977	= 100	Percentage change from preceding month				Percentage change, Jan. 1987 to Jan.	
Group	1987 1988		1987					1988
	Dec.	Jan.	Sept.	Oct.	Nov.	Dec.	Jan.	1988
	Major market groups							
Total industrial production	133.6	133.8	2	1.1	.4	.4	.2	6.0
Products, total. Final products. Consumer goods Durable. Nondurable Business equipment Defense and space. Intermediate products. Construction supplies. Materials	141.1 139.2 129.3 120.3 132.6 148.7 189.7 147.7 134.6 123.3	141.5 139.5 129.8 120.8 133.1 148.6 190.2 148.2 134.6 123.4	4 4 -1.3 -2.2 -1.1 .4 3 2	1.1 1.1 1.1 4.8 2 1.6 .3 .9 .8 1.3	.0 2 .1 5 .3 3 3 7 .5	.1 .1 .1 -2.7 1.1 .3 1 .3 .4	.2 .4 .4 .4 1 .3 .4 .0	5.2 4.7 3.4 1.6 4.0 7.2 1.5 6.8 3.3 7.4
				Major indu	stry groups			
Manufacturing Durable Nondurable Mining Utilities	138.5 137.1 140.6 103.2 112.6	138.9 137.2 141.2 102.6 114.0	1 1 1 1.0 -1.4	1.2 2.3 3 1.7	.4 .0 1.0 .5	.5 .2 .8 9 3	.2 .1 .4 6 1.3	6.2 6.1 6.4 3.2 5.6

NOTE. Indexes are seasonally adjusted.

and energy—were only partially offset by continued weakness in auto output. Auto assemblies were reduced in January to an annual rate of 6.0 million units from a rate of 6.5 million units in December. Output of business equipment was little changed, on balance. Production of manufacturing and power equipment advanced strongly, and output of commercial equipment, which includes computers, edged up. However, output of transit equipment fell more than 3.5

Total industrial production—Revisions Estimates as shown last month and current estimates

Month	Index (19	977=100)	Percentag from pi mor	revious
	Previous	Current	Previous	Current
October November December January	132.5 133.1 133.3	132.5 133.0 133.6 133.8	1.1 .4 .2	1.1 .4 .4 .2

percent last month, largely reflecting a decline in assemblies of motor vehicles other than light trucks.

The indexes for both durable and nondurable materials were unchanged in January, but were appreciably stronger in December than originally published. In January, output of chemical materials and parts for equipment continued to post strong gains, but production of paper and basic metals registered declines. Production of energy materials was up in January, with generation of electricity providing the major impetus.

In industry groups, manufacturing output increased 0.2 percent in January. Although many machinery industries continued to show gains, production of iron and steel fell back in January following a sharp rise in December. As a result, durable manufacturing was about unchanged in January. Output of nondurable goods increased 0.4 percent in January, and production at utilities was up an estimated 1.3 percent. However, mining production declined 0.6 percent.

Statements to Congress

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 2, 1988.

I appreciate this opportunity to appear before the Banking Committee to address questions about the Federal Reserve's response to the turbulence in financial markets last October, the functioning of our financial markets during that period, and proposals for structural and regulatory reforms.

FEDERAL RESERVE RESPONSE TO THE OCTOBER CRISIS

During the stock market crash, and in the days following, the Federal Reserve undertook a number of actions to deal with emerging problems and restore confidence. Our purpose was to limit any damage to the economy from the collapse in financial markets.

History teaches us that central banks have a crucial role to play in responding to episodes of acute financial distress. Before the founding of the Federal Reserve, the early stages of stock market crashes or their equivalent were compounded by a sharp escalation of short-term interest rates and a reduction in credit availability. For example, during the Panic of 1893, rates on call loans to brokers in New York City were quoted at the extraordinary level of as much as 74 percent per annum; the rates on prime commercial paper reached 18 percent. Interest rate quotes during the Panic of 1907 were similar. Moreover, these rates were for the most part purely formal quotes; even at such high interest rates, very little money was actually forthcoming from nervous lenders.

These rates are a product of natural market reactions to the dramatic increases in uncertainty that accompany such episodes. Fearful people tend to withdraw; they pull back; they endeavor

to become safer and more liquid. Savers and lenders attempt to disengage from markets, especially those involving risk-bearing instruments, and look for preservation of principal rather than capital gains and earnings potential. This increased demand for liquidity and safety is a phenomenon that in recent years has often been described as a flight to quality. At the same time, some private borrowers might find that their credit needs have been enlarged by a stock market crisis, especially the securities dealers who need to finance a larger inventory of equity shares acquired from a panicky public. Others may increase their borrowing just to have a larger cushion of cash on hand, given the financial uncertainties.

This combination of supply and demand factors can add up to a situation in which private borrowers could have difficulty obtaining credit, or at least find it very much more expensive. Short-term interest rates on private instruments and the cost of borrowing from intermediaries could rise sharply, compounding the crisis and increasing the potential for major damage to the economy and the financial markets.

There certainly can be a rational component underlying the heightened demand for liquidity and increased reluctance to lend to private borrowers. A stock market crash can patently increase the credit risk involved in lending to certain borrowers, such as those dealers holding large inventories of equity relative to their capital, or firms planning to retire debt by selling shares of stock, or companies that may experience reduced demand for their products as a result of the decline in equity prices. But there can be, and almost always is, an exaggerated market reaction as well, based on little hard evidence, that builds on itself and ultimately affects borrowers whose creditworthiness has not been materially impaired by the drop in equity values. This irrational component of the demand for liquidity may reflect concerns that

the crisis could affect the financial system or the economy more generally, spreading beyond the individual participants directly involved. It also can be a strong reaction to heightened uncertainties before firm information becomes available on which potential borrowers have been weakened and which are still sound.

The irrational aspect of the flight to liquidity and quality is similar in some respects to a run on a bank that is fundamentally sound. In the days before deposit insurance, banks attempted to fend off such runs by putting cash in the front window. By reassuring depositors that ample supplies were on hand, the run might be discouraged from even beginning.

In a sense, the Federal Reserve adopted a similar strategy after October 19, one aimed at shrinking irrational reactions in the financial system to an irreducible minimum. Early on Tuesday morning, October 20th, we issued a statement indicating that the Federal Reserve stood ready to provide liquidity to the economy and financial markets. In support of that policy, we maintained a highly visible presence through open market operations, arranging System repurchase agreements each day from October 19th to the 30th. These repurchase agreements were substantial in amount and were frequently arranged at an earlier time than usual, underscoring our intent to keep markets liquid.

By demonstrating openly our determination to meet liquidity demands, we could, in practice, reduce those demands to the extent that they arose from exaggerated fears. Through its actions, the central bank can help to assure market participants that systemic concerns are being addressed and the risk is being contained—that isolated problems will not be allowed to infect the entire financial system.

The Federal Reserve's activities seem to have contributed to a calming of the extreme concerns generated by the stock market collapse. Gradually, risk premiums for private borrowers subsided, suggesting that the flight to quality had abated. However, fear-based demands for liquidity remained, generated temporarily in the course of the financial turmoil, and there were also understandable and reasonable demands for excess reserves at depository institutions, whose reserve management appropriately turned more

cautious. In addition, demand deposits bulged after the stock market fall, probably in conjunction with the surge in financial transactions. The Federal Reserve supplied extra reserves to accommodate these needs.

By helping to reduce irrational liquidity demands and by accommodating the remainder, the Federal Reserve avoided a tightening in overall pressures on reserve positions and an increase in short-term interest rates. In fact, we went even further and eased policy moderately after the stock market collapse in light of the greater risk to continued economic expansion. The federal funds rate dropped from more than 7½ percent just before October 19th to about 63/4 percent in the first half of November, and regular adjustment and seasonal borrowing at the discount window fell from about \$500 million to less than \$300 million in November. Rather than the spikes in rates observed in panics earlier in our history, short-term rates actually declined after October 19, even on private instruments.

At the same time, I should add that it was very important that our actions not be perceived as merely flooding the markets with reserves. That would not have addressed the problem. We undertook open market operations in a measured and calibrated way. Haphazard or excessive reserve creation would have fostered a notion that the Federal Reserve was willing to tolerate a rise in inflation, which could itself have impaired market confidence. We were cautious to attack the problem that existed and not cause one that did not.

In addition, the Federal Reserve took a number of other steps after the stock market crash that were focused on the functioning of the markets and the financial strength of important participants. These steps were designed to enable us to be in a position to address the consequences of the crash on markets, especially if they threatened further disruption to the financial system, and to assure the markets of our efforts to contain the damage. Our actions dealt with a number of actual and potential specific problems, but more generally were also a key aspect of our strategy to contain the effects of the market disruption by maintaining a high visibility that would calm markets and reduce irrational demands for liquidity.

We recognized that the safety and stability of the banking system are essential to the success of this strategy. History teaches us that stock market declines that do not adversely affect the banking system have a much less serious effect on the overall economy than ones that do.

For example, the stock market crashed in March 1907, but the Panic of 1907 was not initiated until the failure of the Knickerbocker Trust Company in October. The damage to the economy after the stock market crash in October 1929 was much magnified by the series of bank failures that occurred in 1930–33. Conversely, the stock market fell sharply in May and June 1962; however, the banking system was not seriously affected, and the effect on the overall economy was limited.

Accordingly, during the recent events, the System placed examiners in major banking institutions and monitored bank developments carefully in several ways.

For example, the Federal Reserve Banks kept close track of currency shipments to banking institutions to identify potential emerging bank runs. These shipments did increase after October 19 but seemed to involve banks that were taking precaution against runs that never occurred. In addition, there was a generalized increase in the demand for precautionary balances in currency by the public, not associated with runs on banks, that was also satisfied.

We reviewed the potential impact of stock market activity on pending bank holding company mergers and acquisitions. We monitored the announced or unannounced intention of bank holding companies to buy back their stock. When discussing these possible actions with holding companies, we took the position that such purchases would be inappropriate other than on a limited basis to restore order in the market for their stock.

We paid particular attention to the credit relationships between banks and securities dealers. We assessed the banking industry's credit exposure to securities firms through loans, loan commitments, and letters of credit. We were in contact with both banks and securities firms regarding the liquidity and funding of brokers and dealers. We recognized that banks needed to exercise caution in their credit judgments to

protect their financial stability. At the same time, banks have always been relied upon as important sources of credit in financial markets, especially when those markets are troubled and normal access may have been impaired. In our conversations with banks, we stressed the importance of ensuring adequate liquidity to meet legitimate customer funding needs, even if they were unusually large, while recognizing explicitly the responsibility of market participants to make their own independent credit judgments.

In the event, banks did make a large volume of securities loans after the stock price decline. They apparently reviewed their credit exposure carefully, in some cases asking for additional collateral. However, our information suggests that there were only a few instances in which credit was withdrawn or requests for new credit were refused, and these instances involved relatively minor amounts. The generally good performance of this key lending function may be attributable, at least in part, to the knowledge that the Federal Reserve was making reserves freely available so that banks would not be facing escalating funding costs.

The Federal Reserve also took particular interest in the government securities market. We have long had a special involvement in this market through our open market operations and as fiscal agent for the Treasury.

In the wake of the stock market decline, we stepped up our daily monitoring of primary government securities dealers and interdealer government securities brokers. We held discussions with regulators and other market practitioners regarding particular situations in which firms were having difficulty meeting capital requirements. Officials of the Federal Reserve Bank of New York met with representatives of government securities dealers and with interdealer government securities brokers with regard to concerns about counterparty risk, especially in when-issued trading associated with the Treasury's November refunding.

One problem that arose resulted from a reluctance of some holders of government securities to lend them as freely as they typically do. As a consequence, the incidence of failures to deliver particular government securities rose, potentially disrupting trading and liquidity in this key mar-

ket. In response, the Federal Reserve temporarily liberalized the rules governing lending of securities from its portfolio. For a time, we lifted per-dealer and per-issue limits on such lending and set aside the rule against lending to facilitate short sales.

Beyond these efforts in the banking and government securities areas, the Federal Reserve was in frequent contact with market participants and officials at the Treasury and at other regulatory agencies regarding the functioning of other markets as well. The efforts proved essential to gather information, identifying developing problems, and coordinate responses with other authorities.

Many of the contacts occurred through the Federal Reserve Banks of New York and Chicago, which have special knowledge and understanding of nearby markets and contacts with key officials. Through them and at the Board of Governors, we were in touch with officials at the stock, options, and futures exchanges, as well as with the Securities and Exchange Commission (SEC) and the Commodity Futures Trading Commission (CFTC), regarding the liquidity of the markets, the functioning of market makers, operational problems, and settlement issues. In addition, we discussed the possible effect of sharp swings in markets on participants' financial conditions to obtain advance warning of any problems that might be developing. To facilitate timely margin collections in futures markets, the Federal Reserve extended the hours of operation of its funds transfer system on October 19 and 20.

Furthermore, we closely monitored the international ramifications of the stock market crash, and the effect of developments in foreign markets on U.S. market participants. We communicated with officials of foreign central banks with regard to general market conditions and with various market participants abroad regarding the effects of the stock market developments in specific markets.

In summary, the Federal Reserve acted in response to the stock market crash to reduce irrational fear-based demands for liquidity, to meet remaining unusual liquidity demands, and to monitor developments in the government securities and equities markets and in the banking system. Our reactions to provide liquidity apparently prevented the sharp interest rate spikes observed in earlier crisis periods. Interest rate spreads have come back more into line, and market functioning appears to have returned toward more normal conditions. Although it appears that the acute crisis period has passed, markets remain quite sensitive, and could react strongly to developments that seemed to portend more market instability.

STOCK MARKET FUNCTIONING AT THE BREAK

Regarding the matter of the overall functioning of our markets for equities and derivative instruments during the October turbulence, we now have the benefit of several major studies. More studies will be forthcoming. Clearly, the findings and the recommendations of these studies deserve careful consideration. Senator Brady and the other members of the Presidential task force, along with their staff, have done a remarkable job of assembling information and preparing their report on the October plunge in so short a span of time. The nation owes them a debt of gratitude for their efforts. We find their analysis of the causes of the stock break particularly instructive and subscribe to its general lines. We differ, in part, on some of their recommendations for reform. The Brady report, along with those of the CFTC, the General Accounting Office (GAO), and various private organizations, are adding much to our understanding of these events and the vulnerabilities of our securities markets to rapidly changing developments.

It hardly needs to be said that we are dealing with an extremely complex set of issues involving the factors that influence price movements in securities markets and the capability of our financial institutions to withstand extreme shocks. Not only do the studies emerging on this matter reinforce the point that there are close relationships among the various domestic securities markets and between these markets and their derivative counterparts but also the extent to which our financial marketplace has become intertwined with those abroad.

In addressing the issues before us, we must keep these dependencies in mind. We must also recognize that the financial system is in the process of evolution and that much of the change since mid-October has been in reaction to weaknesses displayed at that time. Some of these adaptations—such as a reduction in the use of portfolio insurance strategies—are taking forms that limit pressures that would be placed on the system if circumstances similar to those of mid-October were to recur. Others are adding to the system's capacity to bear large shocks.

A central question is the cause of the market collapse and its suddenness. Only if we understand why it happened can we gain insights into how the structure of markets for equities and their derivatives can be improved. Not only was the stock price break very large, but it was compressed into a very short span of time. We can point to a number of price declines in our history of a magnitude similar to last October, but none have been as rapid. Also, the plunge was an international phenomenon. The drop was of fairly uniform severity across the major equity markets, affecting those with well-developed and less-developed derivative markets similarly.

Before the drop, the market had run up to very high levels. The bull market from 1982 onward was nurtured by a favorable economic setting for businesses, which investors came increasingly to view as likely to be sustained. In particular, inflation expectations were greatly reduced over this period, even as the economic expansion continued. However, stock prices finally reached levels that stretched to incredulity expectations of rising real earnings and falling discount factors. Something had to snap. If it had not happened in October, it would have happened soon thereafter. The immediate cause of the break was incidental. The market plunge was an accident waiting to happen. Measures of real rates of return on equity investments indicated that such returns were at historically low levels last summer-a situation that in the past has been restored to more normal levels either by a subsequent sharp increase in earnings or a pronounced drop in share prices. In the event, we got the latter.

Probably contributing to high share prices were efforts by investors previous to October to extend their cash equity positions on the thought that the availability of liquid markets for deriva-

tive instruments would enable them to promptly trim their exposure and limit losses should they fear a turndown in prices. Many users of portfolio insurance strategies, especially those aggressive formal programs that were model driven and executed by computers, believed that they could limit their losses in a declining market, and hence were willing to be more than usually exposed in cash equity markets. However, the experience of last October vividly illustrates that timely execution cannot be assured, especially under those conditions when it matters the most—when the markets are under heavy selling pressure. In essence, there was an illusion of liquidity that likely encouraged larger equity positions on the part of many investors. Of course, while an individual investor can in principle reduce exposure to price declines, the system as a whole with rare exceptions cannot. Thus strategies by so many investors to shed risk associated with a large decline in price were vulnerable in ways that had not been fully contemplated. The nearly simultaneous efforts of so many investors to contain losses pushed the system beyond its limits, exacerbating problems of execution and leading to portfolio losses that had not been envisioned when these strategies were adopted. The dramatic experience of October has, however, introduced more realism into such riskshedding investment strategies, and in the process has defused some of the potential pressures on the system in the future. The mere fact of sharply lower prices has significantly reduced the risk of a replication of October 19.

Modern technology coupled with the greater presence of sophisticated institutional investors undoubtedly contributed to the suddenness of the October drop. Through modern telecommunications and information processing, investors can follow events as they unfold and react very promptly. What formerly took hours or days now can be done in seconds or minutes. Moreover, institutional investors have taken on a major role in the market for equities and derivative prod-

^{1.} To the degree that derivative instruments facilitate a better redistribution of price risk to those most willing and able to bear it, they can add to the appeal of cash equity investments to investors, encouraging them to hold larger permanent equity positions.

ucts-accounting for about two-thirds of trading volume—and these sophisticated investors are capable of reacting almost instantaneously to information as it becomes available; these investors also were heavy users of portfolio insurance programs that key off movements in market prices and reinforce buying or selling pressures.

Modern technology, along with major institutional presence in the market, implies that an enormous volume of buy and sell orders can be sent to the markets at any moment, leading to very sudden pressures on prices. Furthermore, sharp downward price moves by themselves, such as those occurring last October, can act to heighten uncertainty in the markets and efforts to disengage, thereby compounding selling pressures. Under these circumstances, many potential buyers become reluctant to enter the market as the sharp price move, outside the range of normal experience, leads to doubts about underlying values. In other words, a rapid decline in prices can act to raise the uncertainty premium in share returns, adding, at least for a while, to downward price momentum and pressures on execution capacity. In earlier periods of large market declines, such as the Panic of 1907, news of the initial drop reached investors more slowly, for many, the next day. As a consequence, price declines were spread over a longer period of time and some of the trauma caused by a sudden price break and the corresponding pressures on system capacity was thus avoided.

On top of these factors, system capacity became an influence on investor behavior. As investors came to recognize that the capacity of the system to execute trades was faltering, they sought to get out while they could. In other words, the realization by investors that the system cannot simultaneously accommodate all the efforts under way to reduce long positions in stocks or their derivative instruments prompts still others to attempt to get out, too. This situation is not at all unlike the conditions associated with a classic bank run once it becomes apparent to depositors that the bank's liquidity will be exhausted. The problem is compounded. The confusion and uncertainty about execution last October likely contributed to uncertainty premiums in share returns and thus to additional downward pressures on prices.

The emerging incoherence between the prices of stocks, stock index futures, and options last October also contributed to uncertainty premiums and the downward pressure on prices. There is, of course, only one valuation process in these markets, that being the underlying value of the primary claims to corporate ownership. Index futures and options are claims on the primary claims and can have value only to the extent the underlying stocks have value. In fact, index futures and options merely gross up the demand and supply for equity-related products. Every such contract has equal outstanding long and short positions, the net of which is, of necessity, a wash. Stocks, in contrast, reflect a net long position representing the total value of the combined equity and derivative products. In normal circumstances, when markets are functioning efficiently, arbitrage keeps the prices of these so-called derivative instruments in line with equities. But under the strains of last October, the individual markets for these instruments were fragmented, generating considerable price disparities. These disparities were able to persist for extended periods of time—adding to confusion and doubt—owing to a breakdown of the arbitrage process associated with the withdrawal process and execution problems.

Other factors added to strains on the markets last October. The lack of coordination of margin collection and payment crimped the liquidity of some market makers and their ability to maintain positions. Also, rumors and discussion of exchange closings and possibly insolvent clearinghouses added to confusion in the markets and evidently encouraged some investors to liquidate portfolios before the markets shut down, further adding to strains on the system. In short, the initial rapidity of the price correction to an overvalued market, and a faltering execution capacity, sharply raised risk or uncertainty premiums, which contributed to historic declines in prices.

While much of the attention given to the performance of the equity and derivative markets last October has been on the strains and weaknesses displayed, we must nonetheless not lose sight of the fact that we came through the crisis remarkably well given what happened. No major brokerage firms failed, unprecedented margin calls by the futures clearinghouses were met by

their members, and stock prices reached a new trading range shortly after the plunge.

STRUCTURAL AND REGULATORY REFORMS

Turning to recommendations for structural reform, I particularly appreciate the opportunity to appear after Senator Brady. The Brady task force observes, as do others, that the weight of the evidence clearly indicates that the markets for securities and their derivative products are very closely interrelated and can and should be viewed as one market. They conclude that these circumstances require a common regulatory approach.

Recognizing that we are dealing fundamentally with a single market system is basic to addressing the structural and regulatory issues before us. We must appreciate that there is a single valuation process affecting stocks, index futures, and options, and that arbitrage across these markets in the normal course of events acts to keep the prices of these various instruments in alignment. Thus, we must not jump to the conclusion that movements in futures prices by themselves cause movements in the cash market just because they frequently precede them. We must be careful to avoid confusing symptoms with causes. When information affecting the value of equities becomes available, portfolio adjustments naturally occur first in those markets in which the costs of making adjustments are lowest, which commonly has been in the futures markets. Arbitrage, including index arbitrage, acts to ensure that values in the cash market and elsewhere reflect the new information.

We must also recognize that some of the factors contributing to the October break cannot realistically be corrected by public policy. In part, the sharpness of the October decline reflected modern telecommunications and information processing systems. But this technology also tends to enhance the efficiency of our markets and is beneficial to many other aspects of our welfare and, nevertheless, is here to stay. We must learn to adapt to this development, as we have to so many others that have advanced our society. Similarly, we do not want to lose sight of the important role that professional institutional

investors play in managing our retirement programs and the assets of nonprofit institutions, though their very sophistication and rapid response accelerated price moves in October. It also is important to realize that the so-called portfolio insurance programs that institutions have used are strategies and not products. These strategies frequently involve active use of derivative instruments, but they would exist, though probably on a smaller scale, even without the availability of such products. Moreover, the experience of last October demonstrated to these investors that aggressive strategies aimed at eking out a little more yield are inherently much more risky than had been thought, especially in those circumstances for which protection is most sought. Thus, the pressures that they would place on the system in the event of a future market contraction would be much diminished.

It is clear from the Brady report and from other studies that the capacity of the infrastructure of our financial system to absorb the extraordinary demands placed on it last October was insufficient. We must be aware that demands on the system could again exceed execution capability and that remedies may well be needed that expand capacity or that establish an orderly adjustment process once capacity limits have been reached.

Expansion of execution capacity, which rarely comes into play, may imply a misuse of resources. As a consequence, the Brady task force recommendation for circuit breakers has some appeal. We now have a better idea of the consequences of relying on a disorderly process for dealing with massive volume and demands on market-maker capital in the context of volatile price behavior. Relying on the disorderly process of last October discourages buyers from entering as well as compounds investor uncertainty. The Brady report suggests circuit breakers in the form of price limits and coordinated trading halts as worthy of consideration. In a sense, this could be viewed as a way of slowing things down when market conditions become hectic and threaten to get out of control, thereby replicating conditions of the past. The use of price limits, provided that they are known in advance and sufficiently wide to permit trading in all but the most extreme circumstances, could prove to be a constructive

measure for prompting a pause in trading, especially if there is unusual uncertainty on the part of lenders about the financial position of various market makers and brokers and uncertainties on the part of such borrowers about access to credit. They could also provide more time for policymakers to respond if the conditions giving rise to the trading halt were deemed to be an emergency.

On the other hand, large price moves may lead to fears that the limits will be reached and that portfolio adjustments will not then be possible, putting more pressure on the system and assuring that the limits are hit. The recent proposal of the New York Stock Exchange to place temporary price limits on individual stocks could prove helpful in assessing the viability of price limits. Ad hoc methods for closing markets should best be avoided, as reliance on such methods is likely to encourage rumors of closings and add to market confusion. Also, a system that leads to market closings should be one that is coordinated among the markets, perhaps internationally; if not, trading likely would shift to those markets remaining open, potentially pushing them beyond their capacity constraints. Price limits and other circuit breakers must be viewed as being inherently destabilizing, but they may be the least bad of all the solutions. When orders exceed execution capacity, the system will break down. The only question is whether it is better for it to take the form of a controlled disruption or leave the solution to a haphazard set of forces.

On the matter of regulatory structure, the Board in 1985 reviewed the appropriate form of margin regulation and suggested that margins on stocks and derivative instruments be set by selfregulatory organizations (SROs) subject to federal oversight. It was thought that SROs were in the best position to determine the appropriate level of margin and had the incentive to do so to protect the integrity of their markets. It also was thought that federal oversight would be appropriate to assure coordination of margin setting across cash, futures, and options markets, and a direct federal role might be needed in emergency situations. The CFTC and SEC were viewed as playing an important role in federal oversight, given their knowledge and expertise in the markets that they regulate. The Board expressed its willingness to be a part of such a system.

We have reviewed the matter of federal oversight again and believe that such a concept continues to be appropriate. We appreciate the confidence that the Brady task force has implicitly placed in the Federal Reserve and also its reasons for recommending that a single agency have full intermarket oversight authority. However, we seriously question this recommendation. To be effective, an oversight authority must have considerable expertise in the markets subject to regulation, something that the CFTC and SEC have developed over some time. Moreover, were the Federal Reserve to be given a dominant role in securities market regulation, there could be a presumption by many that the federal safety net applicable to depository institutions was being extended to these markets and that the Federal Reserve stood ready to jump in whenever a securities firm or clearing corporation was in difficulty. Coherence of federal oversight over the market for equity instruments could be achieved through merging the relevant portions of the CFTC with the SEC or by a joint oversight authority including the SEC, CFTC, and perhaps the Federal Reserve or the Treasury.

We continue to view the achievement of consistent margins across the various instruments as being appropriate and believe that a federal oversight authority would be well positioned to accomplish this. The proper level of margin, though, is a very complicated issue and must be addressed carefully. There are fundamental differences in the price behavior of individual stocks, stock indexes, options, and futures that are likely to call for different levels of margin if our primary objective is to preserve the integrity of these markets while promoting liquidity. We must recognize that setting margin too high on an equity instrument would discourage the use of such an instrument and reduce its liquidity, indirectly affecting the markets for the other instruments as well.

On the related matter of clearing mechanisms, we concur with the spirit of the Brady task force that improvements in the clearing system are needed, based on a more unified approach. The evidence for mid-October shows that lack of synchronization of margin collection and payment across the markets led to cases in which brokers or market makers were in a position of having to pay out margin in one market before being able to collect from another; this situation tended to squeeze liquidity and contributed to the overall problem. The need for better coordination of margin calls and collection and payment seems clear if the system is to be better able to withstand the kinds of strains that were placed on it last October. Whether a single clearing organization servicing all of the exchanges or tighter coordination of the clearing process among the existing exchanges is required remains an open question at this point. Another approach would be for a new intermarket clearing corporation to be established to handle the accounts of brokers, market makers, and investors with intermarket positions. In any event, the relation between margin and clearing suggests a role for federal oversight in the intermarket clearing process.

Finally, the Brady task force proposes that detailed trading information be collected on a regular basis for purposes of monitoring market developments and identifying market abuses. The information to be collected would include, besides the trade, the time of the trade and the ultimate customer. While recognizing the potential value of such information, my colleagues on the Board and I oppose such data collection, except on a voluntary basis. The right to privacy is important for a free society, and we believe that the case for collecting such information must be a compelling one, which this one does not seem to be. Also, such an action by the United States alone could well reduce the attractiveness of our securities markets to foreign investors at a time when we are heavily dependent on foreign capital for financing our external deficit.

In sum, the Brady proposals and those formulated by others represent an important basis for public discussion. Reactions to these and other proposals by a wide cross section of the public will prove helpful in clarifying methods for strengthening our securities markets.

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking, Finance and Urban Affairs, U.S. House of Representatives, February 23, 1988.

I appreciate this opportunity to appear before you to discuss the conduct of monetary policy and the economic and financial situation. You have received the more formal Monetary Policy Report to the Congress of the Board of Governors detailing the economic and financial situation and reviewing our policy actions in 1987, and presenting our approach to monetary policy this year. (See pages 151–64 of the March 1988 BULLETIN.)

The setting for monetary policy for the year 1988 and beyond is more than normally complex. While the economy itself is well into the sixth year of expansion, the forward momentum of that expansion has been brought into question, and we continue to run sizable external deficits with associated dependencies on foreign savings; at the same time, inflation rates, while below

those of earlier in the decade, are still high in a long-term perspective. Moreover, uncertainties persist about key indicators of policy—the monetary aggregates—and their relation to the performance of the economy. Our approach to monetary policy in 1988 will require a delicate balancing of considerations that must take account of the difficult multiyear challenge that we face in seeking to wind down our external deficits in a manner that is consistent with the maintenance of sustainable growth in the United States and the world economy in 1988 and beyond.

Toward this end, the Federal Open Market Committee (FOMC) two weeks ago set somewhat lower target ranges for 1988, consistent with a moderate pace of monetary expansion this year. The ranges for M2 and M3 are 4 to 8 percent; for debt, we have set a monitoring range of 7 to 11 percent. The annual ranges are wider than in the past, recognizing that the linkage between money and credit growth and economic performance has become noticeably looser in recent years.

Before discussing our monetary policy plans

for 1988 in detail, I would like to review with you the developments of the past year.

1987 IN PERSPECTIVE

The year 1987 was a time of economic transition, and, like many periods of change, it had its difficult moments. Nevertheless, clear progress was made in achieving a healthier, more balanced economy. For the year as a whole, output and employment expanded strongly. As measured by the gross national product, production increased nearly 4 percent from fourth quarter 1986 to fourth quarter 1987, according to the Commerce Department's preliminary estimates. Almost 3 million persons were added to payrolls over this period. And the civilian unemployment rate dropped to about 53/4 percent—the lowest level in this decade.

We achieved this growth with a better relationship between domestic spending and domestic production. Growth of private domestic final purchases has slowed progressively from 7³/₄ percent in 1983 as the economy emerged from recession to about 1 percent last year. Meanwhile, real exports of goods and services rose more than 15 percent over the four quarters of 1987, as our international competitiveness was enhanced by the success of business and labor in increasing productivity and restraining cost pressures. In addition, the lower level of the dollar on foreign exchange markets, because much of it was not passed through into wage and other costs domestically, also helped our firms to price more competitively in foreign markets and to compete with imports in the United States. The improvement in the trade sector accounted for more than a quarter of the overall gain in gross national product.

One aspect of the improved trade situation was better balance of our economy internally, with previously lagging sectors showing particular strength. The manufacturing sector revived in 1987: industrial production in manufacturing surged 5½ percent between December 1986 and December 1987, and capacity utilization rose to its highest level in seven years. For example, output of steel rose especially strongly, which was the main factor in bringing capacity utilization in this industry from about 65 percent at the end of 1986 to more than 90 percent at the end of 1987. And other areas of our economy, such as farming, mining, and oil extraction, that had been notably depressed earlier in the 1980s, showed some signs of improvement.

The robust growth of the economy—in combination with the budgetary actions of the Congress and the President, and a one-time boost from tax reform-brought about a major reduction in the federal budget deficit last year. To be sure, the flow of federal red ink was still heavy, but last December's agreement was at least a first step in needed actions for the future.

On the negative side, inflation increased in 1987. This development was not altogether surprising, given the bounceback in energy prices early in the year and the effects on import prices of the decline in the dollar. Although wage gains have remained subdued, we clearly need sustained effort to bring about a more stable price level.

As you may recall, the Federal Reserve set ranges for monetary growth in 1987 that were ½ percentage point lower than in 1986. We also noted that we would be conducting monetary policy with an eye toward a variety of economic indicators, including the strength of the economy, pressures on prices, and developments in international markets, as well as money growth relative to the ranges.

Although the aggregates from very early in the year tended to run low relative to the ranges, the challenge as we perceived it through much of 1987 was less to buoy money growth than to prevent one-time price rises related to developments in energy and foreign exchange markets from becoming rooted in a renewed inflation process. Concerns about potential inflationary pressures were clearly manifested in financial markets as well. During the spring and again in late summer, inflation worries pushed up commodities prices and long-term interest rates, and heavy downward pressures on the dollar developed in light of growing pessimism about the prospects for significant improvement in U.S. external balances; concerns about the financing of our external deficit in turn apparently added to pressures on interest rates during these episodes. In view of the inflationary potential, the Federal

Reserve increased somewhat restraint on reserves in both episodes, and in September raised the discount rate from 5½ to 6 percent.

The balance of risks shifted after the stock market collapse of October 19. The Federal Reserve immediately modified its approach to monetary policy in light of the turbulent financial market conditions. During the crisis, the System temporarily altered its focus somewhat from reserve positions to more direct measures of money market pressures, and took several steps to ensure adequate liquidity in the financial system. Moreover, we encouraged some decline in short-term interest rates, as a precautionary step in light of the possibility that the contraction in financial wealth and the deterioration in consumer and business confidence might lead to a significant drop-off in spending.

These actions helped to restore a degree of confidence in financial markets. As this occurred, the Federal Reserve returned some way toward our earlier focus on reserve positions in the day-to-day implementation of policy. But I think it is fair to say that markets still are exhibiting a certain edginess, and we cannot be sure yet that normal market functioning has been fully restored after the events of October. In addition, the effects of the stock market events on the economy may not be fully evident. Indeed, indications of some softening in the economy as the year began, against the background of a more stable dollar in foreign exchange markets, led us to take a further small easing step a few weeks earlier.

In the context of a monetary policy that, for much of the year, needed to counter inflationary pressures, and in light of the very rapid money growth in 1986 and marked variations in velocity in recent years, modest expansion of the monetary aggregates in 1987 was viewed as acceptable and appropriate. As market interest rates rose, interest rates on deposits became less competitive. This development encouraged a shifting away from monetary assets, and growth of all of the monetary aggregates slowed sharply. In addition, some special factors, such as the effects of the new tax law, changes in bank funding sources, and evolving business practices with respect to cash management and compensating balances, may also have damped money growth last year. M2 and M3 grew 4 percent and 5½ percent respectively over the four quarters of last year, leaving them below and just at the lower ends of their annual ranges. M1 increased 6 percent.

Debt growth slowed to the midpoint of its monitoring range. The progress in reducing the federal budget deficit helped reduce borrowing, and debt issuance by the private sector dropped off as well. Debt growth could scarcely be characterized as slow; at 9½ percent, it continued the pattern of increases relative to GNP.

ECONOMIC OUTLOOK AND MONETARY POLICY FOR 1988

In formulating its monetary policy plans for 1988, the FOMC sought to further a number of complementary objectives. The Committee continued to focus on maintaining the economic expansion and on progress toward price stability, which was seen as a necessary condition for long-term sustained economic growth. It also recognized that satisfactory performance of the economy depended on moving over time toward better balance in our external accounts.

For 1988, the Committee members generally were optimistic that policy could be geared to meeting these goals. Most members foresee continued economic growth next year with no significant pickup in inflation, although at current levels of resource utilization and with rising prices of imports likely from recent dollar declines, vigilance against signs of a reemergence of greater inflationary pressures will continue to be needed. The central tendency of the forecasts of FOMC members and other Reserve Bank presidents is for growth in real GNP of about 2 to 2½ percent from the fourth quarter of 1987 to the fourth quarter of 1988—slower than in 1987, but likely close to what is a sustainable pace over the longer haul. The unemployment rate may not drop further, but employment gains could again be substantial and better distributed across industries and geographical regions. Much of the impetus to growth is expected to come from a rapid pace of expansion of net exports of goods and services, which would promote the process of adjustment to better balance internally and

externally. This should involve slow growth in domestic demand, probably encompassing damped gains in consumption and a muchreduced pace of inventory building from the pace near year-end.

Recent patterns of wage negotiations and settlements do not seem to indicate any imminent break from the restrained behavior of the mid-1980s. Although capacity utilization has risen in our manufacturing sector, bottlenecks are not as yet a problem and are not expected to become one if growth follows the subdued path of the Committee's outlook for real GNP. Even so, we cannot be complacent about the potential for higher inflation; by the time an acceleration of costs and price pressure were to become evident, the inflation process would already be well entrenched.

With its objectives in mind, as I noted earlier, the FOMC established ranges for M2 and M3 of 4 percent to 8 percent over the four quarters of 1988, with the debt of domestic nonfinancial sectors expected to increase between 7 and 11 percent. The growth ranges for money represent a decrease from those for 1987—1 percentage point in terms of the midpoints. This reduction is viewed as another step in the longer-term process of reducing targeted money growth to rates more in line with reasonable price stability. Moreover, the lower end of the ranges allows for the possibility of little pickup in money growth, especially M2, from 1987 under certain circumstances. If, for example, inflation expectations were to strengthen, market interest rates would tend to rise, and relatively slow money growth could again be an appropriate policy stance.

The FOMC does not anticipate that circumstances will call for such slow money growth. In fact, it expects some acceleration of monetary expansion in 1988, perhaps to around the middle of the ranges. But changing circumstances could easily require a considerably different outcome. In recognition of the unusual degree of uncertainty in the economic outlook and the large movements of money relative to income in recent years, we have widened the specified ranges for monetary growth from the more traditional 3 percentage points to 4 points.

This change was advisable partly because the linkage of money to spending and income appears to have become looser in the 1980s. As you know, most historical experience has suggested a fairly close relationship between spending and the quantity of money and, over a longer run, between money and prices. These relationships established the basis for adopting specific targets for growth of money to attain the ultimate goals of macroeconomic policy.

But these relationships appear to have changed considerably in the 1980s, partly reflecting the effects of deregulation, innovation, and changing technology. The spectrum of stores of value is extremely broad, extending from real capital, like plant and equipment and houses, on the one hand, through stocks, bonds, and time deposits, to perfectly liquid currency and checking accounts, on the other hand. Both households and businesses are continually adjusting their balance sheets and the allocation of their income flows between accumulation of financial assets of different sorts and acquisition of goods and services.

Transactions balances are on the edge of the exchange of financial claims for goods and services. Regulation and established practices previously acted to enforce a marked separation between transactions money balances and all other balances and supported a fairly close relationship between spending and the quantity of transactions money—as measured by M1—which allowed it to serve as a monetary policy guide. Businesses and households maintained transactions balances in demand deposits in fairly close relation to their spending requirements and relied on other forms of deposits to serve as longer-run stores of value.

But now, deregulation and improved information and communications technologies have blurred distinctions between transactions balances and other assets. Businesses can move unneeded transactions balances at each day's close into Eurodollars, repurchase agreements, commercial paper, or certificates of deposit (CDs), at little cost, with the choice among these instruments often depending on yield differentials of only a few basis points. In addition, firms now can maintain balances in hybrid instruments like money market deposit accounts (MMDAs) and money funds and retrieve them nearly as easily as they can from a regular checking account. Remaining business demand deposits serve importantly as balances that compensate banks for services, and these arrangements, too, are evolving over time. For households, negotiable order of withdrawal (NOW) accounts—interest-earning, fully checkable deposits—are important savings as well as transactions vehicles, and have contributed greatly to the decreasing usefulness of M1 as a monetary target.

This process of innovation and deregulation has affected the behavior of the monetary aggregates in several ways, only some of which we fully understand. To some extent, it seems simply to have introduced more "noise" in the money-spending relationship. In addition. though, it appears that one important consequence has been to increase the sensitivity of the demand for monetary assets to changes in market interest rates—at least over the short run. While deregulation has allowed institutions to vary the rates on deposits, in practice returns on many categories of deposits are adjusted sluggishly in response to changes in market rates, giving rise to relatively large swings in incentives to hold these instruments.

NOW accounts may be the most prominent example of this. Because these accounts are close substitutes for other liquid instruments as a store for savings, holders of NOW accounts are highly sensitive to changes in interest rates on these alternative investments. They place a larger volume of funds into NOW accounts when rates on other deposits at banks and thrift institutions are relatively low and deposit smaller amounts or actually draw down checking account balances when investment opportunities are more attractive elsewhere.

Widespread compensating-balance arrangements for businesses imply a strong interest responsiveness of demand deposits, as well. Changes in market interest rates alter the earnings value of these deposits to banks, with resulting adjustments to the balances required to compensate the bank for a given package of services.

M2 is a broader collection of the public's liquid assets, and as a consequence internalizes some of the shifts that have plagued M1. But M2 is still somewhat limited in its coverage of financial wealth held in liquid forms, and shifts between M2 and other financial assets may not by them-

selves imply changes in spending tendencies. Such shifts have been responsive to movements in the rates on alternative investments relative to returns on M2 balances. This sensitivity, though considerably less than for M1, also seems to have increased since the late 1970s, perhaps as improved information and communications technologies have facilitated transfers of funds between M2 assets and those outside this aggregate. Over the longer run, once rates on instruments in M2 adjust to changes in market rates, this aggregate tends to grow in line with income, as it has on average over the postwar period.

M3 adds to M2 a number of the managed liabilities that banks and thrift institutions use to supplement their retail deposits to fund credit expansion. Unlike M1 and M2, it is highly responsive to the decisions of institutions as to how fast to expand their balance sheets and what particular sources of funds to rely on. Small changes in interest rate relationships can have very substantial impacts on the funding decisions of these institutions and consequently on M3, without major implications for income and prices.

M3, then, is determined largely by the decisions of depository institutions on how many liabilities and of what type they wish to supply to the markets. The managed liabilities in M3 are very close substitutes for other money market instruments in the public's portfolio. M1 and M2, by contrast, can be thought of as depending more directly on the public's desire to hold the assets included in these aggregates, given the returns on various alternative investments as well as levels of wealth and income. Banks and thrift institutions, of course, do vary the offering rates on their M2-type deposits to affect the quantity of these deposits that they receive. But these adjustments tend to lag market rates, and while the M2-holding public is sensitive to alternative yields, it is not nearly so sensitive as the money market investors holding managed liabilities. In these circumstances, the connection between M1 and M2 and the economy rests importantly on the effect of interest rates on the demand for these aggregates. For example, a more expansive monetary policy, increasing reserve availability or lowering the discount rate, boosts demand for

these aggregates as interest rates decline, and with a lag stimulates economic activity.

Given uncertainties about how financial market pressures in fact may need to vary in response to changing conditions in the economy, it is difficult to decide in advance on the appropriate growth of an aggregate that is sensitive to movements in interest rates. Such growth could range over a fairly wide spectrum and still be consistent with satisfactory performance of the economy. In these circumstances, the Committee decided that a modest widening of the ranges for M2 and M3 would better encompass appropriate monetary growth, while still providing a guide to policy.

This analysis also underlies our decision again not to establish a target range for M1. We have monitored the behavior of M1 and have conducted careful analyses of its properties. While some of the erratic behavior of M1 remains unexplained, we now believe that most of its unusual movements relative to income in recent years are attributable to a heightened and now quite large interest elasticity.

In view of this behavior, our calculations suggest that something like a 7-percentage-point range would be needed for M1 to encompass the same range of uncertainties as is captured by our 4-percentage-point range for M2. Such a wide range would be of little use in the conduct of monetary policy or in communicating the stance of monetary policy to the public.

One should not conclude from this that the Federal Reserve is giving up on monetary targeting. We are not. The linkages between money on the one hand and prices and spending on the other may have loosened, but that is mainly a problem over the short run. The chain still exists. We are continuing to study these relationships carefully; at some point, the shorter-run link could well become tighter again. In any event, economic theory as well as historical evidence are quite persuasive that, over the long run, money, income, and prices tend to move together.

The FOMC expects to achieve its aggregate ranges for 1988. We will, however, need to continue to interpret the incoming information on these measures in light of other data on the performance of the economy and prices, and other indicators of the impact of monetary pol-

THE CHALLENGES AHEAD

We face formidable challenges over 1988 and beyond in meeting national economic goals of sustaining growth and progress toward price stability. Some of these challenges relate to the short-run outlook for the economy, as the possible effects of the stock market decline and the buildup of inventories late last year work through in 1988.

But our more fundamental task remains managing the process of restoring internal and external balance that is now under way. This is a challenge that cannot be negotiated by the Federal Reserve alone. It will require complementary and consistent actions by our colleagues in the Congress and the administration, as well as by our major trading partners.

For the United States, the most direct and beneficial approach would be to address the problem at its major source—the federal budget deficit. Reducing the deficit further would give us the opportunity to add to domestic saving and reduce dependence on foreign capital, while still encouraging much-needed investment spending. Because the United States is now operating at relatively high rates of resource utilization, domestic demand must be restrained if our international sector is to expand without more inflation. In the absence of fiscal restraint, greater pressure would be felt in financial markets, with negative consequences for investment and other private spending.

While recognizing the need to supply the liquidity required to keep our economy expanding, monetary policy cannot lose sight of the need to keep inflation pressures under control. We cannot permit the price level adjustments associated with restoring external balance to feed through into a renewed inflation process. Escalating prices and costs would reverse the hard-won gains in our international competitive position, leading inevitably to more difficult and wrenching adjustments down the road. Progress toward price stability is the foundation on which the longest peacetime expansion in our nation's history has been built, and continued efforts along this line will be the framework for future economic advances.

Our gains in international competitiveness have reflected a number of factors. But we should not underestimate the effects of the efforts of business and labor over recent years to enhance productivity and restrain costs. And government has made a contribution through deregulation and through the absence of major initiatives that would involve higher business costs.

Our adjustment process by definition has a counterpart for our trading partners. They must promote expansion in their demands and reduce trade barriers to assure active and receptive markets for exports from the United States and elsewhere.

The buildup of imbalances occurred over a period of years, and has involved major adjustments to the structure of economies here and abroad. These imbalances will not be reversed easily—but they must be addressed. We must resist the lure of "short-cuts," such as protectionist measures that would only entrench inefficiencies and reduce living standards at home as well as around the world. We can make this difficult transition, and monetary policy has a key role to play. But if we are to have a chance of doing so without dislocations and detours in our national economic advance, we will have to work together to utilize all the tools at our command.

Chairman Greenspan presented identical testimony before the Senate Committee on Banking, Housing, and Urban Affairs, February 24, 1988.

Announcements

MEETING OF CONSUMER ADVISORY COUNCIL

The Federal Reserve Board announced that its Consumer Advisory Council met on March 17 and 18.

The Consumer Advisory Council was established by the Board in 1976, at the direction of the Congress, to represent the interests of the financial industry and consumers. The Council advises and consults with the Board on the exercise of the Board's functions under the Consumer Credit Protection Act and on other consumer-related matters of interest to the Board.

AMENDMENT TO REGULATION K

The Federal Reserve Board announced on February 18, 1988, that it had further liberalized the provisions of Regulation K to permit investments abroad by U.S. banking organizations through debt-for-equity swaps in private sector nonfinancial companies in heavily indebted developing countries. The amendment was effective February 24, 1988.

This action is a follow-up step to the Board's revision of Regulation K in August 1987 to permit banking organizations, through debt-for-equity swaps, to own up to 100 percent of nonfinancial companies that are acquired from the government of a heavily indebted developing country.

The Board's regulation had already provided banking organizations with considerable flexibility to do the following: (1) reduce exposure by selling debt to other investors or (2) take advantage of debt-for-equity swap programs by exchanging debt obligations for controlling equity interests in companies engaged in financial activities or for portfolio investments in up to 20 percent of the shares of nonfinancial companies.

The Board's new amendment provides bank holding companies with broad flexibility to make

investments in up to 40 percent of the shares of any private sector company in a heavily indebted developing country. The amendment also substantially lengthens the permissible holding period for investments made through debt-forequity swaps.

The key elements of the amendment are the following:

- A U.S. banking organization may invest in up to 40 percent of the shares of a private sector company through a debt-for-equity swap in a heavily indebted country.
- The U.S. banking organization that makes an investment in a private sector company under the revised regulation will also be permitted to provide loans or other financing in amounts up to 50 percent of the total loans and extensions of credit to the affiliated company.
- The U.S. banking organization may hold the investments made through debt-for-equity swaps for two years beyond the end of the period during which full repatriation of the investment is restricted by the debtor country, up to a maximum of 15 years.
- Investments may be made under revised general consent procedures, which require no prior notice to the Board unless the size of the investment exceeds the greater of \$15 million or 1 percent of the bank holding company's equity capital.

As a prudential measure, the amendment provides that if a bank holding company holds more than 25 percent of the voting shares of a private sector nonfinancial company, there must be another larger shareholder of the company unaffiliated with the bank holding company. In addition, the investment must be held through the bank holding company unless the Board specifically permits the investment to be held through a bank or bank subsidiary.

These measures will add to the menu of options available to banking organizations for man-

aging exposure to heavily indebted developing countries.

System Membership: Admission of State Banks

The following banks were admitted to membership in the Federal Reserve System during the period February 1 through February 29, 1988:

Kansas	
Overland Park Galleria Bar	nk
Michigan	
Manistee First of Ameri	
Bank-Manist	ee
Pennsylvania	
Wayne United Valley Bar	nk

Record of Policy Actions of the Federal Open Market Committee

MEETING HELD ON DECEMBER 15-16, 1987

1. Domestic Policy Directive

The data on the economy reviewed at this meeting largely reflected the impact of developments that were under way before the stock market collapse in mid-October. The ultimate effects of the decline in stock prices and associated developments in financial markets remained uncertain. Available data suggested that growth in output was moderating from a brisk pace in the third quarter. Spending indicators pointed to a considerable slowing in the expansion of domestic private final demands in the current quarter. Prices and wages continued to increase at about the same pace as in earlier months of the year.

Industrial production rose 0.4 percent in November, following a strong rise in the previous month. In November, gains were widespread with the exception of the motor vehicles industry. Capacity utilization in mining, manufacturing, and utilities rose slightly further in November, and the overall rate in manufacturing was at its highest level since August 1984.

Total nonfarm payroll employment continued to rise strongly over October and November. The manufacturing sector again recorded relatively large gains, with hiring increases widespread across durable and nondurable goods industries. At the same time, job growth in service industries continued at a brisk pace. Aggregate hours worked by production and nonsupervisory workers remained on a strong uptrend. The civilian unemployment rate fell back to 5.9 percent in November.

Growth in consumer spending appeared to have weakened thus far in the fourth quarter, mainly because of a drop in purchases of new cars after incentive programs ended in September, although sales of other items also were weak. Retail sales edged up in November after two months of substantial declines. Spending on furniture and appliances fell sharply in September and October and moved lower again in November. Outlays for apparel recovered a bit in November, but spending on general merchandise registered another decline.

Housing starts rebounded in November, but their average level in October and November remained somewhat below the averages in the second and third quarters. The improvement in November reflected a sharp rise in the multifamily category, which had dropped noticeably in October. Single-family starts edged up, supported by lower interest rates, but remained below their third-quarter average. The number of permits issued was about unchanged in November.

The expansion in business fixed investment appeared to have decelerated markedly from the exceptional pace of the third quarter. Outlays for capital equipment were damped by the drop in auto sales and a sharp decline in purchases of heavy trucks. Outside of motor vehicles, equipment demand remained strong early in the current quarter. Nominal shipments of nondefense capital goods, although down somewhat in October, remained above the third-quarter average. In addition, new orders moved up further, suggesting that shipments were likely to retain some momentum in the near term. Spending for nonresidential structures softened in recent months; petroleum drilling appeared to have leveled off, and nonresidential construction put-in-place declined somewhat in September and October.

Inventory investment was strong in October. Nonetheless, factory stocks remained low relative to sales by historical standards. In the auto sector, production exceeded sales in both October and November, and dealer stocks again rose to relatively high levels. At other retail trade

establishments, inventory accumulation slowed in October.

The nominal U.S. merchandise trade deficit appeared to have deteriorated substantially in October from the average rate in the third quarter, reflecting in part large seasonal swings in both exports and imports. Exports were up slightly in October; about half of the increase was accounted for by a strong seasonal rise in agricultural products. The rise in nonagricultural exports was concentrated in shipments of a variety of products to Canada while exports of commercial aircraft dropped. Imports rose considerably in October. Most of the increase was in non-oil products, particularly machinery imports and imports of passenger cars from Japan, Canada, and Korea.

Economic growth in the major foreign industrial countries increased markedly in the third quarter. Real GNP rose substantially in Japan mainly because of a large increase in domestic demand, although net exports made a small positive contribution to growth; expansion in residential investment was particularly strong. German GNP, which had declined over the first half of the year, also increased sharply largely in response to domestic demand. Industrial production data for October showed some further expansion of activity in Japan and Germany. Available data suggested that GDP growth in the third quarter was strong in France, the United Kingdom, and Canada, as well.

The rise in most broad measures of prices and wages in recent months generally was close to that experienced earlier in the year. Retail energy prices dropped in October, and crude oil prices edged down in recent weeks. However, apart from energy, increases in consumer prices picked up recently, including higher prices for food, new cars, apparel, and rents. At the producer level, prices of finished goods turned down in October, but prices for intermediate and crude materials remained on a strong uptrend.

At its meeting on November 3, the Committee adopted a directive that called for maintaining the degree of pressure on reserve positions that had been sought around the time of that meeting. The Committee recognized that the volatile conditions in financial markets, including potential shifts in demands for liquidity, and uncertainties

in the economic outlook might continue to call for a special degree of flexibility in open market operations. Taking account of conditions in financial markets, the members decided that somewhat lesser reserve restraint would, or slightly greater reserve restraint might, be acceptable depending on the strength of the business expansion, indications of inflationary pressures, developments in foreign exchange markets, as well as the behavior of the monetary aggregates. The intermeeting range for the federal funds rate was reduced by 1 percentage point to 4 to 8 percent.

During the interval since the November meeting, reserves continued to be supplied on a more flexible basis than usual to help maintain relatively steady conditions in the money market at a time of unusual sensitivity and uncertainty in financial markets generally. Adjustment plus seasonal borrowing tended to be relatively low and averaged about \$225 million during the two maintenance periods ending December 2. As evidence of a reduced willingness to borrow accumulated, such borrowing behavior was accommodated through provision of nonborrowed reserves in order to keep money market conditions from firming. Borrowing declined somewhat further so far in the latest maintenance period. After expanding at a double-digit pace in October, total and nonborrowed reserves contracted in November, reflecting a drop in required reserves associated in large measure with the reversal of the postcrash bulge in transactions accounts and a lower average level of demands for excess reserves.

Federal funds traded mainly in the 6¾ to 6½ percent range over the intermeeting period, close to the average level around the time of the November meeting. Most other short-term rates rose somewhat on balance. The increases apparently reflected some ebbing of preferences for liquidity as financial markets calmed further. In addition, expectations of further ease in monetary policy tended to diminish as incoming data suggested continued, albeit moderate, expansion in the economy and as the dollar fell in foreign exchange markets. To some extent rates on very short-term instruments increased because of positioning in advance of anticipated pressures in money markets around the year-end. Yields on

long-term Treasury securities were up about 20 basis points after early November, while corporate bond yields rose half that much. In contrast, municipal bond yields and mortgage rates fell over the intermeeting period. Stock prices declined slightly further on balance. In general, while financial markets appeared to be functioning more normally, they remained unsettled with occasional episodes of unusually wide price swings and of flights to liquidity and quality echoing the experience after mid-October.

Since the November meeting, the foreign exchange value of the dollar declined about 5 percent on a weighted-average basis in terms of the other G-10 currencies. The dollar came under pressure early in the period, partly because of market disappointment over U.S. efforts to reduce the budget deficit. In early December concerted reductions in official interest rates by Germany and several other European countries temporarily boosted the dollar; over the entire intermeeting period short-term interest rates declined about ½ percentage point, on average, in major foreign industrial countries, while longterm rates were down slightly on balance. However, the dollar's decline resumed, especially after the very disappointing U.S. trade figures for October were released on December 10.

The monetary aggregates weakened substantially in November. While some of the weakness reflected a runoff of the bulge in demand deposits that followed the stock market plunge in October, demand deposits dropped below early October levels. Other checkable deposits also decreased. With the nontransactions portion of M2 expanding only sluggishly, the level of M2 was about unchanged in November. Only small time deposits and money fund shares showed any strength, as their yields remained attractive relative to rates on market instruments and liquid deposits. To supplement weak growth in core deposits, banks and thrift institutions issued managed liabilities at a robust pace in November, and flows into institution-only money funds moved up sharply, as returns on these funds lagged the downward movement of market rates in late October. Even so, M3 expanded at an annual rate of only 43/4 percent. For the year through November, M2 and M3 grew respectively at rates well below and at the lower ends of the 5½ to 8½ percent annual ranges established by the Committee. M1 growth also slowed sharply this year. The reduced growth of these aggregates and a turnaround of their velocities appeared to be attributable primarily to the rebound in interest rates and opportunity costs in 1987 after steep declines in 1985 and 1986.

The staff projection continued to point to relatively sluggish growth in economic activity during the first part of 1988 and to some pickup later in the year. The contour of the projection was dominated by the anticipated effects of the decline in stock prices and the accompanying developments in financial markets, although these effects now were projected to be more muted than was expected in early November. In the context of recent decisions to reduce the federal budget deficit, fiscal policy would exert a moderately restraining impact on aggregate demand. As in the previous projection, consumer spending was projected to slow in coming quarters, but to strengthen later in 1988 as most of the adjustment to the lower level of stock market wealth was completed. Growth in spending for plant and equipment was likely to slow in response to the sluggish pace of domestic sales—offset only in part by further growth in export sales—and the resulting diminished requirements for additional capacity. The decline in mortgage interest rates was expected to stimulate a modest improvement in residential construction. The external sector would provide a substantial positive contribution to activity over the entire projection horizon. Prices were likely to rise at a moderate rate in 1988. Energy prices were expected to be flat, but nonpetroleum import prices were projected to continue to place upward pressure on inflation and nominal gains in compensation were anticipated to increase. However, continuing efforts to improve competitiveness were expected to damp real wages and labor costs over the projection horizon.

In the Committee's discussion of the economic situation and outlook, members referred to conflicting signs with regard to the prospective strength of the business expansion. On the one hand, employment and production had been well maintained in recent months and financial markets had calmed since late October. To date, the sharp decline in stock prices appeared to have

had little impact on domestic business activity, perhaps because it had merely reversed a runup in earlier months of the year and because it was associated with a reduction in market interest rates. Moreover, recent declines in the foreign exchange value of the dollar would help to sustain the improvement in net exports. In these circumstances, business investment also might remain fairly strong. Members cited favorable reports from businesses in many parts of the country that tended to support an optimistic outlook for overall business activity, although some areas or industries had recovered only slightly thus far from relatively depressed conditions. On the negative side, a number of members observed that the risks to the economy were in the direction of slower growth than foreseen in the staff forecast. Consumer spending in particular had been relatively weak, as evidenced by recent trends and the apparent need for widespread discounting to buttress sales. Moreover, growth in disposable incomes was believed likely to remain relatively sluggish, and together with an already low saving rate and rising consumer debt burdens would tend to retard expansion in retail sales. It also was noted that the full effects of the decline in stock prices might not yet have been felt. In addition, money growth had been quite weak, and at some point the slow growth might be reflected in incomes and spending. Several members commented that current projections were subject to a great deal of uncertainty, especially in light of still unusually sensitive conditions in domestic financial markets and the uncertain prospects for the dollar and the nation's foreign trade balance.

The members gave considerable attention during the discussion to the outlook for foreign trade and its implications for domestic economic activity. Recent data on nominal net exports were disappointing, but real net exports had shown considerable improvement so far this year. Gains in exports were especially encouraging. The data indicating an improved real trade balance were supported by members' observations from around the country. Many business contacts were reporting greatly enhanced export opportunities as a result of the dollar's depreciation, although there were exceptions, and they also indicated that their ability to compete in domes-

tic markets against imported goods had improved. The members generally agreed that the foreign trade sector was positioned to make an appreciable contribution to sustained expansion in domestic economic activity at a time when growth in overall domestic demands might be weakening. However, the likely extent of actual gains from trade would depend to some degree on the strength of the economies of foreign industrial nations.

In further discussion members observed that, given the higher rate of utilization of domestic capital and labor resources, substantial improvement in the nation's trade balance implied the need for relatively restrained growth in domestic demands over time as more production was diverted to export markets. The adjustment in trade, which appeared inevitable in light of the unsustainable size of the current trade deficit and the rapid growth in the nation's external indebtedness, appeared feasible over time without causing major disruptions in domestic business activity. However, such an adjustment would require the implementation of appropriate fiscal, monetary, and trade policies by the United States and its major trading partners.

Turning to the outlook for inflation, some members commented that inflationary expectations seemed to have abated to some extent since the collapse in stock prices during October. The depreciation of the dollar would continue to exert upward pressures on domestic prices, but increases in wages and other costs did not appear to be worsening, and in the view of some members inflation might be in the process of easing. Concern was expressed by a number of members, however, that wage and price pressures might well intensify if the economy were to expand at an appreciably faster pace than many members currently expected or if the dollar were to decline substantially in the foreign exchange markets.

At its meeting in July the Committee reviewed the basic policy objectives that it had set in February for growth of the monetary and debt aggregates in 1987 and established tentative objectives for expansion of those aggregates in 1988. For the period from the fourth quarter of 1986 to the fourth quarter of 1987, the Committee reaffirmed the ranges established in February

involving growth of 51/2 to 81/2 percent for both M2 and M3. Given developments through midyear, the Committee agreed in July that growth in these aggregates around the lower ends of their ranges might be appropriate, depending on the circumstances. The monitoring range for expansion in total domestic nonfinancial debt also was left unchanged at 8 to 11 percent for 1987. For 1988 the Committee agreed on tentative reductions of ½ percentage point to growth ranges of 5 to 8 percent for both M2 and M3. The Committee also reduced the associated range for growth in total domestic nonfinancial debt by ½ percentage point to 7½ to 10½ percent for 1988. With respect to M1, the Committee decided at the July meeting not to set a specific target for the remainder of 1987 or to establish a tentative range for 1988. It was understood that all the ranges for 1988 were provisional and that they would be reviewed in early 1988 in the light of intervening developments. The issues involved with establishing a target for M1 would be carefully reappraised at the same time.

At this meeting the Committee held a preliminary discussion of issues relating to its target ranges for monetary growth in 1988. The behavioral characteristics of the aggregates in recent years were reviewed. Considerable attention was devoted to the question of whether or not to establish a target for M1 or some possible alternative such as M1A or the monetary base. While no decisions were made at this meeting, the members were not currently inclined to reestablish a range for M1, given the continued large interest rate sensitivity of the demand for this aggregate and the associated wide swings in its velocity. The Committee will complete its review of these issues and decide on its target ranges for 1988 at the February meeting.

In the Committee's discussion of policy for the next intermeeting period, most of the members agreed that on balance economic and financial developments called for unchanged conditions of reserve availability. Such a policy was viewed as consistent with continuing growth in the economy at a moderate pace. The members recognized that financial markets remained unsettled despite the emergence of a much calmer atmosphere since the latter part of October, and they believed that money market conditions might be

subject to considerable volatility around the year-end. In this situation most of the members felt that open market operations should continue to be conducted with a special degree of flexibility and should give considerable weight to conditions in the money market, at least over the nearer term, to accommodate shifting demands for liquidity and reserves and to temper potentially excessive fluctuations in short-term markets. However, most of the members also favored looking for opportunities to move toward more normal procedures for implementing policy if financial markets continued to stabilize.

In the majority view the risks associated with either firming or easing under current circumstances outweighed the potential benefits. It was noted, for example, that any significant firming would have unsettling effects on domestic financial markets and the associated rise in interest rates would pose considerable risks to the economic expansion. At the same time, many members felt that any appreciable easing would not be desirable currently, especially in light of the dollar's weakness and the risks to domestic financial markets and the economy that a sharp further decline in the dollar would incur. Other members weighed such risks differently, including one member who concluded that monetary policy should move toward somewhat easier reserve conditions in light of the potential for appreciably slower growth in the economy, given in this view the prospects for substantially reduced growth in domestic demands and the possibility that improvement in the nation's foreign trade balance would not provide a sufficient offset. In light of the differences among the members with regard to policy for the short run, including the Committee's operating procedures in the near term, and the uncertainties surrounding financial markets and the economy, it was understood that the members might need to consult on policy implementation before the next scheduled meeting on February 9-10, 1988.

Several members expressed some concern about the generally sluggish growth in the monetary aggregates since the early months of the year, including indications of little or no growth in M2 in recent weeks and much slower expansion in M3 than had been expected earlier. The members recognized that the relationship between monetary growth and economic performance had been very imprecise in recent years. Nonetheless, money growth and the economy were not unrelated and the reemergence of a stronger linkage could not be ruled out. In these circumstances, a continuation of sluggish growth of the monetary aggregates needed to be monitored closely as a potential danger signal with regard to the sustainability of the economic expansion.

The members also focused on the question of possible adjustments in policy implementation during the intermeeting period. A majority felt that there should be no presumptions about the likely direction of such adjustments, if any. In their view the risks that economic and financial developments might differ significantly from current expectations were fairly evenly balanced in both directions. A number of other members believed that the Committee should remain especially alert to developments that might call for somewhat easier reserve conditions. In particular, these members felt that incoming information regarding the performance of the economy should be evaluated with particular care for evidence of a possible slowing in the expansion. The members recognized that the performance of the dollar in foreign exchange markets might have a key bearing on policy implementation in this period. No member wanted to tie monetary policy exclusively to the dollar, but some strongly emphasized that further substantial depreciation in the dollar could have highly adverse repercussions on domestic financial markets and the economy.

During this meeting the members reviewed the Committee's operating procedures. These had been directed toward greater emphasis on stabilizing money market conditions since the stock market collapse in October and had given relatively less attention to the implementation of a specified degree of pressure on reserve positions. The members generally agreed that the Committee should return to its earlier operating procedures. The latter were seen to possess a number of advantages, including greater scope for market forces to be reflected in money market conditions. Given the still sensitive conditions in financial markets, however, the members expressed a range of views with regard to the appropriate timing of a return to the Committee's former operating procedures. Some endorsed the prompt implementation of those procedures. However, a majority felt that a gradual shift toward greater emphasis on reserve objectives should be implemented during the intermeeting period. Such an approach would continue to give some attention to moderating fluctuations in money market conditions but would tolerate somewhat greater fluctuations than had occurred in recent weeks. A few members disagreed and indicated a preference for retaining the recent operating procedures at least for now. These members emphasized that a normal or predictable relationship between the provision of reserves and money market conditions had not been reestablished and was not likely to reemerge in the near term, at least in the period through the year-end when interest rates and reserves were expected to be subject to considerable variations associated with the bank statement date. The procedures could be reviewed in early January and a decision delayed until then.

At the conclusion of the Committee's discussion, all but two of the members indicated their support of a directive that called for maintaining the existing degree of pressure on reserve positions and that would phase open market operations into a more normal approach to policy implementation keyed increasingly to a desired degree of reserve pressure while giving less emphasis than recently to money market conditions. The members recognized that the conduct of open market operations might continue to require a special degree of flexibility, given still quite sensitive conditions in financial markets and the uncertainties in the business outlook. Taking account of conditions in financial markets, the members indicated that somewhat less or somewhat more reserve restraint would be acceptable, depending on the strength of the business expansion, indications of inflation, the performance of the dollar in foreign exchange markets, with consideration also taken of the behavior of the monetary aggregates. If current reserve conditions were maintained, the members expected growth in M2 and M3 to pick up from the pace in recent months to annual rates of about 5 percent and 6 percent respectively over the four-month period from November to March. Growth of M1 was expected to remain relatively

limited over the same period; because of the substantial uncertainty that continued to surround the outlook for M1, the Committee continued its practice of not specifying a numerical expectation for its growth. The members agreed that the intermeeting range for the federal funds rate, which provides a mechanism for initiating consultation of the Committee when its boundaries are persistently exceeded, should be left unchanged at 4 to 8 percent.

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

The economic information reviewed at this meeting largely reflected the influence of developments that were under way before the financial disturbances of mid-October. The extent to which those disturbances would affect the economy remained uncertain. Information available for the current quarter suggested that the expansion in economic activity was moderating from a brisk pace in the third quarter. Total nonfarm payroll employment rose strongly further over October and November, with the manufacturing sector recording relatively large gains. The civilian unemployment rate, at 5.9 percent in November, remained close to its level since mid-year. Industrial production also increased considerably further over October and November, following sizable advances since late spring. Retail sales edged up in November after two months of substantial declines. Recent indicators of business capital spending suggested modest further growth after a surge in the third quarter. Housing starts rose somewhat in November, after slowing in October, but were little changed from the average pace in the second and third quarters. The nominal U.S. merchandise trade deficit in October appeared to have deteriorated substantially from the average rate in the third quarter. The rise in broad measures of prices and wages in recent months generally has been close to that experienced earlier in the year.

Financial markets remained somewhat unsettled. Stock and bond prices continued to fluctuate over a relatively wide range during the period since the previous Committee meeting on November 3. On balance, share prices fell somewhat further in this period. Changes in long-term yields were mixed while short-term interest rates rose, especially on shortmaturity private market instruments. The tradeweighted foreign exchange value of the dollar in terms of the other G-10 currencies declined considerably further.

The monetary aggregates weakened in November after strengthening in October in conjunction with a temporary surge in demands for transaction balances and other liquid assets in the latter part of that month.

For 1987 through November, expansion of M2 fell somewhat further below the lower end of the range established by the Committee for the year, while growth of M3 remained around the lower end of its range. Growth of M1 was close to that of nominal GNP for the year to date and expansion in total domestic nonfinancial debt remained well within the Committee's monitoring range for the year.

The Federal Open Market Committee seeks monetary and financial conditions that will foster reasonable price stability over time, promote growth in output on a sustainable basis, and contribute to an improved pattern of international transactions. In furtherance of these objectives, the Committee agreed at its meeting in July to reaffirm the ranges established in February for growth of 5½ to 8½ percent for both M2 and M3 measured from the fourth quarter of 1986 to the fourth quarter of 1987. The Committee agreed that growth in these aggregates around the lower ends of their ranges might be appropriate in light of developments with respect to velocity and signs of the potential for some strengthening in underlying inflationary pressures, provided that economic activity was expanding at an acceptable pace. The monitoring range for growth in total domestic nonfinancial debt set in February for the year was left unchanged at 8 to 11 percent.

For 1988, the Committee agreed in July on tentative ranges of monetary growth, measured from the fourth quarter of 1987 to the fourth quarter of 1988, of 5 to 8 percent for both M2 and M3. The Committee provisionally set the associated range for growth in total domestic nonfinancial debt at 7½ to 10½ percent.

