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U.S. Exchange Rate Policy: Bretton Woods to Present

B. Dianne Pauls, of the Board's Division of International Finance, prepared this article.

Over the past thirty years or so, the United States has operated under two distinct exchange rate regimes. The first, which lasted effectively from December 1958 to March 1973, was the Bretton Woods system of fixed exchange rates. In the second, which began in March 1973 and has continued to the present, exchange rates have been subject to managed floating. This article traces the evolution of U.S. exchange rate policy through these two regimes, focusing for each on the broad objectives of U.S. policy, operational objectives and approaches, and the major episodes in policy during the period.

THE BRETTON WOODS SYSTEM: DECEMBER 1958 TO MARCH 1973

The system of fixed exchange rates was provided for in the Articles of Agreement, the charter for the International Monetary Fund that was negotiated at Bretton Woods, New Hampshire, in 1944. Although the Articles went into force in December 1945, the system of fixed exchange rates envisaged at Bretton Woods became fully operational only at the end of 1958, when most major foreign currencies became convertible for the private sector into dollars for current account transactions. Under the Bretton Woods system, par values were established for the currencies of IMF member countries in terms of gold or the

"U.S. dollar of specified gold content."² Foreign monetary authorities were obliged to intervene in foreign exchange markets to maintain the value of their currencies within 1 percent of their dollar parities. Monetary authorities in major foreign countries undertook this intervention in dollars; the U.S. Treasury stood ready to sell gold to them or buy it from them at the official price of \$35 per ounce. In light of this commitment by the United States and the dominance of the U.S. economy, the dollar was the principal reserve currency and, aside from gold, the principal reserve asset of the Bretton Woods system. Sterling remained a reserve currency, but it was only a minor one for countries outside of the British Commonwealth.

Because the responsibility for intervention in exchange markets lay with foreign authorities, direct U.S. intervention during the Bretton Woods era was extremely limited. Before August 15, 1971, U.S. operations were restricted largely to two types: selling gold to foreign authorities for the dollars acquired by those authorities in exchange market intervention; and, later, buying dollars from foreign authorities in return for that country's currency, which the United States had acquired by drawings on the Federal Reserve swap network and the issuance of bonds denominated in foreign currencies. Only after the dollar had been declared inconvertible into gold, had

^{1.} In 1958, among European countries, only Germany also permitted convertibility for the proceeds of capital account transactions. The Japanese yen was not convertible for current account transactions until 1964.

^{2.} Initially, the par value of the dollar was defined by the President at \$35 per ounce of gold under the authority granted to him by the Gold Reserve Act of 1934. The Congress modified the par value of the dollar to \$38 per ounce of gold in the Par Value Modification Act, passed in February 1972. This act was subsequently amended in September 1973, to redefine the par value as \$42.22 per ounce of gold. When the Second Amendment to the Articles of Agreement was approved on October 19, 1976, the Congress repealed the Par Value Modification Act but retained the value of \$42.22 per ounce of gold for the purpose of valuing the U.S. gold stock.

been devalued in the Smithsonian Agreement, and still was under downward pressure in exchange markets, did U.S. authorities undertake much direct intervention in the exchange market.

Broad Objectives of U.S. Exchange Rate Policy

In establishing the Bretton Woods system, the IMF's Articles of Agreement heavily stressed exchange rate stability. The intent was to discourage the competitive devaluations that were viewed as contributing to economic and financial chaos in the 1920s and 1930s. The Articles formally permitted adjustment of a currency's par value only if the country's balance of payments was in "fundamental disequilibrium." This was an imprecise concept, but it came to mean that exchange rates would be adjusted only as a last resort and only in conjunction with other policies to redress the disequilibrium.

Given the widespread concern about competitive devaluations and the goal of maintaining a system of fixed exchange rates, the overriding objective of U.S. exchange rate policy was the maintenance of a fixed par value of the dollar. Keeping the dollar a leading standard and store of value provided a stable center for the world's monetary structure. Revaluations of foreign currencies against gold and the dollar, though few, were more readily accepted by the United States than devaluations, which were considered appropriate only if unavoidable. Devaluation of the dollar, under the Bretton Woods system, could be achieved only by an increase in the dollar price of gold without a commensurate increase in the price of gold in terms of other currencies. Hence, it could not be accomplished without the cooperation of foreign authorities. Moreover, most U.S. policymakers ruled out devaluation of the dollar: They saw it as likely to disturb the world economy by increasing the propensity to shift reserves out of dollars and into gold and thereby undermining confidence in the fixed exchange rate system.