With respect to M1, the Committee recognized that, based on experience, the behavior of that aggregate must be judged in the light of other evidence relating to economic activity and prices; fluctuations in M1 have become much more sensitive in recent years to changes in interest rates, among other factors. Because of this sensitivity, which had been reflected in a sharp slowing of the decline in M1 velocity over the first half of the year, the Committee again decided at the July meeting not to establish a specific target for growth in M1 over the remainder of 1987 and no tentative range was set for 1988. The appropriateness of changes in M1 this year would continue to be evaluated in the light of the behavior of its velocity, developments in the economy and financial markets, and the nature of emerging price pressures. The Committee welcomed substantially slower growth of M1 in 1987 than in 1986 in the context of continuing economic expansion and some evidence of greater inflationary pressures. The Committee indicated in July that in reaching operational decisions over the balance of the year it would take account of growth in M1 in the light of circumstances then prevailing. The issues involved with establishing a target for M1 will be carefully reappraised at the beginning of 1988.

In the implementation of policy for the immediate future, the Committee seeks to maintain the existing

degree of pressure on reserve positions. The Committee recognizes that still sensitive conditions in financial markets and uncertainties in the economic outlook may continue to call for a special degree of flexibility in open market operations. Taking account of conditions in financial markets, somewhat lesser reserve restraint or somewhat greater reserve restraint would be acceptable depending on the strength of the business expansion, indications of inflationary pressures, developments in foreign exchange markets, as well as the behavior of the monetary aggregates. The contemplated reserve conditions are expected to be consistent with growth in M2 and M3 over the period from November through March at annual rates of about 5 percent and 6 percent, respectively. Over the same period, growth in M1 is expected to remain relatively limited. The Chairman may call for Committee consultation if it appears to the Manager for Domestic Operations that reserve conditions during the period before the next meeting are likely to be associated with a federal funds rate persistently outside a range of 4 to 8 percent.

Votes for this action: Messrs. Greenspan, Corrigan, Angell, Boehne, Boykin, Heller, Keehn, Kelley, and Stern. Votes against this action: Mr. Johnson and Ms. Seger.

Mr. Johnson dissented because he believed that policy implementation should continue to focus on maintaining generally stable conditions in the money market, at least through the yearend, pending the emergence of more settled conditions in financial markets and a more predictable relationship between reserve objectives and money market conditions. He also preferred a directive that gave greater weight to the possibility for some easing, given potential developments during the intermeeting period.

Ms. Seger dissented because she favored some slight easing of reserve conditions in light of her concern about the downside risks in the economy, especially in the context of sluggish growth in reserves and the monetary aggregates over an extended period. She also wanted to continue to focus on money market conditions in System open market operations and in particular to counter upward pressures on short-term interest rates.

2. Authorization for Domestic Open Market Operations

Effective December 17, 1987, the Committee

approved a temporary increase of \$3 billion, to \$9 billion, in the limit between Committee meetings on changes in System Account holdings of U.S. government and federal agency securities specified in paragraph 1(a) of the Authorization for Domestic Open Market Operations. The increase was effective for the intermeeting period ending with the close of business on February 10, 1988.

Votes for this action: Messrs. Greenspan, Corrigan, Angell, Boehne, Boykin, Heller, Johnson, Keehn, Kelley, Ms. Seger, and Mr. Stern. Votes against this action: None.

This action was taken on the recommendation of the Manager for Domestic Operations. The Manager advised that the normal leeway of \$6 billion for changes in System Account holdings of securities probably would not be sufficient to accommodate desirable reductions in the intermeeting period because of seasonal declines in currency in circulation and required reserves.

On January 5, 1988, the Committee held a meeting by telephone conference to review monetary and financial developments since mid-December and to assess the Committee's decisions at the December meeting to begin to redirect its operating procedures toward more emphasis on achieving a desirable degree of pressure on reserve positions. In the period after the stock market collapse in October, open market operations had been guided to an important extent by the objective of restoring and sustaining stability in the money market, and less attention was given than previously to the implementation of objectives relating to reserve conditions.

In the Committee's discussion most of the members agreed that with the further passage of time since the October disturbances in financial markets and with year-end pressures in the money market now unwinding, further progress could be made toward restoring the Committee's earlier approach to open market operations. The members recognized that conditions in financial markets were still somewhat unsettled and that the relationship between reserves and money market conditions had not been reestablished on a fully normal or predictable basis. In the circumstances and in light of the uncertainties in the

economic outlook, it was agreed that some amount of flexibility might continue to be needed in the conduct of open market operations.

To reflect and endorse the further progress toward the operating procedures in use before mid-October, the Committee decided to amend the relevant reference in the operational paragraph of its directive issued at its December meeting. The amendment encompassed solely a change in emphasis relating to operating procedures and did not include any change in the Committee's short-run policy objectives.

At the conclusion of this telephone meeting, the Committee voted to change the operational paragraph of its directive to read as follows:

In the implementation of policy for the immediate future, the Committee seeks to maintain the existing degree of pressure on reserve positions. The Committee agrees that the passing of time and the year-end should permit further progress toward restoring a normal approach to open market operations, although still sensitive conditions in financial markets and uncertainties in the economic outlook may continue to call for some flexibility in operations. Taking account of conditions in financial markets, somewhat lesser reserve restraint or somewhat greater reserve restraint would be acceptable depending on the strength of the business expansion, indications of inflationary pressures, developments in foreign exchange markets, as well as the behavior of the monetary aggregates. The contemplated reserve conditions are expected to be consistent with growth in M2 and M3 over the period from November through March at annual rates of about 5 percent and 6 percent, respectively. Over the same period, growth in M1 is expected to remain relatively limited. The Chairman may call for Committee consultation if it appears to the Manager for Domestic Operations that reserve conditions during the period before the next meeting are likely to be associated with a federal funds rate persistently outside a range of 4 to 8 percent.

Vote for this action: Messrs. Greenspan, Corrigan, Angell, Boehne, Boykin, Heller, Johnson, Keehn, Kelley, and Stern. Vote against this action: Ms. Seger.

Ms. Seger dissented because she continued to believe that open market operations should be directed toward some slight easing. She also felt that financial markets remained too unsettled to warrant any shift at this time in operational procedures toward more emphasis on reserve objectives.

Legal Developments

AMENDMENT TO REGULATION K

The Board of Governors is amending 12 C.F.R. Part 211, its Regulation K. The regulation is revised to permit investors to acquire up to 40 percent of the shares of foreign nonfinancial companies where sovereign debt obligations are being exchanged for ownership interests in the companies. The regulation also is revised to permit companies acquired through debtfor-equity conversions in heavily indebted developing countries to be held for up to 15 years and to liberalize the investment procedures for such investments.

Effective Feburary 24, 1988, the Board amends 12 C.F.R. Part 211 as follows:

Part 211—International Banking Operations

1. The authority citation for 12 C.F.R. Part 211 continues to read as follows:

Authority: 12 U.S.C. 221 et seq.; 12 U.S.C. 1841 et seq.; Pub. L. 95-369; 92 Stat. 607; 12 U.S.C. 3101 et seq.; Title II, Pub. L. 97-290, 96 Stat. 1235; Title IX, Pub. L. 98-181, 97 Stat. 1153, 12 U.S.C. 3901 et seq., unless otherwise noted.

2. Section 211.5 is amended by revising paragraph 211.5(f) to read as follows:

Section 211.5—Investments and Activities Abroad

- (f) Investments made through debt-for-equity conversions.
 - (1) Definitions. For purposes of this paragraph:
 - (i) "eligible country" means a country that, since 1980, has restructured its sovereign debt held by foreign creditors, and any other country the Board deems to be eligible;
 - (ii) "equity" includes common stockholder's equity and minority interests in consolidated subsidiaries, less goodwill;
 - (iii) "investment" has the meaning set forth in section 211.2(i) of this regulation and, for purposes of the investment procedures of this paragraph only, shall include loans or other extensions

- of credit by the bank holding company or its affiliates to a company acquired pursuant to this paragraph;
- (iv) "loans and extensions of credit" means all direct and indirect advances of funds to a person made on the basis of any obligation of that person to repay the funds.
- (2) Permissible investments. In addition to investments that may be made under other provisions of this section, a bank holding company may make the following investments through the conversion of sovereign debt obligations of an eligible country, either through direct exchange of the debt obligations for the investment or by a payment for the debt in local currency, the proceeds of which are used to purchase the investment:
 - (i) Public sector companies. A bank holding company may acquire up to and including 100 percent of the shares of (or other ownership interests in) any foreign company located in an eligible country if the shares are acquired from the government of the eligible country or from its agencies or instrumentalities.
 - (ii) Private sector companies. A bank holding company may acquire up to and including 40 percent of the shares, including voting shares, of (or other ownership interests in) any other foreign company located in an eligible country subject to the following conditions:
 - (A) a bank holding company may acquire more than 25 percent of the voting shares of the foreign company only if another shareholder or control group of shareholders unaffiliated with the bank holding company holds a larger block of voting shares of the company;
 - (B) the bank holding company and its affiliates may not lend or otherwise extend credit to the foreign company in amounts greater than 50 percent of the total loans and extension of credit to the foreign company; and
 - (C) the bank holding company's representation on the board of directors or on management committees of the foreign company may be no more than proportional to its shareholding in the foreign company.
- (3) Investments by bank subsidiary of bank holding company. Upon application, the Board may permit

an investment to be made pursuant to this paragraph through an insured bank subsidiary of the bank holding company where the bank holding company demonstrates that such ownership is necessary due to special circumstances such as the requirements of local law. In granting its consent, the Board may impose such conditions as it deems necessary or appropriate to prevent adverse effects, including prohibiting loans from the bank to the company in which the investment is made.

(4) Divestiture.

- (i) Time limits for divestiture. The bank holding company shall divest the shares of or other ownership interests in any company acquired pursuant to this paragraph (unless the retention of the shares or other ownership interest is otherwise permissible at the time required for divestiture) within two years of the date on which the bank holding company is permitted to repatriate in full the investment in the foreign company, but in any event within 15 years of the date of acquisition.
- (ii) Report to Board. The bank holding company shall report to the Board on its plans for divesting an investment made under this paragraph no later than 10 years after the date the investment is made if the investment may be held for longer than 10 years and shall report to the Board again two years prior to the final date for divestiture, in a manner to be prescribed by the Board.
- (iii) Other conditions requiring divestiture. All investments made pursuant to this paragraph shall be subject to paragraphs (b)(3)(i)(A) and (B) of this section requiring prompt divestiture (unless the Board upon application authorizes retention) if the company invested in engages in impermissible business in the United States.

(5) Investment procedures.

- (i) General consent. Subject to the other limitations of this paragraph, the Board grants its general consent for investments made under this paragraph if the total amount invested does not exceed the greater of \$15 million or one percent of the equity of the investor.
- (ii) All other investments shall be made in accordance with the procedures of paragraph (c) of this section requiring prior notice or specific consent.

(6) Conditions.

- (i) Name. Any company acquired pursuant to this paragraph shall not bear a name similar to the name of the acquiring bank holding company or any of its affiliates.
- (ii) Confidentiality. Neither the bank holding company nor its affiliates shall provide to any company acquired pursuant to this paragraph any confidential business information or other infor-

mation concerning customers that are engaged in the same or related lines of business as the company.

PREEMPTION DETERMINATION UNDER REGULATION Z

The Board of Governors has determined that a provision in the law of Indiana is inconsistent with the Truth in Lending Act and Regulation Z and therefore preempted.

Effective October 1, 1988, with compliance optional before that date, the Board has determined that the provision in the state law of Indiana specified below is preempted by 12 C.F.R. Part 226.

Part 226—Truth in Lending

1. The authority citation for 12 C.F.R. Part 226 continues to read as follows:

Authority: Sec. 105 as amended by sec. 605, Pub. L. 96-221, 94 Stat. 170 (15 U.S.C. 1604 et seq.).

2. In section 23-2-5-8 of Indiana's "Loan Broker" statute, the inclusion of the loan broker's fees and charges in the calculation of, among other items, the finance charge and annual percentage rate disclosed to potential borrowers is inconsistent with sections 106(a) and 226.4(a) of the Truth in Lending Act and Regulation Z, respectively, and is preempted in those instances where the use of the same term would disclose a different amount than that required to be disclosed under federal law.

ORDERS ISSUED UNDER BANK HOLDING COMPANY ACT

Orders Issued Under Section 3 of the Bank Holding Company Act

First Bancshares, Inc. Grove Hill, Alabama

Order Approving Acquisition of a Bank

First Bancshares, Inc., Grove Hill, Alabama, a bank holding company within the meaning of the Bank Holding Company Act, as amended (the "Act") (12 U.S.C. § 1841 et seq.), has applied under section 3(a)(3) of the Act (12 U.S.C. § 1842(a)(3)) to acquire

all of the voting shares of Jackson Bank & Trust Company, Jackson, Alabama ("Bank").

Notice of the application, affording interested persons an opportunity to submit comments, has been given in accordance with section 3(b) of the Act, 52 Federal Register 42,340 (1987). 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 Act (12 U.S.C. § 1842(c)).

Applicant, with one subsidiary bank, is the 106th largest commercial banking organization in Alabama, controlling total deposits of \$34.6 million, representing approximately 0.1 percent of total deposits in commercial banks in the state. Bank is the 99th largest commercial banking organization in Alabama, controlling total deposits of \$36.3 million, representing approximately 0.2 percent of total deposits in commercial banks in the state. Upon consummation of this proposal, Applicant would become the 42nd largest commercial banking organization in Alabama, with total domestic deposits of \$70.9 million, representing approximately 0.3 percent of total deposits in commercial banks in the state. Consummation of this proposal would not have any significant adverse effects on the concentration of banking resources in Alabama.

Applicant operates in the Jackson banking market,² where it is the fourth largest of seven commercial banking organizations, controlling 16.1 percent of total deposits in commercial banks in the market.³ Bank also operates in the Jackson banking market where it is the third largest commercial banking organization, controlling 16.9 percent of the total deposits in commercial banks in the market. Upon consummation of this proposal, Applicant would become the largest commercial banking organization in the market, controlling 33 percent of the total deposits in commercial banks in the market.

The Jackson banking market is considered highly concentrated, with a four-firm concentration ratio of 81.8 percent and a Herfindahl-Hirschman Index ("HHI") of 1950. Upon consummation of this proposal the four-firm concentration ratio would increase by 9.3 percentage points to 91.1 percent and the HHI would increase by 541 points to 2491.4

Although consummation of this proposal would eliminate existing competition between Applicant and Bank, the Board believes that the anticompetitive effects of this proposal are mitigated by several significant factors. First, the number of competitors remaining in the market upon consummation of the proposal is significant given the characteristics of the Jackson banking market. The Jackson banking market has a population of approximately 30,000 residents and is currently served by seven commercial banks with a total of 13 offices. The ratio of bank offices to the population in the market is more than double the comparable ratio statewide. Upon consummation of the proposal, the Jackson market will continue to be served by six unaffiliated commercial banks and two thrift institutions and will continue to have nearly twice as many bank offices per capita as the statewide average. In this connection, Applicant contends that the market's size and number of offices are largely responsible for the fact that the owners of Bank have been unable to obtain an acceptable bid from any out-of-market banking organization.

In addition, Bank has not been an aggressive competitor in the market. In this regard, Bank has lost approximately 33 percent of its market share in the last ten years, falling in rank from the largest bank to the third largest bank in the market. Moreover, Bank has not been an active lender in the market, with a loan-to-asset ratio below 30 percent. Applicant has proposed to increase the lending activities of Bank in the Jackson banking market.

The Board has also considered the presence of thrift institutions in the banking market in its analysis of this proposal. The Board has previously indicated that thrift institutions have become, or have the potential to become, major competitors of commercial banks.⁵ The largest and third largest savings and loan associations in Alabama operate branch offices in the Jackson banking market. These savings and loan associations offer a variety of transaction accounts, credit cards, consumer loans, and commercial loans. Based on the size, market share, and commercial lending activities of thrift institutions in the market, the Board has concluded that thrift institutions exert a competitive influence that also mitigates in part the anticom-

^{1.} State deposit data are as of December 31, 1986.

^{2.} The Jackson banking market is defined as Clarke County plus the towns of Sweet Water in Marengo County, Leroy in Washington County, and Pine Hill in Wilcox County, all in Alabama.

^{3.} Market deposit data are as of June 30, 1986.

^{4.} Under the revised Department of Justice Merger Guidelines (49 Federal Register 26,823 (June 29, 1984)) any market in which the post-merger HHI is over 1800 is considered highly concentrated, and the Department is likely to challenge a merger that increases the HHI by more than 50 points unless other factors indicate that the merger will not substantially lessen competition. In 1985, the Department of

Justice informed the Board that a bank merger or acquisition is not likely to be challenged (in the absence of other factors indicating an anticompetitive effect) unless the post-merger HHI is at least 1800 and the merger increases the HHI by at least 200 points. The Department of Justice has stated that the higher than normal HHI thresholds for screening bank acquisitions recognizes the competitive effects of limited purpose lenders and other non-depository financial entities.

^{5.} See Eastern Michigan Financial Corporation, 74 Federal Reserve Bulletin 49 (1988); National City Corporation, 70 Federal Reserve Bulletin 743 (1984); NCNB Corporation, 70 Federal Reserve Bulletin 225 (1984).

petitive effects of this proposal.⁶ Accordingly, in view of all the facts of record, the Board has concluded that consummation of this proposal would not have a significantly adverse effect on existing competition in the Jackson banking market.

The financial and managerial resources of Applicant, its subsidiary bank, and Bank, and their future prospects are consistent with approval. Applicant proposes upon consummation of this proposal to increase the number and size of the loans made by Bank, to extend Bank's business hours, and to build a new facility for Bank to accommodate customer needs. Accordingly, factors relating to the convenience and needs of the community to be served lend weight toward approval that outweighs any adverse competitive effects of this proposal.

Based on the foregoing and other facts of record, the Board has determined that the proposal should be, and hereby is, approved. 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 the Federal Reserve Bank of Atlanta, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 8, 1988.

Voting for this action: Chairman Greenspan and Governors Johnson, Seger, Angell, Heller, and Kelley.

> JAMES MCAFEE Associate Secretary of the Board

First Bank System, Inc. Minneapolis, Minnesota

Order Approving Acquisition of a Bank Holding Company

First Bank System, Inc., Minneapolis, Minnesota ("First Bank"), a bank holding company within the meaning of the Bank Holding Company Act (12 U.S.C. § 1841 et seq.) (the "Act"), has applied for the Board's approval under section 3(a)(3) of the Act (12 U.S.C. § 1842(a)(3)) to acquire Firstar Corporation, Bloomington, Minnesota ("Firstar") and thereby indirectly to acquire Firstar's subsidiary bank, Marine Bank, Bloomington, Minnesota.

Notice of the application, affording interested persons an opportunity to submit comments, has been published (53 Federal Register 3,078 (1988)). 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 Act.

First Bank is the largest commercial banking organization in Minnesota, controlling deposits of \$11.1 billion, representing 28.5 percent of the total deposits in commercial banking organizations in the state.1 Firstar is the 10th largest commercial banking organization in Minnesota, controlling deposits of \$196.0 million, representing 0.5 percent of total deposits in commercial banking organizations in the state. Upon consummation of this proposal, First Bank would control \$11.3 billion in deposits, representing 29.0 percent of total deposits in commercial banking organizations in the state. Consummation of the proposal would not increase significantly the concentration of banking resources in Minnesota.

First Bank competes directly with Firstar in the Minneapolis - St. Paul banking market.² First Bank is the largest commercial banking organization in the market, with deposits of \$9.1 billion, representing 39.2 percent of the total deposits in commercial banks in the market. Firstar is the 8th largest commercial banking organization in the market, with \$196.0 million in deposits, representing 0.8 percent of the total deposits in commercial banks in the market. Upon consummation of this proposal, First Bank would control \$9.3 billion in deposits, representing 40.0 percent of the total commercial banking deposits in the market. The Minneapolis - St. Paul banking market is considered concentrated, with a four-firm concentration ratio of 73.3 percent. The Herfindahl-Hirschman Index ("HHI") of the market is 2210 and would increase by 65 points to 2275 upon consummation of this proposal.³

^{6.} If 50 percent of the deposits controlled by thrift institutions were included in the calculation of market concentration, Applicant and Bank would control 15.1 percent and 15.8 percent of total market deposits, respectively. The pre-merger HHI would be 1724, and upon consummation of this proposal, would increase by 477 points to 2201.

^{1.} Banking data are as of December 31, 1986. Thrift market data are as of June 30, 1986.

^{2.} The Minneapolis - St. Paul banking market is defined as the Minneapolis - St. Paul Ranally Metropolitan Area adjusted to include all of Scott and Carver Counties and Lanesburgh Township in Le Sueur County.

^{3.} Under the revised Department of Justice Merger Guidelines (49 Federal Register 26,823 (June 29, 1984)), any market in which the post-merger HHI is over 1800 is considered highly concentrated, and the Department is likely to challenge a merger that increases the HHI by more than 50 points unless other factors indicate that the merger will not substantially lessen competition. The Department of Justice has informed the Board that a bank merger or acquisition is not likely to be challenged (in the absence of other factors indicating an anticompetitive effect) unless the post-merger HHI is at least 1800 and the merger increases the HHI by at least 200 points. The Justice Department has stated that the higher than normal HHI thresholds for screening bank acquisitions for anti-competitive effects implicitly

Although consummation of this proposal would eliminate existing competition between First Bank and Firstar in the Minneapolis - St. Paul banking market. over 115 other commercial banks would continue to operate in the market after consummation of this proposal.4 In addition, the Board has considered the presence of thrift institutions in the banking market in its analysis of this proposal. The Board previously has indicated that thrift institutions have become, or have the potential to become, major competitors of commercial banks.5 Thrift institutions already exert a considerable competitive influence in the market as providers of NOW accounts and consumer loans, and many are engaged in the business of making commercial loans. Based upon the size, market share and commercial lending activities of thrift institutions in the market, the Board has concluded that thrift institutions exert a significant influence that mitigates the anticompetitive effects of this proposal in the Minneapolis - St. Paul banking market. Accordingly, in view of all of the facts of record, including the small increase in concentration in the market, the Board has determined that consummation of this proposal would not have a significant adverse effect on existing competition in the Minneapolis - St. Paul banking market.

The financial and managerial resources of First Bank and its subsidiary banks as well as Firstar and its subsidiary bank are consistent with approval. Considerations relating to the convenience and needs of the community to be served are also consistent with approval.

Based on the foregoing and other facts of record, the Board has determined that the application should be,

and hereby is, approved. The acquisition 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 Minneapolis, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 29, 1988.

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

JAMES MCAFEE Associate Secretary of the Board

Tri-State Financial Bancorp, Inc. Bryan, Ohio

Order Approving Acquisition of a Bank

Tri-State Financial Bancorp, Inc., Bryan, Ohio ("Tri-State"), a bank holding company within the meaning of the Bank Holding Company Act ("Act"), 12 U.S.C. § 1842 et seq., has applied pursuant to section 3(a)(3) of the Act, 12 U.S.C. § 1842(a)(3), to acquire all of the voting shares of Mid American National Bank and Trust Company, Northwood, Ohio ("Mid American").

Notice of the application, affording interested persons an opportunity to submit comments, has been duly published (52 Federal Register 43,673 (1987)). 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 Act.

Tri-State is the 53rd largest commercial banking organization in Ohio, with deposits of \$116.8 million, representing less than 1 percent of total deposits in commercial banking organizations in the state. Mid American is the 18th largest commercial banking organization in Ohio, controlling deposits of \$365.1 million, representing less than 1 percent of total deposits in commercial banking organizations in the state. Upon consummation of this proposal, Tri-State would become the 15th largest commercial banking organization in the state, controlling \$481.9 million in deposits, representing less than 1 percent of total deposits in commercial banking organizations in the state. Consummation of the proposal would not in-

recognizes the competitive effects of limited purpose lenders and other non-depository financial entities.

^{4.} The Board received comments from the Minnesota Commissioner of Commerce expressing his concern about the competitive effects of this acquisition. Although the Commissioner did not disapprove First Bank's application, he requested that the Board hold a public hearing to consider the application. Because the Commissioner did not recommend denial of the application, the Board is not required to hold a hearing. 12 U.S.C. § 1842(b). The Board, however, has carefully reviewed the facts of record, and does not believe that a hearing would provide it with any additional facts that are not already in the record. The Board has also carefully considered the Commissioner's views regarding the competitive effects of this acquisition. Accordingly, the Commissioner's request for a hearing is denied, and, for the reasons set out below, the Board does not believe that the competitive effects of this acquisition are so adverse as to warrant denial of this application.

^{5.} National City Corporation, 70 Federal Reserve Bulletin 743 (1984); NCNB Bancorporation, 70 Federal Reserve Bulletin 225 (1984); General Bancshares Corporation, 69 Federal Reserve Bulletin 802 (1983); and First Tennessee National Corporation, 69 Federal Reserve Bulletin 298 (1983).

^{6.} If 50 percent of the deposits controlled by thrift institutions were included in the calculation of market concentration, First Bank and Firstar would control 35.4 percent and 0.8 percent of total market deposits, respectively. The HHI would increase by 55 points to 1890 upon consummation of this proposal.

^{1.} All banking data are as of June 30, 1987.

crease significantly the concentration of banking resources in Ohio.

Tri-State competes directly with Mid American in the Williams County banking market.² Tri-State is the second largest commercial banking organization in the market, with deposits of \$67.2 million, representing 20.3 percent of the total deposits in commercial banks in the market. Mid American is the fourth largest commercial banking organization in the market, with \$35.6 million in deposits, representing 10.7 percent of total deposits in commercial banks in the market. Upon consummation of this proposal, Tri-State would remain the second largest commercial banking organization in the market, with \$102.8 million in deposits, representing 31.0 percent of the total commercial banking deposits in the market. The market is considered highly concentrated, with a four-firm concentration ratio of 76.4 percent. The Herfindahl-Hirschman Index ("HHI") of the market is 1906 and would increase by 435 points to 2341 upon consummation of this proposal.³

Although consummation of this proposal would eliminate existing competition between Tri-State and Mid American in the Williams County banking market, numerous other commercial banks would continue to operate in the market after consummation of this proposal. Moreover, the Board notes that the market is attractive for entry, as evidenced by the fact that two commercial banking organizations have entered the market in recent years, including one *de novo* entry. Furthermore, the record indicates that other commercial banking organizations have expressed interest in entering the market.

In addition, the Board has considered the presence of thrift institutions in the banking market in its analysis of this proposal. The Board previously has indicated that thrift institutions have become, or have the potential to become, major competitors of commercial banks.⁴ The two thrift institutions in the mar-

ket already exert a considerable competitive influence as providers of NOW accounts and consumer loans, and are engaged in the business of making commercial loans. Based upon the relative size, market share and commercial lending activities of thrift institutions in the market, the Board has concluded that thrift institutions exert a significant competitive influence that mitigates the anti-competitive effects of this proposal in the Williams County banking market.⁵

The financial and managerial resources of Tri-State and Mid American are consistent with approval.

In considering the convenience and needs of the communities to be served, the Board has taken into account a comment received from the Superintendent of Edgerton Local Schools located in Edgerton, Ohio. The Superintendent argues that Mid American and Tri-State are the only two commercial banking organizations in Edgerton, Ohio, one of the towns in the Williams County banking market. Upon consummation of the proposed transaction, Tri-State would be the only commercial banking organization in Edgerton, Ohio. The Superintendent states that consummation of the proposed transaction would eliminate some of the banking options available to the school district and requests that the Board not approve the application unless the vacated bank is purchased by another bank.

In analyzing the competitive effects of a proposal, the Board is required to examine an acquisition in light of the geographic area in which customers may practicably turn to for alternatives. The geographic market for banking services is generally an area larger than an individual town, and in this case, the Board believes that the area where customers can practicably turn to for banking services is approximated by Williams County. Because of the number of alternatives in the Williams County banking market and other facts of record, the Board concludes that the elimination of a competitor in the town of Edgerton does not warrant denial of the application.

Based on the foregoing and other facts of record, the Board has determined that the application should be, and hereby is, approved. The acquisition 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

^{2.} The Williams County banking market is approximated by Williams County, Ohio.

^{3.} Under the revised Department of Justice Merger Guidelines (49 Federal Register 26,823 (June 29, 1984)), any market in which the post-merger HHI is over 1800 is considered highly concentrated, and the Department is likely to challenge a merger that increases the HHI by more than 50 points unless other factors indicate that the merger will not substantially lessen competition. The Department of Justice has informed the Board that a bank merger or acquisition is not likely to be challenged (in the absence of other factors indicating an anti-competitive effect) unless the post-merger HHI is at least 1800 and the merger increases the HHI by at least 200 points. The Justice Department has stated that the higher than normal HHI thresholds for screening bank acquisitions for anti-competitive effects implicitly recognizes the competitive effects of limited purpose lenders and other non-depository financial entities.

^{4.} See, e.g., National City Corporation, 70 FEDERAL RESERVE BULLETIN 743 (1984); NCNB Bancorporation, 70 FEDERAL RESERVE BULLETIN 225 (1984); General Bancshares Corporation, 69 FEDERAL

RESERVE BULLETIN 802 (1983); and First Tennessee National Corporation, 69 FEDERAL RESERVE BULLETIN 298 (1983).

^{5.} If 50 percent of the deposits controlled by thrift institutions were included in the calculation of market concentration, Tri-State and Mid American would control 17.6 percent and 9.3 percent of total market deposits, respectively. The HHI would increase by 329 points to 1912 upon consummation of the proposal.

by the Federal Reserve Bank of Cleveland, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 2, 1988.

Voting for this action: Chairman Greenspan and Governors Johnson, Seger, and Kelley. Voting against this action: Governor Angell. Absent and not voting: Governor Heller.

JAMES McAfee
Associate Secretary of the Board

Dissenting Statement of Governor Angell

I believe this application raises serious questions concerning the anticompetitive effects of mergers and acquisitions in those markets with a small number of banking competitors. Tri-State's subsidiary bank and Mid American are the only two banks competing in the town of Edgerton. Although there are banking alternatives in towns close to Edgerton, I am concerned that these distances might be sufficiently great to allow anticompetitive behavior with respect to the pricing and conditions of agricultural, small business and consumer loans in Edgerton.

February 2, 1988

Orders Issued Under Section 4 of the Bank Holding Company Act

The Bank of Nova Scotia Toronto, Canada

Order Approving Application to Engage in Securities and Financial Advisory Activities

The Bank of Nova Scotia, Toronto, Canada ("Applicant"), a foreign bank subject to the Bank Holding Company Act, 12 U.S.C. § 1841 et seq. ("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), and section 225.21(a) of the Board's Regulation Y, 12 C.F.R. § 225.21(a), to acquire McLeod Young Weir Incorporated, New York, New York ("Company"), and thereby engage in:

- (1) providing advice in connection with mergers and acquisitions, divestitures, loan syndications, interest rate swaps, interest rate caps and similar transactions to unaffiliated financial and nonfinancial institutions:
- (2) providing securities brokerage and investment advisory services to institutional customers on a combined basis; and

(3) providing financial advice to the Canadian federal and provincial governments, such as with respect to the issuance of their securities in the U.S.¹

Company currently engages in a wide range of securities underwriting, dealing, brokerage and advisory activities.² Applicant has committed to limit Company to those activities for which it seeks approval here.

Notice of the application, affording interested persons an opportunity to submit comments, has been duly published (52 Federal Register 49,089 (1987)). 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.

Applicant, with total consolidated assets equivalent to approximately \$54 billion, is the 78th largest banking organization in the world.³ Applicant owns a bank subsidiary in San Juan, Puerto Rico and maintains branches in New York City, Portland and Boston and agencies in Atlanta, Miami and San Francisco. Applicant also owns The Bank of Nova Scotia Trust Company, New York, New York, an uninsured limited-purpose trust company that neither accepts deposits nor makes commercial loans, and engages in various activities in the United States under sections 4(c)(8) and 4(c)(9) of the BHC Act and the Board's Regulations Y and K (12 C.F.R. Parts 225 and 211, respectively).

^{1.} Applicant has also applied to engage in providing discount brokerage services to non-institutional customers; furnishing general economic information and advice, general economic statistical forecasting services and industry studies to institutional customers; providing portfolio investment advice and research to institutional customers; and underwriting and dealing in obligations of the United States, general obligations of states and their political subdivisions, and other obligations that state member banks are authorized to underwrite and deal in under 12 U.S.C. §§ 24 and 335. The Board has previously found these activities, as proposed here, to be closely related to banking and a proper incident thereto. 12 C.F.R. §§ 225.25(b)(15), (4)(iv), (4)(iii) and (16) respectively.

^{2.} Company's current activities consist of providing brokerage and execution services to institutional customers; acting as agent in the private placement of corporate securities; providing investment advice and research to institutional customers; trading for its own account in Canadian federal and provincial government securities, U.S. government and agency securities and corporate debt and equity securities; underwriting and distributing Canadian federal and provincial government securities and corporate debt and equity securities; and other incidental securities activities such as borrowing and lending securities and entering into repurchase and reverse repurchase arrangements involving U.S. government and agency securities. Company also provides financial advice to institutional customers relating to acquisitions, mergers, divestitures, restructurings and public and private financing transactions, and to the Canadian federal and provincial governments and agencies thereof relating to financing transactions in the U.S.

^{3.} Asset data are as of June 30, 1987. Banking data are as of December 31, 1986.

I. Merger and Acquisition Advice to Unaffiliated Financial and Nonfinancial Institutions

Applicant has proposed that Company engage in certain financial advisory activities for unaffiliated financial and nonfinancial institutions. The Board previously has determined that, subject to certain limitations, these financial advisory activities are permissible nonbanking activities for bank holding companies. Signet Banking Corporation, 73 FEDERAL RESERVE BULLETIN 59 (1987). Applicant has committed to limit Company's financial advisory activities as set forth in that Order.

II. Providing Investment Advice and Securities Brokerage on a Combined Basis

The Board previously has determined that the combined offering of investment advice with securities brokerage services to institutional customers is a permissible nonbanking activity and does not violate the Glass-Steagall Act. See, e.g., National Westminster Bank PLC, 72 FEDERAL RESERVE BULLETIN 584 (1986) ("NatWest"); and Manufacturers Hanover Corporation, 73 FEDERAL RESERVE BULLETIN 930 (1987) ("Manufacturers Hanover"). That position has been upheld by the U.S. Court of Appeals for the District of Columbia Circuit in its affirmance of the Board's NatWest Order.⁴

Applicant has proposed to conduct its brokerage activity in accordance with the limitations approved by the Board in *NatWest* and *Manufacturers Hanover* with one exception. In *NatWest*, the Board permitted officer, director and employee interlocks between the brokerage subsidiary and its holding company but did not permit officer and director interlocks with its bank affiliates. Here, Applicant proposes that officers of Applicant, a foreign bank, be permitted to serve as

directors of Company. No officers of Applicant will serve as officers of Company.

The Board has determined that the proposed interlocks are consistent with *NatWest* because Applicant does not accept insured deposits in the U.S. and hence does not function as a domestic banking organization. Moreover, Applicant has committed that Company will not have officer or director interlocks with its U.S. bank subsidiaries, branches or agencies.

HI. Financial Advisory Services to Canadian Governmental Entities

The Board has not previously approved Applicant's third proposed activity, providing financial advice to the Canadian federal and provincial governments, such as with respect to the issuance of their securities in the U.S.

In order to approve this aspect of the proposal, the Board must determine:

- (1) that the proposed activity is closely related to banking; and
- (2) that the public benefits associated with the proposed activity outweigh any possible adverse effects.⁶

In determining if an activity is closely related to banking under section 4(c)(8) of the BHC Act, the Board has relied on guidelines established by the federal courts. Under these guidelines, an activity may be found to be closely related to banking if it is demonstrated:

- (1) that banks generally have, in fact, provided the proposed services;
- (2) that banks generally provide services that are operationally or functionally so similar to the proposed services as to equip them particularly well to provide the proposed services; or
- (3) that banks generally provide services that are so integrally related to the proposed activity as to require their provision in a specialized form.⁷

In this case, the record reflects that banks in general, as well as Company, which currently engages in this activity, do provide services similar to those proposed here and have developed expertise in pro-

^{4.} Securities Industry Ass'n v. Board of Governors, 821 F.2d 810 (D.C. Cir. 1987). The U.S. Supreme Court recently has declined to review that decision. cert. denied, 56 U.S.L.W. 3451 (U.S. Jan. 11, 1988) (No. 87-562).

^{5.} As in Manufacturers Hanover, under this proposal, Company will not act as principal or take a position (i.e., bear the financial risk) in any securities it brokers or recommends. Company will execute a transaction only at the direction of a customer and will not exercise discretion with respect to any customer account. Company will not execute any transaction where an affiliate exercises investment discretion without customer authorization. Company will offer investment advice, as well as provide securities execution services, to institutional customers on an integrated basis, i.e., Company will not charge an explicit fee for the investment advice and will receive fees only for transactions executed for customers. In addition, as in Manufacturers Hanover, Company will employ a \$1 million threshold in determining institutional customers and will share customer lists with its affiliates, but not confidential information obtained from its customers.

^{6. 12} U.S.C. § 1843(c)(8).

^{7.} National Courier Association v. Board of Governors, 516 F.2d 1229 (D.C. Cir. 1975). However, the National Courier guidelines are not the exclusive basis for finding a close relationship between a proposed activity and banking. The Board has stated that in acting on a request to engage in a new nonbanking activity, it will consider any other factor that an applicant may advance to demonstrate a reasonable or close connection or relationship of the activity to banking. 49 Federal Register 794, 806 (1984); Securities Industry Association v. Board of Governors, 468 U.S. 207, 210-11 n.5 (1984).

viding financial advice to foreign governments and their subdivisions.

The Board notes that the proposed activity is functionally and operationally similar to the activity of providing financial advice to state and local governments, such as with respect to the issuance of their securities, which the Board has found to be generally permissible for bank holding companies and incorporated into Regulation Y. 12 C.F.R. § 225.25(b)(4)(v). In addition, the Board's Regulation K authorizes the provision of such financial advisory services to foreign governmental entities. 12 C.F.R. § 211.5(d)(8). Accordingly, the Board concludes that the proposed activity is closely related to banking.

With respect to the "proper incident" requirement, section 4(c)(8) of the BHC Act requires the Board to consider whether the performance of the activity by an affiliate of a holding company "can reasonably be expected to produce benefits to the public, such as greater convenience, increased competition, or gains in efficiency that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices."

The record indicates that no adverse effects are likely to occur from the provision of such advice to Canadian federal and provincial governments. Moreover, Company, through its association with a large financial institution, will have access to increased resources and will become a more effective competitor in this area. Hence, this aspect of the proposal will result in net public benefits.

Consummation of the proposal is not likely to result in decreased or unfair competition, conflicts of interest, unsound banking practices, concentration of resources, or other adverse effects. Based on the foregoing and other facts of record, 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. Accordingly, the Board has determined that the application should be, and hereby is, approved. This determination is further 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 the holding company or any of its subsidiaries as the Board finds necessary to assure compliance with the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

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 12, 1988.

Voting for this action: Chairman Greenspan and Governors Johnson, Seger, Angell, Heller, and Kelley.

JAMES McAfee
Associate Secretary of the Board

FFB, Inc. Newark, New Jersey Philadelphia, Pennsylvania

Order Approving Acquisition of Nonbank Subsidiary

FFB, Inc., Newark, New Jersey, and Philadelphia, Pennsylvania ("FFB"), a bank holding company within the meaning of the Bank Holding Company Act ("Act") (12 U.S.C. § 1841 et seq.) has applied under section 4(c)(8) of the Act (12 U.S.C. § 1843(c)(8)) and section 225.25(b)(8) of the Board's Regulation Y (12 C.F.R. § 225.25(b)(8)) to acquire Broad & Lombardy Associates, Inc., Newark, New Jersey ("B & L"), a company which acts as an agent or broker for the sale of credit-related life, accident and health, property and casualty insurance.

Notice of the application, affording interested persons an opportunity to submit comments on the proposal, has been duly published (52 Federal Register 43,672 (1987)). 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 Act.

FFB was formed to acquire First Fidelity Bancorporation, Newark, New Jersey, and Fidelcor, Inc., Philadelphia, Pennsylvania, and their respective banking and nonbanking subsidiaries. B&L, a subsidiary of First Fidelity Bancorporation, conducts its insurance activities from one office in Newark, New Jersey, primarily serving the northern New Jersey and New York metropolitan areas.

On February 14, 1979, the Federal Reserve Bank of New York, acting pursuant to delegated authority, approved the application of First Fidelity Bancorporation to engage through a *de novo* subsidiary, B & L, in the activity of acting as agent or broker for the sale of

^{1.} The Board has received comments in opposition to this proposal from the Independent Insurance Agents of America, Inc.; the National Association of Casualty and Surety Agents; the National Association of Surety Bond Producers; the National Association of Life Underwriters; and the National Association of Professional Insurance Agents (collectively, "Protestants").

^{2.} The Board previously approved the application of FFB to acquire First Fidelity Bancorporation, Fidelcor, and their respective subsidiaries other than B & L, by Order dated January 11, 1988.

life, accident and health insurance and property and casualty insurance related to extensions of credit by its First Fidelity affiliates. Thus on May 1, 1982, B & L was engaged lawfully in acting as an insurance agent or broker for credit-related life, accident and health, property and casualty insurance and therefore meets the qualifications for grandfather rights under exemption D.

Protestants argue that even if B & L was authorized under section 4(c)(8)(D) of the Act to engage in insurance agency activities, these rights are not transferable and expire upon the acquisition of a grandfathered company by another bank holding company. As the Board previously has determined, however, a company that is entitled to engage in insurance activities under exemption D does not lose those rights upon its acquisition by another bank holding company, provided that the grandfathered entity retains its separate corporate structure and its insurance activities are not conducted by other companies within the acquiring banking organization.³ In the instant case, following its acquisition by FFB, First Fidelity Bancorporation would remain a separate bank holding company and B & L would remain a separate nonbank subsidiary thereof, and their grandfathered insurance activities would not be conducted by FFB or other entities within FFB's organization. First Fidelity Bancorporation and B & L therefore may retain their exemption D grandfather privileges after acquisition by FFB.4

The Protestants also request that the Board delay consideration of this proposal until the expiration of the insurance activities moratorium contained in the Competitive Equality Banking Act of 1987 ("CEBA"), Pub. L. No. 100-86, § 201, 101 Stat. 581 (1987). The Board notes that, by its terms, the moratorium on insurance activities in CEBA does not apply to insurance activities expressly authorized for bank holding companies under subparagraphs (A) through (G) of section 4(c)(8) of the Act (12 U.S.C. § 1843(c)(8) (A-G)). Inasmuch as the insurance agency activities of B & L are authorized pursuant to section 4(c)(8)(D), the continued conduct of those activities is explicitly preserved under CEBA.

The record reflects that FFB's acquisition of B & L would not significantly affect competition in any relevant market. Moreover, there is no evidence to indicate that approval of this proposal would result in

Based on the foregoing and other facts of record, the Board has determined that the balance of the public interest factors it must consider under section 4(c)(8) of the Act is favorable. Accordingly, the application should be, and hereby is, approved. This determination is subject to all of the conditions set forth in Regulation Y, including sections 225.4(d) and 225.23(b) (12 C.F.R. §§ 225.4(d) and 225.23(b)), 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 the provisions and purposes of the Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

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

By order of the Board of Governors, effective February 19, 1988.

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

> JAMES MCAFEE Associate Secretary of the Board

Midland Bank, PLC London, England

Order Approving Application to Issue Variably Denominated Payment Instruments Payable in Foreign Currencies With Unlimited Face Values

Midland Bank, PLC, London, England ("Midland"), a foreign bank subject to the Bank Holding Company Act, 12 U.S.C. § 1841 et seq. ("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)) 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 wholly owned subsidiary, Thomas Cook, Inc., Princeton, New Jersey ("TCI"), in the issuance and sale of foreign drafts and wire transfers (collectively, "payment instruments") that are payable in foreign currencies and are without limitation as to their face amount. Midland proposes to conduct these activities through TCI, as well as to market such instruments through a nationwide network of unaffiliated selling

undue concentration of resources, unfair competition, conflicts of interest, unsound banking practices, or other adverse effects.

^{3.} See e.g., U. S. Bancorp, 73 FEDERAL RESERVE BULLETIN 941 (1987); Trustcorp, Inc., 73 FEDERAL RESERVE BULLETIN 934 (1987); MNC Financial, Inc., 73 FEDERAL RESERVE BULLETIN 740 (1987); and Sovran Financial Corporation, 73 FEDERAL RESERVE BULLETIN 672 (1987).

^{4.} Applicant also has committed that B & L will continue to abide by the geographic and functional limitations of exemption D with respect to its insurance activities.

agents, including commercial banks, thrift institutions and others. 1

Notice of the application, affording interested persons an opportunity to comment, has been published (52 Federal Register 46,003 (1987)). 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.

Midland, with total consolidated assets equivalent to approximately \$51.1 billion, is the 34th largest banking organization in the world.² Midland operates a U.S. branch and an Edge corporation both located in New York, New York, and engages in various activities in the United States under sections 4(c)(8) and 4(c)(9) of the BHC Act and the Board's Regulations Y and K (12 C.F.R. Parts 225 and 211 respectively).

The Board previously has determined that the issuance and sale of money orders and similar payment instruments with a maximum face value of \$1,000 are closely related to banking. 12 C.F.R. § 225.25(b)(12).³ The Board also has approved by order a limited number of applications to engage in the issuance and sale of payment instruments with a \$10,000 maximum face value. In addition, the Board has approved the issuance and sale of certain payment instruments with no maximum limitation on their face amount, subject to a number of operational restrictions and reporting requirements similar to those proposed in the instant application. Wells Fargo & Company, 72 FEDERAL RESERVE BULLETIN 148 (1986) ("Wells Fargo"). In the Wells Fargo Order, the Board determined that an increase in the denomination of such instruments would not affect the fundamental nature of the payment instruments, and the Board concluded that the issuance and sale of the proposed instruments in increased denominations, such as proposed here, are closely related to banking.

In order to approve this application under section 4(c)(8), the Board must also find that the performance of the proposed activity by Midland "can reasonably be expected to produce benefits to the public, such as greater convenience, increased competition, or gains

In considering previous applications regarding variably denominated payment instruments, the Board has expressed concern that the issuance of instruments in denominations larger than \$1,000 would result in an adverse effect on the reserve base because such instruments are not subject to transaction account reserve requirements. The Board has noted that because reserve requirements serve as an essential tool of monetary policy, the conduct of that policy could be adversely affected by the erosion of reservable deposits in the banking system. Accordingly, in order to guard against such potential adverse effects, the Board conditioned its approval of the Wells Fargo proposal on a commitment that Wells Fargo cause to be deposited into a demand deposit account at its bank subsidiary all of the proceeds of any official check having a face value in excess of \$10,000, thereby rendering the proceeds subject to reserve requirements. The Board also made its approval subject to certain reporting requirements, as well as its own continued evaluation of the activity's effects on monetary policy.

To address the monetary policy concerns expressed in the Board's Wells Fargo Order, Midland has committed that the proceeds of all sales of foreign-currency denominated instruments will be held in demand deposit accounts at U.S. commercial banks. Deposits stemming from the sale of instruments with denominations of \$10,000 or less will be swept daily into nonreservable instruments. The entire proceeds of the sale of any payment instrument with a face value greater than \$10,000 will be deposited in a demand deposit account at a U.S. depository institution. Such proceeds will then be used to purchase foreign currency for each particular payment instrument at the time of the transaction. Midland states that its purchases of foreign currency are typically value-dated two days hence, at which time the demand deposit account will be debited and the U.S. dollar funds will leave the U.S. monetary system. Midland has committed that the U.S. dollar fund proceeds of all instruments with a face value greater than \$10,000 will not be swept out overnight while in demand deposit accounts, and thus will be reservable. Midland has committed to submit to the Board weekly reports of balances held in demand deposit accounts.

Midland contends that implementation of the foregoing commitments and procedures will adequately address the Board's monetary policy concerns. After reviewing the proposal, the Board has determined that the commitments and procedures outlined therein adequately address the Board's concerns regarding po-

in efficiency, that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interest, or unsound banking practices."

^{1.} Midland also proposes to engage in data processing activities related to the issuance and sale of such payment instruments. The Board previously has determined that data processing activities for the processing and transmission of financial, banking, or economic data, such as proposed here, are closely related to banking. 12 C.F.R. § 225.25(b)(7)(ii).

^{2.} Asset data are as of June 30, 1987. Banking data are as of December 31, 1986.

^{3.} TCI currently issues and sells travelers checks in various foreign currencies with a maximum denomination of \$1,000 pursuant to that section.

^{4.} See e.g., BankAmerica Corporation, 73 Federal Reserve Bulletin 727 (1987).

tential adverse effects on the reserve base. The Board's approval for Midland to engage in this activity is subject to the continued evaluation of its potential for adverse effects on the conduct of monetary policy. If the Board discerns such effects in the future, the Board would require appropriate modification of the activity and/or imposition of additional reserve requirements.

The record reflects that the sale of these payment instruments by Midland would increase competition in an industry that currently is highly concentrated and enhance the convenience of purchasers. The Board finds that these instruments, which will be issued by a large financial organization, will enjoy ready acceptability and provide benefits to the public. Moreover, there is no evidence in the record that consummation of this proposal would result in adverse effects, such as unsound banking practices, unfair competition, conflicts of interest, or undue concentration of resources.

Based upon the foregoing and other considerations reflected in the record, the Board has determined that the balance of the public interest factors it is required to consider under section 4(c)(8) is favorable. This determination is subject to all of the conditions set forth in Regulation Y, including sections 225.4(d) and 225.23(b), 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 the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

The activity shall be commenced no 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 3, 1988.

Voting for this action: Chairman Greenspan and Governors Johnson, Seger, Angell, Heller, and Kelley.

> JAMES MCAFEE Associate Secretary of the Board

National Westminster Bank PLC London, England

NatWest Holdings, Inc. New York, New York

Order Approving Application to Acquire Washington Analysis Corporation, Washington, D.C.

National Westminster Bank PLC, London, England and NatWest Holdings, Inc., New York, New York (collectively "NatWest"), both bank holding companies within the meaning of the Bank Holding Company Act (12 U.S.C. § 1841 et seq.) ("Act"), have applied for the Board's approval under section 4(c)(8) of the U.S.C. § 1843(c)(8)) Act (12 and section 225.25(b)(4)(iv) of the Board's Regulation Y (12 C.F.R. § 225.25(b)(4)(iv)) to acquire, through a wholly owned subsidiary, County NatWest Inc., New York, New York ("CNI"), 100 percent of the voting shares of Washington Analysis Corporation, Washington, D.C. ("WAC"), which engages in furnishing general economic information and advice, general economic statistical forecasting services and industry studies to "Institutional Customers."1

Notice of the application, affording interested persons an opportunity to submit comments, has been duly published (52 Federal Register 49,508 (1987)). 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 Act.

National Westminster Bank PLC ("NatWest Bank PLC"), with approximately \$140.3 billion in total consolidated assets as of June 30, 1987, is the seventeenth largest banking organization in the world and provides a full range of retail and wholesale banking services worldwide. In the United States, NatWest Bank PLC operates four representative offices, branches in New York and Chicago, agencies in San Francisco and Dallas, and six nonbanking subsidiaries (engaged in data processing, factoring, and securities brokerage and dealing). NatWest Bank PLC also controls applicant NatWest Holdings, Inc., and its subsidiary National Westminster Bank USA, N.A., New

^{1.} An Institutional Customer is defined by NatWest to be a person that is:

⁽¹⁾ a bank (acting in an individual or fiduciary capacity); an insurance company; a registered investment company under the Investment Company Act of 1940; or a corporation, partnership, proprietorship, organization or institutional entity that regularly invests in types of securities as to which investment advice is given, or that regularly engages in transactions in securities;

⁽²⁾ an employee benefit plan with assets exceeding \$5,000,000, or whose investment decisions are made by a bank, insurance company or investment advisor registered under the Investment Advisors Act of 1940:

⁽³⁾ a natural person whose individual net worth (or joint net worth with his or her spouse) at a time of receipt of the investment advice or brokerage services exceeds \$5,000,000;

⁽⁴⁾ a broker-dealer or option trader registered under the Securities Exchange Act of 1934, or other securities professional; or

⁽⁵⁾ an entity all of the equity owners of which are institutional customers.

York, New York, which holds total deposits of approximately \$11.3 billion as of September 30, 1987.²

WAC engages in monitoring and analyzing U.S. legislative and regulatory developments exclusively within the context of probable effects on the general economy and individual markets, industries, companies and products. Upon consummation of this proposal, NatWest will transfer the activities of WAC to County Securities Corporation USA, New York, New York ("CSC"), an indirect subsidiary of NatWest wholly owned by CNI.3 CSC currently engages in the combined offering of investment advice and securities execution services to institutional customers, pursuant to prior Board approval. National Westminster Bank PLC, et al., 72 FEDERAL RESERVE BULLETIN 584 (1986).4 CSC will offer WAC's services to its institutional customers either as a stand-alone service or in connection with brokerage services.5

Section 4(c)(8) imposes a two-step test for determining the permissibility of nonbanking activities for bank holding companies:

- (1) whether the activity is closely related to banking; and
- (2) whether the activity is a "proper incident" to banking—that is, whether the proposed activity can reasonably be expected to produce benefits to the public that outweigh possible adverse effects. 12 U.S.C. § 1843(c)(8).

The Board has previously determined that analysis of regulatory developments, in the context of providing investment research advice, is closely related to banking and permissible for bank holding companies under section 225.25(b)(4). Security Pacific Corporation, 71 FEDERAL RESERVE BULLETIN 118 (1984) ("Security Pacific Order"). WAC's activities are very similar to the activities approved in the Security Pacific Order. Moreover, the underlying rational of the Board's decision in the Security Pacific Order, that analysis of the effects of regulatory developments on

individual industries within the context of providing investment advice to institutional customers is permissible, supports the permissibility of WAC's activities. On this basis, the Board finds the activities of WAC to be closely related to banking.

With regard to the "proper incident" requirement, section 4(c)(8) of the Act requires the Board to determine that NatWest's performance of WAC's activities could "reasonably be expected to produce benefits to the public, such as greater convenience, increased competition, or gains in efficiency, that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interest, or unsound banking practices." 12 U.S.C. § 1843(c)(8).

Although NatWest and WAC both engage in providing investment advice, the market for their activities is relatively unconcentrated with no significant barriers to entry. In addition, NatWest, through CSC, currently engages in investment advice activities that emphasize security-specific analysis, unlike WAC's investment advice activities which emphasize the effects of legislative and regulatory developments on general industry and economic trends. Accordingly, the Board concludes that consummation of this proposal would not have a significant adverse effect on existing or potential competition. There is no evidence in the record that consummation of this proposal would result in unsound banking practices, unfair competition, conflicts of interest, or undue concentration of resources. NatWest's investment advice capabilities would be enhanced by offering WAC's services, allowing it to provide more comprehensive investment advice to its customers. Accordingly, the Board believes that the public benefits of the proposal outweigh any potential adverse effects.

Based upon the foregoing and other considerations reflected in the record, and NatWest's adherence to the commitments and conditions contained in National Westminster Bank PLC, et al., the Board has determined that the balance of public interest factors that the Board is required to consider under section 4(c)(8) is favorable. Accordingly, the application is hereby approved. This determination is subject to all of the conditions set forth in Regulation Y, including sections 225.4(d) and 225.23(b), 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 the provisions and purposes of the Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

This transaction shall be consummated not later than three months after the effective date of this Order, unless such period is extended for good cause

^{2.} Total deposit data reflects NatWest's acquisition of First Jersey National Corporation, Jersey City, New Jersey, approved by the Board on December 21, 1987.

WAC's former employees will operate as part of CSC's research staff. WAC's services will be offered as CSC's services to CSC's institutional customers.

^{4.} The Board determined that the combined offering of investment advice with securities execution services to institutional customers from the same bank holding company subsidiary is closely related and a proper incident to banking under section 4(c)(8) of the Act and does not violate the Glass-Steagall Act. National Westminister Bank PLC, et al., 72 Federal Reserve Bulletin 584 (1986); J.P. Morgan and Company, Inc., 73 Federal Reserve Bulletin 810 (1987).

^{5.} NatWest has reaffirmed its adherence to the commitments and conditions set forth in *National Westminister Bank PLC*, et al., 72 FEDERAL RESERVE BULLETIN 584 (1986).

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 8, 1988.

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

> JAMES MCAFEE Associate Secretary of the Board

Security Pacific Corporation Los Angeles, California

Order Vacating Prior Order Approving Application To Establish an Automated Trading System for Options on United States Government Securities

By Order dated August 5, 1987, the Board of Governors of the Federal Reserve System ("Board") approved an application submitted by Security Pacific Corporation, Los Angeles, California ("Security Pacific") under section 4(c)(8) of the Bank Holding Company Act by issuing an Order Approving Application to Establish an Automated Trading System for Options on United States Government Securities ("August 5, 1987 Order").1

On September 1, 1987, the Board of Trade of the City of Chicago, the Chicago Board Options Exchange, Inc., and the Chicago Mercantile Exchange ("Petitioners"), each of which had protested Security Pacific's application before the Board, filed a timely petition for review in the United States Court of Appeals for the Seventh Circuit ("Court of Appeals").

On December 9, 1987, Security Pacific advised the Board that its subsidiaries had sold all of their rights, title, and interest in and to the automated trading system that was the subject of the August 5, 1987 Order.

On December 11, 1987, Petitioners filed their brief in support of their petition for review with the Court of Appeals. On January 26, 1988, the Court of Appeals granted a motion by Petitioners and the Board to dismiss the pending petition for review and remand the August 5, 1987 Order to the Board so that the Board may vacate that Order. Because of the dismissal of the petition for review, the Order approving this application is hereby vacated and is no longer effective.

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

> JAMES MCAFEE Associate Secretary of the Board

SunTrust Banks, Inc. Atlanta, Georgia

Order Approving an Application to Engage in Certain Financial Advisory Activities

SunTrust Banks, Inc., Atlanta, Georgia ("SunTrust"), a bank holding company within the meaning of the Bank Holding Company Act (12 U.S.C. § 1841 et seq.) (the "Act"), has applied for the Board's approval under section 4(c)(8) of the Act (12 U.S.C. § 1843(c)(8)) and section 225.23 of the Board's Regulation Y (12 C.F.R. § 225.23), to engage directly in certain financial advisory activities.

Notice of the application, affording interested persons an opportunity to submit comments on the proposal, has been duly published (52 Federal Register 46,002 (1987)). 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 Act.

SunTrust, with total consolidated assets of approximately \$25.9 billion, controls banking subsidiaries in Florida, Georgia and Tennessee, and engages through other subsidiaries in various permissible nonbanking activities. SunTrust now proposes to engage directly in certain activities currently conducted by its lead bank and other banking affiliates. These activities are:

- (1) furnishing general economic information and advice, general economic statistical forecasting services and industry studies;
- (2) providing financial advice to state and local governments, such as with respect to the issuance of their securities;
- (3) providing advice regarding the structuring of and arranging for loan syndications, interest rate "swaps," interest rate "caps," and similar transac-
- (4) providing advice in connection with financing transactions for nonaffiliated financial and nonfinancial institutions;
- (5) providing valuation services for nonaffiliated financial and nonfinancial institutions;

By order of the Board of Governors, effective February 4, 1988.

^{1. 73} FEDERAL RESERVE BULLETIN 815.

^{1.} Banking data are as of September 30, 1987.

- (6) advising nonaffiliated financial and nonfinancial institutions in connection with merger, acquisition and divestiture considerations:
- (7) rendering fairness opinions in connection with merger, acquisition and similar transactions for nonaffiliated financial and nonfinancial institutions; and (8) conducting feasibility studies for corporations.

The activities described in paragraphs (1) and (2) are included on the list of permissible nonbanking activities in the Board's Regulation Y (12 C.F.R. § 225.25(b)(4)(iv) and (v)). The Board has previously determined by Order that the remaining proposed activities are closely related to banking and permissible for bank holding companies.²

The Board previously has expressed its concerns regarding conflicts of interest and related adverse effects that, absent certain limitations, may be associated with financial feasibility studies that may be conducted as part of these activities. SunTrust has committed to abide by the conditions established in these cases in order to avoid such adverse effects. Specifically, SunTrust has agreed that:

- (1) SunTrust's financial advisory activities shall not encompass the performance of routine tasks or operations for a customer on a daily or continuous basis;
- (2) advice rendered by SunTrust on an explicit fee basis will be without regard to correspondent balances maintained by a customer of SunTrust at any depository subsidiary of SunTrust; and
- (3) SunTrust will not make available to any of its subsidiaries confidential information received from SunTrust's clients, except as authorized by the respective client.

Under these conditions, SunTrust's performance of this activity is unlikely to result in conflicts of interest or other potential adverse effects.

In order to approve this application, the Board must also find that performance of the proposed activities "can reasonably be expected to produce benefits to the public, such as greater convenience, increased competition, or gains in efficiency, that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interest, or unsound banking practices." SunTrust's proposal represents a corporate reorganization wherein activities currently performed by its subsid-

iaries will be conducted directly by SunTrust. Because the proposal essentially would result in a transfer of the activities within the same corporate structure, approval of the application would have no adverse competitive effects. Moreover, there is no evidence in the record that SunTrust's performance of these activities is likely to result in any undue concentration of resources, decreased or unfair competition, unsound banking practices, or other adverse effects.

Based upon a consideration of all the relevant facts, the Board concludes that the balance of the public interest factors that the Board is required to consider under section 4(c)(8) is favorable. Financial and managerial resources also are consistent with approval of the proposal. Accordingly, the application is hereby approved. This determination is subject to the conditions set forth in this Order and in sections 225.4(d) and 225.23(b)(3) of Regulation Y. This approval is also subject to the Board's authority to require such 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 the provisions and purposes of the Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

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

By order of the Board of Governors, effective February 8, 1988.

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

JAMES McAFEE
Associate Secretary of the Board

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

The Bank of New York Company, Inc. New York, New York

Order Conditionally Approving the Acquisition of a Bank Holding Company

The Bank of New York Company, Inc., New York, New York ("BNY"), a bank holding company within the meaning of the Bank Holding Company Act of 1956, as amended (the "Act" or the "BHC Act") (12 U.S.C. § 1841 et seq.), has applied for the Board's approval under section 3 of the Act (12 U.S.C.

^{2.} Signet Banking Corporation, 73 FEDERAL RESERVE BULLETIN 59 (1987) (paragraphs (3), (5), (6) and (7)); Sovran Financial Corporation, 73 FEDERAL RESERVE BULLETIN 744 (1987) (paragraph (4)); and Security Pacific Corporation Duff & Phelps, Inc., 71 FEDERAL RESERVE BULLETIN 118 (1985) (paragraph (8)).

§ 1842) to acquire 100 percent of the voting shares of, and/or to effect a merger with, Irving Bank Corporation, New York, New York ("IBC"), and thereby to acquire IBC's subsidiary banks.

BNY also has applied under section 4(c)(8) of the Act (12 U.S.C. § 1843(c)(8)) to acquire the nonbanking subsidiaries of IBC listed in the Appendix to this Order. In addition, BNY has applied to acquire indirectly the shares of Irving Trust International Bank and Irving International Financing Corporation, corporations chartered pursuant to section 25(a) of the Federal Reserve Act (the "Edge Act") (12 U.S.C. §§ 611-631).

BNY also has provided notice of its intention to acquire indirectly Banca Della Svizzera Italiana, Lugano, Switzerland; Banco Irving Austral, Buenos Aires, Argentina; International Commercial Bank PLC, London, United Kingdom; Irving Bank Canada, Toronto, Ontario, Canada; Sociedad Financiera Consolidada, Caracas, Venezuela; Turkiye Tutunculer Bankasi A.S., Izmir, Turkey; Wing Hang Bank Limited, Hong Kong; and Banco Weng Hang, Hong Kong, under section 4(c)(13) of the Act (12 U.S.C. § 1843(c)(13)) and Irving International Trade, Inc., under section 4(c)(14) of the Act (12 U.S.C. § 1843(c)(14)).

Because of certain provisions of state law discussed below and IBC's Shareholders' Purchase Rights Plan, BNY may decide to acquire initially no more than 19.9 percent of IBC's voting stock and through a proxy solicitation to seek to elect at least a majority of IBC's board of directors. If BNY is successful, it would then proceed to acquire the remainder of IBC's shares. Accordingly, BNY has also requested approval under the BHC Act to acquire 19.9 percent of IBC's shares and to acquire voting control of such number of IBC's voting shares as will enable BNY to elect at least a majority of IBC's directors.

Notice of these applications, affording interested persons an opportunity to submit comments, has been published (52 Federal Register 38,273 and 45,689 (1987)). 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 Act and the purposes of the Edge Act. The Board notes that on February 25, 1988, the New York State Banking Board unanimously approved BNY's proposal to acquire IBC, after examining the proposal from the standpoint of safety and soundness, banking competition, maintenance of financial services and the public convenience and needs and considering IBC's comments in opposition to the proposal.

The Board has received comments from IBC objecting to Board approval of the proposed acquisition. IBC also has requested that the Board hold a hearing regarding the applications.² IBC raises questions concerning, among other things, the ability of BNY to consummate this transaction under New York law and IBC's Shareholders' Purchase Rights Plan, the definitiveness of the proposal, the adequacy of the specifications in BNY's application regarding the proposal. the adequacy of the capital position of the resulting organization, its managerial resources and future prospects, BNY's plans regarding the retention and operation of certain IBC subsidiaries, the effect of the presence of a minority shareholder on the operations and future prospects of IBC, and the effect of the proposed acquisition on the convenience and needs of the communities served by IBC's subsidiaries.

The Board has considered these comments carefully, as well as the responses to these comments submitted by BNY, and has reviewed the application in light of all of the information presented and otherwise available to the Board. Based upon this consideration and subject to BNY's commitments and the conditions established by the Board as described below, the Board has concluded that BNY's proposal satisfies the criteria set out in the Act. Accordingly, the Board has determined to approve the applications subject to the fulfillment of BNY's commitments and the conditions established herein by the Board.

Board Policy in Evaluating Contested Proposals

BNY's proposal raises issues concerning the Board's general policy toward bank holding company acquisitions that are opposed by the management of the institution to be acquired and the adequacy of the Board's procedures in considering these applications.

Section 3(c) of the BHC Act requires the Board to review each application on its merits in light of the

^{1.} These are Irving Trust Company, New York, New York; The Bank of Lake Placid, Lake Placid, New York; Bank of Long Island, Babylon, New York; Central Trust Company, Rochester, New York; Dutchess Bank & Trust Company, Poughkeepsie, New York; Endicott Trust Company, Endicott, New York; The First National Bank of Moravia, Moravia, New York; The First National Bank of Moravia, Moravia, New York; The Fulton County National Bank and Trust Company, Gloversville, New York; Hayes National Bank, Clinton, New York; The Merchants National Bank & Trust Company of Syracuse, Syracuse, New York; Nanuet National Bank, Nanuet, New York; Scarsdale National Bank and Trust Company, Scarsdale, New York; and Union National Bank, Albany, New York.

^{2.} In addition to the IBC comments, the application was protested under the Community Reinvestment Act, 12 U.S.C. § 2901 et seq. The Board also received comments from members of the public, members of Congress, and various organizations. As discussed more fully in this Order, the Board has carefully considered all these comments in reaching its decision.

Act's competitive standards, the financial and managerial resources and future prospects of the companies and banks concerned, and the convenience and needs of the community to be served. The Act does not draw any distinction between acquisitions that are agreed to between the parties and those where, as here, there is no agreement. The Board's experience over the years indicates that the criteria established by Congress in the BHC Act are adequate for the Board to carry out the Congressional mandate of maintaining competition, assuring safety and soundness, and meeting community convenience and needs. The Board believes this is true regardless of whether the proposed acquisition is friendly or hostile.

In accordance with the requirements of the Act, the Board evaluates each bank holding company acquisition proposal to ensure that these criteria are satisfied. Where the statutory criteria are met, the Board would be acting outside its delegated discretion to withhold approval based upon other factors such as whether the proposal is acceptable to the management of the banking organization to be acquired.³ The Board thus applies the statutory criteria equally in the case of applications supported by the management of the acquired company as well as in those that are opposed by management.⁴

In some cases, however, the lack of agreement between the applicant and the organization to be acquired may introduce an element of uncertainty in the analysis of certain of the effects of the proposed acquisition on the statutory factors. The Board is mindful of the potential contested situations may pose for adverse effects on the financial and managerial resources of the company to be acquired as well as with respect to the acquiring organization. Thus, in the case of applications involving contested acquisitions, as in the case of the present application, the Board pays special attention to assuring that the statutory criteria are met.

The Board will also take into account the potential for adverse effects on bank safety and soundness in the event that a contested situation is prolonged. Thus, as discussed below, the Board intends to review carefully any request by BNY to extend the normal 90-day period provided for an applicant to consummate an

approved proposal. The Board would not expect to grant more than one extension of this period and then only if the Board is satisfied regarding bank safety and soundness considerations and the likelihood of consummation of the proposal within the extended period.

Adequacy of Board Procedures

The Board has also considered whether the Board's current procedures for processing bank holding company applications are sufficient in a contested situation such as presented here. The Board believes that these procedures are fully adequate to provide all interested parties the opportunity to review the proposal, to bring to the Board's attention any issue bearing on the statutory criteria, and to present evidence and comment on the issue. The Board's rules establish detailed procedures that govern the submission and content of applications, require notice of the application to the public in newspapers and in the Federal Register, and provide interested persons with an opportunity to comment on the proposal for at least 30 days.⁵ In addition, in 1984, the Board issued a policy statement setting out in detail the procedures that should be used in protested applications. 12 C.F.R. § 262.25. There are also detailed staff guidelines that govern every aspect of the application process, including procedures for the exchange of communications between applicant and protestants and relevant time periods for rebuttal. Under these procedures, the applicant and protesting party are provided an opportunity to comment on each other's submissions and to provide data and information to support their positions. In this case, for example, there have been numerous and lengthy submissions by both BNY and IBC throughout the application process regarding the issues raised by the application as well as each other's comments.

Moreover, in this case IBC has been provided, by stipulation between IBC, BNY, and the Board, access to major portions of the application normally not made available to the public, which contain Applicant's financial projections, underlying assumptions and other confidential business information. As a result, IBC was able to comment meaningfully on key financial considerations in the application that in a number of instances resulted in modifications of BNY's previous submissions. This procedure available under the Board's current rules has provided the Board with the benefit of extensive submissions by IBC regarding the

^{3.} For example, where the Board rejected an application because the applicant's offer did not treat all shareholders equally, a reviewing court found that the Board's decision was unauthorized under the Act. Western Bancshares, Inc. v. Board of Governors of the Federal Reserve System, 480 F.2d 749 (10th Cir. 1973).

^{4.} See McLeod Bancshares, Inc., 73 FEDERAL RESERVE BULLETIN 724 (1987); Crescent Holding Company, 73 FEDERAL RESERVE BULLETIN 457 (1987); Lloyds Bank PLC, 72 FEDERAL RESERVE BULLETIN 841 (1986); Simmer Development Company, 72 FEDERAL RESERVE BULLETIN 494 (1986); Hudson Financial Associates, 72 FEDERAL RESERVE BULLETIN 150 (1986).

^{5. 12} C.F.R. § 262.3. This comment period may be extended by the Secretary of the Board, as it was in this application, for good cause. 12 C.F.R. § 265.2(a)(10).

^{6.} Manual on Procedures for Processing Applications, AD 87-20 (FIS) (May, 1987).

issues and BNY's submissions and has produced, in the Board's view, a sufficient record for considering this application under the criteria in the Act. The Board believes these procedures have provided IBC with a fully adequate opportunity to comment on this proposal.

Competitive Considerations

BNY is the seventh largest commercial banking organization in New York, with one subsidiary bank that controls domestic deposits of \$11.9 billion, representing 5.0 percent of total domestic deposits in commercial banks (hereinafter "deposits") in New York. 7 IBC operates fourteen banking subsidiaries in New York and is the ninth largest commercial banking organization in the state, controlling domestic deposits of \$9.9 billion, representing 4.1 percent of deposits in New York. Upon consummation of the proposed acquisition, BNY would become the fifth largest commercial banking organization in New York, controlling \$21.8 billion in domestic deposits, representing approximately 9.1 percent of deposits in that state. Consummation of this proposal would have no significant adverse effect upon the concentration of commercial banking resources in New York.

Insofar as the commercial banking product market is concerned, BNY and IBC compete directly in two relevant geographic banking markets: the Metropolitan New York-New Jersey and Mid-Hudson banking markets.8 In the Metropolitan New York-New Jersey banking market, BNY is the seventh largest of 159 commercial banking organizations, controlling \$10.5 billion in deposits, which represents 4.4 percent of the deposits in that market. IBC is the eleventh largest commercial banking organization in this market, controlling \$6.1 billion in deposits, which represents 2.5 percent of deposits in the market. Upon consummation of this proposal, BNY would become the fifth largest commercial banking organization, controlling \$16.6 billion in deposits, or 6.9 percent of the market's deposits. The Metropolitan New York-New Jersey banking market is considered to be unconcentrated and would remain so upon consummation of the proposal. The Herfindahl-Hirschman Index ("HHI")

for the market would increase by only 23 points to 710 upon consummation of the proposal. The four-firm concentration ratio (of 46.3 percent) for the market would remain unchanged.

In the Mid-Hudson banking market, BNY is the tenth largest of fifteen commercial banking organizations, with \$82 million in deposits, representing 5.0 percent of deposits in the market. IBC is the fourth largest commercial banking organization in the market, with \$188 million in deposits, representing 11.5 percent of deposits in the market. Upon consummation of the proposal, BNY would become the largest commercial bank organization in the market with a 16.5 percent market share. The Mid-Hudson banking market will become moderately concentrated, with the four largest commercial banking organizations controlling 51.8 percent of total deposits. Upon consummation of this proposal, the HHI would increase by 115 points to 1105 and the four-firm concentration ratio would increase to 56.5 percent.9

On the basis of the above facts, including the presence of numerous thrift institutions in each market, the Board concludes that consummation of the proposal is not likely to lessen substantially existing competition for banking services in any relevant geographic market or otherwise result in anticompetive effects of the type described in sections 3(c)(1) or (2) of the BHC Act.

IBC operates in ten banking markets in which BNY does not operate. 10 Nine of these markets are not concentrated and all of the markets have numerous probable future entrants. Based upon these and other facts of record, the Board concludes that consummation of the proposal would not substantially lessen probable future competition in any relevant banking market.

Government Securities Clearance and American Depository Receipts (ADR) Services

IBC and BNY each provide government securities clearance and settlement and ADR services to third

^{7.} State deposit data are as of September 30, 1987, and market deposit data are as of June 30, 1986. BNY also operates a credit card bank in Delaware.

The Metropolitan New York-New Jersey market is defined to include New York City and Long Island, New York; Putnam, Sullivan, Westchester, Rockland, and Orange Counties in New York; Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, and Warren Counties in New Jersey; and portions of Fairfield County in Connecticut.

The Mid-Hudson banking market consists of Dutchess and Ulster Counties in New York.

^{9.} Under the revised Department of Justice Merger Guidelines (49 Federal Register 26,823 (June 29, 1984)), a market in which the post-merger HHI is between 1000 and 1800 is considered moderately concentrated. In such markets, the Department is likely to challenge a merger that increases the HHI by more than 50 points. The Department has informed the Board that a bank merger or acquisition generally will not be challenged (in the absence of other factors indicating anticompetitive effects) unless the post-merger HHI is at least 1800 and the merger increases the HHI by at least 200 points. The Justice Department has stated that the higher than normal HHI thresholds for screening bank mergers for anticompetitive effects implicitly recognizes the competitive effect of limited purpose lenders and other non-depository financial entities.

These markets are the Albany, Binghamton, Buffalo, Elmira-Corning, Ithaca, Oneonta, Plattsburgh, Rochester, Syracuse and Utica-Rome banking markets.

parties.¹¹ As part of its protest, IBC contends that the Board must consider the competitive effects of the proposal viewing government securities clearance and ADR services each as separate product markets. IBC asserts that these products constitute highly concentrated markets separately defined from the commercial banking product market and that competition in each market will be adversely affected by the merger of IBC and BNY. BNY asserts that commercial banking is the appropriate line of commerce; or, in the alternative, if the activities are separate lines of commerce, that consummation will not result in any substantial competitive harm.

In delineating the relevant product market in which to assess the probable competitive effects of a bank acquisition or merger, the Supreme Court has determined that "commercial banking" is the appropriate line of commerce on the basis that the "cluster of products . . . and services" provided by commercial banks is unique relative to other institutions. 12 Underlying this analysis is the recognition that the relationship among the products and services that constitute commercial banking creates an "economic significance well beyond the various products and services involved."13 To measure the "cluster of products," the Court has used bank deposits as a proxy for the market share of the bank. This approach has reasonably approximated economic reality in commercial banking and has provided a practical and workable basis for competitive assessments.

Government securities clearing and settlement services are generally provided by depository institutions and involve a combination of services that banks have

traditionally provided, such as funds transmissions, settlement services and custodial services. Clearing services are also closely tied to lending activities because clearing may involve credit extension by the bank to the dealer. Similarly, ADR services have been provided only by banks and are composed of traditional banking activities such as custodial and trust services, depositary services, transfer agency services and lending services. On the basis of these factors, the Board believes that government securities clearing and ADR services should be viewed as elements of the cluster of services that traditionally has constituted the commercial banking line of commerce, as articulated by the Supreme Court in Philadelphia. As discussed above, in this product market, consummation of the proposal would have no substantial adverse effect on competition in any relevant geographic area or otherwise violate the competitive standards in section 3(c) of the Act.

Even if government securities clearance and ADR services were each viewed as constituting separate lines of commerce that are distinct from the commercial banking product market delineated in *Philadel-phia*, the Board does not believe that consummation of this proposal would substantially lessen competition in either market.

In defining the government securities clearing market, IBC includes only those depository institutions that provide clearing and settlement services for the more active government securities dealers and brokers unaffiliated with a depository institution. 14 Under this approach, BNY has the second largest market share of the five clearing banks in the business with a 28.3 percent market share. IBC is the fourth largest participant with a 18.7 percent market share. Upon consummation of the proposal, IBC projects that BNY would be the largest participant in the market, with almost a 47.0 percent market share and that the four-firm concentration ratio would increase to 100 percent, with an increase in the HHI of over 1000 points to over 3400. 15 If transactions cleared for affiliates are not excluded. BNY's market share would upon consummation be about 43 percent and the HHI would increase by 900 points to just over 3100.

BNY disputes IBC's market definition as being too narrow. BNY would include all depository institutions

^{11.} ADRs are receipts, similar to domestic stock certificates, issued by a U.S. bank that represent a stated number of shares of a foreign security. The foreign securities represented by the ADRs are held by a foreign depository trust company, which serves as agent for the issuing domestic bank. ADRs are dollar denominated and permit a United States investor to own and trade foreign stocks without directly trading on the foreign stock exchange. The bank issuing ADRs effectively commits to the valid ownership rights in the shares. monitors all foreign corporate activities and subscription rights associated with the shares, and distributes dividends (less applicable taxes and fees) to the ADR holders in dollars. ADRs do not, of course, provide the only available means of foreign stock ownership. For example, United States investors may purchase foreign shares directly and, in instances where a foreign issuer has appointed its own United States transfer agent, purchase United States equity equivalents known as "New York shares." Additionally, for some investors a mutual fund specializing in international markets could provide a substitute for direct stock ownership.

^{12.} United States v. Philadelphia National Bank, 374 U.S. 321, 356 (1963) ("Philadelphia"). In United States v. Phillipsburg National Bank, 399 U.S. 350 (1970), the Court stressed that banks were the only financial institution in which a wide variety of financial products and services were gathered in one place and that this "clustering" of financial products and services facilitated convenient access to them for all banking customers. 399 U.S. at 359.

^{13.} United States v. Phillipsburg Nat'l Bank, 399 U.S. at 361.

^{14.} Market shares are estimated by analyzing the number of transactions performed by these clearing banks, excluding transactions originated by their own affiliates.

^{15.} Under the revised Department of Justice Merger Guidelines, a market in which the post-merger HHI is above 1800 is considered highly concentrated. In such markets, the Department is likely to challenge a merger that increases the HHI by more than 50 points, in the absence of other factors indicating that the merger would not substantially lessen competition.

that clear government securities transfers, including those that are technically unable to meet the clearing requirements of dealers and brokers or that do not choose to provide clearing services to third parties. Under this market definition, IBC and BNY would control 11.7 percent and 15.7 percent of the market, respectively. Upon consummation, BNY would control 27 percent of the market; the four-firm concentration ratio would increase from 57.7 to 63.7 percent; and the HHI would increase from 368 points to 1397.

The Board is inclined to the view that the product market for clearing government securities should include only those depository institutions that clear for third parties, although the Board notes that under the Department of Justice Merger Guidelines, banks that clear only for themselves or affiliates would be included, since these organizations could offer such services to third parties within one year. 16 While this view excludes from the market institutions clearing only for themselves or their affiliates, the Board believes that the presence of these institutions, which include at least five large money-center banks on the fringe of the market, exerts a strong mitigating effect on the potential for a significant reduction in competition in the market.¹⁷ This influence, along with the other mitigating factors described below, would, in the Board's view, be likely to prevent substantial anticompetitive effects from arising as a result of consummation of the proposal.

Although the market for clearing government securities (as defined by IBC) is concentrated, there is substantial competition in the market for customers on the basis of price and quality of service, ¹⁸ and the

market is likely to remain competitive after the proposed acquisition. In this market, a relatively small number of large, sophisticated customers account for a significant portion of the clearing transactions. 19 These large customers promote competition among clearing banks through their ability to move, or threaten to move, their large volume of business to another clearer. In addition, dealers often divide business among clearing banks based on the type of security. Because of these established business relationships and technological interface, changing from one clearing bank to another can be relatively easy. Customers have been successful in promoting competition in this manner because of sensitivity of clearing bank profits to the volume of transactions. Indeed, the significant economies of scale in the government securities clearing business serve to explain the high concentration ratios.

The Board also has considered two other factors that should provide added pressure to ensure that the market remains competitive after consummation of the proposal. Government securities industry participants have recently explored using industry associations to develop a more efficient and cost-effective clearing system, which should result in the reduction of transaction volume handled by the clearing banks. For example, the Government Securities Clearing Corporation ("GSCC"), which is organized by primary dealers and major banks, is developing a computer system to reduce the volume of transactions currently processed by clearing banks through netting the trades among participating brokers and dealers before the trades are cleared by a clearing bank. The resulting decline in demand for clearing bank services should create excess capacity, which should in turn promote competition among clearing banks.

Second, as noted, the potential for *de novo* entry provides a strong force preventing anticompetitive behavior in the market. There are numerous banking organizations large enough to enter the clearing market. For these organizations, entry cost and start-up time do not present insurmountable barriers. The highest estimate in the record, \$25 million, is still relatively small in relation to the resources of most potential entrants. Furthermore, currently available software packages permit *de novo* entrants to begin operations more quickly than if they were required to develop this software in-house. As noted above, there are at least five large money-center banks that clear for

^{16.} If the five large New York City banks that clear for themselves (Citibank, Morgan Guaranty, Bankers Trust, Chase Manhattan and Chemical Bank) were included in the product market, BNY would control, upon consummation, 27.3 percent of the market and the HHI would increase by 598 points to 2118. The Board notes that these five clearing banks are among the nation's largest financial institutions and have in place, or readily available, the personnel and technology to be able to provide within a short period of time clearing services for third parties.

^{17.} While three of these institutions have terminated clearing services for third parties within the last few years, there have been significant improvements in clearing technology since and technology is available through purchase of software packages.

^{18.} The Board notes that significant concentration ratios can be unreliable indicators of actual market behavior, and the prima facie case that is established by such ratios under relevant judicial precedent may be rebutted by a showing that these ratios do not accurately reflect the true economic characteristics of the relevant market. United States v. Marine Bancorporation, 418 U.S. 602, 631 (1973). Accord: Brown Shoe v. United States, 370 U.S. 294, 322 n.38 (1961) (statistics concerning market share are not conclusive, as "only a further examination of the particular market—its structure, history, and probable future—can provide the appropriate setting for judging the probable anticompetitive effect of the merger"); United States v. General Dynamics Corp., 415 U.S. 486, 497–98 (1973); United States v. First National State Bancorporation, 499 F. Supp. 793, 804–805 (D.N.J. 1980) (concentration ratios are useful only as a starting point

of analysis; one must thereafter study actual performance of market participants to determine the competitiveness of the market).

^{19.} Large customers include primary dealers, aspiring primary dealers and the seven interdealer brokers, who are among the major participants in the government securities market.

themselves that could readily provide the same services to third parties should competition in the market falter significantly. ²⁰ If the degree of customer dissatisfaction over price or quality of service is sufficient, potential entrants could be encouraged by commitments by the customer to provide business to the entrant. Finally, past history in this area demonstrates that market participants are able and will take action to reduce costs and improve services.

ADR Services

As with government securities clearing services, IBC and BNY present significantly different market structures for ADRs. IBC defines the market as the number of shares against which each bank has issued ADRs. IBC estimates that the post-merger share would make BNY the second largest participant with a market share of 28 percent.²¹ The four-firm concentration ratio would be 100 percent and the HHI would increase 384 points to 4823.

BNY disputes IBC's definition of the market as being too narrowly limited to the number of foreign shares against which banks issue ADRs. According to BNY, other methods of foreign share ownership, such as direct investments and mutual funds comprised of foreign shares, should be included when defining the applicable market. Under this approach, and assuming that ADRs represented one-third of all foreign shares owned by U.S. investors (an over-estimation according to BNY), the relevant market would be 200 percent larger than IBC projects with an HHI below 1000 and a post-merger change of less than 40 points.

Even if IBC's market definition is accepted, the Board concludes that the number of potential entrants, the ease of entry into the ADR market, the rapid growth in the use of ADRs, as well as the availability of close substitutes for ADRs would preclude consummation of the proposal from substantially lessening competition in the market.

The number of potential entrants into the ADR market is large; major New York banks, other large United States banks with experience in clearing and transfer operations, large foreign banks with a pres-

This volume of business would tend to reduce the concentration

ence in the United States and large brokerage houses are potential entrants into this market. The activities required to offer ADR services are relatively common for the potential entrants.²² ADR marketing requires custodial, depositary transfer agent and lending activities. Custodians to hold the foreign securities underlying the ADRs can be provided without large capital costs through foreign offices or agency agreements with foreign institutions.

To provide ADR services, an entrant must have personnel and a computer system capable of tracking ADR ownership, collecting and converting dividends, exercising rights offerings, controlling pre-release lending²³ and monitoring the lending limits of brokers. These services do not differ materially from the requirements for establishing other securities trading operations and therefore would not constitute a significant barrier to entry into the ADR service market.

A de novo entrant may experience a cost disadvantage in securing sponsored ADRs²⁴ because a foreign company that wishes to convert to sponsored ADRs must pay a cancellation fee to the holders of all previously issued unsponsored ADRs. Banks with large holdings of shares against which unsponsored ADRs have been issued could have a cost advantage over a new entrant because they do not have to pay cancellation fees for the shares they are holding, thus reducing the cost of switching to a sponsored ADR. A new entrant without the benefit of such holdings would be forced to absorb the cancellation fees on an outstanding unsponsored ADR which the issuer of the underlying security has determined to convert to a sponsored ADR. This cost disadvantage is not present when introducing sponsored ADRs that have not previously been traded on an unsponsored basis, however. By aggressively competing for this type of ADR, a de novo entrant can overcome this cost disadvan-

^{20.} Moreover, the Board notes that the true dimension of the government securities clearing market, as proposed by IBC, ignores the fact that a number of nonbanking companies engage in the clearing business even though they ultimately must clear their net positions through a depository institution. The figures supplied by IBC do not include the full volume of clearing business effected by these firms.

figures noted above.
21. On this basis, this market would be dominated by Morgan Guaranty Trust Company of New York with a market share of approximately 63 percent. IBC traditionally has been the second largest firm in the market with a 17 percent market share.

^{22.} For example, a number of banks and other firms issue custody receipts for securities other than foreign securities, including instruments representing interests in the "stripped" U.S. government securities known by acronyms: LIONS, TIGRS, and CATS. The services provided to holders of these receipts are very similar to those provided to holders of ADRs.

^{23.} Pre-release lending occurs when depositaries provide short-term loans that cover the ADR until the actual underlying foreign security is delivered. This process is necessary because foreign countries often do not require the delivery of purchased securities within the same time frame required under United States law.

^{24.} Unsponsored ADRs are issued by a bank without the participation of the company whose securities underlie the receipt. They may be issued by a number of different banks for the same underlying security issue. Sponsored ADRs are issued by only one bank under an agreement with the foreign issuer. Although unsponsored ADRs constitute approximately 75 percent of the market, sponsored ADRs account for an increasing share of all ADRs traded in this country.

tage. The rapid growth of the ADR market²⁵ makes it attractive for entry and entry is presently occurring.26

Finally, the Board notes the availability of a number of substitutes for ADR services for certain types of customers, principally direct investment in foreign shares, particularly by larger financially sophisticated customers and mutual funds with portfolios of foreign securities. As in the case of government clearing services, the immediate customers of ADRs are brokers and similar financially sophisticated customers, who are able to demand competitive prices and services by moving or threatening to move their business to another competitor or potential competitor or utilizing competitive alternatives, such as direct investment for certain types of investors.

For the above reasons, the Board concludes that the proposed transaction would not have a significant adverse effect on competition in government securities clearing and ADR services even assuming these services were considered to constitute distinct product markets. In this regard, the Board has been advised by the Antitrust Division of the U.S. Department of Justice, which has investigated the competitive effect of the proposal, that it has concluded that the proposal would not have a significantly adverse effect on competition.

Financial Factors

In evaluating these applications, the Board has carefully considered the financial resources of the companies and banks involved and the effect on those resources of the proposed acquisition. The Board has stated and continues to believe that capital adequacy is an especially important factor in the analysis of bank holding company expansion proposals, particularly in transactions, such as this, where a major acquisition is proposed.27

In this regard, the Board has stated that it expects banking organizations contemplating expansion proposals to maintain strong capital levels substantially above the minimum levels specified in the Board's Capital Adequacy Guidelines²⁸ without significant reliance on intangibles, particularly goodwill. The Board carefully analyzes the effect of expansion proposals on the preservation or achievement of strong capital levels and has adopted a policy that there should be no significant diminution of financial strength below these levels for the purpose of effecting major expansion proposals.29

The proposed transaction represents a substantial acquisition for BNY that would double its size in terms of total assets and make it one of the nation's largest banking organizations. BNY proposes to acquire all of the outstanding common shares of IBC stock through a stock and cash offer based on a \$60.00 per share value of IBC stock. 30 The cash portion of the purchase amounts to \$264 million and will be funded through the liquidation of \$220 million of investments and the issuance of \$44 million of short-term debt.

While financial projections submitted by the Applicant indicate that the capital ratios of the resulting organization would remain above the minimum levels specified in the Board's Capital Adequacy Guidelines,³¹ the proposal will result in a lessening of the capital strength of the two organizations on a combined basis as a result of the proposed \$264 million payment of a portion of the purchase price in cash. To address these effects, BNY has committed that, at consummation of the acquisition of IBC, its consolidated tangible common equity to assets ratio will equal at least 3.5 percent and that it will achieve a 4.1 percent tangible common equity to assets ratio within one year of consummation.32

These commitments, however, are not fully sufficient to satisfy the Board's policy regarding the avoidance of declines in existing capital levels and the maintenance of strong capital levels in significant bank

^{25.} For example, based on trading volume, as measured by the volume of ADRs traded on NASDAQ, the market increased by 38 percent from 1985 through 1986.

^{26.} For example, the Bankers Trust Company appears to be expanding its involvement in the market. The Board also notes that BNY itself entered the market only four years ago and has accumulated an 11 percent market share.

^{27.} Chemical New York Corporation, 73 FEDERAL RESERVE BUL-LETIN 378 (1987); Citicorp, 72 FEDERAL RESERVE BULLETIN 497 (1986); National City Corporation, 70 FEDERAL RESERVE BULLETIN 743 (1984); Banks of Mid-America, Inc., 70 FEDERAL RESERVE BULLETIN 460 (1984); Manufacturers Hanover Corporation (CIT), 70 FEDERAL RESERVE BULLETIN 452 (1984).

Capital Adequacy Guidelines, 50 Federal Register 16,057 (April 24, 1985).

^{29.} Thus, for example, the Board has generally approved proposals involving a decline in capital only where the applicants have promptly restored their capital to pre-acquisition levels following consummation of the proposals and have implemented programs of capital improvement to raise capital significantly above minimum levels. See, e.g., Citicorp, 72 FEDERAL RESERVE BULLETIN 726 (1986); Security Pacific Corporation, 72 FEDERAL RESERVE BULLETIN 800 (1986). See also Security Banks of Montana, 71 Federal Reserve Bulletin 246 (1985).

^{30.} Each share of IBC common stock will be exchanged for 1.575 shares of BNY's common stock and \$15.00 net to the seller in cash. The total consideration for the acquisition is \$1.1 billion.

^{31.} In analyzing the financial aspects of the proposal, the Board has used financial statements as of December 31, 1987, for both parties, adjusted for projected operations of the organizations through April 30, 1988, BNY's anticipated consummation date, as well as IBC's issuance on February 23, 1988, of approximately \$100 million of cumulative convertible preferred stock.

^{32.} BNY's commitments are based on the deduction of all intangibles from the calculation of this ratio, not only goodwill.

expansion proposals. To achieve full compliance with this policy, particularly given the size of the proposed combination, the Board believes that, in order for BNY to proceed with consummation of its proposal, BNY should support at least 60 percent of the cash outlay required by its proposed purchase through the issuance of an equal amount of new equity capital in the form of common stock or noncumulative, perpetual preferred stock. Moreover, the Board believes that, within six months of consummation of the proposal, the remaining 40 percent of the cash outlay for the purchase should be supported by common stock or perpetual preferred stock. The Board conditions its order on compliance with these capital requirements. The new equity capital BNY must raise to comply with these capital requirements will not be considered in determining whether BNY has complied with its commitment to the Board that at consummation BNY would have a tangible common equity to assets ratio of at least 3.5 percent.

On the basis of these requirements, the capital of the combined organization would be restored to pre-acquisition levels within a short period of time after consummation. The proposal, thus, would be consistent with the Board's capital policy that an expansionary acquisition not interfere with an applicant's ability to maintain a strong capital position above the minimum levels required under the Board's guidelines, without significant reliance on intangibles.

Further, on the basis of these capital requirements, BNY's capital position at consummation would not only be in full compliance with the Board's Capital Adequacy Guidelines but would also be at or above the current average levels of its peer group of the nation's largest banking organizations. The increased capital will serve to offset the goodwill BNY would incur to effect the acquisition and will provide additional capital to cushion the impact of any potentially adverse financial effects raised in an acquisition of this magnitude.³³ These capital requirements fully address IBC's contention that BNY's cash payment to IBC shareholders and the costs of effecting the acquisition will weaken the capital position of the combined organization.

IBC has challenged BNY's pro forma capital ratio commitments on the basis of the purchase accounting adjustments projected by BNY for certain IBC

assets.³⁴ The primary dispute concerns the accounting treatment of IBC's loans to heavily indebted developing countries and IBC's nonperforming loans.³⁵

BNY proposes to write down the value of \$250 million of IBC's debt to heavily indebted developing countries to be sold within one year following consummation to reflect the estimated secondary market value of this debt but proposes to make no further accounting adjustments for the remaining portion of this portfolio or IBC's nonperforming loans. BNY relies on its interpretation of generally accepted accounting principles governing purchase transactions to support its accounting treatment of IBC's loans.

IBC counters with its interpretation of prevailing accounting principles that would require all of its debt to heavily indebted developing countries and nonperforming loans to be written down to current market values. Under these accounting adjustments, additional goodwill would be created thus requiring BNY to raise more capital in absolute terms to achieve its capital ratio commitments.

The Board's requirement for additional capital at and shortly after consummation of the proposal assumes the purchase accounting adjustments submitted by BNY and in the amounts stated in its proposal. As noted, this capital level, higher than that proposed by BNY, was established in part on the basis of the Board's consideration of asset quality and the uncertainties that are naturally raised in an acquisition of this size. Thus, the Board's requirement for a strong tangible equity position takes into account the concerns raised by IBC.

Based on the above considerations, including the capital requirements established by the Board in this Order and the commitments by BNY regarding its tangible common equity to assets ratio at consummation and within 12 months of consummation, and the facts of record, the Board concludes that the financial resources of BNY and the banks and companies involved are consistent with approval of the proposal.

In its application, BNY requested approval for the acquisition of IBC's shares under three different purchase prices, which included variations on the cash and stock portions of the purchase price. BNY also has reserved the right to modify its offer and, as noted, has done so during the pendency of this application.

^{33.} For example, this would allow for any additional costs that BNY might incur in rationalizing the computer systems of the two organizations or offset any reduction in BNY's projected cost savings arising from the acquisition.

^{34.} Accounting adjustments directly impact on these commitments by potentially increasing the amount of goodwill generated by the acquisition and producing a complementary diminution in the capital ratios if all other circumstances remained unchanged.

^{35.} Recent loan loss reserve provisions for the debt to heavily indebted developing countries taken by IBC in the fourth quarter have significantly reduced the quantitative impact of this dispute.

The Board's approval in this Order, however, is limited to the current offer made by BNY for IBC's shares as described in this Order. Accordingly, if BNY further amends or alters the offer, it must consult with the Board to determine whether the amendment is so material, as it relates to the Board's analysis and conclusions under the statutory factors, that it would require a new application or further proceedings before the Board.

Managerial Resources and Future Prospects

The Board has also considered the managerial resources of the companies and banks involved, including those of the combined organization upon consummation, as well as their future prospects, as required under section 3(c) of the Act. At the outset, the Board notes that both organizations have management resources which have established records of positive earnings and operations.

IBC comments that several considerations in the proposal will result in inadequate managerial resources for the combined organization. In its view, disparate technological systems and management philosophies will make it extremely difficult to combine successfully the two organizations. IBC predicts significant employee defection, with an irreplaceable loss of expertise in such key areas as its international operations. Additionally, IBC criticizes BNY's past management record and questions the propriety of the BNY employee pension plan's purchase of BNY stock.

BNY disputes any negative managerial considerations by focusing on its commitment to retain IBC's management personnel after consummation of the transaction. BNY has offered contracts to senior management and has committed to establish a committee comprised of officers from each institution for the purpose of determining staffing decisions for the combined institutions solely on the basis of merit. According to BNY, its decision to foster the goodwill of IBC management and personnel through these commitments significantly reduces potential difficulties involved in merging the two organizations. BNY also defends its past management record and maintains that the pension benefits of its employees were increased by the purchase of BNY stock.

The Board believes that BNY's personnel commitments and the involvement of IBC management in future staffing decisions mitigate potential concerns raised by a consolidation of this magnitude and complexity. Through these commitments, BNY enhances the availability of experienced employees to assist in both the technological and organizational integrations. To the extent that IBC employees voluntarily depart, BNY would have the resources to be able to attract adequate replacement personnel. Further, BNY has demonstrated its ability to manage a large banking organization. The Board finds no evidence to support a finding that BNY's managerial resources are inadequate to undertake the proposal. The Board also finds no evidence that pension fund purchases of BNY stock reflect adversely on the integrity or the managerial ability of BNY.

IBC also questions the future prospects of the combined institutions on the following bases:

- (1) BNY's proposed asset divestitures are necessitated by its commitment to meet capital ratios and will adversely affect IBC's core business operations by significantly weakening its future financial resources;
- (2) disparate IBC technology will make BNY's systems integration difficult, costly and extremely risky; and
- (3) BNY's cost savings projections are unrealistic and ill-conceived.

BNY responds that:

- (1) proposed asset divestitures are based on strategic planning incorporating BNY's greater emphasis
- (2) IBC's and BNY's technological systems are not so dissimilar as to prevent an efficient integration;
- (3) cost savings are based on reasonable projections of employee attrition and more efficient use of present resources.

IBC attributes a loss of core business primarily to BNY's proposed \$1 billion reductions in its interestbearing foreign deposits and foreign short-term loans. Additionally, BNY's proposed reduction in trading assets and federal funds transactions will, according to IBC, impair its current status as a primary dealer thereby making it more difficult to attract foreign institutional customers. The Board finds, however, that BNY's strategic planning differs from IBC's approach in allocating financial resources. In short, BNY does not propose to run IBC's international operations under IBC's business assumptions. Moreover, when these reductions are considered in the context of the combined organization's resources for international operations, there appears to be sufficient flexibility for BNY to make adjustments that may be required if IBC's projections are accurate. BNY also has adequate alternatives for achieving its capital commitments without total reliance on these proposed divestitures.

IBC has alleged in detail the incompatibility of the IBC and BNY technological systems, and although the

extent of the difficulty and costs involved in integrating these systems is in dispute, the Board recognizes that this process is a significant undertaking that requires careful consideration. BNY has committed to devote its internal resources as well as those of outside experts toward extensive analysis and planning before the integration is initiated, and the record in this application does not demonstrate that BNY is unable to undertake this process. The Board recognizes that there may be significant costs in integrating the two systems. However, even if BNY's projected cost savings from the acquisition are totally eliminated, the Board believes that BNY will have sufficient financial resources to meet the challenge of integrating the technological systems, particularly given the level of capital required of BNY in order for it to consummate the acquisition.

IBC states that other BNY costs savings resulting from staff reductions through attrition and reduced office space needs for the combined organizations are unrealistic. The record in this application does not, however, support a finding that BNY's projections on employee attrition are unrealistic.³⁶ Additionally, BNY's decision not to sell immediately IBC's building at 1 Wall Street increases BNY's flexibility to provide sufficient office space for the combined workforce.

Regarding its future prospects, BNY submitted financial projections showing certain cost savings from reduction in salaries, benefits, advertising and marketing, and occupancy. In evaluating the future prospects of the organization, the Board has excluded BNY's projected cost savings (due to their inherently subjective nature and the fact they could be offset by additional expenses in integrating the two organizations, particularly with respect to their data processing systems) and has projected earnings on a more conservative basis than advocated by BNY based upon the historical performance of the two organizations. Even at this level, however, BNY would be able to meet its 4.1 percent tangible common equity commitment, particularly given the Board's requirement for new equity capital to offset the cash portion of the purchase price.³⁷

On the basis of its review of the record, including the organizations' records of earnings and capital improvement, the Board concludes that the managerial resources and future prospects of the companies and banks involved are consistent with approval of the application.³⁸

Convenience and Needs Considerations

IBC contends that the public convenience and needs would not be served by BNY's proposal for the following reasons:

- (1) an increase in concentration in the government securities clearing market would increase operational risks to federal debt financing;
- (2) problems associated with the integration of IBC and BNY would decrease IBC's present quality of service to local communities;
- (3) services to certain local counties would be lost because branches would replace local subsidiary banks; and
- (4) non-negotiated takeovers threaten the public interest.

The Board has carefully considered the potential in this proposal for aggravating the risks posed by the possible operational failure of a major participant in the government securities clearing market. In this regard, BNY has committed to run both BNY's and IBC's clearing systems separately for a considerable period of time while BNY conducts an extensive review and analysis to determine how the systems may be properly integrated. During this period the two systems will be operated as they are now by generally the same personnel. BNY further commits to fully inform the Federal Reserve Bank of New York of its plans and progress and not to effect any consolidation without Federal Reserve Bank approval. Under these circumstances, the Board concludes that the acquisition of IBC's government securities clearing operation is not a negative consideration in this proposal.

The record of this application does not support IBC's second and third concerns. As previously discussed, BNY's personnel plans will minimize any disruption caused by combining the two companies. Similarly, BNY appears to have sufficient financial flexibility to minimize the possibility of any abnormal disruption in customer service when integrating the technological systems. The record is equally unsupportive of IBC's assertion that conversion of current IBC subsidiary banks into branches of BNY would be injurious to the public convenience and needs of certain local New York counties. The Board has never determined that, as a general matter, one form of

^{36.} In light of BNY's personnel commitments, IBC's suggested cost to account for involuntary termination benefits has diminished relevance.

^{37.} The Board has considered growth in assets above that projected by BNY. The Board notes, however, that BNY would be required to limit asset growth to deal with any capital demand that is not met by earnings retention or issuance of additional capital.

^{38.} The Board requires as a condition of approval that BNY submit to the Federal Reserve Bank of New York the names and qualifications of the persons it intends to nominate to the IBC board.

corporate organization provides superior services to the public over the other. In the context of this specific application, the record fails to demonstrate that BNY will be any less able than IBC to serve the public convenience and needs through its branches instead of through individually chartered banks.³⁹ The Board notes that there are in New York and in many areas of United States, large numbers of banking organizations that effectively serve different communities through branch systems rather than through individual banks.

As noted, the Board does not believe the nonnegotiated nature of the proposal in and of itself should be given negative weight in the Board's evaluation under the financial and public convenience and needs criteria Congress has set out in the Act. Moreover, the Board does not believe that the non-negotiated nature of the proposal would, under the facts and circumstances and given the conditions established in this Order, result in adverse effects on the public convenience and needs, or the financial or managerial resources and future prospects of the organizations involved, that would warrant denial under the Act's statutory criteria.

Community Reinvestment Act

In considering the convenience and needs of the community to be served, the Board has taken into account the record of BNY under the Community Reinvestment Act ("CRA") (12 U.S.C. § 2901 et seq.). The CRA requires the federal bank supervisory agencies to encourage financial institutions to help meet the credit needs of the local communities in which they operate, including low- and moderateincome neighborhoods, consistent with the safe and sound operation of the institutions. To accomplish this end, the CRA requires the appropriate supervisory authority to "assess the 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." The Board is required to "take such record into account in its evaluation" of applications under section 3 of the Act.

With regard to BNY's CRA record, the Board received comments from the New York chapter of the Association of Community Organizations for Reform Now ("ACORN") and the United Tenants of Albany ("UTA") (collectively "Protestants") opposing approval of the application. On February 19, 1988, ACORN advised the Board that it had reached a community reinvestment agreement with BNY to strengthen substantially BNY's commitment to help meet the housing credit needs of low- and moderateincome neighborhoods in the City of New York. ACORN further stated that it therefore recommends approval of the proposal.

In accordance with the Board's practice and procedure the Board has reviewed the CRA record of BNY's subsidiary bank, the allegations made by protestants, and BNY's response. 40 The Board notes that while the CRA record of BNY's subsidiary bank ("Bank") has been generally satisfactory, there are certain areas where the Board believes Bank needs to take steps to strengthen its CRA performance. In particular, the Board believes Bank must reassess its local community delineations in the New York City area to ensure that they reflect Bank's lending territory and do not arbitrarily exclude major portions of New York City, including low- and moderate-income neighborhoods.41 In addition, upon consummation, BNY should also take steps to reassess the community delineations for Irving Trust Company to ensure that they reflect that institution's lending territory and do not arbitrarily exclude low- and moderate-income neighborhoods.

Regarding Bank's efforts to ascertain and help meet community credit needs, to participate in community development and to institute appropriate procedures

^{39.} BNY has committed that it will not close any branch acquired from IBC if, as a consequence, any neighborhood previously served by a particular IBC branch is left without a branch of either BNY or

^{40.} Although UTA joined with ACORN's protest of this application, its primary concern was the potential negative impact on banking services in low- and moderate-income neighborhoods in the Albany-Troy SMSA that may be caused by BNY's proposed sale of IBC's bank subsidiary located in this area. To the extent that these concerns are based on a potential lack of effective competition, BNY has committed to sell IBC's subsidiary banks only to purchasers satisfying current Department of Justice competitive guidelines. Other concerns may best be addressed in the context of a specific proposal before the appropriate federal or state regulatory authority required to approve the purchase. Under the relevant statutory criteria that would be applied, the reviewing authority would have to determine that the acquisition would not be competitively harmful, that the acquiror has the financial and managerial resources to manage the institution effectively, and that the convenience and needs of the community would continue to be served by the institution.

Other commentators have viewed BNY's proposed sale of IBC's upstate bank subsidiaries as potentially causing widespread unemployment. There is, however, no evidence that the proposed sales will cause significant unemployment because the purchasers will need personnel to staff offices. Moreover, immediate, significant changes in personnel at these banks would be inconsistent with BNY's announced intent to sell the upstate subsidiaries. Accordingly, BNY's response to these concerns reflects an intent to continue current personnel levels at the bank subsidiaries proposed for divestiture. As noted by the New York State Banking Board, BNY has pledged to attempt to achieve any necessary personnel reductions in the resulting organization through attrition.

^{41.} The Board notes that while Bank's CRA delineations appear too narrow under the standards in the Board's regulations (12 C.F.R. § 228.3), the Board finds no evidence that Bank has discriminated in its lending geographically.

to monitor CRA performance, the Board has considered the action taken by the board of directors of Bank on February 16, 1988, to adopt a formal CRA statement for Bank. The statement pledges Bank's commitment to the goals of CRA and institutes a four-point plan to strengthen Bank's service to its local communities, including low- and moderate-income neighborhoods. In particular, the statement requires Bank to:

- adopt an education and information program for bank officers and employees regarding their responsibilities under CRA and fair lending practices laws, including information regarding Bank's policies regarding loans to small and minority-owned businesses and low- and moderate-income housing;
- designate a lending officer for each of its principal geographical areas who will be responsible for monitoring the availability of Bank's lending programs for small and minority-owned business and low- and moderate-income housing in that area;
- provide specialized training to designated CRA officers to assist Bank's lending employees and officers in connection with specialized government and community development programs directed to low- and moderate-income communities;
- continue Bank's broad-based advertising and marketing programs to inform low- and moderate-income groups and minority communities of Bank's lending programs and services, including making available in branches in New York City and other appropriate areas, marketing and informational materials printed in Spanish as well as English;
- inform itself of community credit needs through a program of periodic meetings with public and private community groups to discuss the credit needs of low-and moderate-income groups and minorities and provide a mechanism by which these communications regarding the community needs are made available to Bank's officers with responsibility in the CRA area;
- develop loan programs responsive to the credit needs of low- and moderate-income neighborhoods, by providing financing for low- and moderate-income housing, small business and commercial real estate projects in its communities consistent with safe and sound banking practices;
- attempt to be flexible in the application of its general underwriting credit criteria within the bounds of prudent lending practices and safe and sound banking operations;

- emphasize home mortgage and home improvement loans for development and rehabilitation of one-to four-family structures, as well as housing development loans for multi-family structures; and
- implement a CRA compliance reporting and monitoring system, with at least quarterly reports by local CRA officers to Bank's CRA compliance officer as well as review of the reports by a CRA committee of Bank's board of directors and the entire board of directors.

The Board believes that Bank's effective implementation of the measures spelled out in this statement will strengthen Bank's CRA performance in the areas noted. In light of this statement, and the other facts of record, including Bank's overall satisfactory CRA record, and subject to Bank's reassessment of its local communities as discussed above, the Board concludes that convenience and needs considerations are consistent with approval.

In order to monitor implementation of Bank's statement, particularly Bank's emphasis on housing-related lending, as well as Bank's reassessment of its local communities in New York City, the Board requires that BNY submit periodically reports to the Federal Reserve Bank of New York describing Bank's progress in these areas beginning six months after consummation of its acquisition and continuing thereafter until the Federal Reserve Bank is satisfied that the statement has been implemented and the reassessment of its communities has been accomplished.

Provisions of New York Law and IBC's Shareholders' Purchase Rights Plan

IBC argues that New York corporate takeover law and IBC's shareholders' rights plan present potential barriers to BNY's contested acquisition of IBC.⁴² Under New York law ('Section 912''),⁴³ a shareholder acquiring more than 20 percent of the stock in a target corporation without the approval of its board of directors may not subsequently merge the two organizations for a minimum period of five years. Similarly, IBC's Shareholders' Purchase Rights Plan permits IBC stockholders to acquire \$400 of BNY's stock after the acquisition for \$200, the current exercise price for the rights, unless these rights are redeemed by IBC's

^{42.} In recognition of these issues, BNY has conditioned its tender offer upon their satisfactory resolution. Other conditions to the tender offer include a valid tendering of at least two-thirds of the total number of outstanding IBC shares on a fully diluted basis, approval by BNY's shareholders, and other appropriate regulatory approvals without material conditions unacceptable to BNY.

^{43.} N.Y. Bus. Corp. Law § 912 (McKinney 1986).

board of directors before a third party acquires 20 percent of IBC's voting shares.44

At the outset, the Board notes that BNY proposes to initiate a tender offer for all of IBC's shares, and has applied to the Board for approval under the Act to acquire the shares tendered. If the tender is successful, IBC's board of directors could reconsider and approve the acquisition of 20 percent or more of IBC's shares or its merger with BNY, thus satisfying Section 912. Similarly, in such a situation, the board of directors may decide to redeem the Shareholders' Purchase Rights Plan.

BNY has presented an alternative proposal to overcome these obstacles, however, in the event IBC's board does not consent to the acquisition. With Board approval under the BHC Act, BNY proposes to initiate a proxy contest at its next annual meeting for control of IBC's board of directors at IBC's next annual shareholders meeting (scheduled for April 21, 1988) and to acquire up to 19.9 percent of IBC's voting shares prior to that time to increase the likelihood of a successful proxy solicitation. If this approach is successful, the newly constituted board could, according to BNY, approve BNY's offer and redeem the shareholders rights before the 20 percent thresholds in Section 912 or the rights plan are triggered. BNY has committed not to elect its nominees to IBC's board, however, unless the nominees constitute at least a majority of the IBC directors.45

IBC challenges BNY's approach under the Depository Institution Management Interlocks Act ("Interlocks Act") (12 U.S.C. § 3201 et seq.) and the Board's decision in NBC Co.46 The Interlocks Act prohibits director interlocks between two nonaffiliated institutions in the same metropolitan statistical area and between large bank holding companies unless an institution is a "subsidiary" for purposes of section 2(d) of the Bank Holding Company Act. 47 In light of BNY's proposal to acquire at least 19.9 percent of IBC's shares and its commitment to elect at least a majority of the IBC board of directors, the Board concludes that the two organizations would become "affiliates" for purposes of the Interlocks Act, and thus the interlocking directors between IBC and BNY would not be prohibited.

IBC also challenges BNY's proposed acquisition under the Board's decision in NBC Co. In that case, the Board denied a bank holding company's application to acquire between 20 to 25 percent of the voting shares of a bank. In NBC Co., the Board stated that, because a single shareholder held over 50 percent of the voting shares of the bank and vigorously opposed the acquisition, the proposal "would only perpetuate or aggravate dissension in Bank's management" without the applicant having any opportunity to obtain control of the bank. 48 The Board also noted that the proposed acquisition in NBC Co. could detract from the overall financial condition of the applicant, which planned to rely on the bank's dividends to service the applicant's acquisition debt.

The Board has considered the effects of BNY's proposed minority ownership position on the management of IBC. In this case, unlike in NBC Co., BNY will become the largest single shareholder of IBC, and its acquisition of a minority interest is a first step in seeking control of IBC. The Board has recently approved the acquisition of a minority interest in a bank holding company "where there is a possibility or likelihood that the applicant will eventually gain control, despite claims by management of possible dissension."49 Moreover, the proposed 19.9 percent

^{44.} Under this plan, holders of the rights are entitled to purchase one share of new IBC common stock for \$200. If IBC is subsequently acquired in a merger or other business combination transaction, or 50 percent or more of its consolidated assets are sold, each holder of an unexercised right is entitled to purchase that number of the acquiror's common shares that have a market value of two times the then-current exercise price.

^{45.} BNY also proposes alternative resolutions to these state law questions, such as litigation to challenge the legality of these provisions or a continuing refusal of IBC's directors to accept the offer. IBC challenges these alternatives by asserting the constitutionality of New York law and the legality of all actions by the IBC board of directors under BNY's view of applicable corporate case law precedent.

Regarding constitutional challenges to state laws, the Board has previously stated that it will not hold a state statute unconstitutional without "clear and unequivocal evidence of the inconsistency of the state law with the federal Constitution." Chemical New York Corporation, 73 FEDERAL RESERVE BULLETIN 609, 610 (1987); Bank of New England Corporation, 70 FEDERAL RESERVE BULLETIN 374, 376 (1984); NCNB Corp., 68 FEDERAL RESERVE BULLETIN 54, 56 (1982); Whitney National Bank in Jefferson Parish v. Bank of New Orleans & Trust Company, 379 U.S. 411, 419 (1965). The Board concludes that Section 912 has not been demonstrated to be unconstitutional under this standard. In any event, the Board finds it unnecessary to resolve the remaining legal issues presented by BNY's alternative proposals. BNY's proposed proxy contest to elect a majority of the IBC board provides a reasonably certain resolution of the issues presented by both of these potential barriers. If BNY is unable to effect its proposal within three months, under the terms of this Order the Board will have the opportunity at that time to reassess BNY's ability to consummate the transaction.

⁶⁰ FEDERAL RESERVE BULLETIN 782 (1974).

Under the relevant alternative tests in the Act, a "subsidiary" is: (i) "any company the election of a majority of whose directors is controlled in any manner by such bank holding company"; or (ii) "any company with respect to the management or policies of which such bank holding company has the power, directly or indirectly, to exercise a controlling influence . . . " 12 U.S.C. § 1841(d).

^{48.} Id. at 784.

^{49.} Crescent Holding Company, 73 FEDERAL RESERVE BULLETIN 457 (1987). See also Lloyds Bank PLC, 72 FEDERAL RESERVE BUL-LETIN 841, 844 (1986). The position taken by IBC could preclude the Board from approving any proposal to acquire less than an absolute majority of the shares of a bank holding company if the management of the bank holding company disapproves the acquisition. Crescent Holding Company at 458; Lloyds Bank PLC at 844.

investment will not impair the financial resources or capital position of BNY, and BNY would not be dependent upon dividends from IBC to meet any debt servicing requirement. Consequently, even if BNY is unsuccessful in its proxy solicitation, this case more closely resembles the facts of several cases approved by the Board, which involved acquisitions by bank holding companies of minority positions in other institutions without the consent of the institutions' management.⁵⁰ The Board finds no evidence in the record that BNY's retention of a 19.9 percent interest in IBC, if BNY's efforts to acquire all of the shares of IBC are unsuccessful, would adversely affect in a significant manner IBC's operations. In this regard, the Board notes that BNY has committed that if it is unsuccessful in electing at least a majority of IBC's board through the proposed proxy solicitation, BNY would not elect any representative to the IBC board. BNY has stated that if it decides to acquire this 19.9 percent interest, it will fund the acquisition with the issuance of new primary capital, thus avoiding any diminution of BNY's capital position. The Board's approval for BNY to acquire these shares, as proposed, is, however, conditioned upon BNY raising common equity in an amount that is at least equal to the cost of these shares. This common equity must be raised within six months following the expiration of the period provided in this Order for BNY to consummate its proposal to acquire 100 percent of IBC, or within six months of any extension of such period by the Board.

Hearing Request

IBC has requested a formal hearing on the application. Section 3(b) of the BHC Act does not require the Board to hold a hearing concerning an application unless the appropriate banking authority for the banks to be acquired makes a timely written recommendation of denial of the application. In this case, no such recommendation of denial has been received from the Comptroller of the Currency or the New York Superintendent of Banks, and thus no hearing is required under the terms of the BHC Act.⁵¹

Further, IBC has been given the opportunity, and has submitted, extensive written facts and arguments to the Board regarding this application. These materials, as well as responses from BNY have not provided any basis to support the belief that the facts already before the Board are incomplete or insufficient to permit the Board to carry out its responsibility under the BHC Act to evaluate the applications under the statutory criteria or that further investigation would produce additional relevant information. The Board is not required to hold a formal hearing where a party disputes the conclusions to be drawn from established facts or where such proceedings would not serve to develop new or useful facts.

IBC asserts several factual disputes, including whether BNY has satisfied the Board's capital adequacy requirements with accurate pro forma financial projections; whether proposed assets sales would adversely affect IBC's business; whether BNY's cost savings estimates are justified; whether the technological systems can be integrated; whether the managerial resources will be sufficient; whether government securities clearance and ADR operations are distinct product markets; and whether the combined institution will serve the needs of the community. These assertions are not designed to dispute facts in the record or even to elicit new facts. Rather than challenging existing facts, these assertions draw into question inferences and conclusions drawn from the factual presentations in the application.⁵² The Board finds that IBC and BNY have had ample opportunity to present evidence and arguments in writing and to respond to one another's submissions and concludes that the parties' extensive written submissions have been an adequate means of clarifying the issues in this case, including the factual questions raised by IBC. A formal hearing is unnecessary to develop new or useful facts and, accordingly, IBC's request for a hearing is denied.

Other Matters

IBC has raised the question regarding the propriety of certain communications between the New York Reserve Bank staff and BNY concerning BNY's pro forma tangible common equity. The record in this case, however, demonstrates that these communications occurred early in the application process, well before the time IBC protested the application. Accordingly, the Board does not regard the communications as ex parte or improper. The Board notes that the existence and substance of these communications were made known to IBC and IBC has commented thereon.

^{50.} Hudson Financial Associates, 72 Federal Reserve Bulletin 151 (1986); See, e.g., City Holding Company, 71 Federal Reserve Bulletin 575 (1985).

^{51. 12} U.S.C. § 1842(b); Farmers & Merchants Bank of Las Cruces v. Board of Governors, 567 F.2d 1082, 1085 (D.C. Cir. 1977); Grandview Bank & Trust Co. v. Board of Governors, 550 F. 2d 415, 421 (8th Cir. 1977); cert. denied, 434 U.S. 821 (1977); and Northwest Bancorporation v. Board of Governors, 303 F.2d 832, 842–44 (8th Cir. 1962).

^{52.} For example, IBC's contentions regarding financial projections and cost savings have been addressed by the Board through the requirement for stronger capital initially.

IBC has questioned the propriety of BNY's supplementation of its application to the Board with copies of Securities and Exchange Commission filings and other materials, instead of restating and refiling the application with the Board. The Board's procedures and practice do not require an applicant to file a new restated application to reflect changes occurring during the application process, but permit the applicant to amend the initial application by letter or other written submissions to reflect the changes. In this case, that practice was followed. BNY's proposal is fully detailed in the initial application (FR Form Y-2) and subsequent amendments filed to reflect changes occurring during the pendency of the application, and BNY has responded fully to all requests by the Board for information regarding the proposal. The Board finds no inadequacies in BNY's amendatory submissions that would impair the Board's ability to evaluate the financial or other relevant aspects of the proposal under the criteria specified in the Act. Accordingly, the Board does not believe that it is necessary or appropriate to require BNY to restate or refile its original application.

Extension of the 90-day Period for Consummation

As discussed at the outset, the Board is concerned that the extension of the post-approval consummation period over a prolonged period in a contested situation could result in adverse effects on the financial and managerial resources of the organizations in a variety of different areas. For example, when ownership of an institution is in doubt over a prolonged period of time, the personnel and financial resources of both the offeror and the target are subject to strain.

Accordingly, the Board has determined not to follow its normal procedure of permitting the appropriate Reserve Bank to extend the 90-day consummation period upon a showing by the applicant of no material change in the facts and circumstances underlying the Board's approval decision. The Board will carefully evaluate any request by BNY to extend the period for consummation of the application in light of bank safety and soundness concerns. The Board would not expect to extend the 90-day period more than once and then only if the Board is satisfied regarding bank safety and soundness considerations and that consummation of the proposal is likely within the extended period.

Nonbanking Acquisitions

BNY also has applied, pursuant to section 4(c)(8), to acquire certain nonbanking subsidiaries of IBC. BNY operates loan production and loan servicing, mortgage banking, equipment lease financing, credit life, accident and health insurance, corporate trust and custody, personal trust and retail discount brokerage subsidiaries that directly compete with IBC and its subsidiaries in these activities. Consummation of the proposal, however, would have a de minimis effect on existing competition in each of these markets and there are numerous competitors for these services. Accordingly, the Board concludes that the proposal would not have any significant adverse effect on existing or probable future competition in any relevant market. Furthermore, there is no evidence in the record to indicate that approval of this proposal would result in undue concentration of resources, decreased or unfair competition, conflicts of interests, unsound banking practices, or other adverse effects on the public interest. Accordingly, the Board has determined that the balance of public interest factors it must consider under section 4(c)(8) of the Act is favorable and consistent with approval of the applications to acquire the nonbanking subsidiaries of IBC.

The Board has also considered the notice of BNY's proposed investment in Irving International Trade Inc., under section 4(c)(14) of the BHC Act and the acquisition of Irving International Financing Corporation under the Edge Act. Based on all the facts of record, the Board has determined that disapproval of the proposed investment is not warranted.

Conclusion

Based on the foregoing and other facts of record, the Board has determined that the applications under sections 3 and 4 of the BHC Act and under the Edge Act should be and hereby are approved. This approval is also subject to the condition that BNY obtain all required state approvals and comply with all conditions and commitments stated in this Order. The acquisition of IBC 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 by the Board.

The determinations as to BNY's nonbanking activities are subject to all of the conditions contained in Regulation Y, including those in section 225.4(d) and 225.23(b)(3) (12 C.F.R. §§ 225.4(d) & 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 the provisions and purposes of the Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

By order of the Board of Governors, effective February 25, 1988.

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

WILLIAM W. WILES Secretary of the Board

APPENDIX

Nonbanking Subsidiaries To Be Acquired

Irving Business Center, Inc., and thereby engage in the business of marketing the lending and leasing products and services of Irving Trust Company; Irving Financial Centers, Inc., and thereby engage in consumer lending and commercial lending to local business; Irving Life Insurance Company, and thereby engage in providing credit-related life, mortgage and health insurance sold in connection with extensions of credit to customers of IBC's bank and nonbank subsidiaries; Irving Securities, Inc., and thereby engage in securities trading activities, including acting as a primary dealer in United States government securities;

Irving Services Corporation, and thereby engage in servicing loans primarily related to credit card purchases and providing data processing services to others; Irving Trust Company California, and thereby engage in providing fiduciary, custody and investment management services; Irving Trust Company Florida, and thereby engage in providing fiduciary, custody and investment management services: One Wall Street Brokerage, Inc., and thereby engage in securities brokerage activities; Briggs, Schaedle Futures Inc., and thereby engage in futures commission merchant for nonaffiliated persons in the execution and clearance of futures contracts and options on futures contracts; Liberty Brokerage, Inc., and thereby engage as interdealer broker of United States government securities; and Irving Leasing Corporation and its twelve subsidiaries (Airlease Incorporated, Airlease Foreign Sales Corporation, IRE-AC Inc., IRE-AC, Parent, Inc., IRE-AC, Subsidiary, Inc., IRE-BC, Inc., IRE-1, Inc., IRE-3, Inc., IRE-4, Inc., Irving Leasing Foreign Sales Corporation, ITC Leasing Corporation and SDM Development Enterprises, Inc.), and thereby engage in leasing personal or real property or acting as agent, broker or advisor in leasing such property. 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), (3), (5), (7), (8), (15), (16), and (18).

ORDERS 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	Bank(s)	Reserve Bank	Effective date	
Anmer Corporation, Neligh, Nebraska	First United Bank, Neligh, Nebraska	Kansas City	February 12, 1988	
Banc One Corporation, Columbus, Ohio	Universal Corporation, Ypsilanti, Michigan	Cleveland	February 16, 1988	
Capital Directions, Inc., Mason, Michigan	Mason State Bank, Mason, Michigan	Chicago	February 22, 1988	
CB&T Bancshares, Inc., Columbus, Georgia	Northwest Florida Banking Corporation, Ouincy, Florida	Atlanta	January 11, 1988	
Central of Kansas, Inc., Junction City, Kansas	The Peoples National Bank of Clay Center, Clay Center, Kansas	Kansas City	February 4, 1988	

Section 3—Continued

Applicant	Applicant Bank(s)		Effective date
Century Financial Corporation, Rochester, Pennsylvania	Century National Bank and Trust Company, Rochester, Pennsylvania	Cleveland	February 23, 1988
Citizens Holdings, Newport Beach, California	El Camino Bancorp, Anaheim, California	San Francisco	February 11, 1988
CNB Financial Corporation, Kansas City, Kansas	First National Bank of Overland Park, Overland Park, Kansas	Kansas City	February 16, 1988
Community Bancorp, Inc., Manchester, Missouri	Three Cities Bancorp, Inc., Manchester, Missouri Second Illinois Bancorp, Inc., Manchester, Missouri Third Illinois Bancorp, Inc., Manchester, Missouri First Bank of Red Bud, N.A., Red Bud, Illinois Citizens State Bank of Pleasant Hill, Pleasant Hill, Illinois Roodhouse National Bank, Roodhouse, Illinois The Winchester National Bank, Winchester, Illinois	St. Louis	January 28, 1988
C.P. Burnett & Sons, Inc., Eldorado, Illinois	C.P. Burnett & Sons, Bankers, Eldorado, Illinois	St. Louis	January 29, 1988
Dominion Bankshares Corporation, Roanoke, Virginia	Citizens Union Corporation, Rogersville, Tennessee	Richmond	February 22, 1988
Dominion Bankshares Corporation, Roanoke, Virginia	Merchants & Planters Corporation, Newport, Tennessee	Richmond	February 18, 1988
Farmers State Holding Company, Marion, South Dakota	Farmers State Bank, Marion, South Dakota	Minneapolis	February 9, 1988
Fidelity BancShares (N.C.), Inc., Fuquay-Varina, North Carolina	The Fidelity Bank, Fuquay-Varina, North Carolina	Richmond	February 11, 1988
First Bancorp of Louisiana, Inc., Employee Stock Ownership Plan, West Monroe, Louisiana	First Bancorp of Louisiana, Inc., West Monroe, Louisiana	Dallas	February 2, 1988
First Commerce Corporation, New Orleans, Louisiana	First Commercial Bancshares, Inc., Chalmette, Louisiana	Atlanta	February 9, 1988
First Farmers Financial Corporation, Converse, Indiana	First Farmers National Bank, Converse, Indiana	Chicago	February 19, 1988
First National Agency of Baudette, Inc., Baudette, Minnesota	Blackduck State Bank, Blackduck, Minnesota	Minneapolis	February 2, 1988
First National Financial Corporation, Mt. Pulaski, Illinois	The First National Bank of Mt. Pulaski, Mt. Pulaski, Illinois	Chicago	January 29, 1988

Section 3—Continued

Applicant	Bank(s)	Reserve Bank	Effective date
First National Massillon Corporation, Massillon, Ohio	The First National Bank in Massillon, Massillon, Ohio	Cleveland	February 8, 1988
First United Corporation, Oakland, Maryland	The First National Bank of Piedmont, Piedmont, West Virginia	Richmond	February 11, 1988
First West Virginia Bancorp, Inc., Wheeling, West Virginia	Farmers and Merchants National Bank in Bellaire, Bellaire, Ohio	Cleveland	January 29, 1988
First Woburn Bancorp, Inc., Woburn, Massachusetts	Woburn Five Cents Savings Bank, Woburn, Massachusetts	Boston	February 1, 1988
FSB Bancorp, Show Low, Arizona	Frontier State Bank, Show Low, Arizona		February 5, 1988
Harrison Bankshares, Inc., Lost Creek, West Virginia	The Harrison County Bank, Lost Creek, West Virginia	Richmond	February 17, 1988
Independent Community Bancorp, Inc., Frankfort, Kentucky	Kentucky Independent Bank, Inc., Frankfort, Kentucky	St. Louis	February 17, 1988
Jasand, Inc., Cedar Rapids, Iowa	City National Bank of Cedar Rapids, Cedar Rapids, Iowa	Chicago	February 4, 1988
Lake City Bancorporation, Lake City, Iowa	Lake City State Bank, Lake City, Iowa	Chicago	February 5, 1988
Liberty National Bancorp, Inc., Louisville, Kentucky	The Bank of Elizabethtown, Inc., Elizabethtown, Kentucky	St. Louis	February 23, 1988
Lincoln Financial Corporation, Fort Wayne, Indiana	WABANC, Inc., Wabash, Indiana	Chicago	February 25, 1988
Logan Bancshares, Inc., Logan, Kansas	The First National Bank of Logan, Logan, Kansas	Kansas City	February 19, 1988
Market Place Bancshares, Inc., Champaign, Illinois	Market Place National Bank, Champaign, Illinois	Chicago	February 19, 1988
NCB Corp., Culver, Indiana	NorCen Bank, Culver, Indiana	Chicago	February 22, 1988
Ormside Proprietary Limited, Melbourne, Australia Overseas Finance Holdings Proprietary Limited, Melbourne, Australia Aylworth Proprietary Limited, Melbourne, Australia Costa Mesa Limited, London, England Costa Mesa Holding N.V., Curacao, Netherlands Antilles Citizens Financial Holdings, B.V., Amsterdam, Netherlands	El Camino Bank, Anaheim, California		February 11, 1988
Orrstown Financial Services, Inc., Orrstown, Pennsylvania	Orrstown Bank, Orrstown, Pennsylvania	Philadelphia	February 5, 1988

Section 3—Continued

Applicant	Bank(s)	Reserve Bank	Effective date
PBT Bancshares, Inc., McPherson, Kansas	Peoples Bank and Trust Company, McPherson, Kansas	Kansas City	January 29, 1988
Premier Bancorporation, Inc., Jackson, Michigan	Michigan Bank-Midwest, Jackson, Michigan Michigan Bank - Mid South, Litchfield, Michigan	Chicago	February 3, 1988
Sea Island Bankshares, Inc., Statesboro, Georgia	Sea Island Bank, Statesboro, Georgia	Atlanta	February 17, 1988
Southold Bancorp, Inc., Southold, New York	Southold Savings Bank, Southold, New York	New York	February 22, 1988
T & C Bancorp, Inc., Lewistown, Missouri	LaBelle Bancshares, Inc., LaBelle, Missouri Great River Bancshares, Inc., La Grange, Missouri	St. Louis	February 19, 1988
Unibancorp, Inc., Chicago, Illinois	The Farmers State Bank of Lostant, Lostant, Illinois	Chicago	February 10, 1988

Section 4

Applicant	Nonbanking Company/Activity	Reserve Bank	Effective date
Bank of Boston Corporation, Boston, Massachusetts	First Trust Company of Florida, National Association, Sarasota, Florida	Boston	January 29, 1988
Business Bancorp, San Jose, California	provide data processing services throughout the state of California	San Francisco	February 19, 1988
CoreStates Financial Corp., Philadelphia, Pennsylvania	First Interstate Commercial Corporation, Pasadena, California	Philadelphia	February 8, 1988
Lane Financial, Inc., Northbrook, Illinois	Lane Data Services, Inc., Northbrook, Illinois	Chicago	February 5, 1988
MCorp, Dallas, Texas MCorp Financial, Inc., Wilmington, Delaware	Security Courier Corporation, Carrollton, Texas acquire certain additional assets and certain liabilities of related companies	Dallas	February 9, 1988
Paducah Bank Shares, Inc., Paducah, Kentucky	assets of Commonwealth Financial Services Corporation, Bowling Green, Kentucky	St. Louis	January 29, 1988

Sections 3 and 4

Applicant	Bank(s)/Nonbanking Company	Reserve Bank	Effective date
AmSouth Bancorporation, Birmingham, Alabama	Gulf First Holding Corporation, Panama City, Florida ATM Network, Inc., Panama City, Florida	Atlanta	February 18, 1988
Carlson Bankshares, Inc., Comfrey, Minnesota	First State Bank of New London, New London, Minnesota New London Agency, Inc., New London, Minnesota	Minneapolis	February 25, 1988
Sioux National Company, Lincoln, Nebraska	Security State Bank, Holbrook, Nebraska engage in the sale of general insurance in a town with a population of less than 5,000	Kansas City	February 19, 1988

ORDERS APPROVED UNDER BANK MERGER ACT

By Federal Reserve Banks

Applicant	Bank(s)	Reserve Bank	Effective date
Farmer & Merchants Bank and Trust Company, Aberdeen, South Dakota	Bank of Cresbard, Cresbard, South Dakota	Minneapolis	February 3, 1988
Farmers State Bank of Alpha, Alpha, Illinois	Bank of Viola, Viola, Illinois	Chicago	February 18, 1988

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.

National Association of Casualty and Surety Agents, et al., v. Board of Governors, Nos. 87–1644, 87–1801, 88–1001 (D.C. Cir., filed Nov. 4, Dec. 21, 1987, Jan. 4, 1988).

Securities Industry Association v. Board of Governors, No. 87-4161 (2d Cir., filed Dec. 15, 1987).

Independent Insurance Agents of America, Inc. v. Board of Governors, No. 87-1686 (D.C. Cir., filed Nov. 19, 1987).

Teichgraeber v. Board of Governors, No. 87-2505-0 (D. Kan., filed Oct. 16, 1987).

Securities Industry Association v. Board of Governors, No. 87-4135 (2d Cir., filed Oct. 8, 1987).

Independent Insurance Agents of America, Inc. v. Board of Governors, No. 87-4118 (2d Cir., filed Sept. 17, 1987).

Citicorp v. Board of Governors, No. 87-1475 (D.C. Cir., filed Sept. 9, 1987).

Securities Industry Association v. Board of Governors, No. 87-4115 (2d Cir., filed Sept. 9, 1987).

Barrett v. Volcker, No. 87-2280 (D.D.C., filed Aug. 17, 1987).

Northeast Bancorp v. Board of Governors, No. 87-1365 (D.C. Cir., filed July 31, 1987).

- National Association of Casualty & Insurance Agents v. Board of Governors, Nos. 87-1354, 87-1355 (D.C. Cir., filed July 29, 1987).
- The Chase Manhattan Corporation v. Board of Governors, No. 87-1333 (D.C. Cir., filed July 20, 1987).
- Securities Industry Association v. Board of Governors, Nos. 87-4091, 87-4093, 87-4095 (2d Cir., filed July 1 and July 15, 1987).
- Lewis v. Board of Governors, Nos. 87-3455, 87-3545 (11th Cir., filed June 25, Aug. 3, 1987).
- Securities Industry Association v. Board of Governors, et al. No. 87-4041 and consolidated cases (2d Cir., filed May 1, 1987).
- Securities Industry Association v. Board of Governors, et al., No. 87-1169 (D.C. Cir., filed April 17, 1987).
- Independent Insurance Agents of America, et al. v. Board of Governors, Nos. 86-1572, 1573, 1576 (D.C. Cir., filed Oct. 24, 1986).

- Independent Community Bankers Association of South Dakota v. Board of Governors, No. 86-5373 (8th Cir., filed Oct. 3, 1986).
- Jenkins v. Board of Governors, No. 86-1419 (D.C. Cir., filed July 18, 1986).
- CBC, Inc. v. Board of Governors, No. 86-1001 (10th Cir., filed Jan. 2, 1986).
- Urwyler, et al. v. Internal Revenue Service, et al., No. 85-2877 (9th Cir., filed July 18, 1985).
- Wight, et al. v. Internal Revenue Service, et al., No. 85-2826 (9th Cir., filed July 12, 1985).
- Brown v. United States Congress, et al., No. 84-2887-6(IG) (S.D. Cal., filed Dec. 7, 1984).
- Melcher v. Federal Open Market Committee, No. 86-5692 (D.C. Cir., filed April 30, 1984).

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

	Monetary and credit aggregates (annual rates of change, seasonally adjusted in percent) ¹									
Item		19	87 ^r			19	87′		1988	
	Q1	Q2	Q3	Q4	Sept.	Oct.	Nov.	Dec.	Jan.	
Reserves of depository institutions ² 1 Total	16,4 16,5 18,5 11,1	8.0 8.4 5.4 6.9	-1.6 5 4 5.1	1.4 .3 1.2 7.7	-1.0 4.0 -7.2 6.0	13.9 7.1 14.1 11.0	-10.4 -6.4 -4.0 6.9	-11.4 -13.8 -14.7 3.1	18.4 13.0 12.2 16.7	
Concepts of money, liquid assets, and debt ⁴ 5 M1. 6 M2. 7 M3. 8 L 9 Debt	13.2 6.5 6.5 6.1 10,5	6.6 2.6 4.7 4.1 8.7	.8 2.8 4.5 4.2 8.1	3.9 4.0 5.5 6.1 9.7	1.6 4.7 5.0 7.0 9.0	14.0 6.0 7.5 8.4 10.1	~5.6 1.0 4.9 3.9 11.3	-3.0 1.8 1.5 1.9 8.1	12.9 9.8 8.5 n.a. n.a.	
Nontrgnsaction components 10 In M2* 11 In M3 only ⁶	4,2 6,7	1.2 13.2	3.5 11.1	4.0 11.5	5.8 6.0	3.2 13.4	3.3 20.0	3.5 .3	8.7 3.9	
Time and savings deposits Commercial banks	35.2 -5.6 8.7 25.4 -4.2	22.4 -2.7 17.1 19.2	10.1 7.4 6.8 7.0 9.3	.7 14.8 10.5 -3.8 16.0	2.7 5.2 3.8 2.5 11.3	-2.0 19.2 14.1 -7.0 12.6	-1.3 23.7 18.1 -9.1 25.9	.0 9.4 4.5 -4.1	5.4 10.6 -12.6 -3.1 19.1	
17 Large-denomination time* Debt components* 18 Federal	-12.6 12.2 10.0 10.4	8.8 8.7 8.2	5.9 8.8 6.2	7.5 10.4 5.8	6.5 9.8 8.6	3.9 12.0 7.0	12.6 10.9 2.6	8.0 8.1 ~1.0	n.a. n.a. 5.9	

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

1. Unless otherwise noted, rates of change are calculated from average amounts outstanding in preceding month or quarter.