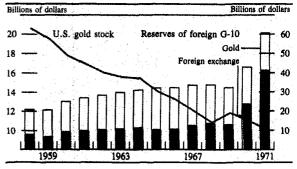
Operational Objectives and Approaches

The credibility of the U.S. commitment to convert dollars into gold came into question in the

early 1960s, when the United States began to cumulate deficits in its balance of payments. (See the glossary for a definition of this term and others used in this article.) From 1960 to 1967, as U.S. residents continued to invest in the reconstruction of Western Europe and Japan, large capital outflows generally outweighed surpluses in the U.S. trade and current accounts. Foreign monetary authorities began to accumulate dollars as they intervened to maintain the value of their currencies in the face of growing U.S. payments deficits. In turn, they purchased gold more and more from the U.S. Treasury with these dollars. The Treasury sold, net, more than \$10 billion worth of gold between December 1958 and August 1971, cutting its gold stock in half (see chart 1). Sales to France and in the London gold market to stabilize the market price around the official price accounted for much of this total. Even if gold were not immediately demanded, there remained the threat that it could be demanded by foreign monetary authorities. To preserve the credibility of the offer to convert dollars into gold and, with it, the stability of the Bretton Woods system, the protection of the U.S. gold stock became the key operational objective of U.S. exchange rate policy. The government adopted five approaches to meeting this objective.

Operations in Foreign Currencies. As the first line of defense, U.S. authorities resumed operations in foreign currencies in the early 1960s, after a hiatus of nearly thirty years. The Treasury, using the Federal Reserve Bank of New York as its fiscal agent, began operations in 1961.

1. U.S. gold stock and gold and foreign exchange reserves of foreign G-10 countries, 1958-71



Gold is valued at \$35 per ounce. The data are for the end of the periods, except for 1971, for which the data are for the end of August.

Glossary

Balance of Payments. The balance of payments is defined in various ways. Under the Bretton Woods system, analysis of longer-run fundamentals tended to focus on the basic balance, consisting of the current account plus net long-term capital flows. From the perspective of potential claims on the gold stock, however, policymakers generally used the official settlements balance—the basic balance plus net private short-term capital. Unless otherwise specified, the concept used in this paper for the Bretton Woods period is the official settlements balance. Under the regime of floating exchange rates, measures of the overall balance of payments were abandoned and attention focused on current account positions.

Carter Bonds. Carter bonds were two- to four-year notes denominated in marks and Swiss francs and issued publicly by the U.S. Treasury in the German and Swiss capital markets between late 1978 and January 1980. They were issued to supplement foreign currency resources for U.S. intervention.

Group of Five or G-5 Countries. The countries are France, Germany, Japan, the United Kingdom, and the United States.

Group of Seven or G-7 Countries. The countries include the G-5 countries plus Canada and Italy.

Group of Ten or G-10 Countries. The countries were those members of the IMF participating in the General Agreements to Borrow—originally, Belgium, Canada, France, Germany, Italy, Japan, the Netherlands, Sweden, the United Kingdom, and the United States. In 1984, Switzerland joined the G-10, making in fact eleven countries, but by convention the name remains the G-10. The usage of G-10 throughout this article includes Switzerland, even though it was not a member of the IMF, because it was party to the various agreements regarding exchange rates and before joining the G-10 had an agreement parallel to the General Agreements to Borrow to lend its currency to the IMF.

Roosa Bonds. Roosa bonds were medium-term bonds denominated in foreign currencies issued to official institutions of foreign countries intermittently from 1962 to 1971, in an effort to defend the U.S. gold stock. They were issued in German

marks, Swiss francs, Italian lira, Belgian francs, and Austrian schillings. Earlier issues, also called Roosa bonds, were denominated in dollars and had special maturity and interest rate provisions.