2. Figures incorporate adjustments for discontinuities associated with the implementation of the Monetary Control Act and other regulatory changes to reserve requirements. To adjust for discontinuities due to changes in reserve requirements on reservable nondeposit liabilities, the sum of such required reserves is subtracted from the actual series. Similarly, in adjusting for discontinuities in the monetary base, required clearing balances and adjustments to compensate for float also are subtracted from the actual series.

3. The monetary base, required clearing balances and adjustments to compensate for float at Federal Reserve Banks plus the currency component of the money stock less the amount of vault cash holdings of thrift institutions that is included in the currency component of the money stock plus, for institutions not having required to satisfy current reserve requirements. After the introduction of contemporaneous reserve requirements (CRR), currency and vault cash over the amount applied to satisfy current reserve of ending Monday.

Before CRR, all components of the monetary base other than excess reserves are added on a not seasonally adjusted basis. After CRR, the seasonally adjusted as a whole, rather than by component, and excess reserves are added on a not seasonally adjusted basis, plus the seasonally adjusted excess reserves on a not seasonally adjusted basis, plus the seasonally adjusted currency component of the money stock plus the remaining items seasonally adjusted to the remaining ite

adjusted as a whole.

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

M1: (1) currency outside the Treasury, Federal Reserve Banks, and the vaults of depository institutions: (2) travelers checks of nonbank issuers; (3) demand deposits at all commercial banks other than those due to depository institutions, the U.S. government, and foreign banks and official institutions less cash items in the process of collection and Federal Reserve float; and (4) other checkable deposits (OCD) 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 (RPs) issued by all commercial banks and overnight Eurodollars issued to U.S. residents by foreign branches of U.S. banks worldwide, Money Market Deposit Accounts (MMDAs), savings and small-denomination time deposits (time deposits—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 individual retirement accounts (IRA) and Keogh balances at depository

institutions and money market funds. Also excludes all balances held by U.S.

institutions and money market funds. Also excludes all balances held by U.S. commercial banks, money market funds (general purpose and broker-dealer), foreign governments and commercial banks, and the U.S. government.

M3: M2 plus large-denomination time deposits and term RP liabilities (in amounts of \$100,000 or more) issued by commercial banks and thrift institutions, term Eurodollars held by U.S. residents at foreign branches of U.S. banks worldwide and at all banking offices in the United Kingdom and Canada, and 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.

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, consumer credit (including bank loans), other bank loans, commercial paper, bankers acceptances, and other debt instruments. The source of data on domestic nonfinancial debt is the Federal Reserve Board's flow of funds accounts. Debt data are based on monthly averages. Growth rates for debt reflect adjustments for discontinuities over time in the levels 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 less the estimated amount of demand deposits and vault cash held by thrift institutions to service their time and savings deposit liabilities.

6. Sum of large time deposits, term RPs, and Eurodollars of U.S. reside

- 11. Changes calculated from figures shown in table 1.23.

Domestic Financial Statistics April 1988

1.11 RESERVES OF DEPOSITORY INSTITUTIONS AND RESERVE BANK CREDIT

Millions of dollars

		nthly average daily figures			Weekl	y averages o	of daily figur	es for week	ending		
Factors	19	987	1988		1987			19	988		
	Nov.	Dec.	Jan.	Dec. 16	Dec. 23	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27	
SUPPLYING RESERVE FUNDS											
l Reserve Bank credit	240,088	245,975	246,090	245,050	244,657	247,325	251,166	247,132	244,506	244,769	
2 U.S. government securities ¹	214,695 213,706 989 7,956	219,761 218,734 1,027 8,062	219,855 219,069 786 7,806	219,006 219,006 0 7,558	219,179 219,179 0 7,556	220,447 218,704 1,743 8,529	222,278 219,272 3,006 8,616	220,074 219,578 496 7,815	218,734 218,734 0 7,534	219,489 218,988 501 7,627	
6 Bought outright	7,567 389	7,559 503	7,503 303	7,558	7,556 0	7,555 974	7,553 1,063	7,553 262	7,534	7,423 204	
8 Acceptances. 9 Loans 10 Float 11 Other Federal Reserve assets 12 Gold stock ² .	0 610 866 15,961 11,084	836 1,545 15,771 11,080	1,028 1,784 15,617 11,074	875 1,942 15,668 11,081	586 1,123 16,212 11,080	755 1,580 16,013 11,079	2,908 1,224 16,141 11,078	981 2,737 15,524 11,076	593 1,855 15,790 11,074	0 422 1,464 15,767 11,071	
13 Special drawing rights certificate account 14 Treasury currency outstanding	5,018 18,102	5,018 18,153	5,018 18,205	5,018 18,148	5,018 18,158	5,018 18,168	5,018 18,179	5,018 18,193	5,018 18,207	5,018 18,221	
Absorbing Reserve Funds											
Currency in circulation	223,078 471	227,366 454	226,414 441	226,447 454	227,673' 453'	229,747 ^r 452 ^r	229,919 446	227,843 438	225,981 446	224,244 436	
17 Treasury	3,755 299	4,209 233	5,774 274	4,817 233	4,219 240	3,719 192	5,031 263	3,871 235	2,521 347	8,941 226	
19 Service-related balances and adjustments	2,063 374	2,168 366	2,233 432	2,128 321	1,960 326	2,269 377	2,286 909	2,278 254	2,101 329	2,697 383	
21 Other Federal Reserve liabilities and capital	7,418	7,443	7,432	7,306	7,270	7,468	7,201	7,522	7,548	7,618	
22 Reserve balances with Federal Reserve Banks ³	36,834	37,986	37,389	37,591	36,772	37,366	39,386	38,981	39,533	34,534	
	End	-of-month fi	gures			We	dnesday figi	ıres			
	19	987	1988		1987			19	88		
	Nov.	Dec.	Jan.	Dec. 16	Dec. 23	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27	
SUPPLYING RESERVE FUNDS											
23 Reserve Bank credit	245,472	251,883	242,517	245,729	244,963	250,948	248,914	246,529	249,362	245,867	
24 U.S. government securities	218,960 213,563	222,551 218,906	218,411 218,411	216,715 216,715	219,049 219,049	222,383 218,549	220,983 218,863	219,332 219,332	218,442 218,442	220,282 218,892	
27 Federal agency obligations	5,397 9,844	3,645 8,869	7,423	7,556	7,556	3,834 9,349	2,120 8,429	7,553	7,423	1,390 8,034	
28 Bought outright	7,567 2,277	7,553 1,316	7,423	7,556	7,556	7,553 1,796	7,553 876	7,553	7,423	7,423 611	
30 Acceptances	0 790	3,815	0 333	0 836	0 492	0 951	0 749	0 2,717	0 450	0 363	
32 Float	428 15,450	811 15,837	396 15,954	4,560 16,062	1,951 15,915	2,011 16,254	2,830 15,923	1,204 15,723	7,381 15,666	943 16,245	
34 Gold stock ²	11,082 5,018	11,078 5,018	11,068 5,018	11,081 5,018	11,079 5,018	11,078 5,018	11,077 5,018	11,075 5,018	11,072 5,018	11,071 5,018	
36 Treasury currency outstanding	18,127	18,177	18,233	18,157	18,167	18,177	18,191	18,205	18,219	18,233	
ABSORBING RESERVE FUNDS 37 Currency in circulation	225,090 465	230,213 ^r 446 ^r	223,188 438	226,881 ^r 453 ^r	229,226 ^r 452 ^r	230,403 ^r 451 ^r	229,065 446	227,031 448	225,640 436	223,650 437	
39 Treasury	3,594 352	5,313 244	10,276 355	9,036 270	2,992 215	4,773 207	4,098 237	3,421 212	3,859 231	9,481 220	
adjustments	1,717 450	1,687 1,027	1,674 315	1,699 359	1,697 293	1,699 364	1,687 284	1,687 289	1,681 358	1,677 383	
43 Other Federal Reserve liabilities and	7,968	7,129	6,926	7,095	7,096	7,453	7,376	7,438	7,300	7,459	
capital	7,700	7,127	0,740	7,075	7,020	1,400	1,570	7,436	7,300	1,439	

^{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. Revised for periods between October 1986 and April 1987. At times during this interval, outstanding gold certificates were inadvertently in excess of the gold

stock. Revised data not included in this table are available from the Division of Research and Statistics, Banking Section.

3. Excludes required clearing balances and adjustments to compensate for float.

NOTE. For amounts of currency and coin held as reserves, see table 1.12.

1.12 RESERVES AND BORROWINGS Depository Institutions

Millions of dollars

					Monthly	averages ⁸				
Reserve classification	1985	1986	1987		_		1987			
	Dec.	Dec.	Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 Reserve balances with Reserve Banks ¹ 2 Total vault cash ² 3 Vault ³ 4 Surplus ⁴ 5 Total reserves ⁵ 6 Required reserves 7 Excess reserve balances at Reserve Banks ⁶ 8 Total borrowings at Reserve Banks 9 Seasonal borrowings at Reserve Banks 10 Extended credit at Reserve Banks ⁶	27,620 22,953 20,522 2,431 48,142 47,085 1,058 1,318 56 499	37,360 24,079 22,199 1,879 59,560 58,191 1,369 827 38 303	37,673 26,155 24,449 1,706 62,123 61,094 1,029 777 93 483	36,309 24,369 22,475 1,893 58,784 57,594 1,190 776 259 273	36,110 24,613 22,728 1,885 58,838 58,078 761 672 283 194	35,616 24,644 22,745 1,899 58,361 57,329 1,032 647 279 132	36,685 24,854' 23,128 1,726' 59,813 59,020 793 940 231 409	37,249 25,587' 23,857 1,730' 61,106 59,977 1,129' 943' 189 449	37,453 25,431 23,752 1,679 61,205 60,282 923 625 126 394	37,673 26,155 24,449 1,706 62,123 61,094 1,029 777 93 483
					ages of dail	y figures fo	weeks end			
			19	87				19	88	
	Oct. 21	Nov. 4	Nov. 18	Dec. 2	Dec. 16	Dec. 30	Jan. 13	Jan. 27	Feb. 10	Feb. 24
11 Reserve balances with Reserve Banks ¹ 12 Total vguit cash ² 13 Vault ³ 14 Surplus ⁴ 15 Total reserves ³ 16 Required reserves 17 Excess reserve balances at Reserve Banks ⁶ 18 Total borrowings at Reserve Banks 19 Seasonal borrowings at Reserve Banks 20 Extended credit at Reserve Banks	36,672 26,183 24,410 1,773 61,082 60,115 967 1,007 183 482	38,353 25,174 23,464 1,710 61,817 60,256 1,561 677 169 390	37,525 25,188 23,622 1,566 61,147 60,665 492 561 125 334	37,069 25,802 23,999 1,803 61,068 59,855 1,213 683 114 465	38,272 25,372 23,824 1,549 62,095 60,890 1,206 815 83 653	37,055 26,960 25,105 1,855 62,160 61,354 806 671 102 316	39,175 26,566 24,937 1,629 64,112 62,805 1,307 1,945 66 485	37,002 26,533 24,840 1,694 61,842 60,554 1,288 508 54 332	33,691 29,417 26,965 2,452 60,656 59,368 1,288 287 55	34,087 27,954 25,673 2,282 59,759 58,688 1,071 425 77 232

^{1.} Excludes required clearing balances and adjustments to compensate for

computation period by institutions having required reserve balances at Federal Reserve Banks plus the amount of vault cash equal to required reserves during the maintenance period at institutions having no required reserve balances.

6. Reserve balances with Federal Reserve Banks plus vault cash used to satisfy

^{1.} Excludes required clearing balances and adjustments to compensate of float.

2. Dates refer to the maintenance periods in which the vault cash can be used to satisfy reserve requirements. Under contemporaneous reserve requirements, maintenance periods en al 30 days after the lagged computation periods in which the balances are held.

3. Equal to all vault cash held during the lagged computation period by institutions having nequired reserve balances at Federal Reserve Banks plus the amount of vault cash equal to required reserves during the maintenance period at institutions having no required reserve balances.

4. Total vault cash at institutions having no required reserve balances less the amount of vault cash equal to their required reserves during the maintenance period.

period.

5. Total reserves not adjusted for discontinuities consist of reserve balances with Federal Reserve Banks, which exclude required clearing balances and adjustments to compensate for float, plus vault cash used to satisfy reserve requirements. Such vault cash consists of all vault cash held during the lagged

reserve requirements less required reserves.

7. Extended credit consists of borrowing at the discount window under the 7. 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.

8. Before February 1984, data are prorated monthly averages of weekly averages; beginning February 1984, data are prorated monthly averages of biweekly averages.

Note. These data also appear in the Board's H.3 (502) release. For address, see inside front cover.

A6 Domestic Financial Statistics April 1988

1.13 SELECTED BORROWINGS IN IMMEDIATELY AVAILABLE FUNDS Large Member Banks¹

Averages of daily figures, in millions of dollars

	1987 week ending Monday								
Maturity and source	Aug. 10	Aug. 17	Aug. 24	Aug. 31	Sept. 7	Sept. 14	Sept. 21	Sept. 28	Oct. 5
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 From other depository institutions, foreign banks and foreign official institutions, and United States government agencies For one day or under continuing contract.	72,747 9,252 32,923	71,952 8,970	69,808 9,098 30,368	70,480 9,442 30,994	75,786 9,171 29,160	75,048 8,848 30,085	70,262 8,888 27,159	66,374 9,170 25,696	74,386 8,209
For all other maturities Repurchase agreements on U.S. government and federal agency securities in immediately available funds Brokers and nonbank dealers in securities	6,753	6,517	6,387	6,622	.6,160	6,560	6,895	6,773	5,978
5 For one day or under continuing contract 6 For all other maturities	13,744 12,363	12,715 12,546	12,756 13,455	13,002 13,619	13,332 13,880	13,966 13,827	13,289 15,032	13,685 15,720	15,505 12,059
7 For one day or under continuing contract 8 For all other maturities	27,417 8,165	27,613 8,550	27,496 9,188	27,128 9,657	26,288 9,120	26,501 9,036	26,808 8,943	26,957 8,891	27,240 8,054
Memo: Federal funds loans and resale agreements in immediately available funds in maturities of one day or under continuing contract To commercial banks in the United States	30,410 12,886	29,547 11,853	28,622 13,676	29,053 14,024	30,568 14,062	28,193 14,067	30,303 14,172	29,348 14,600	33,209 14,751

^{1.} Banks with assets of \$1 billion or more as of Dec. 31, 1977.

^{2.} 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

Current and	PRAIRIONS	larrate

	A	djustment cred	lit		Extended credit ²										
Federal Reserve Bank		and Seasonal credit		First	30 days of bori	rowing		After 30 days of borrowing ³							
	On 2/24/88	Effective date	Previous rate	On 2/24/88	Effective date	Previous rate	On 2/24/88	Effective date	Previous rate	Effective date					
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	6	9/9/87 9/4/87 9/4/87 9/4/87 9/5/87 9/4/87 9/4/87 9/9/87 9/11/87 9/9/87	51/2 51/2	6	9/9/87 9/4/87 9/4/87 9/4/87 9/5/87 9/4/87 9/4/87 9/8/87 9/4/87 9/11/87 9/9/87	51/2	7.10	2/11/88 2/11/88 2/11/88 2/11/88 2/11/88 2/11/88 2/11/88 2/11/88 2/11/88 2/11/88 2/11/88 2/11/88	7.30	1/28/88 1/28/88 1/28/88 1/28/88 1/28/88 1/28/88 1/28/88 1/28/88 1/28/88 1/28/88 1/28/88 1/28/88					

Range of rates for adjustment credit in recent years4

Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.
In effect Dec. 31, 1977	6 6-6½ 6½ 6½-7 7 7-7¼ 7¼	6 6½ 6½ 7 7 7¼ 7¼	1980—July 28 Sept. 26 Nov. 17 Dec. 5 1981—May 5	10-11 10 11 12 12-13	10 10 11 12 13	1984—Apr. 9	8½-9 9 8½-9 8½ 8	9 9 8½ 8½ 8½ 8
Aug. 21 Sept. 22 Oct. 16 20 Nov. 1	73/4 8 8-81/2 81/2 81/2-91/2 91/2	73/4 8 81/2 81/2 91/2 91/2	Nov. 2	14 13-14 13 12 11½-12 11½	14 13 13 12 11½	24	7½ 7-7½ 7-7½ 7 6½-7 6 5½-6	7 /2 7 7 6 /2 6 5 /2
1979—July 20	10 10-10½ 10½ 10½-11 11 11-12 12	10 10½ 10½ 11 11 11 12	Aug. 2 3	11-11½ 11 10½ 10-10½ 10 9½-10 9½ 9-9½	11 11 10½ 10 10 9½ 9½	1987—Sept. 4	5½ 5½-6 6	5½ 6 6 6
1980—Feb. 15	12-13 13 12-13 12 11-12	13 13 13 12 11	Nov. 22	9-9/2 9 81/2-9 81/2-9 81/2	9 9 8½ 8½ 8½			

^{1.} Adjustment credit is available on a short-term basis to help depository

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.

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.

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 4 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 reduced and a calendar quarter to a formula for applying the surcharge was changed from a calendar quarter to a moving 13-week period. The surcharge was eliminated on Nov. 17, 1981.

^{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 credit. The program was reestablished on Feb. 18, 1986 and again on Jan. 28, 1987; the rate may be either the same as that for adjustment credit or a fixed rate ½ percent higher.

^{2.} Extended credit is available to depository institutions, where 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

^{3.} For extended-credit loans outstanding more than 30 days, a flexible rate

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1.15 RESERVE REQUIREMENTS OF DEPOSITORY INSTITUTIONS¹

Percent of deposits

Type of deposit, and deposit interval ²	Depository institution requiremen after implementation of the Monetary Control Act			
deposit interval	Percent of deposits	Effective date		
Net transaction accounts ^{3,4} \$0 million-\$40.5 million. More than \$40.5 million.	3 12	12/15/87 12/15/87		
Nonpersonal time deposits ⁵ By original maturity Less than 1년 years 1½ years or more.	3 0	10/6/86 10/6/83		
Eurocurrency liabilities All types	3	11/13/80		

^{1.} Reserve requirements in effect on Dec. 31, 1987. Required reserves must be held in the form of deposits with Federal Reserve Banks or vault cash. Nonmembers 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 and of the FEDERAL RESERVE BULLETIN. Under provisions of the Monetary Control Act, depository institutions include commercial banks, mutual savings banks, savings and loan associations, credit unions, agencies and branches of foreign banks, and Edge corporations. corporations

other transaction accounts, the exemption applies only to such accounts that would be subject to a 3 percent reserve requirement.

would be subject to a 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

deposits subject to time deposit reserve requirements).

4. The Monetary Control Act of 1980 requires that the amount of transaction accounts against which the 3 percent reserve requirement applies be modified

accounts against which the 3 percent reserve requirement applies be modified annually by 80 percent of the percentage increase in transaction accounts held by all depository institutions, determined as of June 30 each year. Effective Dec. 15, 197 for institutions reporting quarterly and Dec. 29, 1987 for institutions reporting weekly, the amount was increased from \$36.7 million to \$40.5 million.

5. In general, nonpersonal time deposits are time deposits, including savings deposits, that are not transaction accounts and in which a beneficial interest is held by a depositor that is not a natural person. Also included are certain transferable time deposits held by natural persons and certain obligations issued to depository institution offices located outside the United States. For details, see section 204.2 of Regulation D.

corporations.

2. The Garn-St Germain Depository Institutions Act of 1982 (Public Law 97-320) requires that \$2 million of reservable liabilities (transaction accounts, nonpersonal time deposits, and Eurocurrency liabilities) of each depository institution be subject to a zero percent reserve requirement. The Board is to adjust the amount of reservable liabilities subject to this zero percent reserve requirement each year for the succeeding calendar year by 80 percent of the percentage increase in the total reservable liabilities of all depository institutions, measured on an annual basis as of June 30. No corresponding adjustment is to be made in the event of a decrease. On Dec. 15, 1987, the exemption was raised from \$2.9 million to \$3.2 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); (2) net other transaction accounts; and (3) nonpersonal time deposits or Eurocurrency liabilities starting with those with the highest reserve ratio. With respect to NOW accounts and

1.17 FEDERAL RESERVE OPEN MARKET TRANSACTIONS¹

Millions of dollars

	1005	1000	40				1987			
Type of transaction	1985	1986	1987	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U.S. Treasury Securities										
Outright transactions (excluding matched transactions)				•						[
Treasury bills 1 Gross purchases 2 Gross sales 3 Exchange 4 Redemptions 1 Redemp	22,214 4,118 0 3,500	22,602 2,502 0 1,000	18,983 6,050 0 9,029	575 22 0 0	575 912 0 4,572	499 0 0	4,528 0 0 3,657	1,095 300 0 0	3,388 0 0 0	150 0 0
Others within 1 year 5 Gross purchases	1,349 0 19,763 -17,717 0	190 0 18,673 -20,179	3,658 300 21,502 ~20,388 70	535 0 1,715 -1,812 0	0 0 1,437 -613 0	0 0 2,723 ~1,787 0	443 300 1,500 -917 0	300 6 816 -1,178 0	670 0 2,247 -3,728 70	479 0 1,400 -1,742 0
1 to 5 years 10 Gross purchases 11 Gross sales	2,185 0 -17,459 13,853	893 0 -17,058 16,984	10,231 452 -17,974 18,938	1,394 0 -1,715 1,812	0 200 -1,397 613	5 0 -2,122 1,612	2,551 0 -1,500 917	0 0 -761 1,178	50 0 ~1,900 3,278	2,589 0 -1,400 1,742
5 to 10 years Gross purchases 15 Gross sales. 16 Maturity shift. 17 Exchange	458 100 -1,857 2,184	236 0 -1,620 2,050	2,441 0 -3,529 950	312 0 0 0	0 0 -40 0	0 0 -601 100	619 0 0	0 0 -55 0	0 0 -347 300	596 0 0
Over 10 years 18 Gross purchases 19 Gross sales 20 Maturity shift 21 Exchange 22 Exchange 23 Over 10 Over	293 0 -447 1,679	158 0 0 1,150	1,858 0 0 500	251 0 0 0	0 0 0	0 0 0 75	493 0 0 0	0 0 0	0 0 0 150	445 0 0 0
All maturities 2 Gross purchases 2 Gross sales 24 Redemptions	26,499 4,218 3,500	24,078 2,502 1,000	37,171 6,802 9,099	3,066 22 0	575 1,112 4,572	504 0 0	8,633 300 3,657	1,395 300 0	4,108 0 70	4,259 0 0
Matched transactions 25 Gross sales	866,175 865,968	927,997 927,247	950,923 950,935	87,228 87,128	80,304 80,037	60,731 62,594	61,321 61,347	77,497 73,779	85,288 85,494	104,833 105,917
Repurchase agreements ² 27 Gross purchases 28 Gross sales	134,253 132,351	170,431 160,268	314,620 324,666	24,167 22,108	3,298 2,058	9,013 12,311	34,080 34,080	65,675 57,380	15,853 18,751	23,512 25,264
29 Net change in U.S. government securities	20,477	29,989	11,235	5,002	-4,136	-931	4,702	5,673	1,346	3,591
Federal Agency Obligations										
Outright transactions 30 Gross purchases 31 Gross sales 32 Redemptions	0 0 162	0 0 398	0 0 276	0 0 0	0 0 59	0 0 0	0 0 0	0 0 56	0 0 1	0 0 13
Repurchase agreements ² 33 Gross purchases	22,183 20,877	31,142 30,522	80,353 81,351	3,907 2,910	929 996	2,369 3,298	7,174 7,174	18,523 15,607	6,786 7,425	9,718 10,679
35 Net change in federal agency obligations	1,144	222	-1,274	997	-126	-929	0	2,860	-640	-975
36 Total net change in System Open Market Account	21,621	30,211	9,961	5,999	-4,262	-1,861	4,702	8,533	706	2,617

^{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 Statements¹ Millions of dollars

Dec. 30 Jan. 6 Jan. 13 Jan. 20 Jan. 27 Nov. Dec. Jan. 27				Wednesday				End of month	ı
ASSETS Gold certificate account	Account	1987		19	188		19	87	1988
ASSETS 1 Gold certificate account		Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27	Nov.	Dec.	Jan.
Collect crificate account				Co	nsolidated con	ndition statem	ent		
2 Special drawing rights certificate account. 5.018 5.	ASSETS								
4 To depository institutions. 591 749 2,717 450 363 790 3,815 33 5 Other repurchase agreements. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 Special drawing rights certificate account	5,018	5,018	5,018	5,018	5,018	5,018	5,018	11,068 5,018 478
Federal agency obligations 7,553 7,553 7,423 7,423 7,423 7,567 7,553 7,428 7,567 7,553 7,428 7,567 7,553 7,428 7,567 7,553 7,423 7,423 7,427 7,553 7,428 7,567 7,553 7,428 7,567 7,553 7,423 7,423 7,423 7,427 7,553 7,423 7,427 7,553 7,423 7,427 7,553 7,423	4 To depository institutions	0	0	0	0	0	0	0	333 0 0
9 Bills 107,334 107,648 108,117 107,227 107,677 106,457 107,691 107,191 107,191 108,1057	Federal agency obligations Bought outright. Held under repurchase agreements U.S. Treasury securities	7,553	7,553	7,553	7,423	7,423	7,567	7,553	7,423
16 Items in process of collection	9 Bîls . 10 Notes . 11 Bonds . 12 Total bought outright . 13 Held under repurchase agreements .	82,973 28,242 218,549 3,834	82,973 28,242 218,863 2,120	82,973 28,242 219,332 0	82,973 28,242 218,442 0	82,973 28,242 218,892 1,390	79,345 27,761 213,563 5,397	82,973 28,242 218,906 3,645	107,196 82,973 28,242 218,411 0 218,411
17 Bank premises	15 Total loans and securities	232,683	230,161	229,602	226,315	228,679	229,594	235,235	226,167
Benominated in foreign currencies	17 Bank premises								6,489 705
Liabilities	18 Denominated in foreign currencies ³								6,714 8,535
Deposits Deposits 2		273,419	273,223	269,519	276,681	268,564	266,491	275,566	265,174
22 To depository institutions		213,090	211,721	209,682	208,298	206,319	207,873	212,890	205,871
27 Deferred credit items		4,773 207	4,098 237	3,421 212	3,859 231	9,481 220	3,594 352	5,313 244	35,338 10,276 355 315
269,019 268,862 265,066 272,238 264,125 261,508 271,472 260,960	26 Total deposits	46,914	46,313	45,911	50,296	48,643	46,177	48,368	46,284
CAPITAL ACCOUNTS	27 Deferred credit items								6,093 2,654
30 Capital paid in		269,019	268,862	265,066	272,238	264,125	261,508	271,472	260,902
34 Memo: Marketable U.S. Treasury securities held in custody for foreign and international account 198,823 201,499 204,386 205,233 210,231 193,044 198,288 210,41 Federal Reserve notes statement	30 Capital paid in	1,873	2,047	2,047	2,047	2,047	1,873	2,047	2,062 2,042 168
Pederal Reserve notes outstanding issued to bank 253,508 252,950 252,838 252,883 253,163 254,499 253,313 253,313 253,313 253,314 253,508 252,950 252,838 252,838 253,163 254,499 253,313 253,313 253,314 253,315 253,315 253,315 253,316 253	33 Total liabilities and capital accounts	273,419	273,223	269,519	276,681	268,564	266,491	275,566	265,174
35 Federal Reserve notes outstanding issued to bank 253,508 40,418 41,229 43,156 44,585 46,844 46,626 40,423 47,43 7 Federal Reserve notes, net. 213,090 211,721 209,682 208,298 206,319 207,873 212,890 205,87 Collateral held against notes net: 38 Gold certificate account 11,078 11,077 11,075 11,072 11,071 11,082 11,078 11,078 39 Special drawing rights certificate account 5,018		198,823	201,499	204,386	205,233	210,231	193,044	198,288	210,410
36 Less: Held by bank 40,418 41,229 43,156 44,585 46,844 46,626 40,423 47,43 37 Federal Reserve notes, net. 213,090 211,721 209,682 208,298 206,319 207,873 212,890 205,87 Collateral held against notes net: 38 Gold certificate account 11,078 11,075 11,075 11,072 11,071 11,082 11,078 11,078 39 Special drawing rights certificate account 5,018 5,				Fe	ederal Reserve	note statem	ent		
38 Gold certificate account	36 Less: Held by bank	40,418	41,229	43,156	44,585	46,844	46,626	40,423	253,303 47,432 205,871
41 U.S. Treasury and agency securities	38 Gold certificate account 39 Special drawing rights certificate account 40 Other eligible assets	5,018	5,018 0	5,018 0	5,018	5,018	5,018	5,018 0	11,068 5,018 0
42 Total collateral			-					l	189,785 205,871

^{1.} Some of these data also appear in the Board's H.4.1 (503) release. For address, see inside front cover.

2. Includes securities loaned—fully guaranteed by U.S. Treasury securities pledged with Federal Reserve Banks—and excludes securities sold and scheduled to be bought back under matched sale-purchase transactions.

3. 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 Holdings Millions of dollars

			Wednesday			End of month				
Type and maturity groupings	1987		19	988	_	19	987	1988		
	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27	Nov. 30	Dec. 31	Jan. 29		
1 Loans—Total. 2 Within 15 days 3 16 days to 90 days 4 91 days to 1 year	951 943 8 0	749 738 11 0	2,717 2,639 78 0	450 445 5 0	363 362 1 0	790 765 25 0	3,815 3,806 9 0	333 326 7 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		
9 U.S. Treasury securities—Total 10 Within 15 days 11 16 days to 90 days 12 91 days to 1 year 13 Over 1 year to 5 years 14 Over 5 years to 10 years 15 Over 10 years	222,383 11,583 50,901 71,993 47,169 15,313 25,424	220,983 10,503 50,752 71,479 47,512 15,313 25,424	219,332 7,667 52,124 71,292 47,512 15,313 25,424	218,442 8,554 53,598 68,248 47,410 15,208 25,424	220,282 9,123 52,598 70,519 47,410 15,208 25,424	218,960 9,805 52,165 72,716 44,580 14,717 24,977	222,551 11,363 46,112 76,827 47,512 15,313 25,424	218,411 4,402 55,664 70,303 47,410 15,208 25,424		
16 Federal agency obligations—Total 17 Within 15 days' 18 16 days to 90 days 19 91 days to 10 year 20 Over 1 year to 5 years. 21 Over 5 years to 10 years 22 Over 10 years	9,349 2,041 691 1,653 3,416 1,358	8,429 1,046 836 1,583 3,416 1,358 190	7,553 151 926 1,473 3,441 1,373 189	7,423 165 781 1,473 3,481 1,333 190	8,034 781 886 1,538 3,323 1,317 189	9,843 2,527 568 1,621 3,524 1,387 216	8,868 1,560 691 1,653 3,416 1,358 190	7,423 170 886 1,538 3,323 1,317 189		

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

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1.20 AGGREGATE RESERVES OF DEPOSITORY INSTITUTIONS AND MONETARY BASE

Billions of dollars, averages of daily figures

								1987				1988
Item	1984	1985	1986	1987				1767				1766
	Dec.	Dec.	Dec.	Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Adjusted for						Seasonall	y adjuste	d				
CHANGES IN RESERVE REQUIREMENTS ¹												
1 Total reserves ²	39.91	46.06	56.17	57.44	57.71	57.60	57.88	57.83	58.50	57.99	57.44	58.32
2 Nonborrowed reserves 3 Nonborrowed reserves plus extended credit ³	36.72 39.33 39.06 199.60	44.74 45.24 45.00 217.34	55.34 55.64 54.80 239.52	56.66 57.14 56.41 256.68	56.93 57.20 56.52 248.48	56.93 57.12 56.84 249.51	57.23 57.36 56.84 251.00	56.89 57.29 57.03 252.25	57.55 58.00 57.37 254.56	57.36 57.76 57.06 256.02	56.66 57.14 56.41 256.68	57.24 57.61 57.02 260.25
5 Monetary base	122.00	217.34	239.32	2.70.00			L		254.50	250.02	2.50.00	200.23
					No	t seasona	ılly adjus	ted				
6 Total reserves ²	40.94	47.24	57.64	58.96	57.63	57.74	57.39	57.50	58.04	58.09	58.96′	60.17
7 Nonborrowed reserves 8 Nonborrowed reserves plus extended credit*	37.75 40.35 40.08 202.70	45.92 46.42 46.18 220.82	56.81 57.11 56.27 243.63	58.19 58.67 57.94 261.21	56.85 57.12 56.43 249.29	57.07 57.27 56.98 251.42	56.74 56.88 56.36 251.42	56.56 56.96 56.70 251.60	57.09 57.54 56.91 253.29	57.47 57.86 57.17 256.82	58.19 58.67 57.94 261.21	59.09 59.46 58.88 261.21
Not Adjusted for Changes in Reserve Requirements ⁵		į			i							
11 Total reserves ²	40.70	48.14	59.56	62.12	58.78	58.84	58.36	59,81	61.11	61.20	62.12	62.64
12 Nonborrowed reserves 13 Nonborrowed reserves plus extended credit ³	37.51 40.09 39.84 204.18	46.82 47.41 47.08 223.53	58.73 59.04 58.19 247.71	61.35 61.86 61.09 266.16	58.01 58.34 57.59 252.54	58.17 58.37 58.08 254.67	57.71 57.76 57.33 254.36	58.87 58.85 59.02 255.69	60.16 61.22 59.98 258.08	60.58 60.79 60.28 261.67	61.35 61.86 61.09 266.16	61.56 62.13 61.34 265.79

^{1.} Figures incorporate adjustments for discontinuities associated with the implementation of the Monetary Control Act and other regulatory changes to reserve requirements. To adjust for discontinuities due to changes in reserve requirements on reservable nondeposit liabilities, the sum of such required reserves is subtracted from the actual series. Similarly, in adjusting for discontinuities in the monetary base, required clearing balances and adjustments to compensate for float also are subtracted from the actual series.

2. Total reserves not adjusted for discontinuities consist of reserve balances with Federal Reserve Banks, which exclude required clearing balances and adjustments to compensate for float, plus vault cash held during the lagged computation period by institutions having required reserve balances at Federal Reserve Banks plus the amount of vault cash equal to required reserves during the maintenance period at institutions having no required reserve balances.

3. 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.

4. The monetary base not adjusted for discontinuities consists of total reserves plus required clearing balances and adjustments to compensate for float at Federal Reserve Banks and the currency component of the money stock less the amount

of vault cash holdings of thrift institutions that is included in the currency

of vault cash holdings of thrift institutions that is included in the currency component of the money stock plus, for institutions not having required reserve balances, the excess of current vault cash over the amount applied to satisfy current reserve requirements. After the introduction of contemporaneous reserve requirements (CRR), currency and vault cash figures are measured over the weekly computation period ending Monday.

Before CRR, all components of the monetary base other than excess reserves are seasonally adjusted as a whole, rather than by component, and excess reserves are added on a not seasonally adjusted basis. After CRR, the seasonally adjusted series consists of seasonally adjusted total reserves, which include excess reserves on a not seasonally adjusted basis, plus the seasonally adjusted currency component of the money stock and the remaining items seasonally adjusted as a whole.

5. Reflects actual reserve requirements, including those on nondeposit liabilities, with no adjustments to eliminate the effects of discontinuities associated with implementation of the Monetary Control Act or other regulatory changes to reserve requirements.

Note: 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 Banking Section, Division of Research and Statistics, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

1.21 MONEY STOCK, LIQUID ASSETS, AND DEBT MEASURES

Billions of dollars, averages of daily figures

No. of	1984	1985	1986	1987		1987'		1988
Item ¹	Dec.	Dec.	Dec.	Dec.	Oct.	Nov.	Dec.	Jan.
				Seasonall	y adjusted			
1 M1	551,9	620.1	725.4	750.8	756.2	752.7	750.8	758.9
	2,363.6	2,562.6	2,807.8	2,901.3	2,894.6	2,897.0	2,901.3	2,925.0
	2,978.3	3,196.0	3,490.4	3,663.0	3,643.5	3,658.5	3,663.0	3,689.1
	3,519.4	3,825.4	4,134.1	4,332.8	4,312.0	4,325.9	4,332.8	n.a.
	5,932.9	6,746.9	7,598.5	8,284.9	8,161.5	8,231.7	8,284.9	n.a.
M1 components 6 Currency ²	156.1	167.7	180.4	196.5	193.1	195.0	196.5	198.4
	5,2	5.9	6.5	7.1	7,0	7.0	7.1	7.2
	244.1	267.2	303.3	288.0	295.9	291.3	288.0	289.9
	146.4	179.2	235.2	259.3	260.3	259.4	259.3	263.3
Nontransactions components 10 In M2 ⁶	1,811.7	1,942.5	2,082.4	2,150.5	2,138.4	2,144.3	2,150.5	2,166.1
	614.7	633.3	682.6	761.6	748.9	761.4	761.6	764.1
Savings deposits ⁸ 12 Commercial Banks	122,6	124.8	155.5	178.2	178.4	178.2	178.2	179.0
	162,9	176.6	215.2	236.0	238.6	236.8	236.0	235.4
Small denomination time deposits ⁹ 14 Commercial Banks	386.3	383.3	364.6	384.6	374.2	381.6	384.6	388.0
	497.0	496.2	488.6	528.5	509.1	520.1	528.5	536.9
Money market mutual funds 16 General purpose and broker-dealer	167.5	176.5	208.0	222.2	218.8	220.9	222.2	226,2
	62.7	64.5	84.4	89.6	82.5	89.5	89.6	94,4
Large denomination time deposits ¹⁰ 18 Commercial Banks ¹¹ 19 Thrift institutions	270.2	284.9	288.9	323.5	317.5	322.3	323.5	320.1
	146.8	151.6	150.3	161.2	154.8	158.1	161.2	162.7
Debt components	1,365.3	1,584.3	1,804.5	1,953.3	1,919.3	1,939.6	1,953.3	n.a.
20 Federal debt	4,567.6	5,162.6	5,794.0	6,331.7	6,242.1	6,292.0	6,331.7	n.a.
			<u>L</u>	<u> </u>				
22 M1 23 M2 24 M3 25 L	564.5 2,373.2 2,991.4 3,532.7 5,927.1	633.5 2,573.9 3,210.5 3,840.9 6,740.6	740.6 2,821.5 3,507.2 4,152.1 7,591.7	765.9 2,915.0 3,679.5 4,350.9 8,277.6	753.7 2,895.2 3,643.5 4,312.3 8,147.3	756.0 2,900.5 3,665.8 4,335.8 8,216.5	765.9 2,915.0 3,679.5 4,350.9 8,277.6	764.8 2,937.3 3,701.6 n.a. n.a.
M1 components 27	158.5	170.2	183.0	199.4	192.6	195.9	199.4	197.1
	4.9	5.5	6.0	6.5	7.0	6.6	6.5	6.6
	253.0	276.9	314.4	298.5	295.7	294.1	298.5	295.8
	148.2	180.9	237.3	261.5	258.4	259.3	261.5	265.3
Nontransactions components	1,808.7	1,940.3	2,080.8	2,149.1	2,141.5	2,144.5	2,149.1	2,172.5
	618.2	636.7	685.7	764.5	748.3	765.2	764.5	764.3
Money market deposit accounts 3 Commercial Banks	267.4	332.8	379.6	358.2	360.0	358.1	358.2	358.9
	149.4	180.8	192.9	167.0	173.9	169.6	167.0	165.2
Savings deposits ⁸ 5 Commercial Banks	121.5	123.7	154.2	176.7	178.6	177.5	176.7	178.2
	161.5	[74.8	212.9	233.3	239.3	235.7	233.3	233.0
Small denomination time deposits ⁹ Tommercial Banks	386.9	384.0	365.3	385.2	375.0	382.6	385.2	389.3
	498.2	497.5	489.7	529.3	510.5	521.1	529.3	540.5
Money market mutual funds 9 General purpose and broker-dealer	167.5	176.5	208.0	222.2	218.8	220.9	222.2	226.2
	62.7	64.5	84.4	89.6	82.5	89.5	89.6	94.4
Large denomination time deposits ¹⁰ 11 Commercial Banks ¹¹ 12 Thrift institutions	270.9	285.4	289.1	323.6	317.3	322.4	323.6	321.1
	146.8	151.9	150.7	161.7	155.7	159.0	161.7	163.8
Debt components	1,364.7	1,583.7	1,804.0	1,952.7	1,909.8	1,935.3	1,952.7	n.a.
3 Federal debt	4,562.4	5,156.9	5,787.8	6,324.9	6,237.5	6,281.2	6,324.9	n.a.

For notes see following page.

NOTES TO TABLE 1.21

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

M1: (1) currency outside the Treasury, Federal Reserve Banks, and the vaults of depository institutions; (2) travelers checks of nonbank issuers; (3) demand deposits at all commercial banks other than those due to depository institutions, the U.S. government, and foreign banks and official institutions less cash items in the process of collection and Federal Reserve float; and (4) other checkable deposits (OCD) consisting of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institutions, credit union share draft accounts, and demand deposits at thrift institutions, credit union share draft accounts, and demand deposits at thrift institutions.

M2: M1 plus overnight (and continuing contract) repurchase agreements (RPs) issued by all commercial banks and overnight Eurodollars issued to U.S. residents by foreign branches of U.S. banks worldwide, MMDAs, savings and small-denomination time deposits (time deposits—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 individual retirement accounts (IRA) and Keogh balances at depository institutions and 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 funds (general purpose and broker-dealer), foreign governments and commercial banks, and the U.S. government.

M3: M2 plus large-denomination time deposits and term RP liabilities (in amounts of \$100,000 or more) issued by commercial banks and thrift institutions, term Eurodollars held by U.S. residents at foreign branches of U.S. banks worldwide and at all banking offices in the United Kingdom and Canada, and balances in both taxable and tax-exempt, institution-only money market mutual funds.

L: M3 plus the nonbank public holdings of U.S. savings bonds, short-term Treasury s

acceptances, and other debt instruments. The source of data on domestic nonfinancial debt is the Federal Reserve Board's flow of funds accounts. Debt data are based on monthly averages.

2. Currency outside the U.S. Treasury, Federal Reserve Banks, and vaults of depository institutions.

3. Outstanding amount of U.S. dollar-denominated travelers checks of non-bank issuers. Travelers checks issued by depository institutions are included in demand deposits.

4. Demand deposits at commercial banks and foreign-related institutions other.

- 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
- and omicial institutions less cash items in the process of collection and rederal Reserve float.

 5. Consists of NOW and ATS balances at all depository institutions, credit union share draft balances, and demand deposits at thrift institutions.

 6. Sum of overnight RPs and overnight Eurodollars, money market fund balances (general purpose and broker-dealer), MMDAs, and savings and small interactions.
- balances (general purpose and visite term RPs, and term Eurodollars of U.S. 7. Sum of large time deposits, term RPs, and term Eurodollars of U.S. residents, money market fund balances (institution-only), less the estimated amount of overnight RPs and Eurodollars held by institution-only money market

- Savings deposits exclude MMDAs.
 Small-denomination time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All individual retirement accounts (IRA) and
- in amounts of less than 5100,000. All individual retirement accounts (IKA) and Keogh accounts at commercial banks and thrifts are subtracted from small time deposits.

 10. Large-denomination time deposits are those issued in amounts of \$100,000 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.

Note: Latest monthly and weekly figures are available from the Board's H.6 (508) release. Historical data are available from the Banking Section, Division of Research and Statistics, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

1.22 BANK DEBITS AND DEPOSIT TURNOVER1

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

				·							
Darely groups and the off montages	1985 ²	1986 ²	1987 ²			19	87				
Bank group, or type of customer	1983	1980	1987	June	July	Aug.	Sept.	Oct.	Nov.		
Debits то				Sea	asonally adjus	ted					
Demand deposits ³ 1 All insured banks 2 Major New York City banks 3 Other banks 4 ATS-NOW accounts ⁴ 5 Savings deposits ⁵	156,091.6 70,585.8 85,505.9 1,823.5 384.9	188,345.8 91,397.3 96,948.8 2,182.5 403.5	217,115.9 104,496.3 112,619.8 2,402.7 526.5	212,414.4 103,027.6 109,386.8 2,417.6 565.8	219,501.3 106,428.9 113,072.3 2,498.7 548.2	221,729.0 109,062.5 112,666.5 2,333.1 518.8	219,182.9 105,149.4 114,033.4 2,349.0 524.0	234,398.3 110,833.6 123,564.6 2,591.3 582.4	219,386.1 103,693.6 115,692.5 2,536.1 570.8		
DEPOSIT TURNOVER					į						
Demand deposits ³ 6 All insured banks. 7 Major New York City banks 8 Other banks. 9 ATS-NOW accounts ⁴ 10 Savings deposits ³	500.3 2,196.9 305.7 15.8 3.2	556.5 2,498.2 321.2 15.6 3.0	612.1 2,670.6 357.0 13.8 3.1	601.6 2,671.6 347.8 13.9 3.3	628.6 2,837.4 362.8 14.3 3.1	623.3 2,718.2 357.0 13.2 3.0	625.3 2,715.1 365.7 13.2 3.0	654.9 2,744.7 389.1 14.4 3.3	619.0 2,620.2 367.4 14.2 3.3		
D ЕВІТЅ ТО	Not seasonally adjusted										
Demand deposits ³ 1 All insured banks 12 Major New York City banks 13 Other banks 14 ATS-NOW accounts ⁴ 15 MMDA ⁶ 16 Savings deposits ³	156,052.3 70,559.2 85,493.1 1,826.4 1,223.9 385.3	188,506.4 91,500.0 97,006.6 2,184.6 1,609.4 404.1	217,124.8 104,518.6 112,606.1 2,404.8 1,954.2 526.8	221,038.4 106,171.3 114,867.0 2,466.9 1,987.9 565.2	228,764.2 111,157.7 117,606.5 2,466.0 2,002.7 576.5	214,145.9 103,822.8 110,323.1 2,226.4 1,752.7 524.2	216,728.0 104,234.0 112,494.0 2,414.9 1,846.6 519.0	233,999.8 111,398.9 122,600.8 2,577.7 2,247.8 604.3	202,230.1 96,035.9 106,194.2 2,375.8 1,959.8 519.9		
Deposit Turnover											
Demand deposits ³ All insured banks Major New York City banks Other banks ATS-NOW accounts MDA6 Savings deposits ⁵	499.9 2,196.3 305.6 15.8 4.0 3.2	556.7 2,499.1 321.2 15.6 4.5 3.0	612.3 2,674.9 356.9 13.8 5.3 3.1	625.0 2,801.5 363.8 14.3 5.4 3.3	651.7 2,928.4 375.7 14.3 5.5 3.3	612.5 2,721.9 354.2 12.8 4.8 3.0	620.2 2,751.0 361.1 13.7 5.1 3.0	657.8 2,824.8 387.6 14.6 6.3 3.5	565.6 2,467.8 333.3 13.3 5.5 3.0		

^{1.} These series have been revised to reflect new benchmark adjustments and revised seasonal factors as well as some revisions of reported data. Historical tables containing revised data for earlier periods may be obtained from the Banking 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.

front cover.

2. Annual averages of monthly figures.

^{3.} Represents accounts of individuals, partnerships, and corporations and of states and political subdivisions.

4. 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.

5. Excludes ATS and NOW accounts, MMDA and special club accounts, such as Christmas and vacation clubs.

6. Money market deposit accounts.

A16 Domestic Financial Statistics April 1988

1.23 LOANS AND SECURITIES All Commercial Banks¹

Billions of dollars; averages of Wednesday figures

	<u> </u>											1000
Category				,		1987′			T	,		1988
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
						Seasonall	ly adjusted					
1 Total loans and securities ²	2,120.1	2,130.7	2,152.0	2,166.0	2,176.7	2,181.3	2,199.0	2,214.7	2,227.6	2,232.1	2,230.6	2,242.0
2 U.S. government securities	314.7	315.4	318.1	321.3	321.3	322.9	328.5	331.3	331.7	331.1	333.2	334.1
	192.0	193.1	194.4	195.5	195.9	194.3	193.7	193.7	194.2	196.2	196.0	194.0
	1,613.5	1,622.3	1,639.6	1,649.3	1,659.6	1,664.1	1,676.8	1,689.8	1,701.7	1,704.8	1,701.4	1,713.9
	548.0	546.2	549.1	551.9	554.4	553.6	554.0	559.0	562.8	563.1	565.5	568.5
	5.0	4.7	4.8	4.8	4.6	4.5	5.3	5.4	5.6	4.6	4.3	4.5
industrial. 8 U.S. addressees ⁴ . 9 Non-U.S. addressees ⁴ . 10 Real estate. 11 Individual. 12 Security.	543.0	541.5	544.3	547.1	549.8	549.1	548.7	553.6	557.3	558.5	561.2	564.0
	534.3	533.2	536.0	539.0	541.3	540.8	540.5	545.6	549.3	550.9	553.0	555.0
	8.8	8.3	8.3	8.1	8.4	8.4	8.2	8.0	8.0	7.6	8.2	8.9
	509.7	517.1	524.8	532.6	542.6	549.6	556.8	561.7	569.4	576.2	582.3	586.9
	316.0	316.8	317.8	319.1	318.9	319.7	321.5	322.8	324.1	325.0	325.9	327.8
	39.8	40.1	44.6	43.6	44.0	43.9	45.4	46.1	47.1	39.3	33.6	36.6
13 Nonbank financial institutions	35.1	35.4	35.6	35.8	34.6	32.9	32.0	31.8	32.1	32.3	32.3	32.0
	30.7	30.2	29.9	30.0	30.0	29.8	29.7	29.6	29.6	29.4	29.3	29.4
	56.4	56.6	56.4	56.2	55.9	55.3	54.5	54.5	54.1	53.4	51.2	53.9
subdivisions Foreign banks Foreign official institutions Lease financing receivables All other loans.	9.5	9.1	9.3	9.3	9.6	9.0	9.1	9.2	9.6	8.8	8.2	8.3
	6.2	6.8	6.8	6.1	5.8	5.7	5.7	5.7	5.8	5.7	5.6	5.7
	22.5	22.7	23.3	23.7	23.9	23.9	24.0	24.1	24.3	24.5	24.8	25.0
	39.3	41.2	42.0	41.1	39.9	40.5	44.0	45.2	42.7	47.1	42.7	41.6
					1	Not season	ally adjuste	ed .				
20 Total loans and securities ²	2,124.0	2,130.7	2,153.1	2,163.4	2,173.7	2,172.8	2,188.8	2,211.6	2,222.4	2,231.3	2,247.0	2,254.7
21 U.S. government securities	319.3	317.4	318.0	320.0	318.4	322.1	328.3	331.3	329.3	331.0	333.1	335.6
	192.7	192.7	194.0	195.5	195.3	193.0	193.6	193.8	193.3	195.6	196.6	196.7
	1,612.0	1,620.6	1,641.1	1,647.9	1,660.0	1,657.7	1,666.9	1,686.6	1,699.8	1,704.7	1,717.3	1,722.4
	547.3	550.7	552.8	554.4	555.9	551.3	549.5	555.7	558.7	562.0	569.6	568.1
	5.0	4.6	4.8	4.8	4.7	4.6	5.3	5.5	5.4	4.6	4.4	4.3
industrial. 7 U.S. addressees* Non-U.S. addressees* Real estate Individual Security Nonbank financial	542.3	546.1	548.0	549.6	551.2	546.7	544.2	550.2	553.3	557.4	565.2	563.8
	533.8	537.9	539.9	541.4	542.7	538.1	535.9	542.1	545.2	549.2	557.0	555.7
	8.5	8.1	8.2	8.2	8.5	8.6	8.3	8.2	8.1	8.2	8.2	8.1
	509.1	516.4	523.9	532.0	542.4	549.7	556.8	562.4	570.0	576.8	583.2	587.3
	315.4	313.8	315.0	316.5	316.9	318.4	321.5	324.3	325.7	326.7	330.2	331.2
	38.4	39.6	46.4	43.9	45.4	43.3	43.3	44.8	45.6	39.4	35.3	37.5
institutions	34.1	34,3	35.5	35.6	34.7	32.7	31.9	32.3	32.2	32.7	33.6	32.3
	29.7	29.2	29.1	29.7	30.3	30.5	30.6	30.7	30.4	29.6	29.1	28.7
	57.8	57.6	56.9	56.2	55.5	54.5	53.9	53.7	53.2	52.3	51.2	53.9
35 Foreign banks	9,8	9.0	8.9	9.0	9.5	9.0	8.9	9.5	9.8	8.8	8.6	8.5
	6.2	6.8	6.8	6.1	5.8	5.7	5.7	5.7	5.8	5.7	5.6	5.7
	22.7	22.9	23.5	23.8	24.0	23.9	23.9	24.0	23.9	24.2	24.8	25.2
	41.5	40.3	42.4	40.7	39.6	38.7	40.8	43.6	44.4	46.4	46.2	44.1

^{1.} Data have been revised because of benchmarking and new seasonal factors. 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 G.7 (407) release.

Excludes loans to commercial banks in the United States.
 Includes nonfinancial commercial paper held.
 United States includes the 50 states and the District of Columbia.

1.24 MAJOR NONDEPOSIT FUNDS OF COMMERCIAL BANKS¹

Monthly averages, billions of dollars

•						1987 ^r						1988
Source	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Total nondeposit funds 1 Seasonally adjusted 2 Not seasonally adjusted Federal funds, RPs, and other borrowings from nonbanks ³	159.7	165.4	161.6	170.8	167.1	160.3	166.6	177.2	176.2	173.6	176.9	177.3
	162.3	166.5	161.1	170.9	164.0	156.6	166.7	177.6	176.2	175.9	177.8	177.7
3 Seasonally adjusted	172.0	171.9	172.1	170.5	168.3	167.2	167.1	165.0	164.6	165.7	161.8	169.0
	174.5	173.0	171.6	170.6	165.2	163.6	167.2	165.4	164.7	168.1	162.7	169.4
5 Net balances due to foreign-related institutions, not seasonally adjusted	-12.3	-6.5	-10.5	.2	-1.2	-6.9	4	12.2	11.5	7.8	15.1	8.3
MEMO 6 Domestically chartered banks' net positions with own foreign branches, not seasonally adjusted'	-23.8	-21.1	-23.0	-15.5	-15.5	-22.2	-17.7	-11.8	-14.7	-17.1	-14.1	-17.4
	68.3	66.0	70.5	68.5	67.1	66.4	64.5	63.8	67.7	70.4	69.6	72.1
	44.5	44.9	47.5	53.0	51.5	44.2	46.8	52.0	53.0	53.3	55.5	54.7
with directly related institutions, not seasonally adjusted 10 Gross due from balances	11.5	14.6	12.5	15.7	14.3	15.3	17.3	24.0	26.2	24.9	29.2	25.6
	73.9	71.7	73.1	75.8	77.4	77.4	77.6	77.2	79.7	83.2	79.8	85.2
	85.4	86.3	85.6	91.5	91.7	92.7	94.9	101.3	105.9	108.0	109.0	110.8
12 Seasonally adjusted	97.9	96.4	99.2	99.9	101.8	103.0	105.2	107.5	107.6	106.9	106.2	108.5
	100.4	97.4	98.7	100.0	98.7	99.4	105.3	107.9	107.7	109.2	107.1	108.9
14 Seasonally adjusted	22.7	18.9	21.4	25.3	26.9	24.4	28.5	24.9	34.2	35.7	26.1	18.6
	28.6	17.1	21.6	30.8	25.5	26.6	21.6	25.5	30.7	25.8	22.4	24.9
11me deposits, \$100,000 or more 16 Seasonally adjusted	354.2	355.9	358.9	365.7	372.1	372.5	372.3	373.0	380.5	387.0	389.2	389.1
	354.1	357.7	358.5	366.3	371.4	370.0	371.8	373.2	380.4	387.0	389.3	390.2

^{1.} 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.

Data have been revised because of benchmarking to new Call Reports and to new seasonal factors. 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 G. 10(411) release.

2. Includes seasonally adjusted federal funds, RPs, and other borrowings from nonbanks and not seasonally adjusted net Eurodollars.

^{3.} Other borrowings are borrowings on 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 foreignbanks, term federal funds, overdrawn due from bank balances, loan RPs, and participations in pooled loans.

4. Averages of daily figures for member and nonmember banks.

5. Averages of daily data.

6. Based on daily average data reported by 122 large banks.

7. Includes U.S. Treasury demand deposits and Treasury tax-and-loan notes at commercial banks. Averages of daily data.

8. Averages of Wednesday figures.

1.25 ASSETS AND LIABILITIES OF COMMERCIAL BANKING INSTITUTIONS Last-Wednesday-of-Month Series¹ Billions of dollars

					19	87'	-				1988
Account	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
ALL COMMERCIAL BANKING INSTITUTIONS ²											
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	2,286.1	2,314.2	2,325.8	2,321.0	2,331.6	2,348.8	2,374.8	2,402.4	2,389.9	2,430.5	2,415.2
	484.6	491.7	494.5	492.7	497.1	501.1	501.7	503.8	508.0	514.4	515.2
	299.6	305.6	307.4	304.6	309.4	313.7	313.8	316.0	317.3	321.4	322.9
	185.0	186.1	187.0	188.0	187.7	187.4	187.9	187.9	190.7	193.1	192.4
	25.3	23.4	21.4	20.2	20.4	19.5	19.5	19.6	20.3	16.9	18.3
	1,776.3	1,799.2	1,810.0	1,808.2	1,814.1	1,828.2	1,853.6	1,878.9	1,861.6	1,899.2	1,881.6
	158.6	154.0	161.8	150.7	156.5	160.8	157.4	172.9	162.0	172.1	160.5
	1,617.7	1,645.2	1,648.1	1,657.5	1,657.6	1,667.5	1,696.2	1,706.1	1,699.7	1,727.2	1,721.1
	551.4	551.9	555.1	554.6	548.1	548.2	560.7	559.7	561.1	576.4	565.3
	517.2	526.4	533.8	544.4	552.9	558.2	564.1	571.7	577.4	586.3	588.5
	313.8	316.3	316.9	317.3	319.4	322.1	325.3	326.7	326.9	332.4	330.8
	235.4	250.6	242.3	241.1	237.2	239.0	246.0	248.0	234.3	232.1	236.5
Total cash assets Reserves with Federal Reserve Banks. Cash in vault Cash items in process of collection Demand balances at U.S. depository	205.8	211.6	231.9	214.2	208.4	210.7	223.8	223.5	215.2	232.5	209.6
	30.7	29.4	37.5	33.5	32.5	37.3	32.9	38.3	33.8	36.2	33.3
	22.8	24.0	25.1	24.2	24.5	24.7	24.5	25.0	24.0	28.5	25.8
	68.3	74.8	81.6	74.7	69.0	65.9	81.6	79.0	76.1	79.9	70.7
institutions	32.0	33.1	36.5	30.4	31.0	30.8	32.7	32.3	32.9	36.6	31.4
	51.9	50.3	51.2	51.4	51.5	52.1	52.1	48.9	48.4	51.4	48.5
19 Other assets	198.9	199.2	203.7	197.4	182.5	184.5	193.6	186.3	187.5	184.0	176.0
20 Total assets/total liabilities and capital	2,690.8 1,903.0	2,724.9 1,922.8	2,761.4 1,942.5	2,732.6 1,927.4	2,722.6	2,744.0 1,930.4	2,792.2 1,972.4	2,812.2 1,971.2	2,792.6	2,847.1	2,800.7
21 Deposits 22 Transaction deposits 23 Savings deposits 24 Time deposits 25 Borrowings 26 Other liabilities 27 Residual (assets less liabilities)	569.7 542.0 791.2 415.4 186.2 186.2	591.6 537.6 793.6 420.2 194.1 187.8	598.1 541.0 803.4 429.9 200.0 189.0	579.6 537.6 810.1 419.5 202.0 183.7	1,928.8 575.3 538.7 814.8 414.6 202.5 176.7	574.1 537.9 818.4 426.4 209.6 177.6	612.4 535.3 824.7 416.3 224.7 178.8	598.1 531.7 841.4 435.7 225.5 179.8	1,974.1 592.0 531.1 851.0 420.1 218.9 179.5	623.3 528.0 857.9 426.2 231.5 180.4	1,968.1 576.0 531.4 860.6 443.2 208.7 180.7
MEMO 28 U.S. government securities (including trading account)	316.8	319.4	321.0	317.0	323.8	326.8	327.7	329.9	331.7	332.4	336.9
	193.0	195.6	194.8	195.8	193.8	193.8	193.5	193.5	196.6	198.9	196.7
Domestically Chartered Commercial Banks ³											
30 Loans and securities 31 Investment securities 32 U.S. Treasury securities 33 Other 34 Trading account assets 35 Total loans 36 Interbank loans 37 Loans excluding interbank 28 Commercial and industrial 39 Real estate 40 Individual 41 All other	2,125.3	2,152.0	2,160.3	2,157.0	2,162.8	2,179.6	2,195.4	2,218.6	2,213.8	2,238.5	2,231.2
	461.0	468.1	469.5	468.1	472.1	476.2	475.9	478.7	482.6	488.3	487.0
	289.2	295.5	296.9	295.1	299.4	303.5	302.9	305.7	306.4	311.0	311.3
	171.7	172.6	172.5	173.0	172.7	172.6	173.0	173.0	176.2	177.3	175.8
	25.3	23.4	21.4	20.2	20.4	19.5	19.5	19.6	20.3	16.9	18.3
	1,639.1	1,660.5	1,669.5	1,668.7	1,670.3	1,684.0	1,700.0	1,720.3	1,711.0	1,733.3	1,725.9
	124.9	124.3	128.7	120.9	122.0	128.6	125.0	133.3	130.5	135.3	131.0
	1,514.2	1,536.3	1,540.8	1,547.8	1,548.3	1,555.4	1,575.0	1,587.0	1,580.4	1,598.0	1,594.9
	474.5	473.4	475.1	471.3	465.5	464.4	470.2	470.6	472.0	479.4	472.6
	509.2	517.8	525.0	535.5	543.5	548.4	554.0	561.9	567.3	575.0	577.1
	313.5	316.0	316.5	317.0	319.1	321.8	325.0	326.4	326.6	332.1	330.5
	217.1	229.1	224.2	224.0	220.4	220.8	225.8	228.1	214.6	211.6	214.7
42 Total cash assets	189.3	195.2	215.4	197.7	191.6	192.7	204.8	207.8	199.3	214.9	191.9
	29.7	27.2	35.9	32.1	31.3	36.2	30.9	36.5	31.5	35.1	31.7
	22.8	24.0	25.0	24.1	24.4	24.6	24.4	24.9	24.0	28.4	25.7
	68.0	74.3	81.2	74.2	68.5	65.4	81.0	78.4	75.7	79.5	70.2
institutions	30.4	31.3	34.5	28.7	29.3	29.2	30.8	30.6	31.4	34.7	29.7
	38.4	38.5	38.8	38.6	38.0	37.2	37.7	37.3	36.7	37.3	34.6
48 Other assets	142.1	142.6	142.3	132.8	120.5	119.9	134.2	130.0	123.7	127.2	118.8
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)	2,456.8	2,489.7	2,517.9	2,487.5	2,474.9	2,492.2	2,534.5	2,556.4	2,536.8	2,580.7	2,542.0
	1,844.4	1,860.7	1,880.1	1,865.7	1,868.3	1,868.8	1,910.3	1,909.1	1,912.4	1,944.6	1,905.9
	562.3	583.7	590.0	571.4	567.4	566.0	603.9	589.5	583.7	614.9	567.7
	540.0	535.6	539.0	535.6	536.6	535.7	533.2	529.5	528.8	525.7	529.1
	742.1	741.5	751.1	758.7	764.3	767.1	773.3	790.1	799.9	804.1	809.1
	320.3	328.2	336.3	327.0	318.9	333.0	324.7	345.7	323.2	331.9	344.7
	109.2	116.2	115.8	114.4	114.2	116.0	123.8	125.0	124.8	127.0	113.9
	182.9	184.6	185.7	180.5	173.5	174.4	175.6	176.6	176.3	177.2	177.5

^{1.} Data have been revised because of benchmarking to new Call Reports beginning July 1986. Back data are available from the Banking and Monetary Statistics section, Board of Governors of the Federal Reserve System, Washington, D.C., 20551.

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 Wednesday 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 banking institutions include insured domestically chartered 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 ALL LARGE WEEKLY REPORTING COMMERCIAL BANKS with Domestic Assets of \$1.4 Billion or More on December 31, 1982, Assets and Liabilities

Millions of dollars, Wednesday figures

	1987								
Account	Nov. 4	Nov. 11	Nov. 18	Nov. 25	Dec. 2	Dec. 9	Dec. 16	Dec. 23	Dec. 30'
1 Cash and balances due from depository institutions 2 Total loans, leases, and securities, net	104,047	106,338	100,794	99,175	108,378′	97,636′	105,037'	106,811′	113,394
	1,029,460°	1,0 20,093 ^r	1,020,636'	1,014,084	1,023,781′	1,012,808′	1,024,791'	1,016,071′	1,024,441
3 U.S. Treasury and government agency 4 Trading acount	116,718	115,659	118,856	117,548	119,364′	119,092'	118,436 ⁷	118,239'	116,679
	14,666	13,988	15,399	14,452	15,383	14,787	13,483	12,242	11,022
	102,052	101,671	103,457	103,096	103,981′	104,305'	104,953 ⁷	105,996'	105,658
6 One year or less 7 Over one through five years 8 Over five years	15,884	15,953	15,934	15,798	16,193	16,075	16,075	16,034	15,891
	44,412	44,332	44,997	44,952	45,854	46,142	46,773	46,730	46,705
	41,757	41,385	42,525	42,346	41,933	42,086	42,102	43,230	43,060
9 Other securities 10 Trading account 11 Investment account	68,571	68,499	68,772	69,038	68,360°	68,156 ^r	68,295 ^r	68,442 ^r	69,370
	2,596	2,467	2,415	2,551	2,187	1,981	2,230	2,377	2,953
	65,975	66,031	66,357	66,486	66,173°	66,175 ^r	66,066 ^r	66,064 ^r	66,417
12 States and political subdivisions, by maturity 13 One year or less 14 Over one year 15 Other bonds, corporate stocks, and securities	42,633	47,797 5,216 42,580 18,234	47,598 5,227 42,370 18,759	47,541 5,219 42,322 18,945	47,256 5,144 42,112 18,917'	47,201 5,192 42,008 18,974 ^r	47,083 5,187 41,896 18,982	46,982 5,186 41,796 19,083 ^r	47,012 5,201 41,811 19,404
16 Other trading account assets	2,960 74,436	3,027	3,114 66,010	3,293 61,422	3,161 67,365	2,869 59,129	2,629 66,172	2,675	2,880 63,563
18 To commercial banks 19 To nonbank brokers and dealers in securities 20 To others	46,827	40,005	40,003	37,024	43,149	36,279	44,741	35,884	44,223
	19,153	20,972	18,031	16,687	17,442	15,957	14,506	13,776	13,109
	8,455	8,204	7,976	7,712	6,774	6,893	6,925	6,447	6,231
21 Other loans and leases, gross 22 Other loans, gross 23 Commercial and industrial	805,708'	802,686 ^r	802,814'	801,693 ^r	804,288 ^r	802,283'	807,894'	809,020°	810,060
	785,712'	782,504 ^r	782,636'	781,488 ^r	784,353 ^r	782,273'	787,816'	788,820°	789,740
	276,918'	276,351 ^r	276,558'	275,645 ^r	276,665 ^r	275,938'	277,657'	278,380°	279,499
21 Other loans and leases, gross 22 Other loans, gross 23 Commercial and industrial 24 Bankers acceptances and commercial paper 25 All other 26 U.S. addressees 27 Non-U.S. addressees	2,289	2,275	2,353	2,224	2,180	2,200	2,063	1,996	2,010
	274,628'	274,075'	274,204	273,421 ^r	274,485 ^r	273,738'	275,594'	276,384 ^r	277,489
	271,598'	271,001'	271,254	270,462 ^r	271,495 ^r	270,676'	272,549'	273,295 ^r	274,507
	3,030	3,075	2,950	2,959	2,990	3,061	3,045	3,089	2,982
28 Real estate loans	241,261'	242,024'	242,755'	243,111 ^r	243,577'	243,778 ^r	244,746 ^r	245,420 ^r	245,894
	14,174	14,240	14,318	14,428	14,436	14,532	14,676	14,784	15,026
30 All other. To individuals for personal expenditures To depository and financial institutions Commercial banks in the United States	227,087' 142,520' 51,347' 22,429'	227,784' 142,567' 51,020'	228,436' 142,333' 50,739'	228,683' 142,321' 49,766'	229,140' 142,448' 50,652' 22,422'	229,246' 142,896' 50,494' 21,993'	230,070' 143,944' 50,516'	230,636' 144,953' 50,295' 21,694'	230,868 144,541 50,062
Banks in foreign countries Nonbank depository and other financial institutions For purchasing and carrying securities	5,289 23,628	22,735' 4,770 23,514 12,650	22,058' 4,970 23,711 12,407	22,112' 4,314 23,341 12,488	4,400 23,647' 12,898	4,516 23,803' 12,507	22,006' 4,225 24,102' 13,064'	4,506 23,912 ^r 12,792 ^r	21,723 4,210 24,128 12,861
77 To finance agricultural production	5,601	5,504	5,573	5,508	5,531	5,522	5,557	5,560	5,713
	31,474	31,366	31,443	31,301	31,124	30,894	30,807	30,609	30,413
	2,888	2,840	2,844	2,813	2,799	2,752	2,810	2,734	2,660
40 All other	19,024 ^r	18,184′	17,985'	18,534′	18,656′	17,488'	18,714 ^r	18,075′	18,099
	19,996 ^r	20,181′	20,178'	20,204′	19,935′	20,011'	20,077 ^r	20,200′	20,320
	4,586 ^r	4,592′	4,601'	4,548′	4,499′	4,523'	4,524 ^r	4,545′	4,428
43 Loan and lease reserve	34,336	34,356	34,318	34,352	34,498	34,439	34,351	34,108	33,925
	766,775′	763,727	763,884'	762,782 ^r	765,531 ^r	763,561'	769,259'	770,607'	771,948
	127,818′	125,462	124,154'	119,758 ^r	121,954 ^r	120,564'	124,501'	121,937'	122,137
46 Total assets 47 Demand deposits	234,023	1,251,892 ^r 223,223	1,245,584 ⁷ 224,965	1,233,016 ^r 217,809	1,254,113 ^r 225,666 ^r	1,231,008' 213,082'	1,254,330 ^r 237,814 ^r	1,244,819° 230,206°	1,259,988 239,164
48 Individuals, partnerships, and corporations 49 States and political subdivisions 50 U.S. government	180,167 5,493 4,581	175,482 5,140 1,460	173,804 5,344 3,852	171,882 5,601 2,190	177,824 5,658 1,474	168,885 5,193 1,364	183,331 6,192 3,716 27,731	180,792 6,096 3,427	184,002 5,887 3,139
51 Depository institutions in the United States	24,947 6,928 810 11,098	25,261 6,445 848 8,587	24,805 6,604 651 9,906	23,154 6,467 755 7,761	23,529' 7,090 809 9,282	21,663' 7,017 763 8,195	6,499 1,035 9,309	23,980' 6,652 689 8,570	26,991 6,883 1,199 11,063
54 Certified and officers' checks 55 Transaction balances other than demand deposits 56 Nontransaction balances 57 Individuals, partnerships, and corporations	62,477	61,824	61,228	60,792	62,753	62,306	62,399	62,574	62,235
	535,335	535,904	536,595	535,801	536,090	536,826	536,098	536,529	534,985
	498,289	499,007	499,467	498,327	499,014	499,662	498,785	498,816	497,334
58 States and political subdivisions 59 U.S. government 60 Depository institutions in the United States	25,345	25,159	25,088	25,357	25,022	25,292	25,381	25,425	25,370
	773	748	764	832	779	763	910	898	892
	10,095	10,165	10,452	10,451	10,429	10,278	10,208	10,580	10,602
61 Foreign governments, official institutions, and banks 62 Liabilities for borrowed money	833	825	824	834	846	831	815	810	788
	258,040 ^r	259,414'	250,946'	245,596 ^r	257,183'	242,752 ^r	246,563 ^r	242,417'	250,072
	345	260	369	330	415	630	565	185	430
64 Treasury tax-and-loan notes	14,033	20,490	16,626	16,895	16,117	5,382	12,394	22,168	23,170
	243,662 ^r	238,663'	233,952'	228,370′	240,651'	236,740'	233,604 ^r	220,064'	226,321
	92,020 ^r	91,586'	92,244'	94,202′	92,820'	95,612'	91,834 ^r	93,468'	94,630
67 Total liabilities	1,181,895' 79,430	1,1 71,951' 79,942	1,165,978' 79,606	1,154,200° 78,816	1,1 74,513 7 79,600	1,150,579° 80,429	1,174,709 79,621	1,165,195' 79,624	1,181,087 78,901
MEMO 69 Total loans and leases (gross) and investments adjusted ⁴ 70 Total loans and leases (gross) adjusted ⁴	999,137' 810,888'	996,311' 809,126'	997,505' 806,763'	993,858' 803,980'	997,219' 806,082'	993,510' 803,141'	996,931 ^r 807,319 ^r	997,157' 807,549' 173,729	996,859 807,677
71 Time deposits in amounts of \$100,000 or more 72 Loans sold outright to affiliates—total ⁵ 73 Commercial and industrial	172,558 1,708 1,248	172,597 1,718 1,263	172,906 1,778 1,321	172,866 1,812 1,352	171,172 1,731 1,270	172,264 1,699 1,245	172,002 1,557 1,126	1,500 1,080	173,501 1,366 1,057
74 Other	459 224,976	455 224,971	456 225,070	224,050	461 225,674	454 225,236	431 224,754	420 223,278	309 222,410

Includes securities purchased under agreements to resell.
 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.