SDRs. Special drawing rights are international reserve assets created by the International Monetary Fund. The IMF has allocated a total of SDR 21.4 billion in six allocations since the SDR was established in 1969. The amount allocated to a participant is proportionate to its quota in the Fund at the time of the allocation. The value of the SDR initially was defined in terms of gold, at SDR 35 per ounce. After the move to widespread floating of exchange rates in 1973, the value of the SDR was redefined in terms of a basket of currencies. Initially, the currencies were those of the sixteen countries that had a share in world exports of goods and services in excess of 1 percent on average over the period 1968–72—the G-10 countries plus Australia, Denmark, Norway, Spain, Austria, and South Africa. The composition and weights for the basket of sixteen currencies were revised in July 1978 to reflect export shares for 1972-76. In 1981, the Fund decided to restrict the currencies in the basket to those of the five most important countries in world trade—the United States, West Germany, Japan, France, and the United Kingdom.

Swap Network. The swap network is a series of bilateral arrangements between the Federal Reserve and fourteen foreign central banks and the BIS providing standby reciprocal facilities for obtaining foreign currencies. The facilities provide for the swap (simultaneous spot purchase and forward sale) of each other's currency by the Federal Reserve and the respective foreign central bank. Swap drawings typically have a three-month maturity, with an understanding that they may be more or less automatically rolled over for another three months.

Warehousing. In a warehousing operation, the Federal Reserve buys foreign currencies spot from the Exchange Stabilization Fund, and simultaneously sells back the proceeds for delivery at a specified future date. Because both purchase and sale are made at a given exchange rate, neither side incurs additional exchange rate risk; interest earnings on the foreign currencies warehoused accrue to the Federal Reserve.

It acted under the authority granted it by the Gold Reserve Act of 1934, which established the Exchange Stabilization Fund for the purpose of stabilizing the exchange value of the dollar. Because the ESF's resources were meager, the Treasury was anxious for the Federal Reserve to participate for its own account in foreign currency operations.³ The Federal Reserve had operated on a very limited ad hoc basis for its own account in the forward exchange market in 1961. In early 1962, the Federal Open Market Committee (FOMC) authorized operations in foreign currencies, first on an experimental, then on an ongoing basis. In 1963, the Federal Reserve authorized the "warehousing" of foreign currencies for the ESF, and in that year, it made a warehousing-type transaction. By temporarily selling some of its foreign currency holdings to the Federal Reserve for dollars through warehousing, the ESF was able to continue to purchase foreign currencies even after it had exhausted its initial dollar resources.

To supplement resources for foreign currency operations, various credit facilities were developed. Beginning in 1962, the Federal Reserve established a network of reciprocal currency agreements (swap facilities) with the major foreign central banks and the Bank for International Settlements. By the end of 1967, this network consisted of lines with fourteen central banks and the BIS. Drawings on swap lines were explicitly of short term, and were intended to finance or accommodate short-term capital flows believed to be seasonal or temporary in nature. They were not intended as a substitute for more fundamental adjustment in the balance of payments. For its part, the Federal Reserve used its swap drawings

mostly to purchase dollars unwillingly held by foreign monetary authorities, thereby assuming the exchange rate risk on those holdings. Otherwise, those dollars could have been converted into gold.

To obtain medium-term credit, the Treasury issued "Roosa bonds," named after then Undersecretary of the Treasury Robert V. Roosa. These bonds were designed to be attractive to foreign monetary authorities as an alternative to converting dollars into gold. Part of the foreign currency proceeds from Roosa bonds was used to extinguish swap debt that otherwise would have lingered beyond the one-year limit set by the FOMC on such drawings.

Finally, the Treasury also could obtain foreign currencies by drawing on its credit facilities with the International Monetary Fund. However, before 1961, the IMF's supply of usable nondollar currencies was limited by the small size of the quotas of its other members. In that year, the United States and the other Group of Ten countries negotiated a mechanism to increase the potential availability of their currencies to the IMF under the General Arrangements to Borrow.