^{4.} Exclusive of loans and federal funds transactions with domestic commercial

Excusive or loans and receral runds 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 LARGE WEEKLY REPORTING COMMERCIAL BANKS IN NEW YORK CITY Assets and Liabilities

Millions of dollars, Wednesday figures except as noted

		1987									
Account	Nov. 4	Nov. 11	Nov. 18	Nov. 25	Dec. 2	Dec. 9	Dec. 16	Dec. 23	Dec. 30		
Cash balances due from depository institutions Total loans, leases and securities, net	25,488 219,192	26,426 214,775	23,107 215,004 ^r	22,068 210,788	25,598 216,198	25,475 210,923 '	24,132 216,740°	25,476 211,881	29,583 215,505 ^r		
Securities 3 U.S. Treasury and government agency ² 4 Trading account ² 5 Investment account, by maturity 6 One year or less 7 Over one through five years 8 Over five years 9 Other securities ² 10 Trading account ² 11 Investment account 12 States and political subdivisions, by maturity 13 One year or less 14 Over one year 15 Other bonds, corporate stocks, and securities 16 Other trading account assets ²	0 0 14,141 1,441 4,216 8,483 0 0 16,572 13,482 788 12,694 3,090	0 0 13,821 1,469 4,122 8,230 0 16,657 13,453 795 12,659 3,203	0 0 14,368 1,517 4,640 8,212 0 16,736 13,355 786 12,568 3,381	0 0 13,718 1,498 4,663 7,557 0 0 16,753 13,291 775 12,515 3,462	0 0 14,311 1,452 4,681 8,178 0 0 16,926 13,262 874 12,387 3,664	0 0 14,224 1,417 4,608 8,199 0 16,953 13,258 880 12,379 3,694	0 0 14,451 1,523 4,609 8,319 0 17,029 13,262 865 12,397 3,766 0	0 14,333 1,245 4,643 8,445 0 0 16,927 13,274 879 12,395 3,653	0 14,553 1,381 4,707 8,465 0 0 17,144 13,302 868 12,434 3,842 0		
Loans and leases 17 Federal funds sold 18 To commercial banks 19 To nonbank brokers and dealers in securities 20 To others 21 Other loans and leases, gross 22 Other loans, gross 23 Commercial and industrial 24 Bankers acceptances and commercial paper 25 All other 26 U.S. addressees 27 Non-U.S. addressees 28 Real estate loans 29 Revolving, home equity 30 All other 31 To individuals for personal expenditures 32 To depository and financial institutions 33 Commercial banks in the United States 34 Banks in foreign countries 35 Nonbank depository and other financial institutions 36 For purchasing and carrying securities 37 To finance agricultural production 38 To states and political subdivisions 39 To foreign governments and official institutions 40 All other 41 Lease financing receivables 42 Less: Unearned income 43 Loan and lease reserve 44 Other loans and lease reserve	31,439 14,259 11,825 5,354 172,576' 168,068' 59,181 43,313 42,374' 58,742 58,214 52,21	29,539 11,479 12,850 5,209 170,326* 165,815; 58,562 380 2,329 42,506* 58,182 57,635 547 21,804* 12,222* 2,784 6,798 4,394 4,394 4,394 6,798 4,512 1,352* 1,3	30,165 14,241 10,959 4,965 169,285° 164,796* 57,841 411 2,353 42,653° 57,430 473 44,006° 21,037° 21,541' 11,799° 2,968 6,774 4,794 4,794 4,794 4,794 4,794 1,365° 14,186 153,736°	26,826 11,953 9,992 4,881 169,035 164,515 56,954 338 2,373 42,708 56,596 56,142 45,080 21,180 21,180 21,380 7,745 6,220 4,520	30,182 15,313 10,779 4,090 170,345° 165,860° 57,463 357 2,389 42,972° 57,105 450 45,361° 21,180° 21,18	26,163 11,985 9,544 4,635 169,153 ⁷ 164,615 757,105 336 2,407 43,209 ⁷ 56,277 491 45,616 ⁷ 21,255 ⁷ 21,727 ⁷ 12,088 ⁷ 2,682 6,957 4,824 4,824 4,824 4,824 4,824 1,338 ⁷ 14,233 153,583 ⁷	28,858 16,333 8,947 3,578 171,924 167,375 58,195 318 2,424 43,668 57,878 57,406 472 21,451 21,999 12,208 2,342 7,449 5,291 3,742 3,742 1,546 1,5	24,645 12,412 8,312 3,921 171,384' 166,830' 58,010 306 2,441 44,201' 57,7244 460 46,642' 21,581' 21,897' 12,253' 2,625 7,020 4,944 4,554 1,350' 14,048 155,975' 51,836'	26,753 15,081 8,320 3,352 172,395' 167,830' 58,447' 304 2,463 44,699' 58,142' 21,747' 21,747' 21,747' 21,747' 21,747' 21,747' 21,747' 21,747' 21,747' 12,196' 2,316' 7,193' 4,724' 25,738' 597' 5,780' 4,565' 13,655' 13,975' 157,055' 13,975' 157,055' 13,975' 157,055' 13,975' 157,055' 13,975' 157,055' 13,385'		
46 Total assets	305,858	299,635	298,296	288,726	299,176	290,294	296,608	289,192	298,474		
Deposits 47 Demand deposits 48 Individuals, partnerships, and corporations 49 States and political subdivisions 50 U.S. government 51 Depository institutions in the United States 53 Farsian governments and official institutions 54 Certified and officers' checks 55 Transaction balances other than demand deposits 67 (ATS, NOW, Super NOW, telephone transfers) 58 Nontransaction balances 59 Individuals, partnerships, and corporations 58 States and political subdivisions 59 U.S. government 60 Depository institutions in the United States 61 Foreign governments, official institutions, and banks 62 Liabilities for borrowed money 63 Borrowings from Federal Reserve Banks 64 Treasury tax-and-loan notes 65 All other liabilities and subordinated note and debentures 66 Total liabilities	63,618 44,225 879 870 6,118 5,623 101,446 92,300 6,794 1,870 415 70,652 0 3,283 67,365 38,767 282,557	56,801 39,952 1,066 261 5,871 5,226 703 3,722 8,094 101,376 92,527 6,530 55 1,878 388 73,380 0,5,007 68,372 36,398	60,251 40,612 877 7116 5,303 517 5,098 8,002 101,404 92,574 6,542 77 1,848 69,556 04,222 65,334 35,763	54,185 38,671 791 367 5,715 5,223 587 2,831 7,932 101,097 92,342 6,481 56 1,835 64,759 0,4327 60,432 37,632	56,287 39,683 912 192 5,292 5,894 3,684 8,171 101,566 93,046 6,238 71,829 73,560 0 4,173 69,387 36,196	53,403 37,296 846 187 5,434 5,759 626 3,255 8,062 101,144 92,551 6,326 60 1,833 373 65,077 0 1,269 63,808 39,044	62,863 43,119 968 595 7,680 5,337 889 4,274 8,163 81,1300 92,737 6,248 370 63,327 03,662 59,726 37,553 273,208	58,495 41,654 810 566 5,999 5,277 553 3,636 8,249 101,225 92,647 6,127 50 2,015 386 58,880 0,5,570 53,310 38,953	63,743 42,692 7583 7,573 5,640 1,061 5,424 8,337 61,299 6,122 313 61,299 0,5,642 55,656 40,347		
67 Total liabilities 68 Residual (total assets minus total liabilities) ⁶	282,557	276,049	23,321	23,120	275,780	23,562	273,208	23,390	275,266		
MEMO 69 Total loans and leases (gross) and investments adjusted ^{1,7} 70 Total loans and leases (gross) adjusted ⁷ 71 Time deposits in amounts of \$100,000 or more	208,633' 177,920' 38,448	206,641' 176,163' 38,397	204,515' 173,410' 38,361	202,383 ^r 171,912 ^r 38,016	204,266′ 173,029′ 37,776	202,420 ^r 171,243 ^r 37,761	203,721' 172,241' 37,476	202,624' 171,363' 37,881	203,569' 171,871' 37,437		

Excludes trading account securities.
 Not available due to confidentiality.
 Includes securities purchased under agreements to resell.
 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.

Note. These data also appear in the Board's H.4.2 (504) release. For address, see inside front cover.

1.30 LARGE WEEKLY REPORTING U.S. BRANCHES AND AGENCIES OF FOREIGN BANKS¹ Assets and Liabilities

Millions of dollars, Wednesday figures

	1987									
Account	Nov. 4	Nov. 11	Nov. 18	Nov. 25	Dec. 2	Dec. 9	Dec. 16	Dec. 23	Dec. 30	
Cash and due from depository institutions Total loans and securities	10,434	10,013	10,922	9,970	11,801	9,920	10,326	10,150	10,878	
	97,204	96,081	98,486	96,156	96,785	99,280	100,996	102,108	106,201	
securities	7,466	7,290	7,558	7,328	7,681	7,626	7,511	7,370	7,056	
	7,402	7,516	7,456	7,450	7,394	7,299	7,341	7,474	7,811	
	8,474	8,073	10,615	7,679	6,947	8,988	10,272	9,364	11,688	
6 To commercial banks in the United States. 7 To others	6,730	6,081	8,191	5,663	4,174	6,354	8,152	7,490	10,136	
	1,744	1,992	2,423	2,016	2,772	2,634	2,120	1,874	1,552	
	73,860	73,202	72,857	73,698	74,763	75,367	75,872	77,899	79,645	
9 Commercial and industrial 10 Bankers acceptances and commercial paper 11 All other	49,111 3,361 45.751	1,553 45,995	1,448 46,624	47,700 1,501 46,199	1,488 46,744	1,524 47,756	49,217 1,457 47,760	50,530 1,528 49,002	1,668 50,584	
12 U.S. addressees	43,421	43,597	44,234	43,743	44,400	45,281	45,192	46,751	48,526	
	2,330	2,398	2,391	2,456	2,344	2,475	2,568	2,251	2,183	
	15,597	15,815	15,605	16,805	16,618	16,237	16,279	16,901	16,766	
15 Commercial banks in the United States. 16 Banks in foreign countries 17 Nonbank financial institutions	11,644	11,872	11,437	12,688	12,218	11,806	11,924	12,429	12,153	
	1,012	913	1,133	1,093	1,288	1,272	1,223	1,208	1,245	
	2,940	3,029	3,035	3,024	3,112	3,159	3,132	3,264	3,368	
18 To foreign governments and official institutions	388	400	407	403	401	411	398	400	418	
	2,062	2,339	1,655	1,738	1,991	1,971	2,200	2,201	2,121	
	6,701	7,100	7,118	7,052	7,522	7,468	7,777	7,866	7,962	
21 Other assets (claims on nonrelated parties) 22 Net due from related institutions	28,927	31,776	31,619	31,805	31,787	31,798	31,264	31,427	31,500	
	15,953	14,071	13,816	16,081	14,182	13,879	12,498	13,256	12,676	
	152,517	151,942	154,844	154,012	154,555	154,877	155,084	156,942	161,255	
 Deposits or credit balances due to other than directly related institutions Transaction accounts and credit balances Individuals, partnerships, and 	42,747	42,397	41,917	41,849	41,773	42,366	43,088	43,349	44,244	
	3,527	3,341	3,221	2,918	2,841	3,092	3,206	3,033	3,461	
corporations	1,865	1,908	1,932	1,714	1,709	1,969	1,876	1,909	1,895	
	1,662	1,432	1,289	1,204	1,132	1,123	1,330	1,124	1,566	
	39,219	39,056	38,696	38,931	38,932	39,274	39,882	40,315	40,783	
29 Individuals, partnerships, and corporations	31,889	31,954	31,655	31,912	31,234	31,430	32,290	32,718	33,190	
	7,330	7,102	7,042	7,018	7,699	7,844	7,592	7,597	7,593	
related institutions	56,494	54,297	57,873	58,464	58,777	56,187	56,865	54,285	56,753	
	27,448	25,598	28,195	27,249	28,495	25,886	25,380	22,167	24,201	
United States	17,568	15,592	17,030	16,924	16,373	13,943	15,256	12,413	15,115	
	9,880	10,007	11,166	10,326	12,122	11,943	10,124	9,754	9,086	
	29,046	28,699	29,678	31,215	30,282	30,302	31,486	32,118	32,552	
36 To commercial banks in the United States	22,743	22,672	23,826	24,299	23,841	23,081	24,295	24,359	25,128	
	6,303	6,027	5,851	6,916	6,441	7,221	7,190	7,759	7,424	
	33,004	32,830	32,928	33,016	33,304	33,338	32,544	32,639	32,557	
39 Net due to related institutions	20,272	22,417	22,124	20,683	20,701	22,986	22,587	26,668	27,701	
	152,517	151,942	154,844	154,012	154,555	154,877	155,084	156,942	161,255	
MEMO 41 Total loans (gross) and securities adjusted ⁶ 42 Total loans (gross) adjusted ⁶	78,829	78,128	78,857	77,804	80,393	81,121	80,920	82,189	83,912	
	63,960	63,322	63,843	63,026	65,317	66,195	66,068	67,344	69,044	

Effective Jan. 1, 1986, the reporting panel includes 65 U.S. branches and agencies of foreign banks that include 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.
 Includes securities purchased under agreements to resell.
 Includes credit balances, demand deposits, and other checkable deposits.

^{4.} Includes savings deposits, money market deposit accounts, and time depos-

its.

5. Includes securities sold under agreements to repurchase.

6. Exclusive of loans to and federal funds sold to commercial banks in the United States.

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1.31 GROSS DEMAND DEPOSITS Individuals, Partnerships, and Corporations¹

Billions of dollars, estimated daily-average balances, not seasonally adjusted

	Commercial banks										
Type of holder	1982	1983	1984	1985	1986		1987				
	Dec.	Dec.	Dec.	1985 Dec. ^{3,4}	Sept.	Dec.	Mar.	June	une Sept.	Dec.	
1 All holders—Individuals, partnerships, and corporations	291.8	293.5	302.7	321.0	333.6	363.6	335.9	340.2	339.0		
2 Financial business 3 Nonfinancial business 4 Consumer 5 Foreign. 6 Other	35.4 150.5 85.9 3.0 17.0	32.8 161.1 78.5 3.3 17.8	31.7 166.3 81.5 3.6 19.7	32.3 178.5 85.5 3.5 21.2	35.9 185.9 86.3 3.3 22.2	41.4 202.0 91.1 3.3 25.8	35.9 183.0 88.9 2.9 25.2	36.6 187.2 90.1 3.2 23.1	36.5 188.2 88.7 3.2 22.4	n.a.	
	Weekly reporting banks										
	1982	1983 i Dec. D	1984 Dec. ²	1985 Dec. ^{3,4}	1986		1987				
					Sept.	Dec.	Mar.	June	Sept.	Dec.	
7 All holders—Individuals, partnerships, and corporations	144.2	146.2	157.1	168.6	174.7	195.1	178.1	179.3	179.1	187.0	
8 Financial business 9 Nonfinancial business 10 Consumer 11 Foreign 12 Other	26.7 74.3 31.9 2.9 8.4	24.2 79.8 29.7 3.1 9.3	25.3 87.1 30.5 3.4 10.9	25.9 94.5 33.2 3.1 12.0	28.9 94.8 35.0 3.2 12.8	32.5 106.4 37.5 3.3 15.4	28.7 94.4 36.8 2.8 15.5	29.3 94.8 37.5 3.1 14.6	29.3 96.0 37.2 3.1 13.5	29.5 100.8 39.4 3.3 14.0	

^{1.} Figures include cash items in process of collection. Estimates of gross deposits are based on reports supplied by a sample of commercial banks. Types of depositors in each category are described in the June 1971 BULLETIN, p. 466. Figures may not add to totals because of rounding.

2. Beginning in March 1984, these data reflect a change in the panel of weekly reporting banks, and are not comparable to earlier data. Estimates in billions of ollars for December 1983 based on the new weekly reporting panel are: financial business, 24.4; nonfinancial business, 80.9; consumer, 30.1; foreign, 3.1; other 9.5.

3. Beginning March 1985, financial business deposits and, by implication, total gross demand deposits have been redefined to exclude demand deposits due to

thrift institutions. Historical data have not been revised. The estimated volume of such deposits for December 1984 is \$5.0 billion at all insured commercial banks and \$3.0 billion at weekly reporting banks.

4. Historical data back to March 1985 have been revised to account for corrections of bank reporting errors. Historical data before March 1985 have not been revised, and may contain reporting errors. Data for all commercial banks for March 1985 were revised as follows (in billions of dollars): all holders, -3; financial business, -8; nonfinancial business, -4; consumer, 9; foreign, 1; other, -1. Data for weekly reporting banks for March 1985 were revised as follows (in billions of dollars): all holders, -1; financial business, -.7; nonfinancial business, -.5; consumer, 1.1; foreign, .1; other, -.2.

1.32 COMMERCIAL PAPER AND BANKERS DOLLAR ACCEPTANCES OUTSTANDING

Millions of dollars, end of period

	1983	1984	1985	1986	1987			19	87		
Instrument	Dec.	Dec.	Dec.	Dec.	Dec.	July	Aug.	Sept.	Oct.	Nov. ¹	Dec.
			Cor	nmercial pa	per (seasor	nally adjuste	ed unless n	oted otherw	ise)		
1 All issuers	187,658	237,586	300,899	331,016	357,130	349,976	350,780	357,019	356,578	351,846	357,130
Financial companies ² Dealer-placed paper ³ 2 Total	44,455 2,441 97,042 35,566 46,161	56,485 2,035 110,543 42,105 70,558	78,443 1,602 135,504 44,778 86,952	100,207 2,265 152,385 40,860 78,424	101,958 1,428 173,940 43,173 81,232	108,470 2,311 162,764 46,354 78,742	109,941 2,404 162,674 45,487 78,165	114,435 2,590 165,344 46,815 77,240	109,020 2,689 170,403 46,249 77,155	105,197 1,893 169,779 45,353 76,870	101,958 1,428 173,940 43,173 81,232
				Bankers d	ollar accep	tances (not	seasonally	adjusted) ⁶			
7 Total	78,309	78,364	68,413	64,974	70,565	68,495	68,645	68,771	71,891	71,068	70,565
Holder 8 Accepting banks 9 Own bills 10 Bills bought Federal Reserve Banks 11 Own account 12 Foreign correspondents 13 Others	9,355 8,125 1,230 418 729 67,807	9,811 8,621 1,191 0 671 67,881	11,197 9,471 1,726 0 937 56,279	13,423 11,707 1,716 0 1,317 50,234	10,942 9,464 1,479 0 965 58,658	10,664 9,630 1,035 0 1,463 56,367	10,870 9,905 965 0 1,397 56,378	10,521 9,400 1,121 0 1,467 56,784	10,856 9,742 1,114 0 1,400 59,635	10,701 9,714 987 0 1,134 59,234	10,942 9,464 1,479 0 965 58,658
Basis 14 Imports into United States	15,649 16,880 45,781	17,845 16,305 44,214	15,147 13,204 40,062	14,670 12,960 37,344	16,483 15,227 38,847	17,431 14,659 36,405	17,087 14,967 36,590	17,198 15,046 36,526	17,814 15,949 38,122	16,942 15,435 38,691	16,483 15,227 38,847

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

Percent per year

Effective date	Rate	Effective Date	Rate	Month	Average rate	Month	Average rate
1985—Jan. 15	10.50 10.00 9.50 9.00 8.50 8.00 7.50	1987—Apr. 1	7.75 8.00 8.25 8.75 9.25 9.00 8.75	1985—Jan. Feb. Mar. Apr. Apr. May June July Aug. Sept. Oct. Nov. Dec. 1986—Jan. Feb. Mar. Apr. May June July Aug.	10.61 10.50 10.50 10.50 10.31 9.78 9.50 9.50 9.50 9.50 9.50 9.50 9.50 9.50	1986—Sept. Oct. Nov. Dec. 1987—Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. 1988—Jan.	7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50

Note. These data also appear in the Board's H.15 (519) release. For address, see inside front cover.

^{1.} A change in the reporting panel in November resulted in a slight understatement of outstanding volume.
2. Institutions engaged primarily in activities such as, but not limited to, commercial savings, and mortgage banking; sales, personal, and mortgage financing; factoring, finance leasing, and other business lending; insurance underwriting; and other investment activities.
3. Includes all financial company paper sold by dealers in the open market.
4. 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,

communications, construction, manufacturing, mining, wholesale and retail trade, transportation, and services.

6. Beginning October 1984, the number of respondents in the bankers acceptance survey were reduced from 340 to 160 institutions—those with \$50 million or more in total acceptances. The new reporting group accounts for over 95 percent of total acceptances activity.

1.35 INTEREST RATES Money and Capital Markets

Averages, percent per year; weekly and monthly figures are averages of business day data unless otherwise noted.

	1004	1004	1007		1987		1988		1988	B, week en	ding	
Instrument	1985	1986	1987′	Oct.	Nov.	Dec.	Jan.	Jan. 1	Jan. 8	Jan. 15	Jan. 22	Jan. 29
Money Market Rates					-							
Federal funds ^{1,2} Discount widow borrowing ^{1,2,3} Commercial paper ^{6,5} 1-month	8.10	6.80	6.66	7.29	6.69	6.77	6.83	6.81	7,02	6.81	6.89	6.66
	7.69	6.33	5.66	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
4 3-month	7.94	6.62	6.73	7.38	6.77	7.76	6.76	7.45	6,85	6.80	6.75	6.66
	7.95	6.49	6.81	7.89	7.17	7.61	6.87	7.30	6,95	6.92	6.85	6.75
	8.01	6.39	6.84	7.96	7.17	7.49	6.92	7.22	7,00	7.00	6.91	6.78
5 6-month Finance paper, directly placed 6,3 6 1-month 7 3-month 8 6-month	7.91	6.58	6.61	7.28	6.63	7.23	6.65	6.97	6.74	6.69	6.61	6.54
	7.77	6.38	6.54	7.40	6.91	6.97	6.62	6.78	6.67	6.68	6.61	6.51
	7.75	6.31	6.37	7.17	6.69	6.64	6.53	6.63	6.59	6.60	6.53	6.41
Bankers acceptances ^{3,6} 9 3-month 10 6-month	7.92	6.39	6.74	7.85	7.07	7.48	6.77	7.17	6.89	6.83	6.73	6.61
	7.96	6.29	6.77	7.92	7.07	7.41	6.83	7.14	6.97	6.93	6.76	6.63
Certificates of deposit, secondary market 1	7.97	6.61	6.74	7.39	6.80	7.86	6.78	7.57	6.87	6.81	6.76	6.66
	8.05	6.52	6.86	8.02	7.24	7.66	6.92	7.38	7.03	6.99	6.87	6.77
	8.25	6.51	7.00	8.19	7.31	7.67	7.10	7.40	7.21	7.21	7.07	6.09
	8.28	6.71	7.06	8.29	7.41	7.86	7.11	7.69	7.23	7.23	7.11	7.03
Secondary market Secondary m	7.48	5.98	5.78	6.13	5.69	5.77	5.81	5.73	5.86	5.81	5.85	5.74
	7.65	6.03	6.03	6.69	6.19	6.36	6.25	6.26	6.36	6.29	6.25	6.11
	7.81	6.08	6.32	7.05	6.50	6.69	6.52	6.66	6.66	6.63	6.45	6.33
Auction average	7.49	5.97	5.82	6.40	5.81	5.80	5.90	5.73	5.90	5.85	5.98	5.85
	7.66	6.02	6.05	6.86	6.23	6.36	6.31	6.32	6.35	6.33	6.37	6.19
	7.81	6.07	6.33	6.89	6.48	6.74	6.67	n.a.	n.a.	n.a.	6.67	n.a.
CAPITAL MARKET RATES												
U.S. Treasury notes and bonds 11 Constant maturities 12 1	8.43	6.46	6.77	7.59	6.96	7.17	6.99	7.15	7.15	7.12	6.90	6.77
	9.27	6.87	7.41	8.40	7.69	7.86	7.63	7.82	7.81	7.75	7.57	7.39
	9.64	7.06	7.67	8.75	7.99	8.13	7.87	8.08	8.05	7.99	7.80	7.63
	10.13	7.31	7.94	9.08	8.35	8.45	8.18	8.38	8.37	8.33	8.08	7.91
	10.51	7.55	8.22	9.37	8.69	8.82	8.48	8.69	8.69	8.65	8.37	8.19
	10.62	7.68	8.39	9.52	8.86	8.99	8.67	8.85	8.84	8.84	8.57	8.39
	10.97	7.85	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	10.79	7.80	8.58	9.61	8.95	9.12	8.83	8.95	8.98	9.01	8.74	8.56
29 Over 10 years (long-term)	10.75	8.14	8.63	9.61	8.99	9.12	8.82	8.96	9.00	9.01	8.72	8.55
Moody's series ¹⁴ 30 Aaa	8.60	6.95	7.14	7.90	7.50	7.45	7.29	n.a.	7.40	7.35	7.25	7.15
	9.58	7.76	8.17	8.85	8.47	8.42	8.12	n.a.	8.40	8.30	8.00	7.80
	9.11	7.32	7.64	8.70	7.95	7.96	7.70	n.a.	7.86	7.83	7.61	7.51
Seasoned issues 6 33 All industries	12.05 11.37 11.82 12.28 12.72	9.71 9.02 9.47 9.95 10.39	9.91 9.38 9.68 9.99 10.58	10.97 10.52 10.74 10.98 11.62	10.54 10.01 10.27 10.63 11.23	10.59 10.11 10.33 10.62 11.29	10.37 9.88 10.09 10.43 11.07	10.53 10.06 10.25 10.58 11.24	10.49 10.00 10.19 10.54 11.22	10.48 10.00 10.19 10.52 11.19	10.34 9.88 10.06 10.41 11.02	10.16 9.64 9.90 10.58 10.85 9.76
MEMO: Dividend/price ratio ¹⁸ 39 Preferred stocks	10.49	8.76	8.37	8.99	9.11	9.08	9.04	9.12	9.14	9.11	8.99	8.93
	4.25	3.48	3.08	3.25	3.66	3.71	3.66	3.66	3.51	3.70	3.75	3.66

- places. Thus, average issuing rates in bill auctions will be reported using two rather than three decimal places.

 11. Yields are based on closing bid prices quoted by at least five dealers.

 12. Yields adjusted to constant maturities by the U.S. Treasury. That is, yields are read from a yield curve at fixed maturities. Based on only recently issued, actively traded securities.

 13. Averages (to maturity or call) for all outstanding bonds neither due nor callable in less than 10 years, including one very low yielding "flower" bond.

 14. General obligations based on Thursday figures; Moody's Investors Service.

 15. General obligations only, with 20 years to maturity, issued by 20 state and local governmental units of mixed quality. Based on figures for Thursday.

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

 17. Compilation 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.

 18. Standard and Poor's corporate series. Preferred stock ratio based on a sample of ten issues: four public utilities, four industrials, one financial, and one transportation. Common stock ratios on the 500 stocks in the price index.

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

^{1.} Weekly and monthly figures are averages of all calendar days, where the rate for a weekend or holiday is taken to be the rate prevailing on the preceding business day. The daily rate is the average of the rates on a given day weighted by the volume of transactions at these rates.

2. Weekly figures are averages for statement week ending Wednesday.

3. Rate for the Federal Reserve Bank of New York.

4. Unweighted average of offering rates quoted by at least five dealers (in the case of commercial paper), or finance companies (in the case of finance paper). Before November 1979, maturities for data shown are 30-59 days, 90-119 days, and 120-179 days for commercial paper; and 30-59 days, 90-119 days, and 150-179 days for finance paper.

5. Yields are quoted on a bank-discount basis, rather than in an investment yield basis (which would give a higher figure).

6. Dealer closing offered rates for top-rated banks. Most representative rate (which may be, but need not be, the average of the rates quoted by the dealers).

7. Unweighted average of offered rates quoted by at least five dealers early in the day.

the day.

8. Calendar week average. For indication purposes only.

9. Unweighted average of closing bid rates quoted by at least five dealers.

10. Rates are recorded in the week in which bills are issued. Beginning with the Treasury bill auction held on Apr. 18, 1983, bidders were required to state the percentage yield (on a bank discount basis) that they would accept to two decimal

1.36 STOCK MARKET Selected Statistics

	Γ		1	T								
1.4:	1005	1006	1987				19	87				1988
Indicator	1985	1986	1987	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
				Pr	rices and t	rading (av	erages of o	aily figur	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 ² (Aug. 31, 1973 = 50) Volume of trading (thousands of shares) 8 New York Stock Exchange	108.09 123.79 104.11 56.75 114.21 186.84 229.10	136.00 155.85 119.87 71.36 147.19 236.34 264.38	161.70 195.31 140.39 74.29 146.48 286.83 316.61	163.00 198.78 141.30 71.64 145.97 289.12 328.77	169.58 206.61 150.39 74.25 152.73 301.36 334.49	174.28 214.12 157.49 74.18 152.27 310.09 348.68	184.18 226.49 164.02 78.20 160.94 329.36 361.52	178.39 219.52 158.58 76.13 154.08 318.66 353.72	157.13 189.86 140.95 73.27 137.35 280.16 306.34	137.21 163.42 117.57 69.86 118.30 245.01 249.42	134.88 162.19 115.85 67.39 111.47 240.96 248.52	140.55 168.47 121.20 70.01 119.40 250.48 267.29
9 American Stock Exchange	8,355	11,846	13,832	11,655	12,813	12,857	13,604	12,381	18,173	11,268	13,422	9,853
			Cu	stomer fin	ancing (en	nd-of-perio	d balances	, in millio	ns of dolla	ırs)		
10 Margin credit at broker-dealers ³	28,390	36,840	31,990	38,890	38,420	40,250	41,640	44,170	38,250	34,180	31,990	31,320
Free credii balances at brokers ⁴ 11 Margin-account ³ 12 Cash-account	2,715 12,840	4,880 19,000	4,750 15,640	4,355 16,985	3,680 15,405	4,095 15,930	4,240 16,195	4,270 15,895	8,415 18,455	6,700 15,360	4,750 15,640	4,675 15,270
			Ma	ırgin requi	rements (1	percent of	market va	lue and ef	fective dat	te) ⁶		
	Mar. i	1, 1968	June 8	3, 1968	May 6	5, 1970	Dec. 6	, 1971	Nov. 2	4, 1972	Jan. 3	, 1974
13 Margin stocks		70 50 70	6	0 0 0	l ś	55 50 55	5 5 5	0	6. 5: 6.	0	5(5(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

"margin securities" (as defined in the regulations) when such credit is collateralized 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 X, effective Nov. 1, 1971.

On Jan. 1, 1977, the Board of Governors for the first time established in Regulation T the initial margin required for writing options on securities, setting it at 30 percent of the current market-value of the stock underlying the option. On Sept. 30, 1985, the Board changed the required initial margin, allowing it to be the same as the option maintenance margin required by the appropriate exchange or self-regulatory organization; such maintenance margin rules must be approved by the Securities and Exchange Commission. 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.

^{425), 20} transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial.

2. Beginning July 5, 1983, the American Stock Exchange rebased its index effectively cutting previous readings in half.

3. Beginning July 1983, under the revised Regulation T, margin credit at broker-dealers includes credit extended against stocks, convertible bonds, stocks acquired through exercise of subscription rights, corporate bonds, and government securities. Separate reporting of data for margin stocks, convertible bonds, and subscription issues was discontinued in April 1984.

4. Free credit balances are in accounts with no unfulfilled commitments to the brokers and are subject to withdrawal by customers on demand.

5. New series beginning June 1984.

6. 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

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1.37 SELECTED FINANCIAL INSTITUTIONS Selected Assets and Liabilities

Millions of dollars, end of period

								1987					
Account	1985	1986	Jan.	Feb.	Маг.	Арг.	May	June	July	Aug.	Sept.	Oct.	Nov.
						Savings a	nd loan as	sociations				<u> </u>	
1 Assets	948,781	963,316	935,438'	936,858'	939,721'	944,229	952,671'	949,069	949,238'	955,253	956,744	973,992	975,809
2 Mortgage-backed securities 3 Cash and investment securities 4 Other	97,303 126,712 238,833	123,257 142,700 251,769	129,338' 133,028' 261,858'	128,856 135,885' 263,829'	129,274 ^r 138,746 ^r 266,393 ^r	134,746' 136,370 274,812'	141,023' 138,303' 283,644'	142,241 ^r 138,125 ^r 285,473 ^r	140,897' 138,520' 287,550'	144,058 137,323 292,737	146,247 131,729 295,225	150,230 139,675 301,229	151,986 135,297 304,686
5 Liabilities and net worth	948,781	963,316	935,438′	936,858	939,721	944,229	952,671	949,069	949,238′	955,253	956,744	973,992	975,809
6 Savings capital	750,071 138,798 73,888 64,910 19,045	741,081 159,742 80,194 79,548 20,071	721,714' 153,381' 75,552 77,829' 19,829'	722,226' 152,176' 75,671 76,505' 21,878'	722,548 158,192 ^r 76,469 81,723 ^r 18,958	716,798 165,883' 77,857 88,026' 20,869'	718,633 171,279' 78,583 92,696' 22,628'	715,662 175,394' 79,188 96,206' 19,584'	716,389 174,357 78,888 95,469 20,682	717,259 178,642 79,546 99,096 21,941	721,409 180,360 80,848 99,512 19,158	727,274 190,706 83,303 107,403 20,996	730,324 188,778 84,421 104,357 21,587
11 Net worth ²	41,064	42,423	40,514	40,579	40,023 ^r	40,678′	40,127	38,428′	37,809	37,406	35,814	35,003	35,106
					FS	LIC-insure	d federal	savings ba	nks				
12 Assets	131,868	210,562	235,428	235,763	241,418	246,277	253,006	264,106	268,813	272,088	272,789	276,490	279,153
13 Mortgages	72,355 15,676 11,723	113,638 29,766 19,034	136,782' 33,570 15,769	136,505' 34,634 16,060	138,882 36,088 16,605	140,854 37,500 17,034	144,581 39,371 17,200	150,421 40,969 17,924	152,881' 42,713' 17,546	154,058 43,531 17,779	154,658 44,422 17,559	156,460 45,132 17,383	158,874 45,255 17,325
16 Liabilities and net worth	131,868	210,562	235,428	235,763	241,418	246,277	253,006	264,106	268,813	272,088	272,789	276,490	279,153
17 Savings capital 18 Borrowed money 19 FHLBB 20 Other 21 Other 22 Net worth	103,462 19,323 10,510 8,813 2,732 6,351	157,872 37,329 19,897 17,432 4,263 11,098	176,938' 40,614 20,730 19,884 5,308' 12,774	177,355' 39,777 20,226 19,551 5,484' 13,151	178,672 43,919 21,104 22,815 5,264 13,564	180,637 46,125 21,718 24,407 5,547 13,978	182,802 49,896 22,788 27,108 6,044 14,272	189,998 53,255 24,486 28,769 5,987 14,871	193,890 53,652 24,981 28,671 6,142 ⁷ 15,134	194,853 55,660 25,546 30,114 6,454 15,123	195,213 56,540 26,287 30,253 5,630 15,408	197,296 57,551 27,350 30,201 6,308 15,348	199,114 58,276 27,947 30,329 6,361 15,415
						Sa	vings ban	ks					
23 Assets	216,776	236,866	235,603	238,074	240,739	243,454	245,906	244,760	246,833	249,888	251,472	255,989	260,600
Loans 24 Mortgage 25 Other Securities	110,448 30,876	118,323 35,167	119,199 36,122	119,737 37,207	121,178 38,012	122,769 37,136	124,936 37,313	128,217 35,200	129,624 35,591	130,721 36,793	133,298 36,134	135,317 36,471	137,044 37,189
26 U.S. government 27 Mortgage-backed securities 28 State and local government 29 Corporate and other 31 Other assets	13,111 19,481 2,323 21,199 6,225 13,113	14,209 25,836 2,185 20,459 6,894 13,793	13,332 26,220 2,180 19,795 5,239 13,516	13,525 26,893 2,168 19,770 5,143 13,631	13,631 27,463 2,041 19,598 5,703 13,713	13,743 28,700 2,063 19,768 5,308 13,967	13,650 28,739 2,053 19,956 5,176 14,083	13,549 27,785 2,059 18,803 4,939 14,208	13,498 28,252 2,050 18,821 4,806 14,191	13,720 28,913 2,038 18,573 4,823 14,307	13,122 29,655 2,023 18,431 4,484 14,325	13,817 30,202 2,034 18,062 5,529 14,557	15,694 31,144 2,046 17,583 5,063 14,837
32 Liabilities	216,776	236,866	235,603	238,074	240,739	243,454	245,906	244,760	246,833	249,888	251,472	255,989	260,600
33 Deposits 34 Regular 35 Ordinary savings 36 Time 37 Other 38 Other liabilities 39 General reserve accounts	185,972 181,921 33,018 103,311 4,051 17,414 12,823	192,194 186,345 37,717 100,809 5,849 25,274 18,105	191,441 186,385 38,467 100,604 5,056 24,710 18,236	192,559 187,597 39,370 100,922 4,962 25,663 18,486	193,693 188,432 40,558 100,896 5,261 27,003 18,830	193,347 187,791 41,326 100,308 5,556 29,105 19,423	194,742 189,048 41,967 100,607 5,694 30,436 19,603	193,274 187,669 42,178 100,604 5,605 30,515 19,549	194,549 188,783 41,928 102,603 5,766 31,655 19,718	195,895 190,335 41,767 105,133 5,560 32,467 20,471	196,824 191,376 41,773 107,063 5,448 32,827 20,407	199,336 193,777 42,045 109,486 5,559 34,226 20,365	202,030 196,724 42,493 112,231 5,306 36,167 21,133

1.37—Continued

	1005	1007						1987					
Account	1985	1986	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
							Credit unio	ons ⁴				-	
40 Total assets/liabilities and capital	118,010	147,726	149,383	149,751	153,253	154,549	156,086	160,644	t	t	t	t	t
41 Federal	77,861 40,149	95,483 52,243	96,801 52,586	96,753 52,998	98,799 54,454	99,751 54,798	100,153 55,933	104,150 56,494					
43 Loans outstanding	73,513 47,933 25,580 105,963 70,926 35,037	86,137 55,304 30,833 134,327 87,954 46,373	85,984 55,313 30,671 135,907 89,717 46,130	85,651 54,912 30,739 136,441 89,485 46,956	86,101 55,118 30,983 138,810 91,042 47,768	87,089 55,740 31,349 140,014 92,012 48,002	87,765 55,952 31,813 141,635 97,189 49,248	90,912 58,432 32,480 148,283 96,137 52,146	n.a.	n.a.	n.a.	n.a.	n.a.
76 State		10,373	10,130	10,230	47,700		nsurance c		, ,	•		•	'
49 Assets	825,901	937,551	948,665	961,937	978,455	978,455	985,942	995,576	1,005,592	1,017,018	1,026,919	1,021,148	t
Securities Securities	75,230 51,700 9,708 13,822 423,712 346,216 77,496 171,797 28,822 54,369 71,971	84,640 59,033 11,659 13,948 492,807 401,943 90,864 193,842 31,615 54,055 80,592	84,923 59,596 11,245 14,082 504,582 408,788 95,794 194,213 31,718 53,832 79,397	88,003 62,724 11,315 13,964 514,328 415,004 99,324 194,935 32,003 53,806 78,842	90,337 65,661 10,860 13,816 519,766 417,933 101,833 195,743 31,834 53,652 82,105	89,711 64,621 11,068 14,022 522,097 420,474 101,623 197,315 32,011 53,572 83,749	89,554 64,201 11,208 14,145 528,789 425,788 103,001 198,760 32,149 53,468 83,222	87,279 61,405 11,485 14,389 537,507 432,095 105,412 200,382 200,382 32,357 53,378 84,390	88,199 62,461 11,277 14,461 555,423 448,146 107,277 201,297 32,699 53,338 85,420	89,924 64,150 11,190 14,584 551,701 442,604 109,097 202,241 32,992 53,330 86,830	89,408 63,352 11,087 14,969 558,787 451,453 107,334 204,264 33,048 53,422 87,991	90,782 64,880 11,363 14,539 549,426 455,678 93,748 206,507 33,235 53,413 87,785	n.a.

1. Holdings of stock of the Federal Home Loan Banks are in "other assets."
2. Includes net undistributed income accrued by most associations.
3. Excludes checking, club, and school accounts.
4. Data include all federally insured credit unions, both federal and state chartered, serving natural persons.
5. Direct and guaranteed obligations. Excludes federal agency issues not guaranteed, which are shown in the table under "Business" securities.
6. Issues of foreign governments and their subdivisions and bonds of the International Bank for Reconstruction and Development.

NOTE. Savings and loan associations: Estimates by the FHLBB for all associations in the United States based on annual benchmarks for non-FSLIC-insured associations and the experience of FSLIC-insured sasociations.

FSLIC-insured federal savings banks: Estimates by the FHLBB for federal savings banks insured by the FSLIC and based on monthly reports of federally insured institutions.

Savings banks: Estimates by the National Council of Savings Institutions for all savings banks in the United States and for FDIC-insured savings banks that have converted to federal savings banks.

Credit unions: Estimates by the National Credit Union Administration for federally chartered and federally insured state-chartered credit unions 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."

Domestic Financial Statistics ☐ April 1988 A28

1.38 FEDERAL FISCAL AND FINANCING OPERATIONS

Millions of dollars

					Calend	ar year		
Type of account or operation	Fiscal year 1986	Fiscal year 1987 ¹			1987	·		1988
			Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
U.S. budget ² 1 Receipts, total. 2 On-budget. 3 Off-budget. 4 Outlays, total 5 On-budget. 6 Off-budget. 7 Surplus, or deficit (-), total 8 On-budget. 9 Off-budget.	769,091	854,143	60,213	92,410	62,354	56,987	85,525	81,791
	568,862	640,741	43,511	73,755	45,992	40,630	67,645	60,645
	200,228	213,402	16,703	18,656	16,362	13,357	17,880	21,146
	990,258	1,004,586	81,890	76,980	93,095	83,920	109,741	65,706
	806,760	810,754	65,021	60,337	76,910	67,150	77,845	66,493
	183,498	193,832	16,869	16,643	16,185	16,770	31,896	-787
	-221,167	-150,444	-21,677	15,430	-30,741	-26,934	-24,216	16,085
	-237,898	-170,014	-21,511	13,417	-30,918	-26,520	-10,200	-5,848
	16,731	19,570	-166	2,013	176	-414	-14,016	21,933
Source of financing (total) Borrowing from the public Operating cash (decrease, or increase (-) Other MEMO	236,187	150,070	33,060	-8,060	27,282	23,603	9,766	5,281
	-14,324	-5,052	-3,219	-13,800	-1,879	17,164	-1,218	-17,555
	-696	5,426	-8,165	6,430	5,338	-13,833	15,668	-3,810
13 Treasury operating balance (level, end of period) 14 Federal Reserve Banks 15 Tax and loan accounts	31,384	36,436	22,635	36,436	38,315	21,151	22,369	39,924
	7,514	9,120	3,764	9,120	8,898	3,595	5,313	10,276
	23,870	27,316	18,872	27,316	29,416	17,556	17,056	29,648

^{1.} FY 1987 total outlays and deficit do not correspond to the monthly data because the *Monthly Treasury Statement* has not completed the monthly distribution of revisions reflected in the fiscal year total in *The Budget of the U.S. Government, Fiscal Year 1989*.

2. 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.

3. 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 adjustment; 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.

1.39 U.S. BUDGET RECEIPTS AND OUTLAYS1

Millions of dollars

					1	Calendar yea	г		
Source or type	Fiscal year 1986	Fiscal year 1987'	19	86	19	87	19	987	1988
			ні	H2	H1	H2	Nov.	Dec.	Jan.
RECEIPTS									
1 All sources	769,091	854,143	394,345	387,524	447,282	421,712	56,987	85,525	81,791
2 Individual income taxes, net	348,959 314,803 36	392,557 322,463 33	169,444 153,919 31	183,156 164,071 4	205,157 156,760 30	192,575 170,203	25,039 24,888 0	36,537 34,020 0	43,987 24,979 0
5 Nonwithheld	105,994 71,873	142,957 72,896	78,981 63,488	27,733 8,652	112,421 64,052	31,223 8,853	1,664 1,512	3,309 793	19,262 255
7 Gross receipts	80,442 17,298	102,859 18,933	41,946 9,557	42,108 8,230	52,396 10,881	52,821 7,119	2,558 891	18,633 884	4,450 820
net	283,901	303,318	156,714	134,006	163,519	143,755	23,756	23,361	28,162
contributions ²	255,062	273,185	139,706	122,246	146,696	130,388	20,731	22,735	26,920
contributions ³	11,840 24,098 4,742	13,987 25,418 4,715	10,581 14,674 2,333	1,338 9,328 2,429	12,020 14,514 2,310	1,889 10,977 2,390	144 2,661 364	0 170 457	819 883 360
14 Excise taxes 15 Customs deposits. 16 Estate and gift taxes 17 Miscellaneous receipts 5.	32,919 13,327 6,958 19,884	32,510 15,032 7,493 19,307	15,944 6,369 3,487 10,002	15,947 7,282 3,649 9,605	15,845 7,129 3,818 10,299	17,680 7,993 3,610 10,399	2,854 1,247 617 1,807	3,838 1,361 540 2,141	2,393 1,195 531 1,893
OUTLAYS									
18 All types	990,231	1,004,586	486,058 ^r	505,980	502,206'	532,045 ^r	83,920	109,741'	65,706
19 National defense 20 International affairs 21 General science, space, and technology 22 Energy 23 Natural resources and environment 24 Agriculture	273,375 14,152 8,976 4,735 13,639 31,449	281,999 11,649 9,216 4,115 13,363 27,356	135,367 5,384 12,519 2,484 6,245 14,482	138,544 8,876 4,594 2,735 7,141 16,160	142,886 4,374 4,324 2,335 6,175 11,824	147,009 4,589 5,441 1,531 7,452 13,775	21,366 65 867 316 1,121 3,139	29,070 517 937 316 1,371 1,278	19,895 1,074 773 247 1,097 2,275
25 Commerce and housing credit	4,823 28,117 7,233	6,182 26,228 5,051	860 12,658 3,169	3,647 14,745 3,494	4,893 12,113 3,108	1,402 14,096 2,358	585 2,304 450	-688 2,287 701	1,216 1,990 452
28 Education, training, employment, and social services	30,585	29,724	14,712	15,287	14,182	14,590	3,045	2,301	2,771
29 Health	35,935 268,921 119,796	39,968 282,473 123,250	17,872 135,214 60,786	18,795 138,299 60,628	20,318 142,864 62,248	20,750 158,469 61,449	3,744 23,153 9,595	3,176 40,992 11,485	3,577 6,951 10,220
32 Veterans benefits and services 33 Administration of justice 34 General government 35 General-purpose fiscal assistance 36 Net interest 37 Undistributed offsetting receipts?	26,356 6,603 6,104 6,431 136,008 -33,007	26,782 7,548 5,948 1,621 138,570 -36,455	12,193 3,352 3,566 2,179 68,054 -17,193	14,447 3,360 2,786 2,886 65,816 -17,376	12,264 3,626 3,344 337 70,110 -18,104	14,974 4,251 3,617 1,175 71,882 -18,149	899 649 1,085 148 13,215 -2,990	3,773 774 1,577 129 12,177 -2,770	1,207 706 -52 403 13,551 -2,647

^{1.} 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 Budger have not been fully distributed across months.

2. Old-age, disability, and hospital insurance, and railroad retirement accounts.

3. Old-age, disability, and hospital insurance.

4. Federal employee retirement contributions and civil service retirement and disability fund.

^{5.} Deposits of earnings by Federal Reserve Banks and other miscellaneous receipts.
6. Net interest function includes interest received by trust funds.
7. 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 1988.

A30 Domestic Financial Statistics ☐ April 1988

1.40 FEDERAL DEBT SUBJECT TO STATUTORY LIMITATION

Billions of dollars

	19	85		19	86		1987			
Item	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	
1 Federal debt outstanding	1,827.5	1,950.3	1,991.1	2,063.6	2,129.5	2,218.9	2,250.7	2,313.1	2,354.3	
2 Public debt securities. 3 Held by public. 4 Held by agencies	1,823.1 1,506.6 316.5	1,945.9 1,597.1 348.9	1,986.8 1,634.3 352.6	2,059.3 1,684.9 374.4	2,125,3 1,742.4 382.9	2,214.8 1,811.7 403.1	2,246.7 1,839.3 407.5	2,309.3 1,871.1 438.1	2,350.3 1,893.1 457.2	
5 Agency securities 6 Held by public. 7 Held by agencies	4.4 3.3 1.1	4.4 3.3 1.1	4.3 3.2 1.1	4.3 3.2 1.1	4.2 3.2 1.1	4.0 3.0 1.1	4.0 2.9 1.1	3.8 2.8. 1.0	4.0 3.0 1.0	
8 Debt subject to statutory limit	1,823.8	1,932.4	1,973.3	2,060.0	2,111.0	2,200.5	2,232.4	2,295.0	2,336.0	
9 Public debt securities	1,822.5 1.3	1,931.1 1.3	1,972.0 1.3	2,058.7 1.3	2,109.7 1.3	2,199.3 1.3	2,231.1 1.3	2,293.7 1.3	2,334.7 1.3	
11 МЕМО: Statutory debt limit	1,823.8	2,078.7	2,078.7	2,078.7	2,111.0	2,300.0	2,300.0	2,320.0	2,800.0	

^{1.} Includes guaranteed debt of Treasury and other federal agencies, specified participation certificates, notes to international lending organizations, and District of Columbia stadium bonds.

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

Billions of dollars, end of period

	1983	1001	1005	1006	1986		1987	
Type and holder	1983	1984	1985	1986	Q4	Q1	Q2	Q3
1 Total gross public debt	1,410.7	1,663.0	1,945.9	2,214.8	2,214.8	2,246.7	2,309.3	2,350.3
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*	1,400.9 1,050.9 343.8 573.4 133.7 350.0 36.7 10.4 10.4 0.70.7 231.9	1,660.6 1,247.4 374.4 705.1 167.9 413.2 44.4 9.1 9.1 286.2	1,943.4 1,437.7 399.9 812.5 211.1 505.7 87.5 7.5 7.5 7.5 332.2	2,212.0 1,619.0 1,619.0 426.7 927.5 249.8 593.1 110.5 4.7 4.7 90.6 386.9	2,212.0 1,619.0 426.7 927.5 249.8 593.1 110.5 4.7 4.7 90.6 386.9	2,244.0 1,635.7 406.2 955.3 259.3 608.3 118.5 4.9 4.9 93.0 391.4	2,306.7 1,659.0 391.0 984.4 268.6 647.7 125.4 5.1 5.1 95.2 421.6	2,347.8 1,676.0 378.3 1,005.1 277.6 671.8 129.0 4.4 4.4 97.0 440.7
By holder ⁴ 15 U.S. government agencies and trust funds 16 Federal Reserve Banks 17 Private investors 18 Commercial banks 19 Money market funds 20 Insurance companies 21 Other companies 22 State and local Treasurys 1 Individuals 23 Savings bonds 24 Other securities 25 Foreign and international ⁵ 26 Other miscellaneous investors ⁶	236.3 151.9 1,022.6 188.8 22.8 56.7 39.7 150.5 ⁷ 71.5 61.9 166.3 264.4 ⁷	289.6 160.9 1,212.5 183.4 25.9 76.4 50.1 173.4' 74.5 69.3 192.9 366.6'	348.9 181.3 1,417.2 192.2 25.1 95.8 59.0 235.8' 75.0 212.5 442.0'	403.1 211.3 1,602.0 230.1' 28.6 106.9 68.8 273.1' 92.3 70.5 251.5 486.0'	403.1 211.3 1,602.0 28.6 106.9 68.8 273.17 92.3 70.5 251.5 486.07	407.5 196.4 1,641.4 232.0 18.8 n.a. 73.4 n.a. 94.7 68.3 250.7 n.a.	438.1 212.3 1,657.7 237.1 20.6 n.a. 78.7 n.a. 96.8 68.6 270.1 n.a.	457.2 211.9 1,682.6 250.5 n.a. n.a. 80.2 n.a. 98.5 70.4 268.4 n.a.

Includes (not shown separately): Securities issued to the Rural Electrification Administration; depository bonds, retirement plan bonds, and individual retirement bonds.
 Nonmarketable dollar-denominated and foreign currency-denominated se-

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

ries held by foreigners.

3. Held almost entirely by U.S. Treasury agencies and trust funds.

4. 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. Treasury Bulletin.

1.42 U.S. GOVERNMENT SECURITIES DEALERS Transactions¹

Par value; averages of daily figures, in millions of dollars

la.	1985	1986	1987'	15	987	1988			1987 aı	nd 1988		
ltem	1763	1700	1967	Nov.	Dec.	Jan.	Dec. 23'	Dec. 30'	Jan. 6	Jan. 13	Jan. 20	Jan. 27
Immediate delivery ² I U.S. Treasury securities	75,331	95,445	109,866	95,689	75,157	108,588	81,517	54,635	82,922	99,913	111,025	111,057
By maturity Bills 3 Other within 1 year 4 1-5 years 5 5-10 years 6 Over 10 years	32,900 1,811 18,361 12,703 9,556	34,247 2,115 24,667 20,456 13,961	37,853 3,266 27,857 23,949 16,922	30,259 4,070 28,364 19,153 13,844	25,227 2,965 20,802 15,796 10,367	31,965 3,788 28,717 27,346 16,773	25,862 2,488 24,191 17,507 11,469	19,753 3,027 17,076 9,365 5,415	25,198 4,389 20,836 19,905 12,594	30,252 3,287 26,382 25,196 14,797	38,800 3,665 26,401 26,979 15,180	30,052 3,564 29,863 28,853 17,726
By type of customer U.S. government securities dealers. U.S. government securities brokers All others Certificates of deposit. Bankers acceptances Commercial paper. Futures contracts Treasury bills.	3,336 36,222 35,773 11,640 4,016 3,242 12,717 5,561	3,670 49,558 42,218 16,748 4,355 3,272 16,660 3,311	2,923 61,493 45,449 18,882 4,106 2,966 17,104 3,224	1,894 55,448 38,346 17,919 3,392 2,727 16,007 2,774	2,089 43,458 29,609 14,394 3,019 2,259 15,163 2,342	2,757 63,586 42,244 18,103 4,723 3,201 19,442 2,783	2,866 46,317 32,334 12,262 2,870 1,938 14,625	1,775 28,602 24,257 11,763 2,819 1,804 11,229 1,708	2,023 48,800 32,098 15,867 6,057 3,841 19,199	2,492 61,263 36,157 16,761 4,172 2,950 18,562 2,517	2,975 63,180 44,869 19,410 4,471 3,059 20,279 3,383	2,726 63,046 44,285 16,341 3,996 3,069 17,654 3,105
15 Treasury coupons 16 Federal agency securities 17 Forward transactions 18 Federal agency securities 18 Federal agency securities	6,085 252 1,283 3,857	7,175 16 1,876 7,831	8,956 5 2,061 9,824	8,489 2 2,167 7,191	7,364 5 1,097 5,704	9,410 1 1,698 6,545	7,511 0 1,632 6,268	3,993 25 360 3,364	7,704 0 1,567 3,978	9,512 0 1,343 7,464	8,321 0 1,016 8,615	9,792 0 1,690 4,972

^{1.} 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. The figures exclude allotments of, and exchanges for, new U.S. Treasury securities, redemptions of called or matured securities, purchases or sales of securities under repurchase agreement, reverse repurchase (resale), or similar contracts.

contracts.

2. Data for immediate transactions do not include forward transactions.

3. Includes, among others, all other dealers and brokers in commodities and

securities, nondealer departments of commercial banks, foreign banking agencies, and the Federal Reserve System.

4. Futures contracts are standardized agreements arranged on an organized exchange in which parties commit to purchase or sell securities for delivery at a future date.

5. Forward transactions are agreements arranged in the over-the-counter market in which securities are purchased (sold) for delivery after 5 business days from the date of the transaction for Treasury securities (Treasury bills, notes, and bonds) or after 30 days for mortgage-backed agency issues.

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1.43 U.S. GOVERNMENT SECURITIES DEALERS Positions and Financing¹

Averages of daily figures, in millions of dollars

	1005	1004	1007	19	87	1988		l'	987 and 198	18	
Item	1985	1986	1987	Nov.	Dec.'	Jan.	Dec. 30 ^r	Jan. 6	Jan. 13	Jan. 20	Jan. 27
						Positions					
Net immediate ² I U.S. Treasury securities	7,391	12,912	-6,258	-6,865	-8,657	-13,257	-7,310	11,424	-15,083	-12,145	-13,476
2 Bills	10,075	12,761	4,325	5,702	2,506	2,269	1,529	179	-340	4,641	3,700
	1,050	3,706	1,556	-565	-564	-712	-1,238	-1,639	-961	-629	-79
	5,154	9,146	592	1,750	785	-61	5,486	4,351	634	-1,391	-1,994
	-6,202	-9,505	-6,560	-6,214	-3,565	-5,615	-4,695	-5,321	-4,869	-5,354	-617
	-2,686	-3,197	-6,172	-7,538	-7,819	-9,138	-8,392	-8,994	-9,547	-9,413	-8,933
7 Federal agency securities	22,860	32,984	31,900	29,108	25,314	23,944	22,226	23,375	24,374	24,630	23,164
	9,192	10,485	8,187	6,821	6,815	5,863	7,844	7,654	6,040	5,451	5,289
	4,586	5,526	3,661	3,151	2,409	2,246	2,838	2,573	2,056	2,191	2,321
	5,570	8,089	7,492	7,729	7,953	5,533	9,095	6,873	5,054	5,528	5,213
11 Treasury bills. 12 Treasury coupons. 13 Federal agency securities. Forward positions	-7,322	-18,059	-3,372	1,158	450	-2,162	-1,354	-2,159	-1,411	-2,125	-2,727
	4,465	3,473	5,989	9,170	8,179	7,829	7,709	8,189	8,833	8,342	7,223
	-722	-153	-95	-90	-84	0	-72	0	0	0	0
14 U.S. Treasury securities	-911	-2,144	-1,190	145	-1,641	-1,174	-315	-1,364	-1,302	-2,287	-609
	-9,420	-11,840	-18,817	-18,489	-15,024	-14,389	-12,499	-13,870	-15,875	-14,933	-13,015
					-	Financing ³					
Reverse repurchase agreements ⁴ Overnight and continuing	68,035	98,954	n.a.	117,696	n.a.	126,667	121,267	128,224	122,371	125,177	131,187
	80,509	108,693	n.a.	164,332	n.a.	155,658	130,567	145,945	150,236	153,567	n.a.
	101,410	141,735	n.a.	152,504	n.a.	160,399	149,481	162,475	153,439	162,704	n.a.
	70,076	102,640	n.a.	138,724	n.a.	122,464	108,767	114,106	115,756	118,393	n.a.

^{1.} Data for dealer positions and sources of financing are obtained from reports

estimated.

Data for dealer positions and sources of financing are obtained from reports submitted to the Federal Reserve Bank of New York by the U.S. Treasury securities dealers on its published list of primary dealers.

Data for positions are averages of daily figures, in terms of par value, based on the number of trading days in the period. Positions are net amounts and are shown on a commitment basis. Data for financing are in terms of actual amounts borrowed or lent and are based on Wednesday figures.

2. Immediate positions are net amounts (in terms of par values) of securities owned by nonbank dealer firms and dealer departments of commercial banks on a commitment, that is, trade-date basis, including any such securities that have been sold under agreements to repurchase (RPs). The maturities of some repurchase agreements are sufficiently long, however, to suggest that the securities involved are not available for trading purposes. Immediate positions include

reverses to maturity, which are securities that were sold after having been obtained under reverse repurchase agreements that mature on the same day as the securities. Data for immediate positions do not include forward positions.

3. Figures cover financing involving U.S. Treasury and federal agency securities, negotiable CDs, bankers acceptances, and commercial paper.

4. Includes all reverse repurchase agreements, including those that have been arranged to make delivery on short sales and those for which the securities obtained have been used as collateral on borrowings, that is, matched agreements.

5. Includes both repurchase agreements undertaken to finance positions and "matched book" repurchase agreements.

NOTE. Data on positions for the period May 1 to Sept. 30, 1986, are partially estimated.

1.44 FEDERAL AND FEDERALLY SPONSORED CREDIT AGENCIES Debt Outstanding Millions of dollars, end of period

	1004	1006	1000			19	87		
Agency	1984	1985	1986	July	Aug.	Sept.	Oct.	Nov.	Dec.
i Federal and federally sponsored agencies	271,220	293,905	307,361	313,859	316,940	320,789	328,990	334,678	†
2 Federal agencies 3 Defense Department 1 4 Export-Import Bank 2.3 5 Federal Housing Administration 2 6 Government National Mortgage Association participation	l	36,390 71 15,678 115	36,958 33 14,211 138	36,963 18 13,416 175	37,845 16 13,416 174	37,177 15 12,650 178	37,207 15 12,470 182	37,303 15 12,470 182	
certificates ³ . 7 Postal Service ⁶ . 8 Tennessee Valley Authority. 9 United States Railway Association ⁶ .	2,165 1,337 15,435 51	2,165 1,940 16,347 74	2,165 3,104 17,222 85	1,965 3,718 17,586 85	1,965 4,603 17,586 85	1,965 4,603 17,766 0	1,965 4,603 17,972 0	1,965 4,603 18,068 0	n.a.
10 Federally sponsored agencies ⁷ 11 Federal Home Loan Banks 12 Federal Home Loan Mortgage Corporation 13 Federal National Mortgage Association 14 Farm Credit Banks 15 Student Loan Marketing Association ⁸ 16 Financing Corporation ⁹	83.720	257,515 74,447 11,926 93,896 68,851 8,395 n.a.	270,553 88,752 13,589 93,563 62,478 12,171 n.a.	276,896 100,976 12,309 91,637 55,715 16,259 n.a.	279,095 102,422 14,150 91,568 55,408 15,547 n.a.	283,612 104,380 14,949 92,618 55,276 16,389 n.a.	291,783 108,108 16,703 94,298 55,854 16,220 600	297,375 111,185 17,762 95,096 55,629 16,362 1,200	115,725 n.a. 97,057 54,964 16,503 1,200
MEMO 17 Federal Financing Bank debt ¹⁰	145,217	153,373	157,510	157,302	158,117	157,252	156,919 ^r	156,850	n.a.
Lending to federal and federally sponsored agencies 18 Export-Import Bank' 19 Postal Service' 20 Student Loan Marketing Association 21 Tennessee Valley Authority 22 United States Railway Association	15,852 1,087 5,000 13,710 51	15,670 1,690 5,000 14,622 74	14,205 2,854 4,970 15,797 85	13,410 3,468 4,970 16,206 85	13,410 4,353 4,970 16,206 85	12,644 4,353 4,970 16,386 0	12,464 4,353 4,970' 16,592 0	12,464 4,353 4,970 16,688 0	n.a.
Other Lending ¹¹ 23 Farmers Home Administration 24 Rural Electrification Administration 25 Other	58,971 20,693 29,853	64,234 20,654 31,429	65,374 21,680 32,545	65,049 21,529 32,585	65,069 21,503 32,521	65,009 21,197 32,693	64,934 21,226 32,380 ^r	64,934 21,215 32,226	

1. Consists of mortgages assumed by the Defense Department between 1957 and 1963 under family housing and homeowners assistance programs.

2. Includes participation certificates reclassified as debt beginning Oct. 1, 1976.

3. Off-budget Aug. 17, 1974, through Sept. 30, 1976; on-budget thereafter.

4. Consists of debentures issued in payment of Federal Housing Administration insurance claims. Once issued, these securities may be sold privately on the securities market. securities market.

6. Off-budget.
7. Includes outstanding noncontingent liabilities: notes, bonds, and debentures. Some data are estimated.

8. Before late 1981, the Association obtained financing through the Federal Financing Bank (FFB).

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

10. The FFB, which began operations in 1974, is authorized to purchase or sell

10. The FFB, which began operations in 19/4, 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 doubte counting.

11. Includes FFB purchases of agency assets and guaranteed loans; the latter contain loans guaranteed by numerous agencies with the guarantees of any particular agency being generally small. The Farmers Home Administration item consists exclusively of agency assets, while the Rural Electrification Administration entry contains both agency assets and guaranteed loans.

securities market.

5. Certificates of participation issued before fiscal 1969 by the Government National Mortgage Association acting as trustee for the Farmers Home Administration; Department of Health, Education, and Welfare; Department of Housing and Urban Development; Small Business Administration; and the Veterans Administration.

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1.45 NEW SECURITY ISSUES Tax-Exempt State and Local Governments Millions of dollars

Type of issue or issuer,	1985	1986	1987				1987				1988
or use	1983	1980	1987	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 All issues, new and refunding 1	214,189	147,011	95,029	10,718	6,967	6,500	5,510	6,257	7,758	7,671	5,202
Type of issue 2 General obligation 3 Revenue	52,622 161,567	46,346 100,664	29,599 65,430	3,329 7,389	2,238 4,729	1,975 4,525	1,755 3,755	1,127 5,130	2,449 5,309	1,894 5,777	1,243 3,959
Type of issuer 4 State 5 Special district and statutory authority ² 6 Municipalities, counties, and townships	13,004 134,363 66,822	14,474 89,997 42,541	8,426 61,663 24,940	1,138 6,453 3,126 ^r	834 3,951 2,182	398 4,508 1,594	535 3,712 1,263	385 4,668 1,204	431 4,612 ^r 2,715 ^r	550 4,972 2,149	423 3,055 1,724
7 Issues for new capital, total	156,050	83,490	53,677	7,552	4,478	5,084	4,340	4,095	6,628	5,351	2,886
Use of proceeds 8 Education 9 Transportation 10 Utilities and conservation 11 Social welfare 12 Industrial aid 13 Other purposes	16,658 12,070 26,852 63,181 12,892 24,398	16,948 11,666 35,383 17,332 5,594 47,433	9,217 3,589 7,299 9,627 6,083 17,862	1,554 705 1,313 1,082 498 2,399	773 647 823 465 469 1,301	869 226 424 903 1,630 1,033	653 311 491 647 412 1,826	480 168 590 896 683 1,278	1,006 329 1,042 1,784 229 2,238	748 451 350 1,134 1,155 1,513	851 176 302 833 133 591

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

SOURCES. 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,	1005	1004	1007				19	987			
or use	1985	1986	1987	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 All issues ¹	239,015	423,726	286,320	19,977'	28,450	27,411	21,888	29,363	20,682	14,230	11,383
2 Bonds ²	203,500	355,293	232,969	13,439	22,098'	22,071	17,685	23,705	17,603	13,532'	10,609
Type of offering 3 Public, domestic 4 Private placement, domestic ³ 5. Sold abroad	119,559 46,195 37,781	231,936 80,761 42,596	208,670 n.a. 24,299	11,402 ^r n.a. 2,037	20,568' n.a. 1,530	19,045 n.a. 3,026	14,852 n.a. 2,833	22,045 n.a. 1,660	16,107 ^r n.a. 1,496	12,799 ^r n.a. 733	10,274 n.a. 335
Industry group 6 Manufacturing 7 Commercial and miscellaneous 8 Transportation 9 Public utility 10 Communication 11 Real estate and financial	63,973 17,066 6,020 13,649 10,832 91,958	91,548 40,124 9,971 31,426 16,659 165,564	45,209 19,918 2,039 17,382 5,772 142,633	5,035 754 21 572 138 6,920	4,104 2,061 0 2,091 205 13,636	5,552 1,037 343 1,654 119 13,366	3,343 1,281 296 1,533 856 10,377	3,506 1,479 25 1,702 930 16,063	2,724 ^r 1,165 263 997 1,384 11,071	1,280 ^r 483 0 893 270 10,586 ^r	860 2,577 226 1,570 510 4,865
12 Stocks ³	35,515	68,433	53,351	6,538	6,352	5,340	4,203	5,658	3,079	698 ^r	774
Type 13 Preferred 14 Common 15 Private placement ³	6,505 29,010 35,515	11,514 50,316 68,433	10,123 43,228 53,351	1,170 5,368 n.a.	1,202 5,150 n.a.	1,157 4,183 n.a.	906 3,297 n.a.	1,112 4,546 n.a.	236 2,843 n.a.	162 533 n.a.	61 713 n.a.
Industry group 16 Manufacturing 17 Commercial and miscellaneous 18 Transportation 19 Public utility 20 Communication 21 Real estate and financial	5,700 9,149 1,544 1,966 978 16,178	15,027 10,617 2,427 4,020 1,825 34,517	9,642 11,461 1,795 3,839 1,264 25,350	1,066 1,516 3 374 200 3,379	1,438 1,353 492 329 199 2,541	1,046 879 379 472 294 2,270	370 996 0 85 277 2,475	858 807 11 529 75 3,378	703 656 40 75 107 1,498	237 86 149 25 1 200	76 14 1 0 11 672

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.
 Data are not available on a monthly basis.
 Sources. IDD Information Services, Inc., U.S. Securities and Exchange Commission and the Board of Governors of the Federal Reserve System.