Stabilizing the Market Price of Gold. A second approach used to protect the U.S. gold stock was an attempt to stabilize the private market price of gold around the official price of \$35 an ounce. The United States was concerned that if the market price were allowed to rise appreciably above the official price, foreign monetary authorities would convert their dollar holdings into gold at the official price in order to profit by later reselling the gold at the higher market price. To eliminate this potential source of pressure on U.S. gold reserves, in 1961 the United States and seven other countries formed the Gold Pool, a consortium to sell officially held gold in the London market to keep the private market price below \$35.20 an ounce (roughly the cost of delivering in London gold purchased in New York). The nominal share of the United States in Gold Pool sales was 60 percent; in fact, the share was larger because other central banks converted the dollar proceeds of their Gold Pool sales at the Treasury's gold window in order to replenish their gold stocks. Although the Gold Pool later became a gold-buying as well as gold-selling syndicate, most of its transactions were sales;

^{3.} The ESF had an initial capital of \$2 billion derived from the proceeds of the 1934 revaluation of the U.S. gold stock from \$20.67 to \$35.00 per ounce. Subsequently, the Bretton Woods Agreements Act directed the Secretary of the Treasury to pay \$1.8 billion from the ESF for the U.S. quota subscription in the IMF, thereby reducing the ESF's appropriated capital to \$200 million. The ESF grew over time through subsequent revaluations of gold, interest receipts, and net profits resulting from foreign exchange operations. Beginning in 1978, SDRs allocated by the IMF to the United States or otherwise acquired by the United States became resources of the ESF, and the ESF was authorized to issue SDR certificates to the Federal Reserve to help finance the ESF's foreign currency operations.

given the large U.S. share in the pool, in the end these sales played a major role in the decline in U.S. gold reserves. Ultimately, in March 1968, the Gold Pool was closed, and a two-tier market for gold was adopted with a fixed price for official transactions and a flexible price in the private market. The United States continued to sell gold to foreign monetary authorities at \$35 an ounce, and they, in turn, agreed not to sell gold in the private market.

Freeing Gold for International Settlement. The amount of U.S. gold reserves that were "free," or available for transactions with foreign monetary authorities, was limited by the legal requirement that U.S. monetary authorities hold gold equal to 25 percent of the value of domestic currency as backing for the currency. In a third approach to protecting the U.S. gold stock, this gold cover was repealed, also in March 1968, freeing up additional gold reserves for international settlement.⁴

Redressing the Balance of Payments. The fourth approach used to protect the U.S. gold stock was to redress the balance of payments deficit, both directly through commercial policies and capital controls and indirectly through demand-management policies. Devaluation of the dollar was ruled out by U.S. policy and could not be accomplished unilaterally in any case under the Bretton Woods system.

A sharp deterioration in the U.S. current account, which recorded a deficit in 1959, prompted the United States to tie its foreign aid to its exports and played some role in the adoption of more restrictive monetary and fiscal policies in that year. As the economy entered a recession in 1960, the current account returned to surplus, but the United States continued to run deficits in its balance of payments as a result of capital outflows. During the Kennedy Administration, fiscal policy was directed toward stimu-

lating growth, and monetary policy emphasized redressing the capital outflow. In 1961, debtmanagement and monetary policies sought to sustain short-term interest rates while allowing long-term rates to decline. This policy, called Operation Twist, was aimed at discouraging capital outflows while encouraging business and residential investment. The investment tax credit, introduced in October 1962, was designed to boost investment without lowering long-term interest rates and possibly exacerbating capital outflows. In 1963, tax rates were reduced, and the Federal Reserve increased its discount rate in July from 3 to 3½ percent "to minimize shortterm capital outflows prompted by higher interest rates prevalent in other countries."

In addition, a comprehensive program of capital controls was adopted, which targeted the three main types of capital outflow: American portfolio and direct investment abroad, particularly in Western Europe and Japan, and foreign borrowing in the United States. The interest equalization tax, initiated in 1963, was a reaction to the growing issuance of foreign bonds in the United States: Markets for these issues were developing slowly in other countries, and interest rates were lower in the United States than abroad. The tax was designed to curtail sales of new issues of stocks and bonds by foreigners to U.S. residents. The Federal Reserve's Voluntary Foreign Credit Restraint Program, established in 1965, was intended to limit funding in the United States of U.S. banks' foreign operations. 5 U.S. funding of direct foreign investment by U.S. corporations was limited by a Commerce Department program, begun on a voluntary basis in 1965 but made mandatory in 1968.