1.47 OPEN-END INVESTMENT COMPANIES Net Sales and Asset Position

Millions of dollars

14	1007	1007				19	987			
Item,	1986	1987	May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.
Investment Companies ¹										
1 Sales of own shares ²	411,751	380,260	28,295	28,637	27,970	26,455	24,834	25,990	21,927	26,494
2 Redemptions of own shares ³	239,394 172,357	314,253 66,007	23,453 4,842	23,693 4,944	22,807 5,763	22,561 3,894	28,323 -3,489	34,597 -8,607	20,400 1,507	28,100 -1,606
4 Assets ⁴	424,156	453,793	500,634	516,866	531,022	539,171	521,007	456,422	446,479	453,793
5 Cash position ⁵	30,716 393,440	38,175 415,618	39,158 461,476	41,467 475,099	41,587 489,435	40,802 498,369	42,397 478,610	40,929 415,493	41,432 405,047	38,175 415,618

5. 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.

A	1004	1005	1004	1985		19	86			1987	
Account	1984	1985	1986	Q4	QI	Q2	Q3	Q4	Q١	Q2	Q3
1 Corporate profits with inventory valuation and capital consumption adjustment. 2 Profits before tax. 3 Profits tax liability. 4 Profits after tax. 5 Dividends. 6 Undistributed profits. 7 Inventory valuation. 8 Capital consumption adjustment.	266.9 239.9 93.9 146.1 79.0 67.0	277.6 224.8 96.7 128.1 81.3 46.8 8 53.5	284.4 231.9 105.0 126.8 86.8 40.0	277.8 233.5 99.1 134.4 81.7 52.7 -9.8 54.2	288.0 218.9 98.1 120.9 84.3 36.6	282.3 224.4 102.1 122.3 86.6 35.7	286.4 236.3 106.1 130.2 87.7 42.5	281.1 247.9 113.9 134.0 88.6 45.4 -8.9 42.1	294.0 257.0 128.0 129.0 90.3 38.7	296.8 268.7 134.2 134.5 92.4 42.1 -20.0 48.0	314.9 284.9 143.0 141.9 95.2 46.7 -17.6 47.7

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

Excluding money market funds.
 Includes reinvestment of investment income dividends. Excludes reinvestment of capital gains distributions and share issue of conversions from one fund to another in the same group.
 Excludes share redemption resulting from conversions from one fund to another in the same group.

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1.49 NONFINANCIAL CORPORATIONS Assets and Liabilities1

Billions of dollars, except for ratio

	1000	1001	1982	1002	1004		1985				
Account	1980	1981	1982	1983	1984	QI	Q2	Q3	Q4	QI	
1 Current assets	1,328.3	1,419.6	1,437.1	1,565.9	1,703.0	1,722.7	1,734.6	1,763.0	1,784.6	1,795.7	
2 Cash 3 U.S. government securities 4 Notes and accounts receivable 5 Inventories 6 Other	127.0 18.7 507.5 543.0 132.1	135.6 17.7 532.5 584.0 149.7	147.8 23.0 517.4 579.0 169.8	171.8 31.0 583.0 603.4 186.7	173.6 36.2 633.1 656.9 203.2	167.5 35.7 650.3 665.7 203.5	167.1 35.4 654.1 666.7 211.2	176.3 32.6 661.0 675.0 218.0	189.2 33.0 671.5 666.0 224.9	195.3 31.0 663.4 679.6 226.3	
7 Current liabilities	890.6	971.3	986.0	1,059.6	1,163,6	1,174.1	1,182.9	1,211.9	1,233.6	1,222.3	
8 Notes and accounts payable 9 Other	514.4 376.2	547.1 424.1	550.7 435.3	595.7 463.9	647.8 515.8	636.9 537.1	651.7 531.2	670.4 541.5	682.7 550,9	668.4 553.9	
10 Net working capital	437.8	448.3	451,1	516.3	539.5	548.6	551.7	551.1	551.0	573.4	
11 Мемо: Current ratio ²	1.492	1.462	1.459	1.487	1.464	1.467	1.466	1.455	1.447	1.469	

^{1.} For a description of this series, see "Working Capital of Nonfinancial Corporations" in the July 1978 BULLETIN, pp. 533-37. Data are not currently available after 1986:1.

1.50 TOTAL NONFARM BUSINESS EXPENDITURES on New Plant and Equipment ▲

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

	1005	1004	1007		1986			19	987		1988
Industry	1985	1986	19871	Q2	Q3	Q4	QI	Q2	Q3	Q4 ¹	Q1 ²
1 Total nonfarm business	387.13	379.47	390.57	376.21	375.50	386.09	374.23	377.65	393.13	417.25	427.97
Manufacturing 2 Durable goods industries 3 Nondurable goods industries	73.27 80.21	69.14 73.56	71.85 76.01	68.56 73.62	69.42 70.01	69.87 74.20	70.47 70.18	68.76 72.03	71.78 75.78	76.40 86.05	78.41 86.27
Nonmanufacturing 4 Mining	15.88	11.22	11.18	11.29	10.14	10.31	10.31	11.02	11.64	11.74	11.86
5 Raifroad	7.08 4.79 6.15	6.66 6.26 5.89	6.15 6.53 6.42	6.70 5.87 5.83	7.02 5.78 6.01	6.41 6.84 6.25	5.55 7.46 5.97	5.77 5.72 6.19	6.21 5.91 7.05	7.08 7.03 6.48	7.66 8.35 6.92
8 Electric	36.11 12.71 150.94	33.91 12.47 160.38	31.65 12.88 167.89	33.77 12.66 157.91	33.81 12.00 161.31	33.78 12.34 166.08	30.85 12.75 160.70	31.13 12.35 164.69	31.31 13.58 169.87	33.32 12.84 176.29	31.65 13.72 183.15

[▲]Trade and services are no longer being reported separately. They are included in Commercial and other, line 10.

1. Anticipated by business.

^{2.} Ratio of total current assets to total current liabilities.
SOURCE. Federal Trade Commission and Bureau of the Census.

 [&]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

Billions of dollars, end of period

	1002	1004	1005		1986			19	87	
Account	1983	1984	1985	Q2	Q3	Q4	Q١	Q2	Q3	Q4
Assets										
Accounts receivable, gross 1 Consumer. 2 Business. 3 Real estate. 4 Total.	83.3 113.4 20.5 217.3	89.9 137.8 23.8 251.5	113.4 158.3 28.9 300.6	125.1 167.7 30.8 323.6	137.1 161.0 32.1 330.2	136.5 174.8 33.7 345.0	133.9 182.8 35.1 351.8	138.0 189.0 36.9 363.9	144.4 188.7 38.3 371.5	143.8 202.6 40.3 386.8
Less: 5 Reserves for unearned income	30.3 3.7	33.8 4.2	39.2 4.9	40.7 5.1	42.4 5.4	41.4 5.8	40.4 5.9	41.2 6.2	42.8 6.6	45.3 6.8
7 Accounts receivable, net	183.2 34.4	213.5 35.7	256.5 45.3	277.8 48.8	282.4 59.9	297.8 57.9	305.5 59.0	316.5 57.7	322.1 65.0	334.7 58.2
9 Total assets	217.6	249.2	301.9	326.6	342.3	355.6	364.5	374.2	387.1	392.9
Liabilities										
10 Bank loans	18.3 60.5	20.0 73.1	20.6 99.2	19.2 108.4	20.2 112.8	22.2 117.8	17.3 119.1	17.2 120.4	16.2 123.5	16.5 126.5
12 Other short-term. 13 Long-term 14 All other hiabilities 15 Capital, surplus, and undivided profits	11.1 67.7 31.2 28.9	12.9 77.2 34.5 31.5	12.5 93.1 40.9 35.7	15.4 105.2 40.1 38.4	16.0 109.8 44.1 39.4	17.2 115.6 43.4 39.4	21.6 118.4 46.3 41.8	24.4 121.5 48.3 42.3	26.9 128.0 48.7 43.8	27.0 130.1 50.1 42.6
16 Total liabilities and capital	217.6	249.2	301.9	326.6	342.3	355.6	364.5	374.2	387.1	392.9

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

1.52 DOMESTIC FINANCE COMPANIES Business Credit

Millions of dollars, seasonally adjusted except as noted

	Accounts		ges in acc receivable		I	Extension	s	R	lepaymen	ts
Туре	receivable outstanding Dec. 31		1987			1987			1987	
	19871	Oct.	Nov.	Dec.	Oct.	Nov.	Dec.	Oct.	Nov.	Dec.
1 Total	202,585	4,337	1,250	1,070	30,929	30,336	31,262	26,592	29,087	30,192
Retail financing of installment sales Automotive (commercial vehicles) Business, industrial, and farm equipment Wholesale financing	34,387	735	447	991	1,159	1,283	1,676	424	836	684
	24,945	258	-25	376	1,526	1,395	1,564	1,268	1,420	1,188
4 Automotive 5 Equipment 6 All other	30,760	3,485	261	-167	12,557	12,662	12,188	9,072	12,401	12,355
	5,512	249	61	-116	886	623	679	637	562	795
	7,948	-1,455	121	171	2,983	3,043	3,182	4,437	2,921	3,011
Leasing 7 Automotive	21,711	-197	211	71	1,117	1,117	1,086	1,314	906	1,015
	41,675	188	-92	-494	1,245	881	608	1,057	973	1,102
mercial accounts receivable	18,358	704	331	-337	8,241	8,005	8,564	7,537	7,674	8,901
	17,289	369	-67	573	1,215	1,326	1,714	846	1,393	1,141

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

Not seasonally adjusted.

Domestic Financial Statistics April 1988

1.53 MORTGAGE MARKETS

Millions of dollars; exceptions noted.

								-		
Item	1985	1986	1987 ^r			19	87			1988
rem	1703	1700	1767	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			Ter	ms and yiel	lds in prima	ry and sec	ondary mar	kets		
PRIMARY MARKETS										
Conventional mortgages on new homes										
Terms¹ 1 Purchase price (thousands of dollars) 2 Amount of loan (thousands of dollars) 3 Loan/price ratio (percent) 4 Maturity (years) 5 Fees and charges (percent of loan amount)² 6 Contract rate (percent per year)	104.1 77.4 77.1 26.9 2.53 11.12	118.1 86.2 75.2 26.6 2.48 9.82	137.0 100.5 75.2 27.8 2.26 8.94	134.6 99.4 75.4 27.9 2.42 9.01	141.2 102.6 75.0 27.8 2.19 9.01	140.2 100.8 74.6 27.3 2.08 9.03	145.3 106.1 75.0 28.3 2.34 8.86	135.9 100.2 75.4 28.3 2.33 8.92	147.3 107.7 74.9 28.2 2.22 8.78	150.8 109.4 74.5 28.3 2.22 8.77
Yield (percent per year) 7 FHLBB series 8 HUD series	11.58 12.28	10.25 10.07	9.31 10.13	9.41 10.22	9.38 10.37	9.37 10.86	9.25 10.87	9.30 10.59	9.15 10.52	9,13 n.a.
SECONDARY MARKETS		1						1		
Yield (percent per year) 9 FHA mortgages (HUD series) ⁵	12.24 11.61	9.91 9.30	10.12 9.42	10.38 9.59	10.55 9.77	10.71 10.40	10.90 10.53	10.76 9.96	10.63 10.18	n.a. 9.83
				Acti	ivity in seco	ondary mar	kets			
FEDERAL NATIONAL MORTGAGE ASSOCIATION										ï
Mortgage holdings (end of period) 11 Total 12 FHA/VA-insured 13 Conventional	94,574 34,244 60,331	98,048 29,683 68,365	95,030 21,660 73,370	94,154 21,730 72,424	94,600 21,555 73,045	94,884 21,620 73,264	95,097 21,481 73,617	95,411 21,510 73,902	96,649 20,288 76,361	1
Mortgage transactions (during period) 14 Purchases	21,510	30,826	20,531	1,569	1,613	1,743	1,278	1,297	3,747	n.a.
Mortgage commitments ⁷ 15 Contracted (during period)	20,155 3,402	32,987 3,386	25,415 4,886	2,373 5,071	2,276 5,690	1,842 5,627	1,566 5,046	2,899 5,845	3,115 4,886	
FEDERAL HOME LOAN MORTGAGE CORPORATION										
Mortgage holdings (end of period) ⁸ 17 Total 18 FHA/VA. 19 Conventional	12,399 841 11,559	13,517 746 12,771	1	12,834 684 12,150	12,924 679 12,245	12,940 672 12,269	12,782 666 12,115	12,904 663 12,240	1	1
Mortgage transactions (during period) 20 Purchases	44,012 38,905	103,474 100,236	n.a.	7,252 6,831	5,031 4,723	4,297 4,160	3,079 3,111	2,978 2,742	n.a.	n.a.
Mortgage commitments ⁹ 22 Contracted (during period)	48,989	110,855	ļ	5,611	4,506	3,507	3,011	2,668		

^{1.} 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.

2. Includes all fees, commissions, discounts, and "points" paid (by the borrower or the seller) to obtain a loan.

3. Average effective interest rates on loans closed, assuming prepayment at the end of 10 years.

6. Average net yields to investors on Government National Mortgage Association 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. Includes participation as well as whole loans.

9. 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.

end of 10 years.

4. Average contract rates on new commitments for conventional first mortgages; from Department of Housing and Urban Development.

5. 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.

activity.

1.54 MORTGAGE DEBT OUTSTANDING1

Millions of dollars, end of period

				1986		19	87	
Type of holder, and type of property	1985	1986	1987	Q4	QI	Q2	Q3'	Q4
1 All holders	2,269,173	2,568,562 ^r	2,906,394	2,568,562	2,665,207	2,756,124	2,831,431	2,906,394
2 1- to 4-family	1,467,409	1,668,209 ^r	1,889,364	1,668,209'	1,714,213 ^r	1,783,521'	1,835,671	1,889,364
3 Multifamily	214,045	247,024 ^r	272,604	247,024'	257,615 ^r	263,513'	268,322	272,604
4 Commercial	482,029	556,569	654,288	556,569	599,822 ^r	616,968'	636,508	654,288
5 Farm	105,690	96,760	90,138	96,760	93,557 ^r	92,122'	90,930	90,138
6 Selected financial institutions 7	1,390,394	1,507,289	1,699,702	1,507,289	1,559,549'	1,606,622'	1,650,462	1,699,702
	429,196	502,534	587,557	502,534	519,474	544,381	566,213	587,557
	213,434	235,814	273,214	235,814	243,518	255,672	262,869	273,214
	23,373	31,173	32,433	31,173	29,515	30,496	31,311	32,433
	181,032	222,799	267,221	222,799	233,234	244,385	257,882	267,221
	11,357	12,748	14,689	12,748	13,207	13,828	14,151	14,689
12	760,499 554,301 89,739 115,771 688 171,797 12,381 19,894 127,670 11,852 28,902	777,312 558,412 97,059 121,236 605 193,842 12,827 20,952 149,111 10,952 33,601	861,233 602,740 107,054 150,680 n.a. 210,563 13,142 22,168 165,364 9,889 40,349	777,312 558,412 97,059 121,236 605 193,842 12,827 20,952 149,111 10,952 33,601	809,2457 555,6937 104,0357 148,7127 8057 195,743 12,903 20,934 151,420 10,486 35,087	824,961 ⁷ 572,075 ⁷ 102,933 ⁷ 149,183 ⁷ n.a. 200,382 12,745 21,663 155,611 10,363 36,898	841,658 586,221 104,764 149,904 n.a. 204,263 12,742 21,968 159,464 10,089 38,328	861,233 602,740 107,054 150,680 n.a. 210,563 13,142 22,168 165,364 9,889 40,349
23 Federal and related agencies. 24 Government National Mortgage Association. 25 1- to 4-family. 26 Multifamily. 27 Farmers Home Administration. 28 1- to 4-family. 29 Multifamily. 30 Commercial. 31 Farm.	166,928	203,800	192,401	203,800	199,509	196,514	191,520	192,401
	1,473	889	455	889	687	667	458	455
	539	47	24	47	46	45	25	24
	934	842	431	842	641	622	433	431
	733	48,421	42,978	48,421	48,203	48,085	42,978	42,978
	183	21,625	18,111	21,625	21,390	21,157	18,111	18,111
	113	7,608	7,903	7,608	7,710	7,808	7,903	7,903
	159	8,446	6,592	8,446	8,463	8,553	6,592	6,592
	278	10,742	10,372	10,742	10,640	10,567	10,372	10,372
32 Federal Housing and Veterans Administration	4,920	5,047	5,479	5,047	5,177	5,268	5,330	5,479
	2,254	2,386	2,551	2,386	2,447	2,531	2,452	2,551
	2,666	2,661	2,928	2,661	2,730	2,737	2,878	2,928
	98,282	97,895	96,649	97,895	95,140	94,064	94,884	96,669
	91,966	90,718	89,666	90,718	88,106	87,013	87,901	89,666
	6,316	7,177	6,983	7,177	7,034	7,051	6,983	6,983
	47,498	39,984	33,930	39,984	37,362	35,833	34,930	33,930
	2,798	2,353	1,996	2,353	2,198	2,108	2,055	1,996
	44,700	37,631	31,934	37,631	35,164	33,725	32,875	31,934
	14,022	11,564	12,910	11,564	12,940	12,597	12,940	12,910
	11,881	10,010	11,580	10,010	11,774	11,172	11,570	11,580
	2,141	1,554	1,330	1,554	1,166	1,425	1,370	1,330
44 Mortgage pools or trusts ⁶ 45 Government National Mortgage Association 46 I- to 4-family 47 Multifamily 48 Federal Home Loan Mortgage Corporation 49 I- to 4-family 50 Multifamily 51 Federal National Mortgage Association 52 I- to 4-family 53 Multifamily 54 Farmers Home Administration ⁵ 55 I- to 4-family 56 Multifamily 57 Commercial 58 Farm	415,042 212,145 207,198 4,947 100,387 99,515 8722 54,987 54,036 951 47,523 22,186 6,675 8,190 10,472	531,591' 262,697' 256,920' 5,777' 171,372 166,667 4,705 97,174 95,791 1,383 348 142 0 132 74	671,749 319,360 311,567 7,793 212,105 205,460 6,645 139,960 137,988 1,972 324 139 0 122 63	531,591' 262,697' 256,920' 5,777' 171,372 166,667 4,705 97,174 95,791 1,383 348 142 0 132 74	575,435' 281,116' 274,710' 6,406' 186,295 180,602 5,693 107,673 106,068 1,605 351 154 0 127 70	615,142' 293,246' 286,091' 7,155' 200,284 194,238 6,046 121,270 119,617 1,653 149 0 126 67	648,219 308,996 301,456 7,540 208,350 201,786 6,564 130,540 128,770 1,770 1,770 1,440 0 124 65	671,749 319,360 311,567 7,793 212,105 205,460 6,645 139,960 137,988 1,972 324 139 0 122 63
59 Individuals and others ⁷ 60 1- to 4-family 61 Multifamily 62 Commercial 63 Farm	296,809	325,882	342,542	325,882	330,714	337,846	341,230	342,542
	165,835	180,896	180,837	180,896	179,517	182,010	181,241	180,837
	55,424	66,133	74,964	66,133	70,146	73,924	74,838	74,964
	49,207	54,845	64,309	54,845	57,866	59,110	62,542	64,309
	26,343	24,008	22,432	24,008	23,185	22,802	22,609	22,432

^{1.} 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.

2. Includes loans held by nondeposit trust companies but not bank trust departments.

3. 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.

4. Assumed to be entirely 1- to 4-family loans.

^{5.} FmHA-guaranteed securities sold to the Federal Financing Bank were reallocated from FmHA mortgage pools to FmHA mortgage holdings in 1986:4, because of accounting changes by the Farmers Home Administration.

6. Outstanding principal balances of mortgage pools backing securities insured or guaranteed by the agency indicated.

7. Other holders include mortgage companies, real estate investment trusts, state and local credit agencies, state and local retirement funds, noninsured pension funds, credit unions, and other U.S. agencies.

A40 Domestic Financial Statistics ☐ April 1988

1.55 CONSUMER INSTALLMENT CREDIT¹ Total Outstanding, and Net Change, seasonally adjusted Millions of dollars

	1000	1005			•		1987				
Holder, and type of credit	1986	1987	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.
				A	mounts out	standing (e	nd of perio	d)			
1 Total	577,784	612,571	583,595	583,276	587,821	591,175	596,182	602,607	605,488	608,122	612,571
By major holder 2 Commercial banks 3 Finance companies 4 Credit unions 5 Retailers 6 Savings institutions 7 Gasoline companies	261,604	274,984	263,433	263,463	264,396	265,085	265,893	269,155	270,836	272,274	274,984
	136,494	143,788	137,091	136,398	138,038	138,745	140,689	142,648	143,118	142,767	143,788
	77,857	84,839	79,255	79,476	80,585	81,492	82,486	83,340	83,639	84,419	84,839
	40,586	40,647	40,467	40,318	40,287	40,364	40,391	40,482	40,678	40,559	40,647
	58,037	64,788	59,826	60,045	60,983	61,910	63,080	63,279	63,525	64,502	64,788
	3,205	3,525	3,522	3,576	3,532	3,580	3,643	3,703	3,691	3,600	3,525
By major type of credit 8 Automobile 9 Commercial banks 10 Credit unions 11 Finance companies 12 Savings institutions	245,055	261,654	247,663	247,578	250,130	250,980	254,013	257,470	258,710	259,134	261,654
	100,709	106,487	101,781	102,189	102,810	102,829	103,382	104,662	105,382	106,036	106,487
	39,029	42,529	39,730	39,841	40,396	40,851	41,349	41,777	41,927	42,318	42,529
	93,274	99,195	93,738	93,089	94,270	94,455	96,193	97,900	98,219	97,395	99,195
	12,043	13,444	12,414	12,459	12,654	12,846	13,089	13,130	13,182	13,384	13,444
13 Revolving	134,938	145,940	136,706	136,869	137,401	138,741	139,837	141,704	143,142	143,620	145,940
	85,652	95,273	86,929	87,133	87,590	88,685	89,535	91,226	92,459	92,992	95,273
	36,240	36,213	36,139	36,009	35,971	36,021	36,022	36,087	36,264	36,148	36,213
	3,205	3,525	3,522	3,576	3,532	3,580	3,643	3,703	3,691	3,600	3,525
	7,713	8,610	7,951	7,980	8,105	8,228	8,383	8,410	8,443	8,572	8,610
	2,128	2,319	2,166	2,172	2,202	2,227	2,254	2,278	2,286	2,307	2,319
19 Mobile home 20 Commercial banks 21 Finance companies. 22 Savings institutions	25,710	25,612	25,626	25,542	25,685	25,860	25,695	25,699	25,677	25,731	25,612
	8,812	8,357	8,698	8,615	8,609	8,626	8,518	8,538	8,453	8,407	8,357
	9,028	8,470	8,816	8,785	8,807	8,839	8,623	8,580	8,610	8,578	8,470
	7,870	8,785	8,112	8,142	8,269	8,395	8,554	8,581	8,614	8,746	8,785
23 Other 24 Commercial banks 25 Finance companies 26 Credit unions 27 Retailers 28 Savings institutions	172,081	179,365	173,600	173,287	174,605	175,594	176,637	177,733	177,959	179,637	179,365
	66,431	64,867	66,026	65,527	65,387	64,945	64,458	64,728	64,542	64,840	64,867
	34,192	36,123	34,537	34,524	34,962	35,452	35,874	36,168	36,289	36,794	36,123
	36,700	39,992	37,359	37,463	37,986	38,413	38,882	39,285	39,426	39,794	39,992
	4,346	4,433	4,328	4,310	4,315	4,343	4,369	4,395	4,415	4,411	4,433
	30,412	33,949	31,349	31,463	31,955	32,441	33,054	33,158	33,287	33,799	33,949
					Net cha	nge (during	period)				
29 Total	54,979	34,787	3,682	-319	4,545	3,354	5,007	6,425	2,881	2,634	4,449
By major holder Commercial banks Finance companies Credit unions Retailers Say Savings institutions Gasoline companies	19,520	13,380	1,500	30	933	689	808	3,262	1,681	1,438	2,710
	23,424	7,294	1,041	-693	1,640	707	1,944	1,959	470	-351	1,021
	5,738	6,982	686	221	1,109	907	994	854	299	780	420
	1,722	61	-2	-149	-31	77	27	91	196	-119	88
	5,604	6,751	338	219	938	927	1,170	199	246	977	286
	-1,030	320	117	54	-44	48	63	60	-12	-91	-75
By major type of credit 36 Automobile 37 Commercial banks 38 Credit unions 39 Finance companies 40 Savings institutions	36,998	16,599	1,373	-85	2,552	850	3,033	3,457	1,240	424	2,520
	7,706	5,778	253	408	621	19	553	1,280	720	654	451
	3,394	3,500	344	111	555	455	498	428	150	391	211
	23,183	5,921	706	-649	1,181	185	1,738	1,707	319	-824	1,800
	2,715	1,401	70	45	195	192	243	41	52	202	60
41 Revolving	12,917	11,002	1,540	163	532	1,340	1,096	1,867	1,438	478	2,320
	9,786	9,621	1,362	204	457	1,095	850	1,691	1,233	533	2,281
	1,545	-27	2	-130	-38	50	1	65	177	-116	65
	-1,030	320	117	54	-44	48	63	60	-12	-91	-75
	2,008	897	45	29	125	123	155	27	33	129	38
	608	191	19	6	30	25	27	24	8	21	12
47 Mobile home 48 Commercial banks 49 Finance companies 50 Savings institutions	222 -726 -363 1,311	-98 -455 -558 915	12 -27 -7 45	-84 -83 -31 30	143 -6 22 127	175 17 32 126	-165 -108 -216 159	20 -43 27	-22 -85 30 33	54 -46 -32 132	-119 -50 -108 39
51 Other 52 Commercial banks 53 Finance companies 54 Credit unions 55 Retailers 56 Savings institutions	4,842	7,284	756	-313	1,318	989	1,043	1,096	226	1,678	-272
	2,754	-1,564	-87	-499	-140	-442	487	270	-186	298	27
	604	1,931	341	-13	438	490	422	294	121	505	-671
	1,736	3,292	323	104	523	427	469	403	141	368	198
	177	87	1	-18	5	28	26	26	20	-4	22
	-429	3,537	177	114	492	486	613	104	129	512	150

^{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.

More detail for finance companies is available in the G.20 statistical release.
 Excludes 30-day charge credit held by travel and entertainment companies.

1.56 TERMS OF CONSUMER INSTALLMENT CREDIT

Percent unless noted otherwise

	1005	tang	1007	·			1987			
Item	1985	1986	1987	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Interest Rates										
Commercial banks ¹ 1 48-month new car ² 2 4-month personal 3 120-month mobile home ² 4 Credit card Auto finance companies 5 New car 6 Used car	12.91 15.94 14.96 18.69 11.98 17.59	11.33 14.82 13.99 18.26 9.44 15.95	n.a. n.a. n.a. n.a. 10.73	n.a. n.a. n.a. n.a. 10.64	n.a. n.a. n.a. n.a.	10.37 14.22 13.24 17.85 9.63 14.53	n.a. n.a. n.a. n.a. 14.58	n.a. n.a. n.a. n.a. 10.31	10.86 14.58 13.62 17.82	n.a. n.a. n.a. n.a. 12.23
Other Terms ³										
Maturity (months) 7 New car 8 Used car Loan-to-value ratio 9 New car 10 Used car Amount financed (dollars) 11 New car 12 Used car	51.5 41.4 91 94 9,915 6,089	50.0 42.6 91 97 10,665 6,555	53.5 45.2 93 98 11,203 7,420	53.6 45.4 93 98 11,214 7,479	53.4 45.5 93 98 11,267 7,527	52.1 45.4 93 98 11,374 7,763	50.7 45.2 93 98 11,455 7,476	52.8 45.2 93 99 11,585 7,537	55.4 45.3 94 99 11,630 7,646	55.5 45.3 93 99 11,645 7,718

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.

^{3.} At auto finance companies. Note. These data also appear in the Board's G.19 (421) release. For address, see inside front cover.

A42 Domestic Financial Statistics April 1988

1.57 FUNDS RAISED IN U.S. CREDIT MARKETS

Billions of dollars; half-yearly data are at seasonally adjusted annual rates.

T		1003	1004	1004	1000	19	84	19	85	19	86	1987
Transaction category, sector	1982	1983	1984	1985	1986	Hi	H2	ні	H2	ні	H2	HI
					N	ionfinanc	ial sector	·s				
1 Total net borrowing by domestic nonfinancial sectors	388.9	550.2	753.9	854.8	833.4	717.3	790.4	722.7	986.8	676.9	989.9	568.3
By sector and instrument 2 U.S. government 3 Treasury securities 4 Agency issues and mortgages	161.3 162.1 9	186.6 186.7 1	198.8 199.0 2	223.6 223.7 1	214.3 214.7 3	190.4 190.7 2	207.2 207.3 1	204.8 204.9 1	242.5 242.5 1	207.2 207.4 1	221.5 222.0 5	151.4 151.7 4
5 Private domestic nonfinancial sectors 6 Debt capital instruments 7 Tax-exempt obligations 8 Corporate bonds 9 Mortgages 10 Home mortgages 11 Multifamily residential 12 Commercial 13 Farm	227.6 148.3 44.2 18.7 85.4 50.5 5.4 25.2 4.2	363.6 253.4 53.7 16.0 183.6 117.5 14.2 49.3 2.6	555.1 313.6 50.4 46.1 217.1 129.7 25.1 63.2 9	631.1 447.8 136.4 73.8 237.7 151.9 29.2 62.5 -6.0	619.0 445.0 35.4 121.7 298.0 199.4 33.0 73.9 -8.3	526.9 284.7 33.8 22.5 228.5 139.5 27.8 62.6 -1.4	583.3 342.5 67.0 69.8 205.7 119.9 22.4 63.8 4	518.0 350.4 67.0 62.2 221.2 139.2 25.0 59.5 -2.5	744.3 545.2 205.8 85.3 254.2 164.7 33.4 65.5 -9.5	469.6 363.4 -16.9 135.3 245.0 163.8 31.2 58.9 -8.9	768.4 546.7 87.7 108.1 350.9 234.9 34.8 88.9 -7.7	417.0 407.1 20.0 89.0 298.1 217.5 27.7 62.5 -9.6
14 Other debt instruments 15 Consumer credit 16 Bank loans n.e.c. 17 Open market paper 18 Other	79.3 19.3 50.4 -6.1 15.8	110.2 56.6 23.2 8 31.3	241.5 90.4 67.1 21.7 62.2	183.3 94.6 38.6 14.6 35.5	164.0 65.8 66.5 -9.3 41.0	242.2 94.7 71.2 26.6 49.7	240.8 86.2 63.0 16.8 74.7	167.5 95.3 21.0 14.4 36.8	199.1 93.9 56.2 14.8 34.2	106.2 71.0 12.2 -13.1 36.2	221.8 60.6 120.8 ~5.5 45.9	9.9 15.7 -40.2 4.5 29.9
19 By borrowing sector 20 State and local governments 21 Households 22 Farm 23 Nonfarm noncorporate 24 Corporate	227.6 21.5 90.0 6.8 40.2 69.0	363.6 34.0 188.2 4.1 77.0 60.3	555.1 27.4 234.6 1 97.0 196.0	631.1 91.8 293.4 -13.9 93.1 166.7	619.0 46.4 279.9 -15.1 115.9 192.0	526.9 16.2 235.0 5 101.8 174.3	583.3 38.6 234.2 .4 92.2 217.8	518.0 56.3 259.8 -7.0 85.7 123.2	744.3 127.2 327.1 -20.8 100.5 210.3	469.6 3.1 232.8 -16.8 96.2 154.3	768.4 89.7 326.9 -13.3 135.5 229.7	417.0 28.6 224.0 -19.5 92.8 91.2
25 Foreign net borrowing in United States. 26 Bonds 27 Bank loans n.e.c. 28 Open market paper. 29 U.S. government loans. 30 Total domestic plus foreign	16.0 6.6 -5.5 1.9 13.0 404.8	17.3 3.1 3.6 6.5 4.1 567.5	8.3 3.8 -6.6 6.2 5.0 762.2	1.2 3.8 -2.8 6.2 -6.0	9.0 2.6 -1.0 11.5 -4.0 842.4	36.1 1.3 -1.3 16.6 19.5 753.4	-19.4 6.3 -11.9 -4.3 -9.6	-5.8 5.5 -5.8 2.8 -8.2 716.9	8.2 2.1 .1 9.6 -3.7 995.0	21.5 6.2 1.5 19.1 -5.3 698.3	-3.5 -1.1 -3.5 3.9 -2.7	-12.6 -1.1 -3.5 -5.3 -2.8
30 Total domestic plus foreign	404.0	307.3	/02.2	850.0	044.4	L		/10.9	993.0	076.3	760.4	333.7
						Financia					Г I	
By instrument	90.3 64.9 14.9 49.5 .4 25.4 12.7 .1 1.9 9.9 .8	99.3 67.8 1.4 66.4 31.5 17.4 * 1 21.3 -7.0	74.9 30.4 44.4 77.0 36.2 .4 .7 24.1 15.7	199.0 101.5 20.6 79.9 1.1 97.4 48.6 .1 2.6 32.0 14.2	174.3 13.2 161.4 4 116.8 68.7 .1 4.0 24.2 19.8	72.5 29.4 43.1 80.5 30.8 .4 .6 32.1 16.5	77.3 31.5 45.8 73.5 41.5 16.0 14.9	96.8 26.6 70.3 78.3 48.9 2.3 14.6 12.5	106.3 14.6 89.5 2.2 116.5 48.3 1 2.9 49.4 15.9	133.8 6.4 126.6 .8 105.0 70.9 .6 4.0 15.1 14.4	214.8 20.0 196.3 -1.5 128.6 66.5 5 4.0 33.4 25.2	317.5 180.2 7.8 171.8 .5 137.4 92.5 -7.4 38.3 13.6
By sector 2 Sponsored credit agencies 43 Mortgage pools 44 Private financial sectors 45 Commercial banks 46 Bank affiliates 47 Savings and loan associations 48 Finance companies. 49 REITS 50 CMO Issuers	15.3 49.5 25.4 11.7 6.8 2.5 4.5 2	1.4 66.4 31.5 5.0 12.1 -2.1 12.9 1 3.7	30.4 44.4 77.0 7.3 15.6 22.7 18.9 .1 12.4	21.7 79.9 97.4 -4.9 14.5 22.3 53.9 7 12.2	12.9 161.4 116.8 -3.6 4.6 29.3 50.2 3 36.7	29.4 43.1 80.5 19.8 20.4 22.0 8.2 .2 9.8	31.5 45.8 73.5 -5.3 10.8 23.3 29.6 .1 15.0	26.6 70.3 78.3 -4.7 10.2 14.2 49.7 6 9.5	16.8 89.5 116.5 -5.0 18.9 30.4 58.1 8 14.9	7.2 126.6 105.0 -2.7 -1.7 25.5 53.1 .6 30.2	18.5 196.3 128.6 -4.6 10.9 33.1 47.2 -1.3 43.3	8.3 171.8 137.4 4.4 21.6 30.7 27.2 2 53.7
						All se	ectors					
51 Total net borrowing	495.1	666.8	914.1	1,054.9	1,133.5	906.4	921.8	892.1	1,217.8	937.1	1,329.8	873.2
52 U.S. government securities 53 State and local obligations 54 Corporate and foreign bonds 55 Mortgages. 56 Consumer credit 57 Bank loans n.e.c. 58 Open market paper. 59 Other loans	225,9 44.2 38.0 85.4 19.3 46.7 5.7 30.0	254.4 53.7 36.5 183.6 56.6 26.7 26.9 28.4	273.8 50.4 86.1 217.4 90.4 61.1 52.0 82.9	324.2 136.4 126.1 237.7 94.6 38.3 52.8 44.8	389.0 35.4 192.9 298.0 65.8 69.5 26.4 56.5	263.1 33.8 54.6 228.8 94.7 70.4 75.4 85.7	284.5 67.0 117.6 206.0 86.2 51.8 28.6 80.0	301.7 67.0 116.6 221.2 95.3 17.5 31.8 41.1	346.6 205.8 135.7 254.2 93.9 59.2 73.7 48.6	340.2 -16.9 212.4 245.6 71.0 17.7 21.0 46.1	437.8 87.7 173.5 350.4 60.6 121.3 31.7 66.9	331.0 20.0 180.5 298.3 15.7 -51.0 37.5 41.1
			F	xternal c	orporate	equity fi	ınds rais	ed in Uni	ted State	s		
60 Total new share issues	25.8	61.8	-36.4	19.9	91.6	-47.9	-24.9	3.0	36.7	100.8	82.3	61.8
61 Mutual funds 62 All other 63 Nonfinancial corporations 64 Financial corporations 65 Foreign shares purchased in United States.	8.8 17.0 11.4 4.2 1.4	27.2 34.6 28.3 2.6 3.7	29.3 -65.7 -74.5 7.8 .9	85.7 -65.8 -81.5 12.0 3.7	163.3 -71.7 -80.8 8.3 .7	26.5 -74.4 -79.5 6.8 -1.6	32.2 -57.1 -69.4 8.8 3.5	64.2 -61.2 -75.5 11.2 3.1	107.1 -70.4 -87.5 12.8 4.3	155.5 -54.7 -68.7 7.5 6.6	171.1 -88.7 -92.7 9.1 -5.1	123.3 -61.5 -70.0 6.7 1.9

1.58 DIRECT AND INDIRECT SOURCES OF FUNDS TO CREDIT MARKETS

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

							19	84	19	85	19	86	1987
	Transaction category, or sector	1982	1983	1984	1985	1986	Н1	H2	HI	H2	H1	Н2	ні
1	Total funds advanced in credit markets to domestic nonfinancial sectors	388.9	550.2	753.9	854.8	833.4	717.3	790.4	722.7	986.8	676.9	989.9	568.3
2	By public agencies and foreign Total net advances U.S. government securities Residential mortgages. FHLB advances to savings and loans Other loans and securities	114.9	114.0	157.6	202.3	317.3	132.7	182.5	195.8	208.7	264.1	370.6	241.3
3		22.3	26.3	39.3	47.1	84.8	27.6	51.0	50.3	43.9	74.0	95.6	46.3
4		61.0	76.1	56.5	94.6	158.5	55.5	57.4	88.6	100.7	123.8	193.2	164.9
5		.8	-7.0	15.7	14.2	19.8	16.5	14.9	12.5	15.9	14.4	25.2	13.6
6		30.8	18.6	46.2	46.3	54.2	33.2	59.2	44.4	48.2	52.0	56.5	16.5
7	Total advanced, by sector U.S. government Sponsored credit agencies Monetary authorities Foreign	15.9	9.7	17.1	16.8	9.5	7.5	26.6	25.1	8.4	10.8	8.2	-4.1
8		65.5	69.8	74.3	101.5	175.5	73.3	75.2	96.4	106.7	128.2	222.8	167.7
9		9.8	10.9	8.4	21.6	30.2	12.0	4.8	27.5	15.8	13.2	47.2	10.8
10		23.7	23.7	57.9	62.3	102.1	39.8	75.9	46.8	77.8	111.9	92.3	66.9
11	Agency and foreign borrowing not in line 1 Sponsored credit agencies and mortgage pools Foreign	64.9	67.8	74.9	101.5	174.3	72.5	77.3	96.8	106.3	133.8	214.8	180.2
12		16.0	17.3	8.3	1.2	9.0	36.1	-19.4	-5.8	8.2	21.5	-3.5	12.6
13	Private domestic funds advanced Total net advances U.S. government securities. State and local obligations. Corporate and foreign bonds Residential mortgages. Other mortgages and loans LESS: Federal Home Loan Bank advances	354.8	521.3	679.5	755.2	699.3	693.2	665.7	618.0	892.5	568.0	830.6	494.6
14		203.6	228.1	234.5	277.0	304.2	235.5	233.5	251.3	302.7	266.3	342.2	284.7
15		44.2	53.7	50.4	136.4	35.4	33.8	67.0	67.0	205.8	-16.9	87.7	20.0
16		14.7	14.5	35.1	40.8	84.3	17.3	53.0	39.7	42.0	100.8	67.8	61.6
17		-5.3	55.0	98.2	86.4	73.8	111.7	84.8	75.5	97.4	71.3	76.4	80.3
18		98.3	162.4	276.9	228.8	221.4	311.5	242.3	197.0	260.6	161.0	281.8	61.6
19		.8	-7.0	15.7	14.2	19.8	16.5	14.9	12.5	15.9	14.4	25.2	13.6
	Private financial intermediation Credit market funds advanced by private financial institutions Commercial banking Savings institutions Insurance and pension funds Other finance	274.2 110.2 22.9 96.6 44.5	395.8 144.3 135.6 100.1 15.8	559.8 168.9 150.2 121.8 118.9	579.5 186.3 83.0 156.0 154.2	726.1 194.7 105.8 175.9 249.6	587.5 192.2 167.0 148.3 80.0	532.1 145.5 133.5 95.3 157.8	483.8 143.3 54.5 139.4 146.5	675.2 229.4 111.4 172.5 161.9	638.9 117.2 94.5 170.6 256.7	813.2 272.3 117.2 181.2 242.4	485.1 49.9 85.7 213.3 136.2
25	Sources of funds	274.2	395.8	559.8	579.5	726.1	587.5	532.1	483.8	675.2	638.9	813.2	485.1
26		196.2	215.4	316.9	213.2	272.8	280.2	353.5	191.4	235.0	252.2	293.4	15.1
27		25.4	31.5	77.0	97.4	116.8	80.5	73.5	78.3	116.5	105.0	128.6	137.4
28	Other sources. Foreign funds. Treasury balances Insurance and pension reserves. Other, net	52.6	148.9	165.9	268.9	336.4	226.8	105.1	214.1	323.6	281.7	391.1	332.6
29		-31.4	16.3	5.4	17.7	12.4	10.9	1	21.3	14.2	12.3	12.5	41.8
30		6.1	-5.3	4.0	10.3	1.7	-2.8	10.8	13.9	6.6	-4.2	7.6	-4.4
31		106.0	109.7	118.6	141.0	152.5	162.5	74.6	118.6	163.4	138.6	166.4	234.4
32		-28.1	28.2	37.9	99.9	169.8	56.1	19.7	60.3	139.4	134.9	204.6	60.8
33	Private domestic nonfinancial investors Direct lending in credit markets. U.S. government securities. State and local obligations. Corporate and foreign bonds Open market paper. Other.	106.0	157.0	196.7	273.2	90.1	186.2	207.1	212.5	333.9	34.1	146.1	146.9
34		68.5	99.3	123.6	145.3	43.4	162.8	84.3	156.2	134.5	37.4	49.4	69.9
35		25.0	40.3	30.4	47.6	8	10.4	50.4	14.8	80.4	-68.7	67.2	21.7
36		*	-11.6	5.2	11.8	34.4	-26.4	36.9	15.4	8.2	68.1	.8	39.0
37		-5.7	12.0	9.3	43.9	-4.8	15.6	3.0	3.5	84.2	-16.3	6.7	7.7
38		18.2	17.0	28.1	24.6	17.9	23.8	32.5	22.6	26.6	13.6	22.1	8.5
39 40 41 42 43 44 45 46	Deposits and currency Currency Checkable deposits Small time and savings accounts Money market fund shares Large time deposits Security RPs. Deposits in foreign countries	205.5 9.7 18.0 136.0 33.5 -2.4 11.1 4	232,8 14.3 28.6 215.7 -39.0 -8.4 18.5 3.1	320.4 8.6 27.9 150.1 49.0 84.9 5.0 -5.1	223.5 12.4 41.4 139.1 8.9 7.2 16.6 -2.1	293.2 14.4 97.7 122.5 43.8 -9.3 18.3 5.9	286.8 13.7 26.0 129.0 24.5 92.0 8.7 -7.1	354.0 3.6 29.8 171.2 73.4 77.9 1.2 -3.1	198.3 15.9 14.6 161.5 10.6 -7.6 12.2 -9.0	248.7 8.8 68.2 116.7 7.1 21.9 21.1 4.9	262.0 10.7 79.9 115.4 46.9 10.0 9	324.4 18.2 115.5 129.5 40.6 -18.7 26.5 12.8	10.2 10.0 -28.5 33.9 -4.6 1.5 12.7 -14.9
47	Total of credit market instruments, deposits, and currency	311.5	389.9	517.1	496.7	383.3	473.0	561.1	410.7	582.6	296.0	470.5	157.1
48	Public holdings as percent of total	28.4	20.1	20.7	23.6	37.7	17.6	23.7	27.3	21.0	37.8	37.6	43.4
49		77.3	75.9	82.4	76.7	103.8	84.7	79.9	78.3	75.6	112.5	97.9	98.1
50		-7.7	40.0	63.3	80.1	114.5	50.7	75.8	68.1	92.0	124.2	104.9	108.7
51	MEMO: Corporate equities not included above Total net issues. Mutual fund shares Other equities. Acquisitions by financial institutions. Other net purchases	25.8	61.8	-36.4	19.9	91.6	-47.9	-24.9	3.0	36.7	100.8	82.3	61.8
52		8.8	27.2	29.3	85.7	163.5	26.5	32.2	64.2	107.1	155.5	171.1	123.3
53		17.0	34.6	-65.7	-65.8	-71.7	-74.4	-57.1	-61.2	-70.4	-54.7	-88.7	-61.5
54		25.9	51.1	19.7	42.8	48.2	2	39.7	58.8	26.8	56.6	39.7	65.5
55		1	10.7	-56.1	-22.9	43.4	-47.7	-64.6	-55.8	10.0	44.2	42.6	-3.6

NOTES BY LINE NUMBER.

Line 1 of table 1.57.
 Sum of lines 3-6 or 7-10.
 Includes farm and commercial mortgages.

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.

Excludes net investment of these reserves in corporate equities.
 Mainly retained earnings and net miscellaneous liabilities.
 Line 13 less line 20 plus line 27.
 43-38. Lines 14-18 less amounts acquired by private finance plus amounts borrowed by private finance. Line 38 includes mortgages.
 Mainly an offset to line 9.
 Lines 33 plus 39, or line 13 less line 28 plus 40 and 46.
 Line 20/line 1.
 Line 20/line 13.
 Sum of lines 10 and 29.
 1, 53. Includes issues by financial institutions.
 Note. 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.

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2.10 NONFINANCIAL BUSINESS ACTIVITY Selected Measures1

1977 = 100; monthly and quarterly data are seasonally adjusted. Exceptions noted.

.,	1005	1986	1987				19	87				1988
Measure	1985	1986	1987	May	June	July	Aug.	Sept.	Oct."	Nov.	Dec.	Jan.
! Industrial production	123.8	125.1	129.8	128.2	129.1	130.6	131.2	131.0	132.5	133.0	133.6	133.8
Market groupings 2 Products, total. 3 Final, total 4 Consumer goods 5 Equipment 6 Intermediate. 7 Materials.	130.8 131.1 120.2 145.4 130.0 114.2	133.2 132.3 124.5 142.7 136.4 113.9	138.3 136.8 127.7 148.8 143.5 118.2	136.9 135.5 127.3 146.3 141.8 116.3	137.8 136.2 127.2 148.1 143.3 117.2	139.5 137.9 128.9 149.7 145.0 118.5	139.9 138.4 129.4 150.2 145.3 119.4	139.4 137.8 127.7 151.2 144.9 119.7	140.9 139.3 129.0 153.0 146.1 121.2	140.9 139.1 129.1 152.4 147.2 122.2	141.1 139.2 129.3 152.4 147.7 123.3	141.5 139.5 129.8 152.4 148.2 123.4
Industry groupings 8 Manufacturing	126.4	129.1	134.6	133.2	134.0	135.6	135.9	135.7	137.3	137.9	138.5	138.9
Capacity utilization (percent) ² 9 Manufacturing	80.1 80.2	79.8 78.5		80.4 79.3	80.8 79.8	81.5 80.6	81.5 81.1	81.3 81.2	82.0 82.1	82.2 82.7	82.4 83.3	82.4 83.3
11 Construction contracts (1982 = 100) ³	136.0°	158.0°	162.0	157.0	167.0	165.0	174.0	160.0°	164.0	157.0	157.0	145.0
12 Nonagricultural employment, total ⁴	118.3 102.4 97.8 92.6 125.0 207.0 198.7 172.8 206.0 190.6	120.8 102.4 96.5 91.2 128.9 219.9 210.2 176.4 219.1 199.9	123.8 102.2 97.1 92.1 132.9 233.1 222.6 181.5 230.7 208.7	123.3 101.7 96.6 91.6 132.4 230.7 220.7 179.9 229.6 207.3	123.5 101.7 96.6 91.6 132.6 231.1 221.2 180.0 228.9 209.6	123.8 102.1 97.0 92.1 132.9 232.6 222.3 180.1 230.4 210.9	124.0 102.2 97.2 92.2 133.1 233.9 224.2 182.0 231.6 214.0	124.2 102.4 97.4 92.5 133.4 235.3 225.4 183.7 232.9 210.5	124.9 103.0 97.8 92.9 134.1 239.8 227.1 184.7 237.9 208.5	125.2 103.4 98.2 93.3 134.4 238.8 228.6 185.7 236.4 209.1	125.6 103.8 98.4 93.6 134.8 240.5 229.5 186.1 237.9 211.6	125.7 103.6 98.6 93.7 135.0 241.3 231.0 186.8 239.4 212.6
Prices ⁷ 22 Consumer (1967 = 100)	107.6' 104.7'	109.6' 103.2'	113.6 105.4	113.1' 105.4'	113.5' 105.5'	113.8° 106.0°	114.4 ^r 105.9 ^r	115.0° 105.7′	115.3 106.3	115.4 106.2	115.4 105.7	115.7 106.2

^{1.} A major revision of the industrial production index and the capacity utilization rates was released in July 1985. See "A Revision of the Index of Industrial Production" and accompanying tables that contain revised indexes (1977=100) through December 1984 in the Federal Reserve Bulletin, vol. 71 (July 1985), pp. 487-501. The revised indexes for January through June 1985 were shown in the September Bulletin.

2. Ratios of indexes of production to indexes of capacity. Based on data from Federal Reserve, McGraw-Hill Economics Department, Department of Commerce, and other sources.

3. Index of dollar value of total construction contracts, including residential, nonresidential and heavy engineering, from McGraw-Hill Information Systems Company, F. W. Dodge Division.

4. Based on data in Employment and Earnings (U.S. Department of Labor). Series covers employees only, excluding personnel in the Armed Forces.

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

Figures for industrial production for the last two months are preliminary and estimated, respectively.

^{5.} Based on data in Survey of Current Business (U.S. Department of Commerce).

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.

2.11 LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

Thousands of persons; monthly data are seasonally adjusted. Exceptions noted.

		4004	400=				1987		<u></u>		1988
Category	1985	1986	1987	June	July	Aug,	Sept.	Oct.	Nov.	Dec."	Jan.
Household Survey Data		İ									
1 Noninstitutional population ¹	180,440	182,822	185,010	184,941	185,127	185,264	185,428	185,575	185,737	185,882	186,083
2 Labor force (including Armed Forces) ¹ 3 Civilian labor force	117,695 115,461	120,078 117,834	122,122 119,865	121,846 119,608	122,132 119,890	122,568 120,306	122,230 119,963	122,651 120,387	122,861 120,594	122,984 120,722	123,436 121,175
4 Nonagricultural industries ²	103,971 3,179	106,434 3,163	109,232 3,208	109,108 3,192	109,427 3,212	109,907 3,143	109,688 3,184	109,961 3,249	110,332 3,172	110,529 3,215	110,836 3,293
6 Number	8,312 7,2 62,745	8,237 7.0 62,744	7,425 6.2 62,888	7,308 6.1 63,095	7,251 6.0 62,995	7,256 6.0 62,696	7,091 5,9 63,198	7,177 6.0 62,924	7,090 5,9 62,876	6,978 5.8 62,898	7,046 5.8 62,647
ESTABLISHMENT SURVEY DATA									Į.		
9 Nonagricultural payroll employment ³	97,519	99,610	102,105	101,818	102,126	102,275	102,434	102,983	103,285'	103,596	103,703
10 Manufacturing. 11 Mining. 12 Contract construction 13 Transportation and public utilities 14 Trade. 15 Finance 16 Service 17 Government.	19,260 927 4,673 5,238 23,073 5,955 22,000 16,394	18,994 783 4,904 5,244 23,580 6,297 23,099 16,710	19,112 742 5,032 5,377 24,056 6,588 24,136 17,063	19,015 738 5,008 5,350 24,007 6,586 24,083 17,031	19,104 744 5,002 5,363 24,071 6,608 24,214 17,020	19,129 751 5,006 5,377 24,063 6,624 24,279 17,046	19,169 759 4,989 5,416 24,129 6,629 24,295 17,048	19,247 764 5,053 5,436 24,239 6,650 24,406 17,188	19,336 759° 5,074° 5,459° 24,294° 6,657° 24,493° 17,213°	19,377 759 5,122 5,468 24,306 6,667 24,623 17,274	19,402 745 5,072 5,476 24,479 6,671 24,651 17,207

^{1.} 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. Department of Labor).

2. 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).

A46 Domestic Nonfinancial Statistics April 1988

2.12 OUTPUT, CAPACITY, AND CAPACITY UTILIZATION

Seasonally adjusted

0				19	87			19	87			19	987	
Series			Q۱	Q2	Q3	Q4	Q1	Q2	Q3	Q4	QI	Q2	Q3	Q4
				Output (1	977 = 100)	Capac	ity (percer	t of 1977	output)	υ	tilization r	ate (perce	nt)
1 Total industry	• • • • • • • •		126.9	128.2	130.9	133.0	159.5	160.4	161.3	162.2	79.5	79.9	81.2	82.0
2 Mining			98.8 108.1	99.0 108.3	100.6 111.6	103.2 112.5	130.4 137.7	129.7 138.3	129.0 138.8	128.4 139.4	75.8 78.5	76.3 78.3	78.0 80.5	80.3 80.7
4 Manufacturing			131.6	133.2	135,7	137.9	164.5	165.6	166.7	167.7	80.0	80.5	81.4	82.2
5 Primary processing 6 Advanced processing			114.3 142.0	116.1 143.5	119.2 145.8	122.1 147.5	138.2 180.3	139.0 181.6	139.8 182.9	140.6 184.1	82.7 78.7	83.5 79.0	85.3 79.7	86.9 80.1
7 Materials	• • • • • • • • • • • • • • • • • • • •		115.0	116.5	119.1	121.9	146.1	146.7	147.2	147.8	78.7	79.4	81.0	82.5
8 Durable goods	emical		121.4 74.7 121.2 122.3 136.4 122.9	122.9 77.0 124.0 125.1 137.7 125.3	125.5 83.6 128.2 130.5 144.5 130.7	129.6 91.1 129.3 132.3	162.3 110.6 145.6 142.4 142.8 148.8	163.1 110.0 143.8 143.4 143.9 149.8	163.9 109.4 144.7 144.4 145.1 150.9	164.7 108.8 145.6 145.4	74.8 67.5 84.8 85.9 95.5 82.6	75.4 70.0 86.2 87.2 95.7 83.6	76.7 76.5 88.6 90.4	78.7 83.8 91.0
14 Energy materials	•••••		98.3	98.7	100.0	8.101	120.3	120.2	120.1	119.9	81.7	82.1	83.3	84.9
	Previou	is cycle ¹	Latest	cycle ²	1987				19	987				1988
	High	Low	High	Low	Jan.	May	June	July	Aug.	Sept.	Oct.'	Nov.'	Dec.	Jan.
	_					Capaci	ty utilizati	ion rate (p	ercent)					
15 Total industry	88.6	72.1	86.9	69.5	79.2	79.9	80.3	81.1	81.4	81.1	81.9	82.0	82.2	82.2
16 Mining	92.8 95.6	87.8 82.9	95.2 88.5	76.9 78.0	76.1 78.5	76.5 79.2	76.6 79.0	76.8 80.2	78.2 81.3	79.1 80.0	80.6 80.5	81.1 81.0	80.5 80.7	80.2 81.6
18 Manufacturing	87.7	69.9	86.5	68.0	79.6	80.4	80.8	81.5	81.5	81.3	82.0	82.2	82.4	82.4
19 Primary processing 20 Advanced processing	91.9 86.0	68.3 71.1	89.1 85.1	65.1 69.5	82.7 78.2	83.2 79.2	84.0 79.2	85.4 79.8	85.3 79.9	85.1 79.5	86.2 80.1	87.0 80.0	88.1 79.8	88.1 79.9
21 Materials	92.0	70.5	89.1	68.5	78.7	79.3	79.8	80.6	81.1	81.2	82.1	82.7	83.3	83.3
22 Durable goods	91.8 99.2	64.4 67.1	89.8 93.6	60.9 45.7	74.4 66.2	75.1 69.7	75.9 71.5	76.5 73.9	76.6 77.5	77.0 78.3	78.3 82.4	78.9 83.1	79.9 87.3	79.8 85.9
24 Nondurable goods	91.1	66.7	88.1	70.7	85.1	86.2	86.1	88.4	88.6	88.7	88.2	88.9	90.0	89.8
25 Textile, paper, and chemical	92.8 98.4 92.5	64.8 70.6 64.4	89.4 97.3 87.9	68.8 79.9 63.5	86.4 96.4 83.4	87.1 95.7 83.9	87.1 96.3 83.1	90.0 100.5 85.1	90.5 99.9 86.4	90.7 98.5 87.4	90.4 97.4 88.0	91.1 98.1 88.6	92.3 99.8 90.0	92.3
8 Energy materials	94.6	86,9	94.0	82.3	82.5	82.1	82.8	82.4	84.0	83.5	84.9	85.4	84.5	84.8

Note. These data also appear in the Board's G.3 (402) release. For address, see inside front cover.

Monthly high 1973; monthly low 1975.
 Monthly highs 1978 through 1980; monthly lows 1982.

2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value A

Monthly data are seasonally adjusted

	1977 pro-	1986	1986						1987		· · · ·		_		1988
Groups	por- tion	avg.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p	Jan.
								Index	(1977 =	= 100)					
Major Market															
1 Total index	100.00	125.0	126.7	127.2	127.3	127.4	128.4	129.1	130.6	131.2	131.0	132.5	133.0	133.6	133.8
Products. Final products. Consumer goods. Equipment. Intermediate products. Materials.	57.72 44.77 25.52 19.25 12.94 42.28	133.2 132.3 124.5 142.7 136.4 113.9	135.0 133.7 127.2 142.2 139.7 115.2	136.1 135.0 127.5 144.9 139.7 115.1	136.2 135.0 127.5 145.0 140.4 115.2	137.2 134.5 126.6 144.9 139.9 116.2	137.2 135.8 128.2 145.8 142.1 116.3	137.8 136.2 127.2 148.1 143.3 117.2	139.5 137.9 128.9 149.7 145.0 118.5	139.9 138.4 129.4 150.2 145.3 119.4	139,4 137,8 127,7 151,2 144,9 119,7	140.9 139.3 129.0 153.0 146.1 121.2	140.9 139.1 129.1 152.4 147.2 122.2	141.1 139.2 129.3 152.4 147.7 123.3	141.5 139.5 129.8 152.4 148.2 123.4
Consumer goods 8 Durable consumer goods 9 Automotive products. 10 Autos and trucks 11 Autos, consumer 12 Trucks, consumer 13 Auto parts and allied goods 14 Home goods 15 Appliances, A/C and TV 16 Appliances and TV 17 Carpeting and furniture 18 Miscellaneous home goods	6.89 2.98 1.79 1.16 .63 1.19 3.91 1.24 1.19 .96 1.71	116.2 115.1 112.9 97.3 141.8 118.4 117.1 139.5 141.6 125.8 96.0	121.5 117.7 115.6 99.5 145.6 120.8 124.4 153.2 155.1 132.0 99.4	122.4 123.5 125.2 105.3 162.1 121.0 121.6 145.2 146.7 130.8 99.3	121.2 121.2 121.6 100.9 159.9 120.5 121.2 142.9 143.8 131.3 99.8	118.1 115.7 111.5 91.8 148.1 121.9 119.9 137.7 139.2 133.5 99.4	120.2 118.0 113.1 91.0 154.2 125.3 121.8 142.2 142.3 133.3 100.7	117.4 114.9 107.9 87.4 146.0 125.4 119.3 133.4 133.4 132.3 101.8	120.4 117.5 112.3 86.4 160.4 125.3 122.5 141.7 142.6 134.1 102.2	121.2 118.0 112.4 76.8 178.4 126.6 123.6 147.1 145.5 132.0 102.0	118.6 114.2 107.2 79.1 159.4 124.8 121.9 141.8 140.6 131.6 102.2	124.3 124.3 122.2 94.7 173.2 127.5 124.3 145.7 146.1 132.9 104.1	123.7 121.4 118.7 91.9 168.5 125.4 125.4 150.1 150.5 133.0 103.4	120.3 116.0 110.2 83.7 124.6 123.6 143.5 143.4 132.9 104.0	120.8 117.2 112.8 77.5 123.9 123.9 142.5
19 Nondurable consumer goods. 20 Consumer staples. 21 Consumer foods and tobacco 22 Nonfood staples. 23 Consumer chemical products 24 Consumer paper products 25 Consumer energy. 26 Consumer fuel 27 Residential utilities	18.63 15.29 7.80 7.49 2.75 1.88 2.86 1.44 1.42	127.5 97.0 134.1 131.9 136.5 161.2 147.4 105.7 92.8	129.4 136.0 133.9 138.2 163.1 150.1 106.4 92.2 120.8	129.4 135.9 134.0 137.9 164.7 147.8 105.7 92.5 119.2	129.8 136.5 134.8 138.2 165.7 147.5 105.8 94.1 117.7	129.8 136.4 134.4 138.5 164.7 148.9 106.5 94.5 118.7	131.1 137.7 135.6 139.9 165.9 152.9 106.4 92.1 121.0	130.9 137.6 136.0 139.2 164.4 153.1 105.9 91.9 120.2	132.1 138.9 137.2 140.6 165.7 153.8 108.0 92.7 123.6	132.5 139.2 137.4 141.2 167.4 153.9 107.7 91.4 124.3	131.0 137.8 137.0 138.6 163.6 153.2 105.0 91.6 118.7	130.8 137.4 137.5 137.2 160.0 151.8 105.8 92.4 119.4	131.1 137.9 137.1 138.6 162.1 153.0 106.7 93.2 120.5	132.6 139.9 139.0 140.8 166.6 154.6 107.0 94.7	133.1 140.5 141.2
Equipment 28 Business and defense equipment 30 Construction, mining, and farm 31 Manufacturing. 32 Power. 33 Commercial. 34 Transit 35 Defense and space equipment.	18.01 14.34 2.08 3.27 1.27 5.22 2.49 3.67	147.1 138.6 59.8 112.0 81.6 214.6 109.2 180.3	147.0 137.1 58.2 108.8 80.2 213.7 108.9 185.8	150.1 140.8 56.8 111.5 81.2 218.4 117.4 186.5	150.1 140.8 58.1 110.9 81.7 219.7 114.0 186.6	150.0 140.8 58.6 111.1 82.4 220.9 110.4 186.1	150.8 141.7 61.2 111.5 84.0 222.0 110.1 186.5	153.2 144.2 63.0 117.2 84.0 226.7 105.4 188.6	154.4 145.6 65.0 120.4 81.8 227.9 106.1 188.7	154.5 145.6 66.4 120.9 82.8 227.7 104.7 189.1	155.2 146.3 66.1 122.0 81.1 229.1 105.1 189.8	157.2 148.7 66.5 120.5 83.0 232.4 112.5 190.3	156.7 148.3 67.1 120.0 83.8 231.9 111.2 189.8	157.0 148.7 67.0 121.3 84.7 232.8 109.5 189.7	157.1 148.6 67.1 122.5 85.5 233.3 105.6 190.2
Intermediate products 36 Construction supplies	5.95 6.99 5.67 1.31	124.7 146.4 150.6 128.3	127.9 149.8 154.3 130.3	128.4 149.4 154.1 128.8	128.5 150.5 155.2 130.3	127.3 150.5 155.5 129.0	128.3 153.8 158.2 135.0	131.5 153.4 158.5 131.1	133.1 155.2 160.5 132.3	132.5 156.3 161.0 135.8	132.3 155.6 160.9 132.7	133.3 157.1 162.3 134.6	134.0 158.5 164.3 133.2	134.6 158.8 164.5 134.2	134.6
Materials 40 Durable goods materials	20.50 4.92 5.94 9.64 4.64	119.7 98.5 153.9 109.4 80.0	120.7 98.8 154.2 111.2 80.3	121.5 100.0 155.6 111.5 80.3	121.8 98.9 155.8 112.6 80.8	122.2 96.2 157.1 114.1 81.8	121.6 95.2 156.0 113.9 81.9	124.0 99.2 158.3 115.5 83.6	125.2 98.5 159.3 117.7 86.6	125.5 99.6 159.5 117.9 90.4	126.4 99.0 161.1 118.9 91.3	128.7 102.3 162.2 121.6 95.3	130.0 103.0 163.2 123.2 96.3	131.8 103.7 164.8 125.9 100.7	131.9 103.0 166.0 125.7 99.5
45 Nondurable goods materials 46 Textile, paper, and chemical materials 47 Textile materials 48 Pulp and paper materials 49 Chemical materials 50 Miscellaneous nondurable materials	7.53 1.52 1.55 4.46 2.57	118.9 110.6 132.1 117.1 116.5	123.2 124.7 116.1 140.2 122.3 118.5	122.5 123.6 115.8 136.7 121.8 119.0	122.8 124.0 118.5 134.7 122.1 119.2	125.4 126.9 125.0 137.4 125.0 121.1	125.3 126.5 137.4 125.0 122.0	124.1 125.1 111.9 139.0 124.9 120.9	127.6 129.6 117.8 145.4 128.1 122.0	128.3 130.6 116.7 145.0 130.4 121.4	128.6 131.2 116.0 143.3 132.2 120.9	128.2 131.0 113.0 142.0 133.4 119.7	129.4 132.4 114.2 143.5 134.7 120.9	131.3 134.5 114.6 146.4 137.2	131.4
51 Energy materials 52 Primary energy 53 Converted fuel materials	11.69 7.57 4.12	99.9 105.5 89.6	98.8 105.1 87.3	97.6 102.6 88.5	97.0 101.5 88.9	97.5 102.3 88.7	99.3 103.6 91.4	99.4 104.0 91.0	99.0 102.5 92.5	100.9 104.6 94.1	100.2 104.6 92.2	101.8 106.8 92.7	102.4 107.8 92.6	101.3 106.3 92.1	101.6

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2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value—Continued

		1977		1986						1987						1988
Groups	SIC	propor- tion	1986 avg.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p	Jan.e
				Dec.	100.		търг	l lilay				осрі.		1101.	. Dec.	Jan.
					Γ	<u> </u>	Ι	1	Inde	(1977 =	= 100)	Γ	Γ	Ι	I	
MAJOR INDUSTRY																
1 Mining and utilities. 2 Mining 3 Utilities 4 Manufacturing 5 Nondurable 6 Durable 1 Du		15.79 9.83 5.96 84.21 35.11 49.10	103.4 99.6 109.6 129.1 130.9 127.9	101.6 97.1 109.0 131.3 133.4 129.7	102.4 98.8 108.5 131.6 132.9 130.8	98.3 107.9 132.4 133.7	101.4 98.6 106.0 132.4 134.6 130.9	109.6 133.2	134.0 136.9	99.2 111.2 135.6 138.5	105.4 100.9 112.9 135.9 138.8 133.8	105.4 101.9 111.2 135.7 138.6 133.7	106.8 103.6 112.1 137.3 138.1 136.8		106.8 103.2 112.6 138.5 140.6 137.1	106,9 102,6 114,0 138,9 141,2 137,2
Mining 7 Metal. 8 Coal. 9 Oil and gas extraction 10 Stone and earth minerals	11.12	.50 1.60 7.07 .66	124.2 94.7 113.9	76.2 125.4 89.8 122.5	73.6 131.7 90.9 122.1	122.3	65.7 121.9 93.1 125.4		70.7 128.8 91.8 128.5	71.4 127.9 91.8 130.7	79.3 130.5 93.0 130.3	86.5 133.3 93.3 130.0	85.6 140.3 94.1 131.0	142.9 93.6	140.6	92.3
Nondurable manufactures 11 Foods 12 Tobacco products 13 Textile mill products 14 Apparel products 15 Paper and products	21 22 23	7.96 .62 2.29 2.79 3.15	133.6 96.6 113.2 103.6 136.4	136.7 93.4 113.4 104.9 141.1	136.4 99.9 110.8 106.5 139.9	137.3 101.1 112.6 105.4 139.9	136.0 99.6 116.6 105.3 140.5	115.7 106.4	117.2 107.7	118.3 109.7	138.8 110.4 119.8 108.4 148.9		138.0 103.7 116.8 108.0 146.0	103.4 118.3 109.3	139.4 119.2 149.8	
16 Printing and publishing 17 Chemicals and products 18 Petroleum products 19 Rubber and plastic products. 20 Leather and products.	28 29 30	4.54 8.05 2.40 2.80 .53	163.4 133.0 92.1 153.3 61.3	166.4 135.7 93.5 157.1 60.2	164.4 135.7 91.6 156.2 59.8	158.6	169.2 137.3 94.0 160.5 60.2		165.4	174.0 140.8 94.1 167.2 59.2	174.7 142.3 92.9 164.8 61.3	174.9 142.4 93.5 165.2 60.7	175.2 141.5 94.6 166.7 59.6	175.6 144.2 93.3 169.4 60.7	175.9 146.8 96.0 169.9 58.3	97.4
Durable manufactures 21 Lumber and products	24 25 32	2.30 1.27 2.72	123.4 146.7 120.2	133.5 148.8 119.4	129.6 145.0 118.8	149.9	127.8 148.2 120.6	130.3 150.5 117.2	153.9		131.1 155.2 116.5	126.9 155.9 118.6			135.8 159,2 122,1	
24 Primary metals 25 Iron and steel 26 Fabricated metal products 27 Nonelectrical machinery 28 Electrical machinery	33 331.2 34 35 36	5.33 3.49 6.46 9.54 7.15	75.8 63.4 107.4 141.9 166.5	73.4 61.3 109.6 144.8 170.4	75.1 62.3 108.3 145.5 171.0	148.5	76.1 65.0 109.9 150.4 168.4	77.0 65.7 108.5 149.7 171.1	78,8 68.3 111.1 151.8 170.5	81.4 70.9 111.1 155.3 172.5	85.1 76.0 110.1 154.3 174.3	84.5 74.6 111.1 156.6 173.4	90.6 82.0 113.5 158.0 175.5	79.7 113.8	92.6 85.0 115.5 158.6 175,3	91.0 116.0 159.2 176.3
29 Transportation equipment 30 Motor vehicles and parts	37 371	9.13 5.25	125.8 110.9	126.8 109.7	132.7 117.7	132.2 116.5	127.8 109.8	129.4 112.0	126.5 107.4	127.6 109.4	128.1 109.1	125.5 105.6	132.0 116.0	130.4 114.0	128.4 110.5	128.0 109.0
31 Aerospace and miscellaneous transportation equipment	372-6.9 38 39	3.87 2.66 1.46	146.1 141.3 99.3	150.1 140.2 103.8	153.0 142.0 101.6		152.3 142.8 101.4	153.1 142.1 101.9	152.4 144.5 101.2	152.3 143.8 100.5	153.9 146.3 102.2	152.5 145.6 102.1	153.7 146.7 104.6	152.8 147.3 104.5	152.6 144.8 103.6	153.8 145.8
Utilities 34 Electric		4.17	122.2	122.6	122.3	123.6	122.3	128.8	128.8	131.0	132.0	127.5	126.8	127.5	126.9	
	1				G	ross val	ue (billic	ons of I	982 dolla	ırs, annı	al rates)				
Major Market									-							
35 Products, total		517.5	1,702.2	1,700.7	1,718.7	1,725.2	1,710.0	1,723.0	1,720.4	1,732.5	1,741.7	1,735.9	1,774.1	1,771.1	1,771.0	1,780.2
36 Final 37 Consumer goods 38 Equipment 39 Intermediate		405.7 272.7 133.0 111.9	1,314.5 853.8 458.2 387.6	1,307.3 857.1 450.2 393.4	1,329.2 865.3 463.9 389.5	1,330.3 868.1 462.2 394.9	1,316.5 857.1 459.4 393.6	1,324.7 862.8 461.9 398.4	465.0	1,326.6 863.2 463.5 405.9	1,334.9 866.4 468.5 406.8	1,330.3 856.9 473.4 405.6			1,355.3 878.2 477.1 415.7	1,363.1 885.5 477.6 417.1

[▲] A major revision of the industrial production index and the capacity utilization rates was released in July 1985. See "A Revision of the Index of Industrial Production" and accompanying tables that contain revised indexes (1977=100) through December 1984 in the Federal Reserve Bulletin, vol. 71

⁽July 1985), pp. 487–501. The revised indexes for January through June 1985 were shown in the September BULLETIN.
NOTE. These data also appear in the Board's G.12.3 (414) release. For address, see inside front cover.

Monthly figures are at seasonally adjusted annual rates except as noted.

	_								19	987			-	
	Item	1985	1986	1987	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.
					Priv	ate reside	ntial real	estate acti	ivity (thou	sands of u	inits)			
	New Units													
1 2 3	Permits authorized	1,733 957 777	1,750 1,071 679	1,524 1,030 495	1,719 1,150 569	1,598 1,058 540	1,493 1,009 484	1,517 1,039 478	1,487 993 494	1,502 1,023 479	1,502 992 510	1,463 977 486	1,469 983 486	1,361 974 387
4 5 6	Started	1,742 1,072 669	1,805 1,179 626	1,621 1,147 474	1,723 ^r 1,206 ^r 517 ^r	1,635' 1,201' 434'	1,599 ^r 1,125 ^r 474 ^r	1,583′ 1,086′ 497′	1,594 ^r 1,142 ^r 452 ^r	1,583' 1,109' 474	1,679 ^r 1,211 468 ^r	1,538 1,105 433	1,661 1,129 532	1,404 1,041 363
7 8 9	Under construction, end of period ¹ . 1-family	1,063 539 524	1,074 583 490	1,002 599 403	1,085 618 467	1,070 623 446	1,061 621 441	1,059 620 439	1,053 623 430	1,049 625 424	1,052 631 421	1,049 631 418	1,050 630 420	1,030 625 406
10 11 12	Completed	1,703 1,072 631	1,756 1,120 637	1,664 1,120 545	1,689 1,141 548	1,830 1,148 682	1,621 1,158 463	1,601 1,101 500	1,698 1,120 578	1,666 1,067 599	1,581 1,112 469	1,549 1,111 438	1,562 1,080 482	1,635 1,110 525
13	Mobile homes shipped	284	244	233	230'	229'	224	234	243'	234 ^r	240′	234	222	227
14 15	Merchant builder activity in I-family units Number sold Number for sale, end of period	688 350	748 361	675 371	720 358	733 359	649 355	641 359	671 359	675 361	644 ^r 361	659 360	643 363	603 366
	Price (thousands of dollars) ² Median								ļ					
16 17	Units soldAverage Units sold	84.3 101.0	92.2 112.2	104.4	98.4 119.5	96.5 118.1	104.9 126.6	109.0	105.0	106.8	106.5' 133.5'	106.0	117.0	108.9
17	Existing Units (1-family)	101.0	112.2	127.6	117.5	116.1	120.0	155.6	120.0	126.5	133.3	123.0	159.0	133.6
18	Number sold	3,217	3,566	3,523	3,680	3,560	3,770	3,500	3,430	3,410	3,450	3,570	3,370	3,330
19 20	Price of units sold (thousands of dollars) ² Median Average	75.4 90.6	80.3 98.3	84.9 105.3	85.6 104.9	85.0 105.0	85.2 106.3	85.2 106.0	86.2 107.6	85.1 105.3	85.1 106.2	84.8 106.3	83.7 105.0	85.4 107.1
				L		Value of	new cons	struction ³	(millions o	of dollars)	L		l	L
	Construction					-		_						
21	Total put in place	355,995	388,815	399,468	388,303	396,222	396,680	397,191	398,465	402,872	402,782 ^r	403,482	411,325	409,730
	Private	291,665 158,475	316,589 187,147 129,442	324,065 198,103 125,962	312,203 190,812 121,391	320,483 199,523 120,960	321,414 195,871 125,543	324,256 200,864 123,392	323,847 198,005 125,842	329,831 200,241 129,590	324,857' 196,969' 127,888	326,658 198,803 127,855	333,581 199,823 133,758	330,090 200,762 129,328
25 26 27 28	Buildings. Industrial Commercial Other. Public utilities and other	15,769 51,315 12,619 53,487	13,747 48,592 13,216 53,887	13,072 43,892 15,199 53,799	11,354 52,285 15,143 42,609	11,492 50,924 14,950 43,594	13,376 53,224 14,926 44,017	13,023 51,831 14,769 43,769	13,005 52,537 15,317 44,983	13,659 54,055 14,888 46,988	14,387 52,800 15,079 45,622	13,561 53,788 15,567 44,939	14,363 57,602 16,158 45,635	13,412 53,935 16,515 45,466
	Public Military Highway. Conservation and development Other	64,326 3,283 21,756 4,746 34,541	72,225 3,919 23,360 4,668 40,278	75,401 4,204 23,275 5,222 42,700	76,100 3,893 23,575 4,792 43,840	75,739 3,403 22,673 5,551 44,112	75,266 4,397 22,607 4,839 43,423	72,935 4,352 21,704 5,498 41,381	74,618 5,009 22,441 5,328 41,840	73,041 4,193 22,005 5,127 41,716	77,924 6,083 23,489 4,978 43,374	76,824 4,308 24,975 5,491 42,050	77,744 4,738 24,832 5,188 42,986	79,641 3,164 26,400 6,060 44,017

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.

^{1.} Not at annual rates.
2. Not seasonally adjusted.
3. Value of new construction data in recent periods may not be strictly comparable with data in prior 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.

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2.15 CONSUMER AND PRODUCER PRICES

Percentage changes based on seasonally adjusted data, except as noted

		from 12 s earlier	Char	nge from 3 (at ann	months e	arlier		Change f	rom 1 mos	nth earlier		Index level
Item	1987	1988		19	87 ^r			19	87'		1988	Jan. 1988 (1967
	Jan.	Jan.	Mar.	June	Sept.	Dec.	Sept.	Oct.	Nov.	Dec.	Jan.	= 100)1
Consumer Prices ²												
1 All items	1.5	4.0	6.3	4.3	3.9	3.2	.3	.3	.3	.2	.3	115.7
2 Food	-17.1 3.8 1.4 5.0	3.2 4.2 4.3 3.4 4.8	3.6 25.5 4.9 4.8 4.8	5.8 6.6 3.8 3.7 4.4	2.1 6.0 3.8 2.9 4.3	2.8 -3.9 4.4 2.5 5.0	.5 4 .2 .4 .2	6 5 4 6	.1 .3 .3 .4 .2	4 8 .2 2 .4	3 7 .5 .4 .6	115.7 87.4 120.8 113.2 125.2
PRODUCER PRICES												
7 Finished goods 8 Consumer foods 9 Consumer energy 10 Other consumer goods. 11 Capital equipment.	-1.4 1.8 -31.9 3.1 2.4	2.1 2.4 1.7 2.7 1.2	4.3 -2.5 40.6 2.9 1.1	3.5 9.6 2.0 1.8 1.1	3.8 -1.8 16.5 4.6 4.0	-2.6 -5.7 -12.5 1.4 7	.4 .6 5 .5	2 4 8 .1 3	1 .3 9 1 1	4 -1.4 -1.6 .3 .2	.4 1.7 -4.5 .6 .2	106.2 110.6 59.0 116.3 112.7
12 Intermediate materials ³	-3.3 .7	5.1 5.8	6.7 4.2	5.3 4.2	5.6 5.3	4.8 7.6	.2 .6	.5 .7	.5 .5	.2 .5	.3 .9	104.2 111.7
Crude materials 14 Foods	-1.8 -21.1 1.8	5.6 -1.9 22.4	-2.5 50.0 8.7	25.2 11.3 27.2	-4.8 5.9 39.4	-5.2 -15.7 16.9	.0 -2.8 3.4	.5 -1.6 2.8	-2.7 -1.2 .7	-1.5 -5	.9 -3.8 1.3	96.9 70.7 128.6

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.

2.16 GROSS NATIONAL PRODUCT AND INCOME

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

			40075	1986		19	987	
Account	1985	1986	1987'	Q4	QI	Q2	Q3	Q4'
Gross National Product								
1 Total	4,010.3	4,235.0	4,487.7	4,288.1	4,377.7	4,445.1	4,524.0	4,604.0
By source 2 Personal consumption expenditures 3 Durable goods	2,629.4	2,799.8	2,967.0	2,858.6	2,893.8	2,943.7	3,011.3	3,019.2
	368.7	402.4	413.8	419.8	396.1	409.0	436.8	413.1
	913.1	939.4	981.6	946.3	969.9	982.1	986.4	988.1
	1,347.5	1,458.0	1,571.6	1,492.4	1,527.7	1,552.6	1,588.1	1,617.9
6 Gross private domestic investment 7 Fixed investment 8 Nonresidential 9 Structures 10 Producers' durable equipment 11 Residential structures	641.6	671.0	716.7	660.2	699.9	702.6	707.4	756.8
	631.6	655.2	671.3	666.6	648.2	662.3	684.5	690.1
	442.6	436.9	442.9	439.7	422.8	434.6	456.6	457.8
	152.5	137.4	133.9	132.9	128.7	129.7	137.1	140.1
	290.1	299.5	309.0	306.7	294.1	304.9	319.5	317.6
	189.0	218.3	228.4	226.9	225.4	227.7	227.9	232.3
12 Change in business inventories	10.0	15.7	45.4	-6.4	51.6	40.3	22.9	66.7
	13.6	16.8	36.6	5.1	48.7	27.3	11.1	59,3
14 Net exports of goods and services 15 Exports 16 Imports	-79.2	-105.5	-120.3	-116.9	-112.2	-118.4	-123.7	-126.9
	369.9	376.2	427.4	383.3	397.3	416.5	439.2	456.8
	449.2	481.7	547.7	500.2	509.5	534.8	562.9	583.7
17 Government purchases of goods and services 18 Federal	818.6	869.7	924.3	886.3	896.2	917.1	929.0	954.8
	353.9	366.2	380.9	368.6	366.9	379.6	382.1	395.1
	464.7	503.5	543.4	517.7	529.3	537.6	546.9	559.7
By major type of product 20 Final sales, total 21 Goods 22 Durable 23 Nondurable 24 Services 25 Structures	4,000.3	4,219.3	4,442.3	4,294.6	4,326.0	4,404.8	4,501.1	4,537.3
	1,637.9	1,693.8	1,782.5	1,698.9	1,738.7	1,763.5	1,798.3	1,829.4
	704.3	726.8	772.9	737.3	747.0	756.7	785.7	802.2
	933.6	967.0	1,009.6	961.6	991.7	1,006.8	1,012.6	1,027.2
	1,969.2	2,116.2	2,270.1	2,160.0	2,212.0	2,252.2	2,289.3	2,327.0
	403.1	425.0	435.1	429.3	426.9	429.4	436.4	447.6
26 Change in business inventories 27 Durable goods 28 Nondurable goods	10.0	15.7	45.4	-6.4	51.6	40.3	22.9	66.7
	7.3	4.8	24.8	-4.5	35.2	22.1	-1.9	43.7
	2.7	10.9	20.6	-1.9	16.5	18.2	24.8	23.0
29 MEMO Total GNP in 1982 dollars	3,607.5	3,713.3	3,820.3	3,731.5	3,772,2	3,795.3	3,835.9	3,877.9
NATIONAL INCOME								
30 Total	3,229.9	3,422.0	3,637.7	3,471.0	3,548.3	3,593.3	3,659.0	n.a.
31 Compensation of employees 32 Wages and salaries 33 Government and government enterprises 34 Other 35 Supplement to wages and salaries 36 Employer contributions for social insurance 37 Other labor income	2,370.8	2,504.9	2,647.5	2,552.0	2,589.9	2,623.4	2,663.5	2,713.4
	1,974.7	2,089.1	2,212.7	2,128.5	2,163.3	2,191.4	2,226.5	2,269.8
	372.3	394.8	421.4	403.8	412.2	418.1	424.5	430.9
	1,602.6	1,694.3	1,791.3	1,724.7	1,751.1	1,773.3	1,801.9	1,838.9
	396.1	415.8	434.8	423.5	426.6	432.0	437.0	443.6
	203.8	214.7	224.6	219.1	220.0	222.5	225.9	230.0
	192.3	201.1	210.2	204.4	206.7	209.5	211.1	213.5
38 Proprietors' income ¹ 39 Business and professional ¹ 40 Farm ¹	257.3	289.8	327.8	297.8	320.9	323.1	322.7	344.5
	227.6	252.6	279.0	261.2	269.7	275.8	282.1	288.4
	29.7	37.2	48.8	36.6	51.3	47.3	40.6	56.1
41 Rental income of persons ²	9.0	16.7	19.1	18.4	20.0	18.9	17.3	20.1
42 Corporate profits 4 43 Profits before tax 4 44 Inventory valuation adjustment 4 5 Capital consumption adjustment 4.	277.6	284.4	306.5	281.1	294.0	296.8	314.9	n.a.
	224.8	231.9	275.7	247.9	257.0	268.7	284.9	n.a.
	7	6.5	-17.3	-8.9	-11.3	-20.0	-17.6	-20.4
	53.5	46.0	48.2	42.1	48.2	48.0	47.7	48.7
46 Net interest	315.3	326.1	336.7	321.7	323.6	331.1	340.6	351.6

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.

				1986		19	87	
Account	1985	1986	1987'	Q4	Q1	Q2	Q3	Q4 ⁷
Personal Income and Saving	-		-					
1 Total personal income	3,327.0	3,534.3	3,746.3	3,593.6	3,662.0	3,708.6	3,761.0	3,853.6
2 Wage and salary disbursements 3 Commodity-producing industries 4 Manufacturing 5 Distributive industries 6 Service industries 7 Government and government enterprises	1,974.9 609.2 460.9 473.0 520.4 372.3	2,089.1 623.3 470.5 497.1 573.9 394.8	2,212.7 641.1 484.0 522.9 627.3 421.4	2,128.5 628.4 474.5 504.7 591.6 403.8	2,163.3 632.9 477.2 511.5 606.7 412.2	2,191.4 635.0 479.0 518.9 619.3 418.1	2,226.1 641.8 485.1 526.3 633.9 424.2	2,270.2 654.8 494.7 534.8 649.3 431.2
8 Other labor income 9 Proprietors' income 10 Business and professional 11 Farm 12 Rental income of persons ² 13 Dividends 14 Personal interest income 15 Transfer payments 16 Old-age survivors, disability, and health insurance benefits	192.3 257.3 227.6 29.7 9.0 76.3 476.5 489.7 253.4	201.1 289.8 252.6 37.2 16.7 81.2 497.6 518.3 269.2	210.2 327.8 279.0 48.8 19.1 87.5 515.8 543.0 282.8	204.4 297.8 261.2 36.6 18.4 82.9 496.8 526.6 273.5	206.7 320.9 269.7 51.3 20.0 84.5 499.8 533.7 278.0	209.5 323.1 275.8 47.3 18.9 86.3 506.3 541.5 282.3	211.1 322.7 282.1 40.6 17.3 88.7 520.0 545.8 284.4	213.5 344.5 288.4 56.1 20.1 90.5 537.2 551.2 286.5
17 Less: Personal contributions for social insurance	148.9	159.6	169.8	161.8	166.7	168.4	170.7	173.6
18 EQUALS: Personal income	3,327.0	3,534.3	3,746.3	3,593.6	3,662.0	3,708.6	3,761.0	3,853.6
19 Less: Personal tax and nontax payments	485.9	512.2	564.8	532.0	536.1	578.0	565,7	579.4
20 Equals: Disposable personal income	2,841.1	3,022.1	3,181.5	3,061.6	3,125.9	3,130.6	3,195.3	3,274.2
21 Less: Personal outlays	2,714.1	2,891.5	3,061.9	2,952.6	2,987.5	3,037.4	3,106.5	3,116.4
22 EQUALS: Personal saving	127.1	130.6	119.6	109.0	138.4	93.2	88.8	157.9
MEMO Per capita (1982 dollars) 23 Gross national product 24 Personal consumption expenditures 25 Disposable personal income 26 Saving rate (percent)	15,073.7 9,830.2 10,622.0 4.5	15,369.6 10,142.8 10,947.0 4.3	15,669.8 10,239.1 10,979.0 3.8	15,387.6 10,228.8 10,956.0 3.6	15,523.4 10,188.9 11,008.0 4.4	15,586.4 10,215.6 10,865.0 3.0	15,714.4 10,326.5 10,958.0 2.8	15,847.5 10,220.2 11,083.0 4.8
Gross Saving								
27 Gross saving	531.3	532.0	566.2	515.3	554.3	551.3	559.3	n.a.
28 Gross private saving 29 Personal saving 30 Undistributed corporate profits ¹ 31 Corporate inventory valuation adjustment	664.2 127.1 99.6 7	679.8 130.6 92.6 6.5	673.3 119.6 74.6 -17.3	653.4 109.0 78.5 -8.9	683.8 138.4 75.6 -11.3	639.9 93.2 70.1 -20.0	648.7 88.8 76.8 -17.6	n.a. 157.9 n.a. -20.4
Capital consumption allowances 32 Corporate 33 Noncorporate	269.1 168.5	282.8 173.8	296.2 182.9	289.3 176.6	291.8 178.0	294.5 182.1	297.8 185.3	300.9 186.3
34 Government surplus, or deficit (-), national income and product accounts 35 Federal	-132.9 -196.0 63.1	-147.8 -204.7 56.8	-107.1 -151.4 44.3	-138.1 -188.7 50.6	129.5 170.5 	-88.6 -139.2 50.6	-89.3 -135.8 46.5	n.a. n.a. n.a.
37 Gross investment	525.7	527.1	559.5	503.7	552.1	548.1	548.4	589.2
38 Gross private domestic	641.6 -115.9	671.0 -143.9	716.7 -157.2	660.2 -156.5	699.9 -147.7	702.6 -154.5	707.4 -159.0	756.8 -167.7
40 Statistical discrepancy	-5.6	-4.9	-6.8	-11.6	-2.2	-3.1	-10.9	-10.9

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

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

3.10 U.S. INTERNATIONAL TRANSACTIONS Summary

Millions of dollars; quarterly data are seasonally adjusted except as noted.1

				19	86		1987	
Item credits or debits	1984	1985	1986	Q3	Q4	Qı	Q2	Q3 ^p
1 Balance on current account 2 Not seasonally adjusted 3 Merchandise trade balance ² 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 (excluding military)	-107,013 -112,522 219,900 -332,422 -1,942 18,490 1,138 -3,637 -8,541	-116,394 -122,148 215,935 -338,083 -3,338 25,398 -1,005 -4,079 -11,222	-141,352 -144,339 224,361 -368,700 -3,662 20,844 1,463 -3,885 -11,772	-36,583 -40,230 -37,115 56,534 -93,649 -815 5,339 342 -875 -3,459	-37,977 -36,398 -38,595 57,021 -95,616 -495 4,492 759 -1,151 -2,987	-36,784 -33,435 -38,757 56,992 -95,749 -37 5,500 -387 -1,017 -2,086	-41,190 -42,006 -39,558 60,097 -99,655 29 1,577 -146 -865 -2,227	-43,378 -48,525 -39,832 65,263 -105,095 -443 -267 -95 -872 -2,059
11 Change in U.S. government assets, other than official reserve assets, net (increase, -)	-5,476	-2,831	-1,920	-1,454	15	225	-177	232
12 Change in U.S. official reserve assets (increase, -)	-3,130 0 -979 -995 -1,156	-3,858 0 -897 908 -3,869	312 0 -246 1,500 -942	280 0 163 508 -391	132 0 -31 283 -120	1,956 0 76 606 1,274	3,419 0 -171 335 3,255	32 0 -210 407 -165
17 Change in U.S. private assets abroad (increase, -) ³ . 18 Bank-reported claims. 19 Nonbank-reported claims 20 U.S. purchase of foreign securities, net 21 U.S. direct investments abroad, net ³ .	-13,685 -11,127 5,019 -4,756 -2,821	-24,711 -1,323 1,361 -7,481 -17,268	-94,374 -59,039 -3,986 -3,302 -28,047	-23,304 -18,878 -685 -620 -5,731	-32,351 -31,800 170 3,113 -3,834	13,352 25,686 -1,163 -1,345 -9,826	-18,137 -15,685 2,603 384 -5,439	-29,467 -21,249 -930 -7,288
22 Change in foreign official assets in the United States (increase, +) 23 U.S. Treasury securities 24 Other U.S. government obligations 25 Other U.S. government liabilities* 26 Other U.S. liabilities reported by U.S. banks 27 Other foreign official assets*	2,987 4,690 13 586 555 -2,857	-1,140 -838 -301 823 645 -1,469	34,698 34,515 -1,214 1,723 554 -880	15,551 12,167 -276 999 2,963 -302	1,003 4,572 -117 -607 -2,435 -410	13,953 12,145 -62 -1,381 3,611 -360	10,070 11,084 256 -1,504 547 -313	359 1,200 714 506 425 624
28 Change in foreign private assets in the United States (increase, +)* 9 U.S. bank-reported liabilities 10 U.S. nonbank-reported liabilities 11 Foreign private purchases of U.S. Treasury securities, net . 12 Foreign purchases of other U.S. securities, net . 13 Foreign direct investments in the United States, net .	99,481 33,849 4,704 23,001 12,568 25,359	131,012 41,045 -450 20,433 50,962 19,022	178,689 77,350 -2,791 8,275 70,802 25,053	54,040 30,360 -80 609 17,074 6,077	57,428 34,604 1,035 -3,074 12,269 12,594	12,802 -13,614 1,761 -1,570 18,499 7,726	39,494 14,823 1,526 -2,211 15,870 9,486	67,650 48,872 2,832 12,669 8,941
34 Allocation of SDRs 35 Discrepancy 36 Owing to seasonal adjustments 37 Statistical discrepancy in recorded data before seasonal adjustment	26,837 26,837	17,920 17,920	23,947 23,947	0 -8,530 -4,153 -4,377	0 11,750 3,904 7,846	-5,504 2,652 -8,156	6,521 -2,009 8,530	0 4,572 -5,177 9,749
MEMO Changes in official assets U.S. official reserve assets (increase, -). Foreign official assets in the United States (increase, +) excluding line 25. Change in Organization of Petroleum Exporting Countries official assets in the United States (part of line 22	-3,130 2,401	-3,858 -1,963	312 32,975	280 14,552	132 1,610	1,956 15,334	3,419 11,574	32 865
above). 41 Transfers under military grant programs (excluded from lines 4, 6, and 10 above)	-4,504 153	-6,709 46	-8,508 101	-3,023 19	-5,195 53	-2,901 8	-2,651 26	-1,681 10

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.
 Includes reinvested earnings.

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.
 Note. Data are from Bureau of Economic Analysis, Survey of Current Business (Department of Commerce).

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3.11 U.S. FOREIGN TRADE¹

Millions of dollars; monthly data are not seasonally adjusted.

		1005	100	1987	1987									
	ltem	1985	1986		June	July	Aug.	Sept.	Oct.	Nov.	Dec.			
1	EXPORTS of domestic and foreign merchandise excluding grant-aid shipments, f.a.s. value	218,815	226,808	252,866	21,126	21,008	20,222	20,986	21,752	23,799	24,801			
2	GENERAL IMPORTS including merchandise for immediate consumption plus entries into bonded warehouses, c.i.f. value	352,463	382,964	424,082	36,838	37,483	35,905	35,062	39,383	37,016	37,003			
3	Trade balance	-133,648	-156,156	-171,217	-15,711	-16,475	-15,683	-14,076	-17,631	-13,218	-12,202			

^{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-

3.12 U.S. RESERVE ASSETS

Millions of dollars, end of period

		1004	1005	1007	1987								
	Type	1984	1985	1986	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.		
1	Total	34,934	43,186	48,511	44,318	45,944	45,070	46,200	46,779	45,798	42,955		
2	Gold stock, including Exchange Stabilization Fund	11,096	11,090	11,064	11,069	11,068	11,075	11,085	11,082	11,078	11,068		
3	Special drawing rights ^{2,3}	5,641	7,293	8,395	8,813	9,174	9,078	9,373	9,937	10,283	9,765		
4	Reserve position in International Monetary Fund ²	11,541	11,947	11,730	10,964	11,116	10,918	11,157	11,369	11,349	10,804		
5	Foreign currencies ⁴	6,656	12,856	17,322	13,472	14,586	13,999	14,585	14,391	13,088	11,318		

^{1.} Gold held under earmark at Federal Reserve Banks for foreign and international accounts is not included in the gold stock of the United States; see table 3.13. Gold stock is valued at \$42.22 per fine troy ounce.

3.13 FOREIGN OFFICIAL ASSETS HELD AT FEDERAL RESERVE BANKS¹

Millions of dollars, end of period

Assets	1984	1985	1004	1987							
	1704	1763	1986	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	
1 Deposits	267	480	287	261	294	456	236	351	244	355	
Assets held in custody 2 U.S. Treasury securities ² 3 Earmarked gold ³	118,000 14,242	121,004 14,245	155,835 14,048	171,269 14,010	179,484 14,022	179,097 14,015	182,072 13,998	187,767 13,965	195,126 13,919	206,675 13,882	

^{1.} Excludes deposits and U.S. Treasury securities held for international and

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. Total exports and the trade balance reflect adjustments for undocumented exports

SOURCE. FT900 "Summary of U.S. Export and Import Merchandise Trade" (Department of Commerce, Bureau of the Census).

^{2.} 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.

regional organizations.
2. Marketable U.S. Treasury bills, notes, and bonds; and nonmarketable U.S. Treasury bills, notes, and currencies.

^{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.

3.14 FOREIGN BRANCHES OF U.S. BANKS Balance Sheet Data¹ Millions of dollars, end of period

Anyat ag	1984	1985	1986				1987			
Asset account	1984	1985	1986	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
			<u>. </u>		All foreign	countries				
1 Total, all currencies	453,656	458,012	456,628	475,188	470,391	473,540	489,692'	520,860 ^r	524,980	518,149
2 Claims on United States 3 Parent bank 4 Other banks in United States 5 Nonbanks 6 Claims on foreigners 7 Other branches of parent bank 8 Banks 9 Public borrowers 0 Nonbank foreigners	113,393 78,109 13,664 21,620 320,162 95,184 100,397 23,343 101,238	119,706 87,201 13,057 19,448 315,676 91,399 102,960 23,478 97,839	114,563 83,492 13,685 17,386 312,955 96,281 105,237 23,706 87,731	123,400 89,376 15,981 18,043 319,546 101,326 107,747 22,590 87,883	123,687 89,793 14,303 19,591 314,078 96,582 110,124 21,412 85,960	124,737 89,958 14,739 20,040 314,727 97,988 108,068 21,537 87,134	137,218 101,635 15,949 19,634 319,365 103,277 108,230 21,463 86,395	138,016' 99,245' 17,826 20,945 347,014' 116,547' 118,051 21,843 90,573	140,693 102,609 16,701 21,383 345,735 116,498 115,372 22,131 91,734	137,751 105,562 16,416 15,773 341,936 122,057 108,643 21,659 89,577
1 Other assets	20,101	22,630	29,110	32,242	32,626	34,076	33,109°	35,830	38,552	38,462
2 Total payable in U.S. dollars	350,636	336,520	317,487	329,499	322,300	322,286	340,653 ^r	354,122	352,584	350,166
3 Claims on United States 4 Parent bank 5 Other banks in United States 6 Nonbanks 7 Claims on foreigners 8 Other branches of parent bank 9 Banks 0 Public borrowers 1 Nonbank foreigners	111,426 77,229 13,500 20,697 228,600 78,746 76,940 17,626 55,288	116,638 85,971 12,454 18,213 210,129 72,727 71,868 17,260 48,274	110,620 82,082 12,830 15,708 195,063 72,197 66,421 16,708 39,737	118,411 87,540 14,669 16,202 198,465 75,771 67,287 16,271 39,136	118,563 87,779 12,794 17,990 190,590 72,515 65,673 15,062 37,340	118,964 87,844 12,830 18,290 189,958 73,327 64,106 15,115 37,410	131,684 99,776 13,942 17,966 195,075 77,699 64,506 14,942 37,928	131,454 ^r 97,052 ^r 15,627 18,775 208,934 ^r 86,687 ^r 68,888 14,889 38,470	133,911 99,844 14,632 19,435 203,298 85,545 65,728 14,854 37,171	131,740 102,968 14,657 14,115 202,280 88,186 63,704 14,730 35,660
2 Other assets	10,610	9,753	11,804	12,623	13,147	13,364	13,894'	13,734	15,375	16,146
					United K	ingdom				
3 Total, all currencies	144,385	148,599	140,917	146,678	149,760	148,039	149,633'	163,472	167,726	159,186
4 Claims on United States 5 Parent bank 6 Other banks in United States 7 Nonbanks 7 Roman States 9 Other branches of parent bank 9 Banks 1 Public borrowers 1 Nonbank foreigners 2 Nonbank foreigners	27,675 21,862 1,429 4,384 111,828 37,953 37,443 5,334 31,098	33,157 26,970 1,106 5,081 110,217 31,576 39,250 5,644 33,747	24,599 19,085 1,612 3,902 109,508 33,422 39,468 4,990 31,628	30,859 25,944 1,194 3,721 107,407 32,641 37,745 4,684 32,337	32,694 27,288 1,537 3,869 108,732 31,241 41,219 4,617 31,655	31,377 25,627 1,585 4,165 108,293 30,794 40,082 4,761 32,656	32,581 27,128 1,349 4,104 108,562 33,334 38,390 4,725 32,113	33,904 ^r 27,710 ^r 1,870 4,324 120,079 ^r 37,402 ^r 42,929 4,881 34,867	35,406 29,553 1,694 4,159 121,473 39,138 41,649 5,272 35,414	32,518 27,350 1,259 3,909 115,700 39,903 36,735 4,752 34,310
3 Other assets	4,882	5,225	6,810	8,412	8,334	8,369	8,490 ^r	9,489	10,847	10,968
4 Total payable in U.S. dollars	112,809	108,626	95,028	97,672	99,170	96,510	99,656′	105,515	107,215	101,065
5 Claims on United States 67 Parent bank 7 Other banks in United States 8 Nonbanks 9 Claims on foreigners 9 Other branches of parent bank 1 Banks 2 Public borrowers 1 Nonbank foreigners	26,868 21,495 1,363 4,010 82,945 33,607 26,805 4,030 18,503 2,996	32,092 26,568 1,005 4,519 73,475 26,011 26,139 3,999 17,326 3,059	23,193 18,526 1,475 3,192 68,138 26,361 23,251 3,677 14,849 3,697	29,252 25,286 950 3,016 64,676 25,409 21,355 3,470 14,442 3,744	31,076 26,661 1,294 3,121 64,024 23,827 22,975 3,400 13,822 4,070	29,519 24,853 1,309 3,357 63,265 23,155 22,646 3,473 13,991 3,726	30,791 26,423 1,105 3,263 64,561 25,600 21,522 3,377 14,062 4,304	31,820° 26,850° 1,504 3,466 69,276° 27,810° 22,941 3,426 15,099 4,419	33,335 28,611 1,408 3,316 68,864 29,166 21,833 3,472 14,393 5,016	30,439 26,304 1,044 3,091 64,560 28,635 19,188 3,313 13,424 6,066
Ţ]	Bahamas and	l Caymans		-		
5 Total, all currencies	146,811	142,055	142,592	142,170	140,512	139,986	151,909	156,752	154,901	159,940
6 Claims on United States 7 Parent bank 8 Other banks in United States 9 Nonbanks 9 Claims on foreigners 1 Other branches of parent bank 2 Banks 8 Public borrowers 1 Nonbank foreigners	77,296 49,449 11,544 16,303 65,598 17,661 30,246 6,089 11,602	74,864 50,553 11,204 13,107 63,882 19,042 28,192 6,458 10,190	78,048 54,575 11,156 12,317 60,005 17,296 27,476 7,051 8,182	72,541 45,891 13,684 12,966 65,280 18,873 30,987 7,025 8,395	72,772 46,256 11,824 14,692 63,027 17,493 30,372 7,046 8,116	72,558 45,697 12,111 14,750 62,336 18,228 29,160 6,873 8,075	81,679 53,668 13,538 14,473 65,619 18,698 31,690 6,987 8,244	83,187 53,093 14,721 15,373 68,710 18,936 35,012 7,017 7,745	82,629 52,563 13,980 16,086 67,196 18,905 33,477 7,195 7,619	84,937 59,667 14,277 10,993 70,160 21,277 33,749 7,428 7,706
5 Other assets	3,917	3,309	4,539	4,349	4,713	5,092	4,611	4,855	5,076	4,843
I		ı		1			1			ı

^{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

Liability account	1984	1985	1986		,		1987			
Liability account	1707	1963	1960	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
					All foreign	ountries				
57 Total, all currencies	453,656	458,012	456,628	475,188	470,391	473,540	489,692"	520,860°	524,980	518,149
58 Negotiable CDs 59 To United States 60 Parent bank 61 Other banks in United States 62 Nonbanks	37,725 147,583 78,739 18,409 50,435	34,607 156,281 ^r 84,657 ^r 16,894 54,730	31,629 152,465 ^r 83,394 ^r 15,646 53,425	31,776 150,939' 78,976' 16,814 55,149	32,993 144,267' 72,376' 15,005 56,886	33,648 141,913' 74,361' 15,289 52,263	35,724 153,758' 80,559' 17,229 55,970	36,796 156,598' 79,592' 18,853' 58,153'	34,630 156,007 83,308 18,843 53,856	30,929 161,213 86,326 20,476 54,411
63 To foreigners 64 Other branches of parent bank 65 Banks 66 Official institutions 67 Nonbank foreigners 68 Other liabilities	247,907 93,909 78,203 20,281 55,514 20,441	245,939 89,529 76,814 19,520 60,076 21,185	253,775 95,146 77,809 17,835 62,985 18,759	274,061 100,826 81,229 22,264 69,742 18,412	274,407 95,376 87,734 21,528 69,769 18,724	278,883 97,908 87,449 21,016 72,510 19,096	280,651 103,921 85,512 20,116 71,102 19,559	306,472 114,559 98,025 20,235 73,653 20,994	311,997 116,809 97,342 21,777 76,069 22,346	304,080 123,527 87,969 19,464 73,120 21,927
69 Total payable in U.S. dollars	367,145	353,712	336,406	340,985	334,218	333,673	351,879°	365,244 ^r	361,068	360,272
70 Negotiable CDs 71 To United States 72 Parent bank 73 Other banks in United States 74 Nonbanks	35,227 143,571 76,254 17,935 49,382	31,063 150,905' 81,631' 16,264 53,010	28,466 144,483' 79,305' 14,609 50,569	27,929 142,491' 74,833' 15,602 52,056	28,781 135,564' 67,707' 13,895 53,962	29,634 132,907' 69,581' 14,086 49,240	30,933 143,707' 75,282' 15,812 52,613	32,117 145,326' 74,111' 17,298' 53,917'	30,075 143,027 77,227 17,169 48,631	26,768 148,134 80,527 19,072 48,535
75 To foreigners	178,260 77,770 45,123 15,773 39,594 10,087	163,583 71,078 37,365 14,359 40,781 8,161	156,806 71,181 33,850 12,371 39,404 6,651	163,505 74,202 31,812 15,985 41,506 7,060'	162,766 70,911 35,250 15,806 40,799 7,107'	163,723 72,620 35,104 15,527 40,472 7,409	169,342 78,036 35,202 14,209 41,895 7,897	179,011 84,208 40,078 13,323 41,402 8,790	179,063 84,409 38,772 14,119 41,763 8,903	176,860 89,395 35,384 12,351 39,730 8,510
					United	Kingdom				
81 Total, all currencies	144,385	148,599	140,917	146,678	149,760	148,039	149,633'	163,472	167,726	159,186
82 Negotiable CDs 83 To United States 84 Parent bank 85 Other banks in United States 86 Nonbanks	34,413 25,250 14,651 3,125 7,474	31,260 29,422 19,330 2,974 7,118	27,781 24,657 14,469 2,649 7,539	27,511 24,512 14,745 2,109 7,658	28,590 24,347 14,010 2,021 8,316	29,363 22,202 13,234 1,875 7,093	31,451 22,462 13,357 2,073 7,032	32,523 22,868 12,251 2,382' 8,235'	30,475 24,961 14,018 2,103 8,840	26,988 23,625 13,223 1,740 8,662
87 To foreigners	77,424 21,631 30,436 10,154 15,203 7,298	78,525 23,389 28,581 9,676 16,879 9,392	79,498 25,036 30,877 6,836 16,749 8,981	86,041 25,350 32,036 9,748 18,907 8,614	87,942 23,572 35,647 9,241 19,482 8,881	87,745 23,379 34,414 9,670 20,282 8,729	86,813 26,094 31,681 10,387 18,651 8,907	98,215 29,718 38,502 10,248 19,747 9,866	101,686 30,727 37,690 12,000 21,269 10,604	98,534 32,600 34,768 11,015 20,151 10,039
93 Total payable in U.S. dollars	117,497	112,697	99,707	100,031	101,593	99,459	102,202 ^r	108,440	108,481	102,072
94 Negotiable CDs 95 To United States 96 Parent bank 97 Other banks in United States 98 Nonbanks	33,070 24,105 14,339 2,980 6,786	29,337 27,756 18,956 2,826 5,974	26,169 22,075 14,021 2,325 5,729	25,695 21,850 14,252 1,899 5,699	26,397 21,689 13,399 1,776 6,514	27,264 19,578 12,608 1,694 5,276	28,776 19,528 12,609 1,883 5,036	29,991 18,819 11,283 2,080 ^r 5,456 ^r	27,999 19,800 12,792 1,789 5,219	24,926 17,752 12,026 1,512 4,214
99 To foreigners 100 Other branches of parent bank 101 Banks 102 Official institutions 103 Nonbank foreigners 104 Other liabilities	56,923 18,294 18,356 8,871 11,402 3,399	51,980 18,493 14,344 7,661 11,482 3,624	48,138 17,951 15,203 4,934 10,050 3,325	49,089 17,654 13,566 7,283 10,586 3,397	50,294 16,171 16,330 7,203 10,590 3,213	49,479 15,565 15,767 7,872 10,275 3,138	50,386 17,994 14,359 8,060 9,973 3,512'	55,209 20,018 17,786 7,115 10,290 4,421	56,443 20,826 17,024 7,970 10,623 4,239	55,441 21,856 15,580 7,530 10,475 3,953
					Bahamas a	nd Caymans				
105 Total, all currencies	146,811	142,055	142,592	142,170	140,512	139,986	151,909	156,752	154,901	159,940
106 Negotiable CDs 107 To United States 108 Parent bank 109 Other banks in United States 110 Nonbanks	615 102,955 47,162 13,938 41,855	610 104,556' 45,554' 12,778 46,224	847 106,081' 49,481' 11,715 44,885	1,067 103,831 ^r 44,112 ^r 13,382 46,337	1,119 100,073' 40,675' 11,989 47,409	975 98,085' 41,730' 12,276 44,079	886 108,100' 46,745' 13,579 47,776	890 111,925 48,793 14,857 48,275	801 107,967 49,568 15,179 43,220	885 113,735 52,075 17,142 44,518
111 To foreigners 112 Other branches of parent bank 113 Banks 114 Official institutions 115 Nonbank foreigners 116 Other liabilities	40,320 16,782 12,405 2,054 9,079 2,921	35,053 14,075 10,669 1,776 8,533 1,836	34,400 12,631 8,617 2,719 10,433 1,264	36,004 14,023 7,943 3,185 10,853 1,268	37,988 14,803 9,395 3,263 10,527 1,332	39,437 16,465 9,514 2,935 10,523 1,489	41,277 16,925 10,395 1,786 12,171 1,646	42,147 17,032 11,587 2,113 11,415 1,790	44,331 17,812 12,611 2,023 11,885 1,802	43,650 18,745 11,119 1,466 12,320 1,670
117 Total payable in U.S. dollars	143,582	138,322	138,774	137,763	135,376	134,354	145,166	149,273	146,286	152,546

3.15 SELECTED U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS

Millions of dollars, end of period

	1985		1987'							
Item		1986	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p	
1 Total ¹	178,380	211,782	238,797	232,370	237,728	239,534	252,476	253,852	259,410	
By type 2 Liabilities reported by banks in the United States ² 3 U.S. Treasury bills and certificates ³ U.S. Treasury bonds and notes 4 Marketable 5 Nonmarketable 6 U.S. securities other than U.S. Treasury securities ⁵	26,734 53,252 77,154 3,550 17,690	27,868 75,650 91,368 1,300 15,596	32,079 80,663 110,238 700 15,117	31,513 73,435 112,490 500 14,432	29,638 78,210 115,101 300 14,479	31,869 75,701 116,462 300 15,202	38,273 78,819 118,898 300 16,186	34,038 82,542 120,755 300 16,217	31,627 88,829 122,544 300 16,110	
By area 7 Western Europe ¹ 8 Canada 9 Latin America and Caribbean 10 Asia. 11 Africa. 12 Other countries ⁶	74,447 1,315 11,148 86,448 1,824 3,199	88,623 2,004 8,372 105,868 1,503 5,412	111,625 3,502 7,583 108,702 1,400 5,985	107,823 3,559 7,904 105,505 1,590 5,989	106,873 4,189 8,712 109,529 1,837 6,589	108,248 4,529 8,561 109,482 1,618 7,094	116,360 5,152 9,217 114,160 1,474 6,109	117,372 4,884 8,916 116,464 1,562 4,655	124,341 4,961 8,308 116,276 1,402 4,122	

bonds and notes payable in foreign currencies.

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 Treasury Department data and on data reported to the Treasury Department by banks (including Federal Reserve Banks) and securities dealers in the United States.

3.16 LIABILITIES TO AND CLAIMS ON FOREIGNERS Reported by Banks in the United States Payable in Foreign Currencies¹

Millions of dollars, end of period

Item	1983	1984	1985	1986	1986 1987			
uem	1963	1964	1963	Dec.	Маг.	June	Sept.'	
Banks' own liabilities 2 Banks' own claims 3 Deposits 4 Other claims 5 Claims of banks' domestic customers ²	5,219 7,231 2,731 4,501 1,059	8,586 11,984 4,998 6,986 569	15,368 16,294 8,437 7,857 580	29,702 26,180 14,129 12,052 2,507	37,873 34,153 16,102 18,050 2,012	38,470 34,006 12,735 21,271 889	45,515 41,159 15,404 25,755 1,067	

^{1.} Data on claims exclude foreign currencies held by U.S. monetary author-

States that represent claims on foreigners held by reporting banks for the accounts of the domestic customers.

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.

^{3.} Includes nonmarketable certificates of indebtedness (including those payable in foreign currencies through 1974) and Treasury bills issued to official institutions of foreign countries.

^{4.} Excludes notes issued to foreign official nonreserve agencies. Includes

ities.

2. Assets owned by customers of the reporting bank located in the United

3.17 LIABILITIES TO FOREIGNERS Reported by Banks in the United States Payable in U.S. dollars

Millions of dollars, end of period

_		4004		4004				1987		·	
	Holder and type of liability	1984	1985	1986	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
1	All foreigners	407,306	435,726	540,996	551,362	545,630	555,185	584,448	605,009"	604,540	620,140
2 3 4 5 6	Banks' own liabilities Demand deposits Time deposits' Other' Own foreign offices ³	306,898 19,571 110,413 26,268 150,646	341,070 21,107 117,278 29,305 173,381	406,485 23,789 130,891 42,705 209,100	410,834 22,837 133,393 42,385 212,219	410,881 20,219 134,127 44,721 211,814	415,824 22,117 137,861 42,317 213,530	446,520 21,150 148,354 48,903 228,113	462,879 ^r 23,201 ^r 152,292 52,797 ^r 234,589 ^r	457,081 24,046 147,183 52,210 233,642	469,816 23,125 148,115 52,534 246,042
7 8 9	Banks' custody liabilities ⁴ U.S. Treasury bills and certificates ⁵ Other negotiable and readily transferable instruments ⁶ Other	100,408 76,368	94,656 69,133	134,511 90,398	140,528 93,695	134,749 88,193	139,361 92,705	137,928 89,747	142,130° 91,374	147,460 95,869	150,325 101,794
10	instruments ⁶ Other	18,747 5,293	17,964 7,558	15,417 28,696	16,371 30,462	15,632 30,924	15,259 31,397	16,042 32,139	15,933 ^r 34,823	17,500 34,090	16,717 31,814
11	Nonmonetary international and regional organizations	4,454	5,821	5,807	4,005	5,946	5,332	7,845	3,594'	5,703	5,065
13 14 15	Banks' own liabilities Demand deposits Time deposits Other'	2,014 254 1,267 493	2,621 85 2,067 469	3,958 199 2,065 1,693	2,515 72 987 1,456	2,367 76 599 1,692	2,498 44 807 1,647	4,674 80 1,235 3,358	1,680 ^r 107 986 586 ^r	3,089 74 1,094 1,921	3,304 328 1,523 1,452
16 17	Banks' custody liabilities ⁴	2,440 916	3,200 1,736	1,849 259	1,490 266	3,579 2,339	2,834 1,635	3,171 1,793	1,914 285	2,614 747	1,761 265
19	instruments ⁶ Other	1,524 0	1,464 0	1,590 0	1,224 0	1,240 0	1,193 6	1,378 0	1,624 6	1,811 55	1,497 0
20	Official institutions ⁸	86,065	79,985	103,569	112,742	104,948	107,848	107,570	117,092	116,580	120,456
21 22 23 24	Banks' own liabilities	19,039 1,823 9,374 7,842	20,835 2,077 10,949 7,809	25,427 2,267 10,497 12,663	28,690 1,743 13,266 13,680	28,343 1,711 13,567 13,065	26,342 1,907 13,489 10,946	28,169 1,800 14,246 12,123	34,720' 1,905 16,574' 16,241'	30,873 1,810 13,505 15,557	28,510 1,948 12,480 14,082
25 26 27	Banks' custody liabilities ⁴ U.S. Treasury bills and certificates ⁵ Other negotiable and readily transferable instruments ⁶ Other	67,026 59,976	59,150 53,252	78,142 75,650	84,052 80,663	76,605 73,435	81,505 78,210	79,401 75,701	82,372' 78,819	85,707 82,542	91,947 88,829
28	instruments ⁶	6,966 84	5,824 75	2,347 145	3,141 248	2,950 220	3,151 144	3,540 160	3,328 ⁷ 225	2,965 200	2,972 146
29	Banks ⁹	248,893	275,589	351,745	357,145	358,378	362,883	388,625	405,027	400,043	414,885
30 31 32 33 34 35	Banks' own liabilities Unaffiliated foreign banks Demand deposits Time deposits' Other' Own foreign offices'	225,368 74,722 10,556 47,095 17,071 150,646	252,723 79,341 10,271 49,510 19,561 173,381	310,166 101,066 10,303 64,232 26,531 209,100	314,621 102,402 10,293 67,045 25,063 212,219	315,096 103,283 8,741 66,865 27,677 211,814	319,883 106,353 9,901 69,588 26,864 213,530	344,886 116,772 9,801 77,743 29,228 228,113	358,706' 124,117' 11,364 79,995' 32,758' 234,589'	353,816 120,174 11,877 77,077 31,220 233,642	370,808 124,766 10,842 79,860 34,064 246,042
36 37 38	Banks' custody liabilities ⁴	23,525 11,448	22,866 9,832	41,579 9,984	42,524 9,066	43,281 9,142	43,000 9,100	43,739 9,206	46,321 8,961	46,227 8,792	44,077 9,185
39	Other negotiable and readily transferable instruments ⁶ Other	7,236 4,841	6,040 6,994	5,165 26,431	5,611 27,848	5,850 28,289	5,320 28,581	5,221 29,312	5,454 31,906	6,292 31,143	5,461 29,430
	Other foreigners	67,894	74,331	79,875	77,470	76,359	79,122	80,408	79,296′	82,215	79,734
42 43 44	Banks' own liabilities	60,477 6,938 52,678 861	64,892 8,673 54,752 1,467	66,934 11,019 54,097 1,818	65,009 10,729 52,095 2,185	65,075 9,691 53,096 2,287	67,101 10,264 53,977 2,860	68,791 9,468 55,130 4,193	67,773' 9,825' 54,736 3,211	69,303 10,285 55,507 3,511	67,194 10,006 54,251 2,936
45 46 47	Banks' custody liabilities ⁴ U.S. Treasury bills and certificates Other negotiable and readily transferable instruments ⁶ Other	7,417 4,029 3,021	9,439 4,314 4,636	12,941 4,506 6,315	12,462 3,701 6,395	11,284 3,276 5,592	12,022 3,761 5,594	11,617 3,046 5,904	11,523 3,309 5,527	12,912 3,787 6,432	12,540 3,515 6,787
	Other	367	489	2,120	2,366	2,415	2,667	2,668	2,686	2,693	2,238
	custody for foreigners	10,476	9,845	7,496	7,356	6,313	6,458	6,501	6,676′	7,521	7,340

foreign bank.
4. Financial claims on residents of the United States, other than long-term

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 branches, agencies, or wholly owned subsidiaries of head office or parent foreign bank.

securities, held by or through reporting banks.

5. Includes nonmarketable certificates of indebtedness and Treasury bills issued to official institutions of foreign countries.

6. Principally bankers acceptances, commercial paper, and negotiable time certificates of deposit.

7. 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.

8. Foreign central banks, foreign central governments, and the Bank for International Settlements.

9. Excludes central banks, which are included in "Official institutions."

^{9.} Excludes central banks, which are included in "Official institutions."

3.17 Continued

7 Finland 418 496 580 616 497 545 517 5 8 France 12,701 15,541 22,862 27,951 25,486 27,003 27,899 28,2 9 Germany 3,358 4,835 5,762 8,218 7,162 7,715 6,823 8,5 10 Greece 699 666 700 690 667 636 690 7	09' 604,540 15' 598,838 70' 228,976 1,262 13 10,909 04 628 471 155 27,519	Dec. P 620,140 615,075 235,098 920 9,263 811 372
2 Foreign countries 402,852 429,905 535,189 547,358 539,685 549,853 576,603 601,4 3 Europe 153,145 164,114 180,556 210,606 204,865 208,715 214,145 233,3 4 Austria 615 693 1,181 974 795 1,066 1,281 1,1 5 Belgium-Luxembourg 4,114 5,243 6,729 9,577 9,154 9,754 10,460 10,7 6 Denmark 438 513 482 425 486 576 590 7 7 Finland 418 496 580 616 497 545 517 5 8 France 12,701 15,541 22,862 27,951 25,486 27,003 27,899 28,2 9 Germany 3,358 4,835 5,762 8,218 7,162 7,715 6,823 8,5 10 Greece 699 666 700 690 667 669 667 669<	15' 598,838 70' 228,976 66 1,262 43 10,909 04 628 81 471 55 27,519	615,075 235,098 920 9,263 811 372
3 Europe	70' 228,976 66 1,262 43 10,909 04 628 81 471 55 27,519	235,098 920 9,263 811 372
4 Austria 615 693 1.181 974 795 1.066 1.281 1.1 5 Belgium-Luxembourg 4,114 5,243 6,729 9,577 9,154 9,754 10,460 10,76 6 Denmark 438 513 482 425 486 576 590 7 7 Finland 418 496 580 616 497 545 517 5 8 France 12,701 15,541 22,862 27,951 25,862 27,033 27,899 28,22 9 Germany 3,358 4,835 5,762 8,218 7,162 7,151 6,823 8,5 10 Greec 699 666 700 690 667 667 669 667 669 667	66 1,262 43 10,909 04 628 81 471 55 27,519	920 9,263 811 372
5 Belgium-Luxembourg. 4,114 5,243 6,729 9,577 9,154 9,754 10,460 10,76 6 Denmark 438 513 482 425 486 576 590 7 7 Finland 418 496 580 616 497 545 517 5 8 France 12,701 15,541 22,862 27,951 25,486 27,003 27,899 28,2 9 Germany 3,358 4,835 5,762 8,218 7,162 7,715 6,823 8,5 10 Greece 699 666 700 690 667 636 690 6	43 10,909 04 628 81 471 55 27,519	9,263 811 372
6 Denmark 438 513 482 425 486 576 590 7 7 Finland. 418 496 580 616 497 545 517 5 8 France 12,701 15,541 22,862 27,951 25,486 27,003 27,899 28,2 9 Germany 3,358 4,835 5,762 8,218 7,162 7,715 6,823 8,5 10 Grece 699 666 700 690 667 636 690 7	04 628 81 471 55 27,519	811 372
8 France 12,701 15,541 22,862 27,951 25,486 27,003 27,899 28,2 9 Germany 3,338 4,835 5,762 8,218 7,162 7,715 6,823 8,5 10 Greece 669 667 700 6690 667 636 690 7	55 27,519	372
9 Germany 3,358 4,835 5,762 8,218 7,162 7,715 6,823 8,5	57' 8,527 18 699	
10 Greece	18 699	29,980 7,206
11 Italy	64 0.034	688
11 Italy 10,762 9,667 10,875 11,990 10,031 7,667 8,410 10,2 12 Netherlands 4,731 4,212 5,600 5,367 5,447 5,461 6,106 6,7	54 9,936 73 ^r 6,490	12,050
13 Norway	79 1,074	1,374
14 Portugal 597 652 699 704 586 700 684 7. 15 Spain 2,082 2,114 2,407 2,340 2,103 2,287 2,526 2,6		799 2,618
16 Sweden	57 2,862	1,363
17 Switzerland		34,634 703
19 United Kingdom		116,994
20 Yugoslavia	08 485	711
21 Other Western Europe 7,192 9,635 3,326 5,284 6,410 6,016 7,808 9,0 22 U.S.S.R. 79 105 80 36 550 45 51	50 ^r 8,085 37 36	8,950
	09 ⁷ 601	612
24 Canada	33 28,557	30,080
25 Latin America and Caribbean	53' 214,132	220,911
26 Argentina 4,394 6,032 4,757 4,794 5,122 5,074 4,674 5,0 27 Bahamas 56,897 57,657 73,619 66,313 62,518 62,470 71,502 72,7	75 5,277	5,000 73,673
28 Bermuda		2,749
29 Brazil	43' 4,090	4,028
30 British West Indies		81,481 3,041
32 Colombia	90 4,299	4,205
33 Cuba	12 9 15 1.087	1,081
35 Guatemala		1,078
36 Jamaica	10 150	159
37 Mexico 12,303 14,060 13,745 13,855 14,159 14,549 14,290 14,33 38 Netherlands Antilles 4,220 4,875 4,970 5,192 5,291 5,338 5,218 5,318		14,534 4,972
39 Panama	57 7,513	7,403
40 Peru	05 1,205 93 1,526	1,268 1,579
42 Venezuela	32 9,032	9,000
43 Other	5,657	5,648
44 Asia	1 1	120,931
45 Mainland 1,153 1,607 1,476 1,737 1,744 2,011 1,775 1,66 46 Taiwan 4,990 7,786 18,902 16,353 16,436 15,377 15,197 18,36	99 1,435 02 21,564	1,157
46 Taiwan	79 ^r 10,531	10,116
48 India	6 701	586
49 Indonesia 1,033 1,466 1,547 1,773 1,404 1,541 1,435 1,3 50 Israel 1,268 1,601 1,892 1,229 928 1,036 1,105 2,1		1,399 2,676
51 Japan	2 52,634	52,878
52 Korea 1,730 1,665 1,141 1,406 1,410 1,388 1,714 1,5 53 Philippines 1,383 1,140 1,866 1,222 1,148 1,208 1,152 1,3 1,383 1,400 1,866 1,222 1,148 1,208 1,152 1,3		1,573
54 Thailand 1,257 1,358 1,119 1,144 1,096 1,190 1,118 1,2	75 1,483	1,344
55 Middle-East oil-exporting countries	50 13,373	13,954
56 Other		12,677
57 Africa 3,396 4,883 4,021 3,751 4,023 4,194 4,011 3,9 58 Egypt 647 1,363 706 1,009 1,113 1,158 1,118 1,118		3,942 1,148
59 Morocco	70 75	194
40 South Africa 328 328 270 198 220 227 190 25	30 246	202
50 South Artica	71 82 31 1.108	67 1,014
63 Other		1,316
64 Other countries. 5,684 3,347 5,118 4,887 5,052 5,948 6,616 5,00)5 4,367	4,114
65 Australia	11 3,666	3,323 791
66 All other	94 701	791
67 Nonmonetary international and regional organiza-		
tions	94' 5,703 97' 3,617	5,065 3,432
58 International 5,747 4,806 4,020 2,337 4,886 3,619 0,137 2,11 69 Latin American regional 588 894 1,033 1,047 1,075 1,070 1,126 1,13	55 1,478	1,272
70 Other regional 120 121 154 362 384 443 522 33		362

^{1.} Includes the Bank for International Settlements and Eastern European countries that are not listed in line 23.
2. Comprises Bulgaria, Czechoslovakia, the German Democratic Republic, Hungary, Poland, and Romania.
3. 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 Payable in U.S. Dollars

Millions of dollars, end of period

	1004	1005	tone				1987			
Area and country	1984	1985	1986	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
1 Total	400,162	401,608	444,745	435,817	424,392	427,057	447,727	461,110 ^r	458,854	457,223
2 Foreign countries	399,363	400,577	441,724	433,685	421,289	423,993	443,043	458,280	451,684	452,769
3 Europe	99,014	106,413	107,823	114,469	108,062	104,180	105,930	110,999	107,223	101,111
4 Austria 5 Belgium-Luxembourg	433 4,794	598 5,772	728 7,498	758 9,828	10,239	785 9,550	9.591	930 10,131	1,038 9,441	790 9,355
6 Denmark	648	706	688	706	604	868	9,591 747	795	886	722
7 Finland	898	823	987	1,045	1,037	1,031	1,266	1,089	1,030	992
8 France	9,157 1,306	9,124	11,356 1,816	12,036 1,612	11,673 2,009	12,530 1,333	12,781 1,485	14,350 2,092'	13,513 1,546	13,479 2,042
10 Greece	817	1,267 991	648	457	433	375	406	430	452	463
11 Italy	9,119	8,848	9,043	8,409	6,784	6.407	6 541	7,418	7.296	7,271
12 Netherlands	1,356	1,258	3,296	5,744	4,429	3,078	3,247	3,976	3,798	2,747
13 Norway 14 Portugal 15 Spain	675 1,243	706 1,058	672 739	774 659	830 645	803 667	722 638	812 570	938 542	933 472
14 Portugal	2,884	1,908	1,492	1.872	1,830	1,945	2,233	1859	2,032	1,832
16 Sweden	2,230	2,219	1,964	2,330	2,287	2,473	2,752	2,533	2,646	2,225
17 Switzerland	2,123	3,171	3,352	2.618	2,464	2,664	2,612	2,825	2,880	2,638
18 Turkey	1,130	1,200	1,543	1,785	1,753	1,757	1,689	1,564	1,566	1,674
19 United Kingdom	56,185 1,886	62,566 1,964	58,335 1,835	59,937 1,757	56,544 1,764	54,144 1,742	54,710 1,741	55,860° 1,750	53,908 1,697	49,845 1,700
20 Yugoslavia 21 Other Western Europe ¹	596	998	539	567	647	548	619	549	672	670
22 U.S.S.R. 23 Other Eastern Europe ²	142	130	345	582	420	521	549	473	437	394
United Kingdom 20 Yugoslavia	1,389	1,107	948	993	974	958	915	994'	904	865
24 Canada	16,109	16,482	21,006	20,731	18,676	18,494	21,578	21,402	25,313	25,347
25 Latin America and Caribbean	207,862	202,674	208,825	202,378	200,728	202,384	214,716	216,783'	209,138	212,597
26 Argentina	11,050 58,009	11,462 58,258	12,091 59,342	12,212	12,151 53,842	12,221 55,935	11,857 65,309	12,117' 63,699'	12,052 59,333	11,963 64,154
28 Bermuda	592	499	418	56,670 297	33,642	359	328	423	331	529
29 Brazil	26,315	25,283	25,716	25,522	25,999	26,594	26,056	25,820	25,472	25,258
30 British West Indies	38,205	38,881	46,284	43,939	44,626	43,290	47,512	51,473	48,926	48,758
31 Chile	6,839	6,603	6,558	6,339	6,500	6,510	6,469	6,388	6,429	6,282
32 Colombia	3,499	3,249	2,821	2,649	2,743	2,784	2,729	2,730	2,758	2,734
GUDA 34 Ecuador 35 Guatemala 36 Jamaica 37 Mexico 38 Netherlands Antilles	2,420	2,390	2,439	2,354	2,396	2,384	2,367	2,449	2,334	2,282
34 Ecuador	158	194	140	109	107	105	124	131	145	145
36 Jamaica ³	252	224	198	182	268	202	198	191	184	233
37 Mexico	34,885 1,350	31,799 1,340	30,698 1,041	30,353 1,346	30,271 1,084	30,638 994	30,542 1,041	30,259 ^r 1,019	30,044 1,115	29,493 1,125
39 Panama	7,707	6,645	5,436	4,986	4.633	4,616	4,579	4,546	4,666	4,571
40 Peru	2,384	1,947	1,661	1,568	1,567	1,549	1,479	1,457	1,459	1,323
41 Uruguay	1,088	960	940	950	949	966	946	961	975	963
42 Venezuela	11,017	10,871 2,067	11,108 1,936	10,982 1,920	11,306 1,902	11,366 1,872	11,308 1,872	11,200 1,920	11,098 1,818	10,981 1,799
44 Asia	66,316	66,212	96,126	88,401	86,516	91,429	93,322	100,440′	102,132	105,865
China 45 Mainland	710	639	787	993	929	919	894	5437	615	981
46 Taiwan	1,849	1,535	2,681	3,303	2,487	2,772	2,980	4,224	4,784	4,413
47 Hong Kong	7,293	6,797	8,307	7,731	7,495	6,556	6,933 541	6,889	7,301	8,112
48 India	425 724	450 698	321 723	430 677	416 639	565 624	622	527 625	517 601	499 580
49 Indonesia 50 Israel	2,088	1.991	1,634	1,450	1,413	1,450	1,591	1,331	1,293	1,362
51 Japan	29,066	31,249	59,674	55,415	54 596	61,072	60.121	65,787	64,767	69,002
52 Kores	9 285	9,226	7,182	55,415 5,325	4,954	4,589	4,606	4,996	4,807	4,952
53 Philippines	2,555 1,125	2,224 845	2,217 578	2,112	2,211 565	2,148	2,126 453	2,082 446 ^r	2,040	2,070
55 Thailand	5,044	4,298	4,122	538 3,808	3,914	545 4,315	4,848	5,063	439 5,157	4.833
Philippines Thailand S Middle East oil-exporting countries Cother Asia	6,152	6,260	7,901	6,619	6,897	5,875	7,607	7,926 ^r	9,811	8,575
57 Africa	6,615	5,407	4,650	4,704	4,705	4,739	4,704	5,376	4,669	4,719
58 Egypt	728	721	567	600	572	586	541	538	526	521
59 Morocco	583 2,795	575	598	563	568	603	582	605	527	542 1,507
60 South Africa	2,793	1,942	1,550 28	1,501	1,479 38	1,497 35	1,504 40	1,546	1,494 36	1,307
62 Oil-exporting countries	842	630	694	818	866	862	888	1,531	963	1,004
63 Other	1,649	1,520	1,213	1,184	1,182	1,156	1,149	1,118	1,123	1,130
64 Other countries	3,447	3,390	3,294	3,001	2,601	2,766	2,794	3,280	3,208	3,131
65 Australia	2,769	2,413 978	1,949	1,980	1,693	1,686	1,834	2,034	2,090	2,100
66 All other	678	9/8	1,345	1,021	908	1,080	959	1,246	1,118	1,031
67 Nonmonetary international and regional organizations ⁶	800	1,030	3,021	2,132	3,103	3,063	4.684	2,830	7,170	4,454

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, the German Democratic Republic, Hungary, Poland, and Romania.
 3. Included in "Other Latin America and Caribbean" through March 1978.

^{4.} Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
5. Comprises Algeria, Gabon, Libya, and Nigeria.
6. Excludes the Bank for International Settlements, which is included in "Other Western Europe."

3.19 BANKS' OWN AND DOMESTIC CUSTOMERS' CLAIMS ON FOREIGNERS Reported by Banks in the United States¹

Payable in U.S. Dollars

Millions of dollars, end of period

		1005	1004				1987			
Type of claim	1984	1985	1986	June	July	Aug.	Sept.	Oct.'	Nov.	Dec.p
1 Total	433,078	430,489	478,650	468,876	424,392	427,057	481,652	461,110	458,854	457,223
2 Banks' own claims on foreigners 3 Foreign public borrowers 4 Own foreign offices 5 Unaffiliated foreign banks 6 Deposits 7 Other 8 All other foreigners.	400,162 62,237 156,216 124,932 49,226 75,706 56,777	401,608 60,507 174,261 116,654 48,372 68,282 50,185	444,745 64,095 211,533 122,946 57,484 65,462 46,171	435,817 63,516 201,501 126,462 61,004 65,458 44,337	424,392 65,857 189,142 124,364 59,612 64,753 45,029	427,057 65,808 196,182 121,939 56,788 65,151 43,128	447,727 67,077 210,503 127,285 59,696 67,589 42,863	461,110 65,147 218,391 134,106 62,872 71,234 43,466	458,854 69,329 219,952 126,397 57,683 68,714 43,176	457,223 65,157 222,478 126,790 59,996 66,794 42,798
9 Claims of banks' domestic customers ³ 10 Deposits 11 Negotiable and readily transferable instruments ⁴	32,916 3,380 23,805	28,881 3,335 19,332	33,905 4,413 24,044	33,059 3,474 21,384			33,925 3,218 22,071			
12 Outstanding collections and other claims	5,732	6,214	5,448	8,202			8,636			
13 MEMO: Customer liability on acceptances	37,103	28,487	25,706	23,691			21,782			
Dollar deposits in banks abroad, reported by nonbanking business enterprises in the United States ³	40,714	38,102	42,079	38,061	40,302	41,412	39,768	42,951	38,819	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.

3.20 BANKS' OWN CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Banks in the United States Payable in U.S. Dollars

Millions of dollars, end of period

W. S. I. I	1002	1004	1005	1986		1987	
Maturity; by borrower and area	1983	1984	1985	Dec.	Mar.	June	Sept.
1 Total	243,715	243,952	227,903	232,295	226,426	236,392	235,812
By borrower 2 Maturity of I year or less¹ 3 Foreign public borrowers 4 All other foreigners 5 Maturity over I year¹ 6 Foreign public borrowers 7 All other foreigners	176,158	167,858	160,824	160,555	154,789	167,244	165,451
	24,039	23,912	26,302	24,842	24,154	23,270	27,008
	152,120	143,947	134,522	135,714	130,635	143,973	138,442
	67,557	76,094	67,078	71,740	71,637	69,149	70,361
	32,521	38,695	34,512	39,103	39,168	39,483	39,757
	35,036	37,399	32,567	32,637	32,468	29,665	30,605
By area Maturity of 1 year or less Europe 9 Canada 10 Latin America and Caribbean 11 Asia 12 Africa 13 All other Maturity of 1 year or less Europe 12 Africa 13 All other	56,117	58,498	56,585	61,784	58,042	68,891	62,045
	6,211	6,028	6,401	5,895	5,625	5,622	5,733
	73,660	62,791	63,328	56,271	54,223	55,429	58,138
	34,403	33,504	27,966	29,457	29,714	30,936	32,065
	4,199	4,442	3,753	2,882	3,154	2,980	2,878
	1,569	2,593	2,791	4,267	4,031	3,385	4,592
Maturity of over 1 year	13,576	9,605	7,634	6,737	6,742	6,417	6,747
	1,857	1,882	1,805	1,925	1,873	1,631	1,577
	43,888	56,144	50,674	56,719	56,705	55,572	55,097
	4,850	5,323	4,502	4,043	4,122	3,387	3,535
	2,286	2,033	1,538	1,539	1,630	1,522	1,612
	1,101	1,107	926	777	564	621	1,793

^{1.} Remaining time to maturity.

^{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 foreign banks: principally amounts due from head office or parent foreign bank, and foreign branches, agencies, or wholly owned subsidiaries of head office or

^{3.} 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 of their domestic customers

^{4.} Principally negotiable time certificates of deposit and bankers acceptances.
5. Includes demand and time deposits and negotiable and nonnegotiable certificates of deposit denominated in U.S. dollars issued by banks abroad. For description of changes in data reported by nonbanks, see July 1979 BULLETIN, p. 550.