Creating a New Reserve Asset. While trying to remedy the payments deficit, U.S. policymakers recognized the need for a systematic means to provide for growth in international liquidity without putting pressure on the role of the dollar in the international monetary system. An expand-

^{4.} The Gold Reserve Act of 1934 required 40 percent gold cover on Federal Reserve notes in circulation and 35 percent cover on deposits at Federal Reserve Banks. In 1945, these requirements were reduced to a uniform 25 percent. In March 1965, the 25 percent gold cover on deposits at Federal Reserve Banks was eliminated.

^{5.} As a traditional borrower in U.S. markets, Canada was exempted from both the interest equalization tax and the Voluntary Foreign Credit Restraint Program on the understanding that it would not serve as a conduit for capital flows to the rest of the world.

ing world economy could be expected to generate a secular increase in the demand for international reserves-dollars and gold. That demand had been met through the early 1960s by a buildup of official claims on the United States as foreign monetary authorities intervened to maintain the value of their currencies against the dollar. Gold and foreign exchange reserves of the foreign G-10 countries tripled over the Bretton Woods period, as chart I shows. Most of the growth reflects an increase in foreign exchange (essentially dollars), which, as is evident from the chart, was not matched by a rise in the U.S. gold stock. Hence, confidence in the ability of the United States to meet calls on the gold stock diminished. Thus, reliance solely on increases in U.S. liabilities to foreign official institutions for an increase in world reserves was seen to be inconsistent in the long run with maintaining the convertibility of the dollar into gold.

In light of this fundamental tension, the final approach to protecting the U.S. gold stock and the stability of the Bretton Woods system was to create a reserve asset whose supply could be systematically increased as the world economy expanded. This approach was proposed by the United States and eventually resulted in an agreement to create SDRs (Special Drawing Rights of the International Monetary Fund) through the First Amendment to the IMF Articles of Agreement, which was adopted in 1968 and became effective the following year. The first allocation of SDRs was made in January 1970.

Major Episodes and U.S. Responses

Responding to the strains that divergent macroeconomic policies, structural changes in the world economy, and resulting payments imbalances placed on the Bretton Woods system, monetary authorities devalued and revalued currencies or on occasion allowed them to float. The United States generally welcomed revaluations but considered devaluations appropriate only if they were unavoidable. However, when sterling came under pressure intermittently in 1964–67, the United States was concerned that the devaluation of the other major reserve currency would exert substantial market pressure on the dollar.

During the summer of 1964, the U.K. balance of payments deteriorated sharply, largely because of a stimulative fiscal policy. After the Labor Party's victory in October 1964, selling pressure on sterling intensified as the new government's policies showed little prospect for redressing the payments deficit. The U.K. government strongly opposed the devaluation of sterling. The United States endorsed this position and participated in international credit packages to bolster U.K. reserves, including increases in the Federal Reserve's swap line with the Bank of England in 1964 and 1966. When sterling again came under downward pressure in the second half of 1965, the Federal Reserve joined a number of European central banks and the Bank of Japan in purchasing sterling in the market. Exchange rate risk on the sterling acquired was covered by agreements with the Bank of England.

After intermittent recoveries and bouts of selling pressure, sterling again came under persistent downward pressure beginning in the spring of 1967, for several reasons: U.K. monetary policy eased; tensions mounted in the Middle East culminating in war; and the U.K. trade position steadily deteriorated, especially after the closing of the Suez Canal. In an effort to support sterling, U.S. authorities purchased it in the market on a swap basis (that is, they bought sterling spot against redelivery to the market at a future date). After several increases in the Bank of England's official lending rate failed to relieve the pressure on sterling, the U.K. authorities devalued the pound in November 1967. No major country followed the United Kingdom in devaluing: nonetheless, the devaluation of sterling brought into question the basic premise of the Bretton Woods system that par values of reserve currencies should be regarded as fixed.