^{2.} 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^{1,2} Billions of dollars, end of period

			19	85		19	86		1987		
Area or country	1983	1984	Sept.	Dec.	Маг.	June	Sept.	Dec.	Mar.	June	Sept.
1 Total	434.0	405.7	394.9	391.2 ^r	393.4 ^r	389.7	389.5"	389.6 ⁷	398.9	391.1 ^r	391.7 ^r
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	167.8 12.4 16.2 11.3 11.4 3.5 5.1 4.3 65.3 8.3 29.9	148.1 8.7 14.1 9.0 10.1 3.9 3.2 3.9 60.3 7.9 27.1	152.0 9.5 14.8 9.8 8.4 3.4 3.1 4.1 67.1 7.6 24.3	148.5 9.3 12.3 10.5 9.8 3.7 2.8 4.4 64.6 7.0 24.2	157.0 8.4 13.8 11.3 8.5 3.5 2.9 5.4 68.8 6.4 28.1	160.3 9.0 15.1 11.5 9.3 3.4 2.9 5.6 69.2 7.0 27.2	159.0 8.5 14.7 12.5 8.1 3.9 2.7 4.8 70.3 6.2 27.4	158.0 8.4 13.8 11.7 9.0 4.6 2.4 5.8 71.9 5.4 25.0	164.5 ^r 9.1 13.4 12.8 8.6 4.4 3.0 5.8 74.0 ^r 5.3 28.1	161.8' 8.5 12.6 11.4 7.5 7.3 2.4 5.7 72.7' 6.9 26.7	156.8° 8.3° 13.8 10.6 6.7 4.8 2.7 5.4 72.1 4.7 27.8°
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.	36.0 1.9 3.4 2.4 2.8 3.3 1.5 7.1 1.7 1.8 4.7 5.4	33.6 1.6 2.2 1.9 2.9 3.0 1.4 6.5 1.9 1.7 4.5 6.0	32.0 1.7 2.1 1.8 2.8 3.4 1.4 6.1 2.1 1.7 3.3 5.6	30.4 1.6 2.4 1.6 2.9 1.3 5.8 1.9 2.0 3.2 5.0	31.6 1.6 2.5 1.9 2.5 2.7 1.1 6.5 2.3 2.4 3.2 4.9	30.7 1.7 2.4 1.6 2.6 3.0 1.1 6.4 2.5 2.1 3.1 4.2	29.5 1.7 2.3 1.7 2.3 2.7 1.0 6.7 2.1 1.6 3.1 4.1	26.2 1.7 1.7 1.4 2.3 2.4 5.8 2.0 1.4 3.1	26.0 1.9 1.7 1.4 2.1 2.2 .9 6.3 1.9 1.4 3.1 3.2	25.7 1.8 1.5 1.5 2.0 2.2 .8 6.1 2.1 1.6 3.1	26.8 ^r 1.9 1.6 1.4 1.9 2.4 .8 7.4 1.9 1.6 ^r 3.0 2.9
25 OPEC countries³. 26 Ecuador 27 Venezuela. 28 Indonesia 29 Middle East countries 30 African countries	28.4 2.2 9.9 3.4 9.8 3.0	24.9 2.2 9.3 3.3 7.9 2.3	22.7 2.2 9.0 3.1 6.2 2.3	21.6 2.1 8.9 3.0 5.5 2.0	20.7 2.2 8.7 3.3 4.7 1.8	20.6 2.1 8.8 3.0 5.0 1.7	20.0 2.2 8.7 2.8 4.6 1.7	19.6 2.2 8.6 2.5 4.5	20.5 2.1 8.8 2.4 5.5 1.7	19.2 2.1 8.7 2.2 4.5 1.7	19.4° 2.1 8.5 2.0 5.1 1.7
31 Non-OPEC developing countries	110.8	111.8	107.8	105.1	103.9	102.0	100.0	99.7	99.9	100.3′	97.4
Latin America Argentina 33 Brazil. 34 Chile 35 Colombia 36 Mexico 37 Peru 38 Other Latin America	9.5 23.1 6.4 3.2 25.8 2.4 4.2	8.7 26.3 7.0 2.9 25.7 2.2 3.9	8.9 25.5 6.6 2.6 24,4 1.9 3.5	8.9 25.6 7.0 2.7 24.2 1.8 3.4	8.9 25.8 7.1 2.3 24.1 1.7 3.3	9.2 25.5 7.1 2.2 24.0 1.6 3.3	9.3 25.4 7.2 2.0 24.0 1.5 3.3	9.5 25.3 7.1 2.1 24.0 1.5 3.1	9.5 25.7 7.3 2.0 23.7 1.4 3.0	9.5 24.6 7.2 2.0 25.4 1.4 3.0	9.3 24.6 7.1 2.0 24.7 1.2 2.8
Asia China 39 Mainland. 40 Taiwan 41 India 42 Israel 43 Korea (South) 44 Malaysia 45 Philippines 46 Thailand 47 Other Asia	3 5.2 .9 1.9 11.2 2.8 6.1 2.2 1.0	.77 5.1 .9 1.8 10.6 2.7 6.0 1.8 1.1	1.1 5.1 1.1 1.5 10.4 2.7 6.0 1.7	.5 4.5 1.2 1.6 9.4 2.4 5.7 1.4 1.0	6 4.3 1.2 1.3 9.5 2.2 5.6 1.3 9	3.7 1.3 1.6 8.7 2.0 5.7 1.1	6 4.3 1.3 1.4 7.3 2.1 5.4 1.0	4.9 1.2 1.5 6.7 2.1 5.4	.9 5.5 1.6 1.4 6.2 1.9 5.4 .9	.6 6.6 1.7 1.3 5.7' 1.7 5.4 .8	.3 5.9 1.9 1.3 5.1 1.6 5.4 .7
Africa 48 Egypt	1.5 .8 .1 2.3	1.2 .8 .1 2.1	1.0 .9 .1 2.0	1.0 .9 .1 1.9	.9 .9 .1 1.9	.9 .9 .1 1.7	.7 .9 .1 1.6	.7 .9 .1 1.6	.6 .9 .1 1.4	.6 .9 .1 1.3	.6 .8 .1 1.3
52 Eastern Europe	5.3 .2 2.4 2.8	4.4 .1 2.3 2.0	4.6 .2 2.4 1.9	4.2 .1 2.2 1.8	4.0 .3 2.0 1.7	4.0 .3 2.0 1.7	3.4 .1 1.9 1.4	3.2 .1 1.7 1.4	3.1 .1 1.6 1.3	3.4 .3 1.7 1.4	3.4 ,5 1.7 1.3
56 Offshore banking centers 57 Bahamas 58 Bermuda 59 Cayman Islands and other British West Indies 60 Netherlands Antilles 61 Panama* 62 Lebanon 63 Hong Kong 64 Singapore 65 Others*	68.9 21.7 .9 12.2 4.2 5.8 .1 13.8 10.3	65.6 21.5 .9 11.8 3.4 6.7 .1 11.4 9.8 .0	58.8 16.6 .8 12.3 2.3 6.1 .0 11.4 9.4 .0	64.6 ⁷ 21.4 .7 12.7 ⁷ 2.3 6.0 .1 11.5 9.9 .0	59.4 ⁷ 21.4 .7 10.6 ⁷ 2.3 4.4 .1 11.5 8.5 .0	55.4 ^r 17.1 .4 12.2 ^r 2.4 4.2 .1 9.5 9.3 .0	60.5' 19.9 .4 12.8' 1.9 5.1 .1 10.5 9.7 .0	63.2 ^r 22.3 .7 13.6 ^r 1.8 4.1 .1 11.2 9.4 .0	65.1 ^r 24.1 .8 12.7 ^r 1.7 5.4 .1 11.4 8.8 .0	62.6 ^r 20.0 .6 14.2 ^r 1.3 5.3 .1 12.6 8.5	66.6' 26.4 .6 12.4' 1.2 5.3 .1 12.3 8.3 .0
66 Miscellaneous and unallocated ⁷	16.8	17.3	17.3	16.9	16.8	16.8	17.2	19.8	19.8	18.0°	21.4

^{1.} 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 claims in table 3.14 (the sum of lines 7 through 10) with the claims of U.S. offices in table 3.18 (excluding those held by agencies and branches of foreign banks and those constituting claims on own foreign branches).

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 Bahrain 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.

3.22 LIABILITIES TO UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States¹

Millions of dollars, end of period

				19	986		1987	
Type, and area or country	1983	1984	1985	Sept.	Dec.	Mar.	June	Sept.
1 Total	. 25,346	29,357	27,825	26,429	25,717	27,432	28,751	28,167
2 Payable in dollars	22,233	26,389 2,968	24,296 3,529	22,432 3,997	21,885 3,833	23,264 4,169	24,286 4,466	23,846 4,321
By type 4 Financial liabilities 5 Payable in dollars 6 Payable in foreign currencies	. 8,700	14,509 12,553 1,955	13,600 11,257 2,343	13,501 11,071 2,430	12,239 9,774 2,464	13,114 10,398 2,716	13,946 11,068 2,878	12,667 9,955 2,712
7 Commercial liabilities 8 Trade payables	. 7,765	14,849 7,005 7,843	14,225 6,685 7,540	12,929 5,728 7,201	13,479 6,447 7,032	14,318 6,985 7,333	14,805 7,139 7,666	15,500 7,389 8,111
10 Payable in dollars	. 13,533 . 1,241	13,836 1,013	13,039 1,186	11,361 1,567	12,110 1,368	12,865 1,453	13,218 1,587	13,891 1,609
By area or country Financial liabilities 12 Europe 13 Belgium-Luxembourg 14 France 15 Germany 16 Netherlands 17 Switzerland 18 United Kingdom	. 302 843 . 502 . 621 . 486	6,728 471 995 489 590 569 3,297	7,700 349 857 376 861 610 4,305	8,907 448 501 319 741 567 5,880	8,023 270 644 270 704 646 5,199	8,383 232 742 368 693 711 5,378	9,645 257 807 305 669 703 6,642	9,081 230 574 291 677 684 6,349
19 Canada	. 764	863	839	362	399	431	441	407
20 Latin America and Caribbean 21 Bahamas 22 Bermuda 23 Brazil 24 British West Indies 25 Mexico 26 Venezuela	751 13 32 1,041 213	5,086 1,926 13 35 2,103 367 137	3,184 1,123 4 29 1,843 15 3	2,283 842 4 28 1,291 18 5	1,964 614 4 32 1,163 22 3	2,369 669 0 26 1,545 30 3	1,747 398 0 22 1,223 29 5	961 280 0 22 581 17 3
27 Asia 28 Japan 29 Middle East oil-exporting countries²		1,777 1,209 155	1,815 1,198 82	1,881 1,446 3	1,784 1,377 8	1,861 1,459 7	2,046 1,666 7	2,140 1,653 7
30 Africa	. 19 . 0	14 0	12 0	4 2	1 1	3 1	1 0	2 0
32 All other ⁴	. 27	41	50	63	67	67	66	76
Commercial liabilities 33	268 241	4,001 48 438 622 245 257 1,095	4,074 62 453 607 364 379 976	4,344 75 370 633 581 361 1,142	4,494 101 351 722 460 387 1,346	4,521 85 379 591 372 484 1,309	4,987 111 422 594 339 557 1,380	4,973 56 437 679 350 556 1,475
40 Canada	. 1,841	1,975	1,449	1,313	1,393	1,352	1,253	1,263
41 Latin America and Caribbean 42 Bahamas 43 Bermuda 44 Brazil 45 British West Indies 46 Mexico 47 Venezuela	. 67 . 44 . 6	1,871 7 114 124 32 586 636	1,088 12 77 58 44 430 212	848 37 172 44 45 197 207	890 32 132 61 48 213 217	1,089 28 297 82 89 185 224	1,037 13 245 88 64 160 203	1,050 22 223 40 44 231 176
48 Asia	6,741 1,247 4,178	5,285 1,256 2,372	6,046 1,799 2,829	4,856 2,137 1,507	5,098 2,051 1,686	5,818 2,468 1,948	5,921 2,480 1,870	6,516 2,422 2,109
51 Africa	553	588 233	587 238	585 176	622 197	520 170	524 166	571 150
53 All other ⁴	1	1,128	982	982	981	1,019	1,083	1,128

^{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.

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3.23 CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States¹

Millions of dollars, end of period

		l		19	86		1987	
Type, and area or country	1983	1984	1985	Sept.	Dec.	Mar.	June	Sept.
1 Total	34,911	29,901	28,876	34,157	33,451	34,034	31,515	31,211
2 Payable in dollars	31,815	27,304	26,574	31,446	30,923	31,238	28,405	28,546
	3,096	2,597	2,302	2,711	2,528	2,796	3,110	2,666
By type 4 Financial claims 5 Deposits 6 Payable in dollars 7 Payable in foreign currencies 8 Other financial claims 9 Payable in dollars 10 Payable in foreign currencies	23,780	19,254	18,891	24,833	23,357	24,080	21,580	20,906
	18,496	14,621	15,526	18,953	17,899	17,994	15,437	15,920
	17,993	14,202	14,911	18,389	17,343	17,168	14,253	15,086
	503	420	615	565	555	826	1,183	834
	5,284	4,633	3,364	5,880	5,458	6,086	6,143	4,985
	3,328	3,190	2,330	4,506	4,110	4,740	4,868	3,860
	1,956	1,442	1,035	1,374	1,349	1,345	1,275	1,125
11 Commercial claims 12 Trade receivables 13 Advance payments and other claims	11,131	10,646	9,986	9,324	10,095	9,954	9,935	10,305
	9,721	9,177	8,696	8,079	8,902	8,898	8,892	9,364
	1,410	1,470	1,290	1,245	1,192	1,056	1,043	942
Payable in dollars	10,494	9,912	9,333	8,551	9,471	9,330	9,283	9,599
	637	735	652	773	624	624	652	706
By area or country Financial claims 16 Europe 17 Belgium-Luxembourg 18 France 19 Germany 20 Netherlands 21 Switzerland 22 United Kingdom	6,488	5,762	6,929	10,545	8,759	9,337	9,859	9,336
	37	15	10	67	41	15	6	23
	150	126	184	418	138	172	154	169
	163	224	223	129	111	163	92	83
	71	66	161	73	86	69	75	94
	38	66	74	138	182	74	95	44
	5,817	4,864	6,007	9,478	7,957	8,491	9,237	8,709
23 Canada	5,989	3,988	3,260	3,970	3,964	3,779	3,329	2,883
24 Latin America and Caribbean 25 Bahamas 26 Bermuda 27 Brazil 28 British West Indies 29 Mexico 30 Venezuela	10,234	8,216	7,846	9,438	9,207	9,547	7,539	7,491
	4,771	3,306	2,698	2,806	2,624	3,945	2,572	2,507
	102	6	6	19	6	3	6	2
	53	100	78	105	73	71	103	102
	4,206	4,043	4,571	6,060	6,078	5,128	4,349	3,687
	293	215	180	173	174	164	167	173
	134	125	48	40	24	23	22	18
31 Asia 32 Japan 33 Middle East oil-exporting countries²	764	961	731	715	1,320	1,193	779	1,105
	297	353	475	365	999	931	439	721
	4	13	4	2	11	11	10	10
34 Africa	147	210	103	84	85	84	58	71
	55	85	29	18	28	19	9	14
36 All other ⁴	159	117	21	81	22	140	16	20
Commercial claims 37	3,670	3,801	3,533	3,389	3,718	3,703	3,850	4,114
	135	165	175	125	133	145	137	168
	459	440	426	415	410	417	435	411
	349	374	346	401	447	451	531	550
	334	335	284	157	173	165	182	199
	317	271	284	233	217	196	187	208
	809	1,063	898	874	998	1,070	1,071	1,224
44 Canada	829	1,021	1,023	960	928	927	927	903
45 Latin America and Caribbean 46 Bahamas 47 Bermuda 48 Brazil 49 British West Indies 50 Mexico 51 Venezuela	2,695	2,052	1,753	1,686	1,981	1,944	1,878	1,844
	8	8	13	29	28	11	14	12
	190	115	93	132	170	157	153	125
	493	214	206	202	235	217	202	226
	7	7	6	23	51	25	17	20
	884	583	510	317	411	445	346	365
	272	206	157	192	234	171	201	188
52 Asia 53 Japan 54 Middle East oil-exporting countries2	3,063	3,073	2,982	2,588	2,751	2,707	2,640	2,772
	1,114	1,191	1,016	797	881	926	950	1,018
	737	668	638	682	565	529	455	436
55 Africa	588	470	437	470	495	432	379	407
	139	134	130	168	135	141	123	123
57 All other ⁴	286	229	257	231	222	240	261	267

^{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.

3.24 FOREIGN TRANSACTIONS IN SECURITIES

Millions of dollars

100										
Transactions and area or country	1985	1986	1987		r		1987			
Transactions, and area or country	1963	1980	Jan Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
				Į.	J.S. corpora	ate securitie	es			
Stocks										
1 Foreign purchases	81,995 77,054	148,114 129,395	248,887 232,613	18,687 17,054	23,645 21,883	24,774 24,554	22,473 19,433	30,207 27,768	13,616 20,302	13,632 16,620
3 Net purchases, or sales (-)	4,941	18,719	16,273	1,634	1,763	220	3,040	2,438	-6,687	-2,988
4 Foreign countries	4,857	18,927	16,322	1,679	1,749	117	2,951	2,424	-6,639	-2,927
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 Africa 16 Other countries	2,057 -438 730 -123 -75 1,665 356 1,718 238 296 24 168	9,559 459 341 936 1,560 4,826 816 3,031 976 3,876 297 373	1,864 903 -74 890 -1,162 517 1,116 1,318 -1,361 12,896 123 365	669 107 -155 232 -206 671 -238 296 -26 1,009 -30	717 66 -96 153 -80 635 255 387 -913 1,290 -14	81 -69 28 135 -325 125 -21 188 -255 171 16 -63	1,312 -15 -12 79 435 770 -46 157 135 1,242 20 132	138 58 380 -40 294 -624 238 -512 569 2,014 7 -30	-5,948 -541 -183 -169 -1,574 -3,407 181 -561 -83 -28 11 -211	-2,326 -395 -149 32 -741 -956 120 -46 -448 -160 -6 -61
17 Nonmonetary international and regional organizations	84	-208	-48	-45	14	102	90	15	-48	-61
Bonds ²										
18 Foreign purchases	86,587 42,455	123,169 72,520	105,802 78,116	10,432 8,311	9,414 6,533	7,027 5,638	8,662 4,786	9,158 ^r 7,275 ^r	5,691 5,346	6,838 5,470
20 Net purchases, or sales (-)	44,132	50,648	27,686	2,121	2,881	1,389	3,876	1,883	345	1,368
21 Foreign countries	44,227	49,801	26,945	2,030	2,872	1,548	3,836	1,874	88	939
22 Europe 23 France 24 Germany 25 Netherlands 26 Switzerland 27 United Kingdom 28 Canada 29 Latin America and Caribbean 30 Middle East 31 Other Asia 32 Africa 33 Other countries	40,047 210 2,001 222 3,987 32,762 190 498 -2,648 6,091 11 38	39,313 389 -251 387 4,529 33,900 548 1,476 -2,961 11,270 16 139	22,143 195 -8 269 1,650 19,911 1,296 2,473 -551 1,630 16 -61	2,266 43 80 37 105 1,857 49 -4 -128 -169 8	2,328 64 116 -65 245 1,897 87 305 -166 301 1	1,616 26 -22 44 306 1,317 -8 44 -14 -93 -17 20	3,149 -37 -56 116 166 2,828 47 682 -87 52 -6 -1	922' 55 -98 36 136 1,012' 305 524 42 65 24 -9	417 -34 -26 -16 -39 379 -68 -15 -92 -247 -10 -33	565 -12 17 1 -203 776 114 292 -20 -14 3 0
34 Nonmonetary international and regional organizations	-95	847	740	91	9	-159	40	10	257	429
					Foreign	securities		·		
35 Stocks, net purchases, or sales (-)	-3,941 20,861 24,803	-2,360 49,587 51,947	1,422 94,231 92,809	-257 8,781 9,038	-15 8,585 8,599	-373 8,674 9,047	448 8,657 8,208	2,053 ^r 12,857 ^r 10,804 ^r	725 7,534 6,809	928 4,898 3,970
38 Bonds, net purchases, or sales (-) 39 Foreign purchases 40 Foreign sales	-3,999 81,216 85,214	-3,555 166,992 170,548	-7,051 198,564 205,615	2,285 25,797 23,512	-588 16,303 16,891	-241 12,292 12,532	-674 12,923 13,597	-2,566' 18,118' 20,684'	-1,929 17,674 19,603	-1,153 12,399 13,552
41 Net purchases, or sales (-), of stocks and bonds	-7, 94 0	-5,915	-5,629	2,028	602	-614	-226	-513 ^r	-1,204	-225
42 Foreign countries	-9,003	-7,000	-5,773	1,985	-329	-1,207	~546	253	-1,104	90
43 Europe 44 Canada 45 Latin America and Caribbean 46 Asia 47 Africa 48 Other countries	-9,887 -1,686 1,797 659 75 38	-18,533 -876 3,476 10,858 52 -1,977	-11,800 -3,855 829 9,553 89 -590	-27 -489 106 2,513 6 -124	-572 -596 -62 1,078 5 -182	-896 -484 83 224 5 -140	-510 -263 -20 82 14 150	-931' -71 -152 1,333 16 59'	-1,591 -465 329 418 3 201	-354 133 4 193 10 105
49 Nonmonetary international and regional organizations	1,063	1,084	144	44	-274	594	320	-767	-101	-314

ties sold abroad by U.S. corporations organized to finance direct investments

^{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-

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3.25 MARKETABLE U.S. TREASURY BONDS AND NOTES Foreign Transactions

Millions of dollars

			1987				1987					
Country or area	1985 1986	Jan Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p			
			Transac	Transactions, net purchases or sales (-) during period ¹								
l Estimated total ²	29,208	19,388	25,936	12,281	807	1,110	523	-1,262 ^r	6,380	2,675		
2 Foreign countries ²	28,768	20,491	31,027	8,646	3,610	2,787	704	-5,527'	7,676	4,290		
3 Europe ² 4 Belgium-Luxembourg 5 Germany ⁴ 6 Netherlands 7 Sweden 8 Switzerland ² 9 United Kingdom 10 Other Western Europe 11 Eastern Europe 12 Canada	4,303 476 1,917 269 976 773 -1,810 1,701 0 -188	16,326 -245 7,670 1,283 132 329 4,546 2,613 0 881	23,610 653 13,295 -911 233 1,925 3,955 4,479 -19 4,534	3,640 58 1,534 111 -183 585 617 913 5	4,453 -2 1,516 204 76 512 1,105 1,042 0 654	-1,007 366 780 -254 -153 -688 -431 -631 4 378	-1,167 -25 130 -296 -156 -99 -985 259 5 203	-954' 165' 31 -707 4 -609 -642' 804' 0 -389	6,340 -2 1,820 314 182 -297 3,163 1,158 3 679	1,282 -103 1,121 -76 51 -522 1,200 -391 1		
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	4,315 248 2,336 1,731 19,919 17,909 112 308	926 -96 1,130 -108 1,345 -22 -54 1,067	-2,146 150 -1,096 -1,200 4,677 877 -56 407	780 -17 -514 1,311 3,531 4,199 -18 300	-673 -4 15 -684 -676 -597 20 -168	-675 30 -49 -656 4,318 1,839 -24 -204	-29 55 -155 72 1,762 799 3 -68	-117 -63 -227 173 -5,333 -5,272 2 1,263	472 35 367 69 1,476 1,757 -29 -1,260	-141 167 -309 2,429 2,020 49 -48		
21 Nonmonetary international and regional organizations	442 -436 18	-1,104 -1,430 157	-5,090 -4,177 3	3,635 3,517 3	-2,802 -2,875 0	-1,677 -1,722 0	-180 111 -10	4,265 4,326 0	-1,296 -1,492 0	-1,615 -1,620 0		
Memo 24 Foreign countries ² 25 Official institutions 26 Other foreign ²	28,768 8,135 20,631	20,491 14,214 6,283	31,027 31,176 -152	8,646 3,719 4,927	3,610 2,251 1,358	2,787 2,612 175	704 1,360 -657	-5,527' 2,437 -7,964'	7,676 1,857 5,819	4,290 1,789 2,502		
Oil-exporting countries 77 Middle East 28 Africa	-1,547 7	-1,529 5	-3,111 16	-857 1	107 0	329 0	-509 0	-695 -1	-891 -1	368 -1		

^{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.

3.26 DISCOUNT RATES OF FOREIGN CENTRAL BANKS

Percent per year

	Rate on	Feb. 29, 1988		Rate on	Feb. 29, 1988		Rate on Feb. 29, 1988		
Country Percent Month effective Country		Country	Percent	Month effective	Country	Percent	Month effective		
Austria Belgium Brazil Canada Denmark	3.0 6.75 49.0 8.58 7.0	Dec. 1987 Jan. 1988 Mar. 1981 Feb. 1988 Oct. 1983	France ¹ Germany, Fed. Rep. of Italy Japan Netherlands	7.25 2.5 12.0 2.5 3.25	Jan. 1988 Dec. 1987 Aug. 1987 Feb. 1987 Jan. 1988	Norway. Switzerland United Kingdom ² Venezuela.	8.0 2.5 8.0	June 1983 Dec. 1987 Oct. 1985	

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 commercial banks or brokers. For countries with more than one rate applicable to such discounts or advances, the rate shown is the one at which it is understood 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	1985 1986		1987				1988			
Country, or type	1763	1700	1707	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
1 Eurodollars	8.27	6.70	7.07	6.91	7.51	8.29	7.41	7.86	7.11	6.73
	12.16	10.87	9.65	9.95	10.12	9.92	8.87	8.71	8.84	9.18
	9.64	9.18	8.38	9.11	9.32	9.12	8.70	8.95	8.75	8.58
	5.40	4.58	3.97	3.93	3.98	4.70	3.92	3.65	3.40	3.29
	4.92	4.19	3.67	3.55	3.51	4.03	3.65	3.51	2.09	1.48
	6.29	5.56	5.24	5.27	5.31	5.63	4.99	4.65	4.24	3.98
	9.91	7.68	8.14	7.88	7.85	8.15	8.66	8.48	8.19	7.54
8 Italy	14.86	12.60	11.15	11.96	12.36	11.85	11.36	11.25	10.47	10.80
9 Belgium	9.60	8.04	7.01	6.55	6.56	6.84	6.93	6.57	6.49	6.19
10 Japan	6.47	4.96	3.87	3.71	3.77	3.89	3.90	3.90	3.88	3.82

NOTE. Rates are for 3-month interbank loans except for Canada, finance company paper; Belgium, 3-month Treasury bills; and Japan, Gensaki rate.

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3.28 FOREIGN EXCHANGE RATES

Currency units per dollar

			1987		19	87		19	88
Country/currency	1985	1986	986 1987		Oct.	Nov.	Dec.	Jan.	Feb.
1 Australia/dollar ¹ 2 Austria/schilling 3 Belgium/franc 4 Canada/dollar 5 China, P.R./yuan 6 Denmark/krone	70.026	67.093	70.136	72.68	71.12	68.60	71.06	71.11	71.40
	20.676	15.260	12.649	12.765	12.674	11.843	11.500	11.635	11.920
	59.336	44.662	37.357	37.657	37.494	35.190	34.186	34.576	35.473
	1.3658	1.3896	1.3259	1.3154	1.3097	1.3167	1.3075	1.2855	1.2682
	2.9434	3.4615	3.7314	3.7314	3.7314	3.7314	3.7314	3.7314	3.7314
	10.598	8.0954	6.8477	6.9893	6.9262	6.4962	6.3043	6.3562	6.4918
7 Finland/markka 8 France/franc. 9 Germany/deutsche mark. 10 Greece/drachma 11 Hong Kong/dollar 12 India/rupee. 13 Ireland/punt	6.1971	5.0721	4.4036	4.3954	4.3570	4.1392	4.0462	4.0391	4.1159
	8.9799	6.9256	6.0121	6.0555	6.0160	5.7099	5.5375	5.5808	5.7323
	2.9419	2.1704	1.7981	1.8134	1.8006	1.6821	1.6335	1.6537	1.6963
	138.40	139.93	135.47	138.40	138.61	132.42	129.46	131.92	135.56
	7.7911	7.8037	7.7985	7.8035	7.8077	7.7968	7.7726	7.7872	7.7978
	12.332	12.597	12.943	12.993	12.995	12.972	12.934	13.040	13.065
	106.62	134.14	148.79	147.54	148.72	158.08	162.63	160.64	156.87
14 Italy/lira 15 Japan/yen 16 Malaysia/ringgit 17 Netherlands/guilder 18 New Zealand/dollar 19 Norway/krone 20 Portugal/escudo	1908.90	1491.16	1297.03	1310.86	1302.58	1238.89	1203.74	1216.88	1249.62
	238.47	168.35	144.60	143.29	143.32	135.40	128.24	127.69	129.17
	2.4806	2.5830	2.5185	2.5189	2.5308	2.4989	2.4944	2.5400	2.5812
	3.3184	2.4484	2.0263	2.0413	2.0267	1.8931	1.8382	1.8584	1.9051
	49.752	52.456	59.327	63.352	64.031	61.915	64.664	65.818	66.386
	8.5933	7.3984	6.7408	6.6505	6.6311	6.4233	6.3820	6.3538	6.4167
	172.07	149.80	141.20	142.94	142.82	136.84	133.77	135.87	138.84
21 Singapore/dollar 22 South Africa/rand ¹ 23 South Korea/won 24 Spain/peseta. 25 Sri Lanka/rupee 26 Sweden/krona. 27 Switzerland/franc 28 Taiwan/dollar. 29 Thailand/baht. 30 United Kingdom/pound ¹	2.2008	2.1782	2.1059	2.0924	2.0891	2.0444	2.0127	2.0261	2.0185
	45.57	43.952	49.081	48.86	48.79	50.67	51.22	50.62	48.73
	861.89	884.61	825.93	810.07	808.47	802.30	798.34	791.31	776.85
	169.98	140.04	123.54	121.34	118.60	113.26	110.80	112.34	114.36
	27.187	27.933	29.471	29.902	30.347	30.519	30.644	30.825	30.859
	8.6031	7.1272	6.3468	6.3844	6.3560	6.0744	5.9473	5.9749	6.0524
	2.4551	1.7979	1.4918	1.5029	1.4940	1.3825	1.3304	1.3466	1.3916
	39.889	37.837	31.756	30.151	30.036	29.813	29.004	28.628	28.665
	27.193	26.314	25.774	25.765	25.783	25.495	25.249	25.235	25.324
	129.74	146.77	163.98	164.46	166.20	177.54	182.88	180.09	175.82
Мемо 31 United States/dollar ²	143.01	112.22	96.94	97.23	96.65	91,49	88.70	89.29	91.08

^{1.} Value in U.S. cents.
2. 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).

Note. 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.

Guide to Tabular Presentation, Statistical Releases, and Special Tables

GUIDE TO TABULAR PRESENTATION

Symbols and Abbreviations

c	Corrected	0	Calculated to be zero
e	Estimated	n.a.	Not available
p	Preliminary	n.e.c.	Not elsewhere classified
r	Revised (Notation appears on column heading when	IPCs	Individuals, partnerships, and corporations
	about 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	SMSAs	Standard metropolitan statistical areas
	when the smallest unit given is millions)		Cell not applicable

General Information

Minus signs are used to indicate (1) a decrease, (2) a negative figure, or (3) an outflow.

"U.S. government securities" may include guaranteed issues of U.S. government agencies (the flow of funds figures also include not fully guaranteed issues) as well as direct

obligations of the Treasury. "State and local government" also includes municipalities, special districts, and other political subdivisions.

In some of the tables, details do not add to totals because of rounding.

STATISTICAL RELEASES

List Published Semiannually, with Latest Bulletin Reference

	Issue	Page
Anticipated schedule of release dates for periodic releases	December 1987	A77

SPECIAL TABLES

Published Irregularly, with Latest Bulletin Reference

Assets and liabilities of commercial banks, December 31, 1986	July 1987	A76
Assets and liabilities of commercial banks, March 31, 1987	October 1987	A70
Assets and liabilities of commercial banks, June 30, 1987	February 1988	A70
Assets and liabilities of commercial banks, September 30, 1987	April 1988	A70
Assets and liabilities of U.S. branches and agencies of foreign banks, December 31, 1986	May 1987	A76
Assets and liabilities of U.S. branches and agencies of foreign banks, March 31, 1987	August 1987	A70
Assets and liabilities of U.S. branches and agencies of foreign banks, June 30, 1987	November 1987	A70
Assets and liabilities of U.S. branches and agencies of foreign banks, September 30, 1987	February 1988	A76
Terms of lending at commercial banks, November 1986	February 1987	A70
Terms of lending at commercial banks, February 1987	May 1987	A70
Terms of lending at commercial banks, May 1987	September 1987	A70
Terms of lending at commercial banks, August 1987	January 1988	A70
Pro forma balance sheet and income statements for priced service operations, June 30, 1987	November 1987	A74
Pro forma balance sheet and income statements for priced service operations, September 30, 1987.	February 1988	A80

Special tables begin on next page.

4.20 DOMESTIC AND FOREIGN OFFICES, Insured Commercial Bank Assets and Liabilities^{1,2} Consolidated Report of Condition, September 30, 1987

Millions of dollars

Item	Total	Banks with foreign offices ^{5,7}		Banks with domestic offices only ⁸		
	7000	Total	Foreign	Domestic	Over 100	Under 100
l Total assets ⁶	2,894,489	1,684,802	441,058	1,296,832	803,068	406,619
2 Cash and balances due from depository institutions. 3 Cash items in process of collection, unposted debits, and currency. 4 Cash items in process of collection and unposted debits and coin. 5 Currency and coin. 6 Balances due from depository institutions in the United States. 7 Balances due from banks in foreign countries and foreign central banks. 8 Balances due from Federal Reserve Banks.	328,029 n.a.	233,616 73,102 n.a. n.a. 37,255 103,562 19,697	125,439 1,858 n.a. n.a. 22,757 100,565	108,178 71,244 59,488 11,756 14,498 2,997 19,439	61,028 24,871 16,407 8,464 21,284 4,673 10,200	33,384 n.a.
MEMO 9 Noninterest-bearing balances due from commercial banks in the United States (included in balances due from depository institutions in the U.S.)		n.a.	n.a.	9,349	12,457	10,672
10 Total securities, loans and lease financing receivables, net	2,348,381	1,284,886	n.a.	n.a.	708,080	355,415
11 Total securities, book value	496,588	202,781	27,242	175,539	173,136	120,672
obligations 13 U.S. Treasury securities 14 U.S. government agency and corporation obligations. 15 All holdings of U.S. government-issued or guaranteed certificates of participation in pools of residential mortgages.	302,730 n.a. n.a. 64,103	107,629 64,907 42,722 33,001	786 581 205	106,843 64,326 42,517 32,841	108,696 64,732 43,965	86,405 n.a. n.a.
participation in pools of residential mortgages. All other. Recurities issued by states and political subdivisions in the United States Taxable Taxable Tax-exempt Other securities	n.a. 122,788 1,733 121,055 71,070	9,721 51,248 344 50,904 43,904	46 951 1 950 25,504	9,675 50,297 343 49,954 18,400	26,166 45,929 661 45,268 18,510	13,304 n.a. 25,611 727 24,884 8,656
21 Other domestic securities 22 All holdings of private certificates of participation in pools of residential mortgages 23 All other 24 Foreign securities	7,240 37,456 n.a.	3,759 14,122 26,023	1,096 8 1,089 24,408	3,751 13,034 1,615	2,619 15,541 351	863 7,793
25 Federal funds sold and securities purchased under agreements to resell 26 Total loans and lease financing receivables, gross 27 LESS: Uncarned income on loans 28 Total loans and leases (net of unearned income) 29 LESS: Allocated transfer risk reserves 30 LESS: Total loans and leases, net	130,388 1,782,977 14,814 1,768,163 46,580 179 1,721,404	65,748 1,058,176 6,553 1,051,624 35,088 178 1,016,357	257 224,842 1,972 222,870 n.a. n.a. n.a.	65,491 833,334 4,581 828,753 n.a. n.a.	41,408 507,238 5,637 501,600 8,063 1 493,537	23,233 217,563 2,624 214,939 3,429 0 211,511
Total loans, gross, by category 32 Loans secured by real estate. 33 Construction and land development 34 Farmland 35 1-4 family residential properties 36 Multifamily (5 or more) residential properties 37 Nonfarm nonresidential properties 38 Loans to depository institutions 39 To commercial banks in the United States 40 To other depository institutions in the United States 41 To banks in foreign countries	570,590 n.a. 65,049 n.a. n.a. n.a.	270,494 n.a. 58,880 22,600 4,730 31,550	18,433 n.a. 28,204 1,063 212 26,930	252,061 77,476 1,561 96,511 8,828 67,685 30,676 21,537 4,518 4,621	202,322 31,460 3,884 95,133 5,942 65,904 5,293 4,345 786 162	97,774 7,895 8,673 53,561 2,013 25,631 877 n.a. n.a.
42 Loans to finance agricultural production and other loans to farmers. 43 Commercial and industrial loans. 44 To U.S. addressees (domicile). 45 To non-U.S. addressees (domicile). 46 Acceptances of other banks. 47 U.S. banks. 48 Foreign banks 49 Loans to individuals for household, family, and other personal expenditures (includes purchased paper).	31,001 577,911 n.a. n.a. 3,332 n.a. n.a.	5,645 404,193 307,996 96,197 1,027 313 715	360 110,296 17,412 92,884 336 6 330	5,285 293,897 290,584 3,313 691 307 384	6,685 126,139 125,774 365 1,255 n.a. n.a.	18,670 47,579 n.a. n.a. 1,049 n.a. n.a.
50 Credit cards and related plans 51 Other (includes single payment and installment)	82,759 241,086	43,044 101,344	n.a. n.a.	n.a. n.a.	37,527 95,858	46,072 2,188 43,885
52 Obligations (other than securities) of states and political subdivisions in the U.S. (includes nonrated industrial development obligations). 53 Taxable 54 Tax-exempt 55 All other loans 50 Loans to foreign governments and official institutions 57 Other loans 58 Loans for purchasing and carrying securities 59 All other loans	54,679 1,615 53,064 127,838 n.a. n.a. n.a.	33,878 433 33,445 115,700 38,932 76,768 n.a. n.a.	665 -183 848 50,781 35,907 14,874 n.a. n.a.	33,213 615 32,597 64,919 3,025 61,894 19,373 42,521	18,285 1,038 17,247 9,700 228 9,472 1,977 7,494	2,516 144 2,372 2,439 n.a. n.a. n.a.
60 Lease financing receivables 61 Assets held in trading accounts. 62 Premises and fixed assets (including capitalized leases). 63 Other real estate owned 64 Investments in unconsolidated subsidiaries and associated companies. 65 Customers' liability on acceptances outstanding. 66 Net due from own foreign offices, Edge and agreement subsidiaries, and IBFs. 67 Intangible assets. 68 Other assets.	28,733 36,864 43,761 10,729 2,498 35,512 n.a. 4,515 84,201	23,972 36,014 22,618 4,532 1,758 35,077 n.a. 2,893 63,409	4,224 17,085 n.a.	19,748 18,929 n.a. n.a. n.a. n.a. 35,070 n.a. n.a.	4,174 660 13,840 3,441 677 409 n.a. 1,455 13,477	587 190 7,303 2,755 63 25 n.a. 168 7,316

4.20 Continued

Item	Total	Banks with foreign offices ^{3,4} Total Foreign Domestic			h domestic s only ⁵	
ici.	Total			Domestic	Over 100	Under 100
69 Total liabilities, limited-life preferred stock, and equity capital	2,894,489 2,717,730 84	1,684,802 1,601,815 67	n.a. 441,846 n.a.	n.a. 1,213,056 n.a.	803,067 744,938 16	406,619 370,977
72 Total deposits 73 Individuals, partnerships, and corporations 74 U.S. government 75 States and political subdivisions in the United States. 76 Commercial banks in the United States. 77 Other depository institutions in the United States. 78 Banks in foreign countries 79 Foreign governments and official institutions 79 Cettified and official checks 81 All other ⁸	2,229,527 n.a. 19,340 n.a.	1,206,885 n.a. 32,763 11,854 n.a.	343,443 186,525 n.a. 31,002 779 125,138	863,442 763,834 4,000 36,607 33,060 5,141 7,967 1,761 11,075	661,372 601,890 2,037 38,986 10,449 2,598 154 236 5,021	361,271 329,997 833 24,974 1,821 1,153 n.a. n.a. 2,464 28
82 Total transaction accounts 83 Individuals, partnerships, and corporations 4 U.S. government 85 States and political subdivisions in the United States 86 Commercial banks in the United States 87 Other depository institutions in the United States 88 Banks in foreign countries 89 Foreign governments and official institutions 90 Certified and official checks 91 All other	n.a.	n.a.	n.a.	308,721 250,889 3,161 7,921 23,383 3,927 7,344 1,021 11,075	194,067 171,036 1,566 8,821 6,100 1,447 66 8 5,021	97,208 86,719 634 6,451 547 384 n.a. n.a. 2,464
92 Demand deposits (included in total transaction accounts) 93 Individuals, partnerships, and corporations 94 U.S. government 95 States and political subdivisions in the United States. 96 Commercial banks in the United States. 97 Other depository institutions in the United States. 98 Banks in foreign countries 99 Foreign governments and official institutions 100 Certified and official checks 101 All other. 102 Total nontransaction accounts. 103 Individuals, partnerships, and corporations 104 U.S. government 105 States and political subdivisions in the United States. 106 Commercial banks in the United States. 107 U.S. branches and agencies of foreign banks 108 Other commercial banks in the United States. 109 Other depository institutions in the United States. 100 Other depository institutions in the United States. 101 Banks in foreign countries 102 Banks in foreign countries 103 Foreign branches of other U.S. banks 104 Other banks in foreign countries 105 Foreign governments and official institutions 116 All other.	n.a.	n.a.	n.a.	246,031 189,766 3,148 6,371 23,383 3,926 7,337 1,020 11,075 554,721 512,946 839 28,686 9,677 884 8,794 1,214 623 740	125,468 106,566 1,548 4,720 6,098 1,443 66 8 5,021 407,305 430,854 471 30,165 4,349 806 3,542 1,150 84 84 228	53,390 46,983 618 2,394 546 376 n.a. 2,464 100 264,062 243,277 241,274 n.a. n.a. 770 n.a. n.a. n.a. 18
115 Federal funds purchased and securities sold under agreements to repurchase. 116 Demand notes issued to the U.S. Treasury. 117 Other borrowed money 118 Banks liability on acceptances executed and outstanding. 119 Notes and debentures subordinated to deposits. 120 Net due to own foreign offices, Edge and agreement subsidiaries, and IBFs. 121 All other liabilities. 122 Total equity capital ⁹ .	234,089 n.a. 97,426 35,648 17,289 n.a. 76,405	184,795 n.a. 77,682 35,213 14,899 n.a. 60,639 82,920	605 n.a. 35,146 7,019 n.a. n.a. n.a.	184,190 21,701 42,566 28,194 n.a. 18,017 n.a. n.a.	46,050 4,881 18,757 409 2,019 n.a. 11,450 58,114	3,244 764 987 25 370 n.a. 4,316 35,641
MEMO 123 Holdings of commercial paper included in total loans, gross. 124 Total individual retirement accounts (IRA) and Keogh plan accounts. 125 Total brokered deposits. 126 Total brokered retail deposits 127 Issued in denominations of \$100,000 or less 128 Issued in denominations greater than \$100,000 and participated out by the broker in shares of \$100,000 or less Savings deposits 129 Money market deposit accounts (MMDAs). 130 Other savings deposits (excluding MMDAs). 131 Total time deposits of less than \$100,000 or more. 132 Time certificates of deposit of \$100,000 or more. 133 Open-account time deposits of \$100,000 or more. 134 All NOW accounts (including Super NOW). 135 Total time and savings deposits.	n.a.	1,755	1,245 n.a.	511 32,901 24,590 4,937 1,439 3,497 166,942 71,546 137,590 151,138 27,106 58,475 617,410	720 32,219 4,519 2,553 1,967 586 129,345 68,833 177 88,272 3,987 65,713 535,903	n.a. 15,948 627 459 391 68 55,939 34,895 129,451 42,163 1,614 41,893 307,880
Ouarterly averages 136 Total loans. 137 Obligations (other than securities) of states and political subdivisions in the United States. 138 Transaction accounts in domestic offices (NOW accounts, ATS accounts, and telephone and preauthorized transfer accounts). Nontransaction accounts in domestic offices 139 Money market deposit accounts (MMDAs). 140 Other savings deposits. 141 Time certificates of deposit of \$100,000 or more 142 All other time deposits	13,687	254		796,738 33,971 64,390 167,909 72,379 148,426 163,070 n.a.	491,920 18,065 68,970 131,021 69,156 87,607 178,191 2,342	211,743 n.a. 43,551 56,455 34,633 41,611 130,481

4.21 DOMESTIC OFFICES, Insured Commercial Banks with Assets of \$100 Million or more or with foreign offices^{1,2,3}
 Consolidated Report of Condition, September 30, 1987
 Millions of dollars

	m . 1	Members			Non-
Item	Total	Total	National	State	members
1 Total assets ⁶	2,099,900	1,705,750	1,334,944	370,807	394,149
2 Cash and balances due from depository institutions 3 Cash items in process of collection and unposted debits Currency and coin 5 Balances due from depository institutions in the United States 6 Balances due from banks in foreign countries and foreign central banks 7 Balances due from Federal Reserve Banks	169,206	141,480	108,781	32,698	27,727
	75,896	69,692	52,099	17,592	6,204
	20,220	16,718	13,787	2,931	3,502
	35,782	24,862	20,046	4,816	10,920
	7,669	5,797	4,491	1,306	1,873
	29,638	24,411	18,358	6,054	5,227
8 Total securities, loans and lease financing receivables, (net of unearned income)	1,785,926	1,437,867	1,138,567	299,300	348,060
9 Total securities, book value 10 U.S. Treasury securities 11 U.S. government agency and corporation obligations 12 All holdings of U.S. government-issued or guaranteed certificates of	348,674	267,957	209,949	58,007	80,718
	129,058	99,874	79,852	20,022	29,184
	86,481	64,707	52,755	11,952	21,774
participation in pools of residential mortgages All other Securities issued by states and political subdivisions in the United States Taxable. Tax-exempt Other domestic securities All holdings of private certificates of participation in pools of residential mortgages All other Foreign securities.	50,640 35,841 96,226 1,004 95,222 34,944 6,369 28,575 1,966	41,940 22,767 76,391 75,688 25,272 5,125 20,147 1,713	33,493 19,262 56,185 588 55,597 20,636 3,171 17,466 521	8,447 3,505 20,206 115 20,091 4,636 1,955 2,681 1,192	8,701 13,073 19,835 301 19,534 9,672 1,244 8,428 252
21 Federal funds sold and securities purchased under agreements to resell	106,899	90,524	65,607	24,917	16,374
22 Total loans and lease financing receivables, gross 23 Less: Unearned income on loans 24 Total loans and leases (net of unearned income)	1,340,572	1,087,160	868,932	218,228	253,412
	10,218	7,773	5,922	1,851	2,444
	1,330,353	1,079,386	863,010	216,375	250,968
Total loans, gross, by category 25 Loans secured by real estate 26 Construction and land development 27 Farmland 28 I-4 family residential properties 29 Multifamily (5 or more) residential properties 30 Nonfarm nonresidential properties 31 Loans to commercial banks in the United States 32 Loans to other depository institutions in the United States 33 Loans to banks in foreign countries 34 Loans to finance agricultural production and other loans to farmers	454,383	347,823	295,467	52,356	106,559
	108,935	88,933	72,878	16,055	20,002
	5,445	3,669	3,226	444	1,776
	191,644	144,031	123,305	20,726	47,613
	14,770	11,507	10,010	1,497	3,263
	133,589	99,683	86,048	13,635	33,905
	25,883	22,351	16,881	5,469	3,532
	5,304	5,060	3,769	1,292	244
	4,782	4,699	2,698	2,001	83
	11,971	9,542	8,444	1,098	2,429
35 Commercial and industrial loans 36 To U.S. addressees (domicile) 37 To non-U.S. addressees (domicile)	420,036	347,701	269,420	78,281	72,335
	416,358	344,332	266,696	77,636	72,026
	3,678	3,369	2,723	645	309
38 Acceptances of other banks ¹⁰ . 39 Of U.S. banks. 40 Of foreign banks	1,946	1,366	1,218	147	581
	758	553	482	71	205
	452	355	334	22	97
41 Loans to individuals for household, family, and other personal expenditures (includes purchased paper) 42 Loans to foreign governments and official institutions 43 Obligations (other than securities) of states and political subdivisions in the United States 45 Tax-exempt 46 Other loans 47 Loans for purchasing and carrying securities 48 All other loans.	266,229	215,473	175,345	40,128	50,756
	3,252	3,102	2,111	991	151
	51,498	43,113	32,333	10,780	8,385
	1,653	1,150	1,003	147	503
	49,844	41,963	31,330	10,633	7,881
	71,366	65,473	44,116	21,357	5,893
	21,350	19,483	11,613	7,870	1,868
	50,015	45,990	32,503	13,487	4,025
49 Lease financing receivables 50 Customers' liability on acceptances outstanding 51 Net due from own foreign offices, Edge and agreement subsidiaries, and IBFs 52 Remaining assets.	23,922	21,457	17,130	4,328	2,465
	27,752	26,844	19,286	7,558	908
	35,070	31,570	23,482	8,087	3,501
	117,015	99,560	68,310	31,250	17,455

4.21 Continued

_			Members			Non-
	ftem	Total	Total	National	State	members
53	Total liabilities and equity capital	2,099,900	1,705,750	1,334,944	370,807	394,149
54	Total liabilities ⁷	1,957,994	1,592,985	1,247,168	345,817	365,009
55 56 57 58 59 60 61 62 63	Individuals, partnerships, and corporations. U.S. government. States and political subdivisions in the United States Commercial banks in the United States Other depository institutions in the United States Banks in foreign countries Foreign governments and official institutions	1,524,813 1,365,724 6,037 75,593 43,509 7,739 8,121 1,997 16,096	1,204,077 1,073,427 5,137 57,379 39,487 5,870 7,596 1,725 13,459	962,658 864,366 4,251 47,932 28,950 4,133 3,953 796 8,282	241,419 209,061 886 9,447 10,537 1,738 3,643 930 5,177	320,737 292,298 900 18,213 4,022 1,868 525 272 2,638
64 65 66 67 68 69 70 71 72	U.S. government. States and political subdivisions in the United States Commercial banks in the United States Other depository institutions in the United States Banks in foreign countries Foreign governments and official institutions	502,787 421,925 4,727 16,742 29,482 5,374 7,410 1,029 16,096	411,987 339,717 4,055 13,590 28,144 4,818 7,214 989 13,459	318,563 268,574 3,259 11,050 20,032 3,220 3,724 422 8,282	93,424 71,143 796 2,540 8,113 1,597 3,490 567 5,177	90,800 82,208 672 3,152 1,338 557 196 40 2,638
73 74 75 76 77 78 79 80 81	Individuals, partnerships, and corporations. U.S. government. States and political subdivisions in the United States Commercial banks in the United States Other depository institutions in the United States Banks in foreign countries Foreign governments and official institutions	371,500 296,332 4,696 11,091 29,480 5,369 7,404 1,028 16,096	311,449 243,475 4,028 9,329 28,143 4,816 7,207 988 13,459	234,303 187,805 3,236 7,584 20,031 3,219 3,720 421 8,282	77,146 55,670 792 1,745 8,113 1,597 3,488 567 5,177	60,051 52,857 668 1,762 1,337 553 196 40 2,638
82 83 84 85 86 87 88 89 90 91 92 93	Individuals, partnerships, and corporations. U.S. government. States and political subdivisions in the United States Commercial banks in the United States U.S. branches and agencies of foreign banks Other commercial banks in the United States Other depository institutions in the United States Banks in foreign countries Foreign branches of other U.S. banks Other banks in foreign countries	1,022,026 943,800 1,310 58,851 14,026 1,690 12,336 2,364 711 8 703 968	792,090 733,710 1,081 43,789 11,342 1,049 10,294 1,053 382 6 376 737	644,095 595,792 992 36,882 8,918 998 7,920 912 229 4 224 374	147,995 137,918 90 6,907 2,424 50 2,374 140 153 1 152 363	229,936 210,090 228 15,061 2,684 642 2,042 1,311 329 2 327 232
95 96 97 98 99		230,241 26,583 61,322 28,603 2,019 18,017 84,413	206,736 24,457 52,548 27,696 1,230 16,630 76,242	158,744 19,542 38,142 20,100 1,102 9,840 46,880	47,993 4,915 14,405 7,596 128 6,790 29,362	23,504 2,125 8,774 908 789 1,387 8,172
101	Total equity capital ⁹	141,905	112,765	87,776	24,989	29,140
103 104	MEMO Holdings of commercial paper included in total loans, gross Total individual retirement accounts (IRA) and Keogh plan accounts Total brokered deposits. Total brokered retail deposits. Issued in denominations of \$100,000 or less Issued in denominations greater than \$100,000 and participated out by the broker in shares of \$100,000 or less	1,231 65,120 29,109 7,490 3,406 4,083	959 50,393 24,163 5,944 2,297 3,647	812 41,629 20,333 5,042 2,151 2,891	147 8,764 3,830 902 146	272 14,727 4,946 1,546 1,109
111 112 113		296,287 140,379 314,858 239,410 31,093 124,189 1,153,314	234,149 108,282 235,275 186,911 27,472 95,020 892,628	190,245 84,864 198,539 151,974 18,474 79,128 728,355	43,905 23,418 36,736 34,937 8,998 15,892 164,273	62,137 32,097 79,583 52,499 3,620 29,168 260,686
116	Quarterly averages Total loans. Obligations (other than securities) of states and political subdivisions in the United States Transaction accounts (NOW accounts, ATS accounts, and telephone preauthorized transfer accounts).	1,288,658 52,036 133,359	1,042,931 43,692 102,676	836,654 32,327 84,523	206,277 11,365 18,152	245,727 8,344 30,684
118 119 120 121	Other savings deposits	298,930 141,535 236,033 341,260	236,422 109,357 184,211 259,078	192,167 86,228 150,177 213,634	44,254 23,128 34,034 45,444	62,508 32,179 51,821 82,182
122	Number of banks	2,596	1,505	1,272	233	1,091
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Footnotes appear at the end of table 4.22

4.22 DOMESTIC OFFICES, Insured Commercial Bank Assets and Liabilities^{1,2,3} Consolidated Report of Condition, September 30, 1987 Millions of dollars

	Total		Members	-	Non-
Item	Total	Total	National	State	members
1 Total assets ⁶	2,506,519	1,876,616	1,474,812	401,805	629,903
Cash and balances due from depository institutions. Currency and coin. Noninterest-bearing balances due from commercial banks. Other.	202,590	156,250	121,201	35,050	46,340
	24,402	18,498	15,250	3,248	5,904
	32,478	19,112	15,483	3,629	13,366
	145,710	118,640	90,467	28,173	27,070
6 Total securities, loans, and lease financing receivables (net of unearned income)	2,144,771	1,587,952	1,261,027	326,926	556,818
7 Total securities, book value 8 U.S. Treasury securities and U.S. government agency and corporation obligations. 9 Securities issued by states and political subdivisions in the United States. 10 Taxable	469,347	316,383	249,575	66,808	152,963
	301,945	198,812	160,436	38,376	103,132
	121,837	86,671	64,642	22,029	35,166
	1,731	965	804	162	766
	120,106	85,706	63,838	21,868	34,400
	45,566	30,900	24,497	6,403	14,665
	7,232	5,521	3,441	2,080	1,711
	38,333	25,379	21,056	4,323	12,954
	130,131	101,338	74,615	26,723	28,793
	1,558,135	1,179,140	943,674	235,466	378,995
	12,842	8,909	6,837	2,072	3,933
	1,545,293	1,170,231	936,837	233,394	375,062
Total loans, gross, by category 19 Loans secured by real estate. 20 Construction and land development. 21 Farmland. 22 J-4 family residential properties. 23 Multifamily (5 or more) residential properties. 24 Nonfarm nonresidential properties.	552,156	388,962	328,925	60,037	163,194
	116,830	92,421	75,731	16,689	24,409
	14,118	6,647	5,620	1,028	7,471
	245,205	166,958	141,802	25,157	78,247
	16,783	12,342	10,696	1,646	4,441
	159,220	110,593	95,076	15,517	48,627
25 Loans to depository institutions. 26 Loans to finance agricultural production and other loans to farmers. 27 Commercial and industrial loans 28 Acceptances of other banks. 29 Loans to individuals for household, family, and other personal expenditures	36,846	32,641	23,835	8,806	4,205
	30,641	16,253	13,744	2,509	14,388
	467,615	368,706	286,476	82,230	98,909
	2,996	1,869	1,646	223	1,127
(includes purchased paper) 30 Obligations (other than securities) of states and political subdivisions in the United States 31 Nonrated industrial development obligations 32 Other obligations (excluding securities) 33 All other loans 34 Lease financing receivables 35 Customers 'liability on acceptances outstanding. 36 Net due from own foreign offices, Edge and agreement subsidiaries, and IBFs. 37 Remaining assets.	312,302	235,319	191,522	43,797	76,983
	54,014	44,112	33,170	10,942	9,902
	1,798	1,210	1,050	160	587
	52,216	42,901	32,120	10,782	9,315
	77,057	69,604	47,052	22,553	7,453
	24,509	21,675	17,304	4,371	2,834
	27,777	26,854	19,294	7,561	923
	35,070	31,570	23,482	8,087	3,501
	131,381	105,559	73,291	32,269	25,822
38 Total liabilities and equity capital	2,506,519	1,876,616	1,474,812	401,805	629,903
39 Total liabilities ⁷ . 40 Total deposits. 41 Individuals, partnerships, and corporations 42 U.S. government 43 States and political subdivisions in the United States 44 Commercial banks in the United States 45 Other depository institutions in the United States 46 Certified and official checks 47 All other	2,328,971	1,749,086	1,375,118	373,968	579,885
	1,886,084	1,355,751	1,087,193	268,558	530,333
	1,695,721	1,212,351	978,489	233,862	483,369
	6,870	5,482	4,546	937	1,388
	100,567	66,925	55,772	11,153	33,642
	45,330	40,628	29,818	10,810	4,702
	8,892	6,440	4,608	1,832	2,451
	18,561	14,587	9,199	5,388	3,973
	10,147	9,339	4,765	4,574	808
48 Total transaction accounts. 49 Individuals, partnerships, and corporations 50 U.S. government 51 States and political subdivisions in the United States 52 Commercial banks in the United States 53 Other depository institutions in the United States 54 Certified and official checks 55 All other	599,996	452,989	352,412	100,577	147,007
	508,644	376,297	298,849	77,448	132,347
	5,361	4,325	3,490	835	1,036
	23,193	16,011	13,059	2,952	7,182
	30,029	28,564	20,297	8,267	1,465
	5,758	4,995	3,369	1,626	763
	18,561	14,587	9,199	5,388	3,973
	8,449	8,209	4,151	4,059	240
56 Demand deposits (included in total transaction accounts) 57 Individuals, partnerships, and corporations 58 U.S. government 59 States and political subdivisions in the United States 60 Commercial banks in the United States 61 Other depository institutions in the United States 62 Certified and official checks 63 All other	424,890	334,564	253,296	81,269	90,326
	343,315	263,691	204,480	59,211	79,624
	5,314	4,292	3,462	830	1,022
	13,485	10,237	8,345	1,892	3,248
	30,026	28,563	20,296	8,267	1,463
	5,745	4,990	3,364	1,626	755
	18,561	14,587	9,199	5,388	3,973
	8,442	8,202	4,145	4,056	240
64 Total nontransaction accounts 65 Individuals, partnerships, and corporations 66 U.S. government 67 States and political subdivisions in the United States 68 Commercial banks in the United States 69 Other depository institutions in the United States 70 All other	1,286,088	902,762	734,781	167,982	383,326
	1,187,077	836,055	679,641	156,414	351,023
	1,509	1,158	1,056	102	352
	77,374	50,915	42,713	8,201	26,460
	15,300	12,064	9,521	2,543	3,236
	3,134	1,446	1,240	206	1,688
	1,697	1,130	614	516	567

4.22 Continued

27 24 24, 816 9, 827 34, 988 2,33 34, 988 2,33 34, 988 2,33 34, 988 2,33 34, 988 2,33 34, 988 2,33 34, 988 2,33 34, 988 2,33 34, 988 3,34 38,52 3,46 3,96		Total		Members	Members	
27,346 24,816 19,827 4,988 2,336 23,100 31,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 14,620 9,167 30 Other borrowed money 62,310 53,143 38,522 32,143 30 Other borrowed money 62,310 30,143 31,143	item	Total	Total	National	State	members
MEMO	72 Demand notes issued to the U.S. Treasury 73 Other borrowed money 74 Banks liability on acceptances executed and outstanding 75 Notes and debentures subordinated to deposits 76 Net due to own foreign offices, Edge and agreement subsidiaries, and IBFs	27,346 62,310 28,628 2,389 18,017	24,816 53,143 27,706 1,304 16,630	19,827 38,522 20,107 1,168 9,840	4,988 14,620 7,599 136 6,790	25,087 2,530 9,167 923 1,085 1,387 10,761
79 78 78 79 78 79 79 79	78 Total equity capital ⁹	177,548	127,530	99,694	27,836	50,017
Total brokered deposits 29,736 24,454 20,556 3,898 5,282 3,90 Total brokered retail deposits 7,949 6,136 5,184 952 1,813 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,462 2,277 184 1,336 3,797 2,941 96,612 2,6330 3,233 2,337	79 Assets held in trading accounts ¹⁰ . 80 U.S. Treasury securities 81 U.S. government agency corporation obligations 82 Securities issued by states and political subdivisions in the United States 83 Other bonds, notes and debentures 84 Certificates of deposit 85 Commercial paper 86 Bankers acceptances.	9,735 4,285 2,440 182 385 46 1,371	9,704 4,284 2,426 181 381 46 1,363	4,801 3,030 1,710 96 345 46 880	4,903 1,254 715 85 36 0 483	313 32 1 14 1 4 0 8
93 Money market deposit accounts (MMDAs) 352,226 258,832 210,510 48,322 93,394 Other savings deposits	89 Total brokered deposits 90 Total brokered retail deposits 91 Issued in denominations of \$100,000 or less. 92 Issued in denominations greater than \$100,000 and participated out by the broker in	29,736 7,949 3,797	24,454 6,136 2,462	20,556 5,184 2,277	3,898 952 184	24,257 5,282 1,813 1,336
100 Total loans 1,500,401 1,132,484 909,558 222,926 367,917 101 Transaction accounts (NOW accounts, ATS accounts, and telephone and preauthorized transfer accounts) 176,910 120,427 99,248 21,179 56,483 Nontransaction accounts Nontransaction accounts 355,384 261,300 212,613 48,687 94,084 103 Other savings deposits 176,169 123,918 97,896 26,021 52,251 104 Time certificates of deposit of \$100,000 or more 277,643 203,595 166,540 37,055 74,084 105 All other time deposits 471,741 310,498 255,643 54,856 161,243	93 Money market deposit accounts (MMDAs) 94 Other savings deposits 95 Total time deposits of less than \$100,000 96 Time certificates of deposit of \$100,000 or more. 97 Open-account time deposits of \$100,000 or more 98 All NOW accounts (including Super NOW).	175,275 444,308 281,573 32,707 166,081	122,941 286,414 206,516 28,059 112,308	96,612 240,267 168,454 18,937 93,500	26,330 46,147 38,061 9,121 18,808	93,394 52,333 157,894 75,057 4,648 53,773 440,007
102 Money market deposit accounts (MMDAs) 355,384 261,300 212,613 48,687 94,084 103 Other savings deposits 176,169 123,918 97,896 26,021 52,251 104 Time certificates of deposit of \$100,000 or more 277,643 203,595 166,540 37,055 74,048 105 All other time deposits 471,741 310,498 255,643 54,856 161,243	100 Total loans					367,917 56,483
106 Number of banks	102 Money market deposit accounts (MMDAs) 103 Other savings deposits 104 Time certificates of deposit of \$100,000 or more.	176,169 277,643	123,918 203,595	97,896 166,540	26,021 37,055	94,084 52,251 74,048 161,243
	106 Number of banks	13,687	5,747	4,649	1,098	7,940

1. Effective Mar. 31, 1984, the report of condition was substantially revised for commercial banks. Some of the changes are as follows: (1) Previously, banks with international banking facilities (IBFs) that had no other foreign offices were considered domestic reporters. Beginning with the Mar. 31, 1984 call report these banks are considered foreign and domestic reporters and must file the foreign and domestic report of condition; (2) banks with assets greater than \$1 billion have additional items reported; (3) the domestic office detail for banks with foreign offices has been reduced considerably; and (4) banks with assets under \$25 million have been excused from reporting certain detail items.

2. The "n.a." for some of the items is used to indicate the lesser detail available from banks without foreign offices, the inapplicability of certain items to banks that have only domestic offices and/or the absence of detail on a fully consolidated basis for banks with foreign offices.

3. All transactions between domestic and foreign offices of a bank are reported in "net due from" and "net due to." All other lines represent transactions with parties other than the domestic and foreign offices of each bank. Since these intraoffice transactions are nullified by consolidation, total assets and total liabilities for the entire bank may not equal the sum of assets and liabilities respectively, of the domestic and foreign offices.

4. Foreign offices include branches in foreign countries, Puerto Rico, and in U.S. territories and possessions; subsidiaries in foreign countries; all offices of Edge act and agreement corporations wherever located and IBFs.

- 5. The 'over 100' column refers to those respondents whose assets, as of June 30 of the previous calendar year, were equal to or exceeded \$100 million. (These respondents file the FFIEC 032 or FFIEC 033 call report.) The 'under 100' column refers to those respondents whose assets, as of June 30 of the previous calendar year, were less than \$100 million. (These respondents filed the FFIEC 034 call report.)
- year, were less than \$100 million. (These respondents filed the FFIEC 034 call report.)

 6. Since the domestic portion of allowances for loan and lease losses and allocated transfer risk reserve are not reported for banks with foreign offices, the components of total assets (domestic) will not add to the actual total (domestic).

 7. Since the foreign portion of demand notes issued to the U.S. Treasury is not reported for banks with foreign offices, the components of total liabilities (foreign) will not add to the actual total (foreign).

 8. The definition of 'all other' varies by report form and therefore by column in this table. See the instructions for more detail.

 9. Equity capital is not allocated between the domestic and foreign offices of banks with foreign offices.

 10. Components of assets held in trading accounts are only reported for banks with total assets of \$1 billion or more; therefore the components will not add to the totals for this item.

totals for this item.

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ATLANTA .30303 Birmingham .35283 Jacksonville .32231 Miami .33152 Nashville .37203 New Orleans .70161	Bradley Currey, Jr. Larry L. Prince Roy D. Terry E. William Nash, Jr. Sue McCourt Cobb Condon S. Bush Sharon A. Perlis	Robert P. Forrestal Jack Guynn	Delmar Harrison ¹ Fred R. Herr ¹ James D. Hawkins ¹ Patrick K. Barron ¹ Donald E. Nelson Henry H. Bourgaux
CHICAGO*	Robert J. Day Marcus Alexis Richard T. Lindgren	Silas Keehn Daniel M. Doyle	Roby L. Sloan ¹
ST. LOUIS .63166 Little Rock .72203 Louisville .40232 Memphis .38101	Robert L. Virgil, Jr. H. Edwin Trusheim James R. Rodgers Lois H. Gray Sandra B. Sanderson	Thomas C. Melzer James R. Bowen	John F. Breen James E. Conrad Paul I. Black, Jr.
MINNEAPOLIS55480 Helena59601	Michael W. Wright John A. Rollwagen Marcia S. Anderson	Gary H. Stern Thomas E. Gainor	Robert F. McNellis
KANSAS CITY	Irvine O. Hockaday, Jr. Fred W. Lyons, Jr. James C. Wilson Patience S. Latting Kenneth L. Morrison	Roger Guffey Henry R. Czerwinski	Enis Alldredge, Jr. William G. Evans Robert D. Hamilton
DALLAS .75222 El Paso .79999 Houston .77252 San Antonio .78295	Bobby R. Inman Hugh G. Robinson Peyton Yates Walter M. Mischer, Jr. Robert F. McDermott	Robert H. Boykin William H.Wallace	Tony J. Salvaggio ¹ Sammie C. Clay Robert Smith, III ¹ Thomas H. Robertson
SAN FRANCISCO 94120 Los Angeles 90051 Portland 97208 Salt Lake City .84125 Seattle 98124	Robert F. Erburu Carolyn S. Chambers Richard C. Seaver Paul E. Bragdon Don M. Wheeler Carol A. Nygren	Robert T. Parry Carl E. Powell	John F. Hoover ¹ Thomas C. Warren ² Angelo S. Carella ¹ E. Ronald Liggett ¹ Gerald R. Kelly ¹

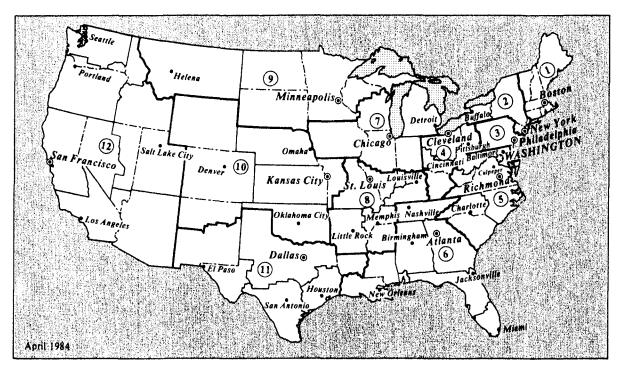
^{*}Additional offices of these Banks are located at Lewiston, Maine 04240; Windsor Locks, Connecticut 06096; Cranford, New Jersey 07016; Jericho, New York 11753; Utica at Oriskany, New York 13424; Columbus, Ohio 43216; Columbia, South Carolina 29210; Charleston, West Virginia 25311; Des Moines, Iowa 50306; Indianapolis, Indiana 46204; and Milwaukee, Wisconsin 53202.

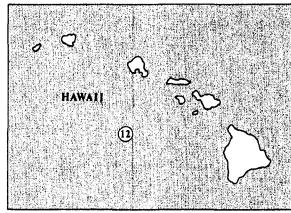
^{1.} Senior Vice President.

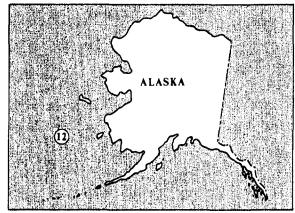
^{2.} Executive Vice President.

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