By late 1967, U.S. inflation had risen, and the balance of payments had worsened as a consequence of the economic expansion associated with the Vietnam War. Rapid advances in Japan's international competitiveness, following its postwar reconstruction, exacerbated the U.S. payments imbalance. In this context, selling pressure shifted from sterling to the dollar. The pressure took the form of record private purchases of gold in London and shifts of private funds from dollars into continental currencies.

The United States reaffirmed its commitment to maintain the official price of gold at \$35 per ounce and, acting jointly with other members of the Gold Pool, continued to stabilize the market price through sales in the London market. The Federal Reserve also enlarged its swap lines, which were used to absorb some of the dollars flowing to foreign central banks; and to a limited extent it sold foreign currencies forward to the market. However, heavy sales of gold by members of the Gold Pool tended to encourage further speculative buying as market participants came to expect that, given the implied loss of gold, these operations would be abandoned. Indeed, the Gold Pool was disbanded in March 1968, and the two-tier pricing system was established.

Continued deterioration in the U.S. trade and current accounts was offset in 1969 by increases in U.S. monetary restraint, which supported the dollar. However, once U.S. monetary conditions eased as domestic economic activity slowed, the deterioration in the external accounts again came to the fore, and by 1971 the dollar came under heavy selling pressure. U.S. authorities responded initially with limited forward sales of foreign currencies and swap drawings to mop up part of the purchases of dollars by foreign central banks. Some foreign countries, notably Germany, abandoned parities and began to allow their currencies to float in May 1971. After selling pressure on the dollar intensified and foreign central banks stepped up their demands for gold conversions, President Nixon, on August 15, 1971, suspended convertibility of dollars into gold or other reserve assets for foreign monetary authorities. He also announced a temporary 10 percent surcharge on imports to ensure "that American products will not be at a disadvantage because of unfair exchange rates" and a 10 percent tax credit to businesses that invested in American-made equipment (the job development credit). Use of the Federal Reserve swap network was suspended after the closing of the gold window. Foreign authorities then had the choice of continuing to pile up dollars in their official reserves that were now inconvertible into gold or allowing their currencies to appreciate. The United States no longer intervened in the market to support the dollar. By the end of August, all major currencies except the French franc were floating. The use of exchange

controls in foreign countries proliferated, and intervention by foreign central banks to slow the appreciation of their currencies against the dollar was substantial, even though they were no longer defending fixed dollar parities.

A system of fixed parities among the currencies of the G-10 countries was re-established through a negotiated realignment of exchange rates in the Smithsonian Agreement of December 1971. The dollar was devalued in terms of gold to \$38 per ounce; other currencies generally were revalued against the dollar by varying amounts. These changes in parities resulted in an effective devaluation of the dollar of nearly 10 percent on average against the other G-10 currencies. The amount of the devaluation fell short of the best U.S. government estimates of what would be required to restore the U.S. external position to a sustainable balance. Other G-10 countries, however, would not agree to a larger devaluation of the dollar. Recognizing that somewhat more flexibility in exchange rates was desirable, the G-10 authorities widened the margins for intervention to 21/4 percent to permit small adjustments in exchange rates without changes in par values. The United States made no commitment to defend the Smithsonian parity for the dollar through intervention or to restore the convertibility of the dollar into gold: Intervention was still left to foreign monetary authorities if they wanted to maintain their new parities. The United States did agree to examine the case for a more thorough reform of the international monetary system, which led to the establishment in 1972 of the Committee on Reform of the International Monetary System and Related Issues (the Committee of Twenty, or C-20). It also terminated the import surcharge and the job development credit.

As downward pressure on the dollar continued after the Smithsonian Agreement, and the United States refrained from intervening to defend the dollar, market participants began to doubt that foreign monetary authorities would continue to buy inconvertible dollars. As selling pressure on the dollar mounted, the United States, in July 1972, resumed limited sales of foreign currencies to defend the dollar's Smithsonian parities, and the swap network was reactivated.

New concerns about the durability of the Smithsonian Agreement surfaced in early 1973,

after the Swiss authorities permitted their currencies to float and Italian authorities adopted dual exchange rates. (The United Kingdom had already allowed sterling to float, in June 1972.) In this context, a tightening of monetary policies abroad, the partial relaxation of the U.S. wageprice controls imposed in August 1971, and the sluggish response of the U.S. trade account to the dollar's depreciation in the Smithsonian realignment helped renew downward pressure on the dollar. In February 1973, the dollar was devalued a second time, by 10 percent in terms of gold to \$42.22 per ounce. Nearly all other major currencies accepted the full devaluation of the dollar, and the yen floated to an even higher level. At the same time the dollar was devalued, U.S. authorities stated their intention to phase out all controls on capital outflows over the next two years.6 They expected that the second devaluation of the dollar would be sufficient to remedy the disequilibrium in the U.S. balance of payments, but the market was not persuaded. The dollar fell to its new floor against the major continental European currencies, a development that triggered massive intervention by some foreign central banks. Ultimately, in March, the system of fixed parities effectively was suspended, and the G-10 authorities de facto adopted generalized floating of their exchange rates.

MANAGED FLOATING: MARCH 1973 TO DATE

Initially, the move to generalized floating was widely viewed as a temporary means of coping with speculative pressures, rather than as a permanent feature of the international monetary system. In the discussions of the Committee of Twenty, the par value system still was regarded as the "normal" regime, and "the task of monetary reform was viewed as one of improving the Bretton Woods system so that it would operate without frequent crises, and in a more symmetrical fashion" than previously, "to facilitate the

continued expansion of international trade and productive capital flows."

Although some issues were never completely resolved, the Committee of Twenty described a reformed monetary system in its *Outline for Monetary Reform* issued in June 1974. The system had five broad features:

- 1. An exchange rate regime based on stable but adjustable par values. It would include the right to float in particular situations, subject to Fund authorization.
- 2. A greater symmetry in adjustments to the balance of payments. Under the old system, a country in deficit that was losing reserves was pushed more quickly than a country in surplus to deal with its balance of payments problem, either through demand-management policy, or by adjusting the par value of its currency. The U.S. authorities, in particular, believed that because the exchange rate parities of other currencies were defined in terms of the dollar so that the dollar was the residual currency, other countries were allowed to maintain undervalued currencies and accumulate payments surpluses, while the United States ran deficits. As a means of remedying this asymmetry, countries in surplus would now have a larger responsibility for correcting their payments positions.
- 3. Multilateral surveillance. In the context of a par value system in which convertibility could be suspended, the United States favored an international reserve indicator as an objective gauge of whether a country's policies were consistent with overall equilibrium in the balance of payments and with adequate growth in global liquidity (at existing par values). The use of this indicator was thought to put more pressure on countries in surplus to adjust.
- 4. Convertibility. European authorities focused on the lack of mandatory convertibility of dollars under the Bretton Woods system and believed that if the United States were required to finance its payments deficits with reserve assets (gold, SDRs, and Fund drawings), it would have a greater incentive to adopt policies to eliminate its deficits. The United States wanted to limit the

^{6.} U.S. capital controls were dismantled in early 1974.

^{7.} Robert Solomon, The International Monetary System 1945-1981, rev. ed. (Harper & Row, 1982).

convertibility of dollars beyond a certain point for surplus countries as a means of encouraging a more symmetric adjustment of payments imbalances.

5. Better international management of global liquidity. The SDR would become the principal reserve asset, and the role of gold and reserve currencies would be reduced.

Meanwhile, the increase in worldwide inflation in 1972–74, associated in part with the runup in oil prices in 1973, led to a divergence in rates of inflation across countries and increased strains on countries' external positions; these problems were aggravated by the worldwide recession in 1974–75. Under these circumstances, a system of par values seemed even less viable than before. Moreover, the world economy had been functioning reasonably well under a mixed floating system for a few years. The United States shifted from favoring a system of stable, but adjustable par values, with floating in particular situations, to explicitly advocating a system of floating exchange rates as a long-run option.

The Committee of Twenty recognized that the international monetary system was in flux and that it might be particularly difficult in the circumstances of the time to return to a par value system. However, it recommended the immediate adoption in the interim of "appropriate guidelines for the management of floating exchange rates." These were agreed to in 1974, though many of the rest of the committee's recommendations were not adopted because there was never a return to a par value system.

Floating was finally legitimatized at the Rambouillet Economic Summit among the major industrial countries in November 1975. The agreement reached there, which had been worked out in advance between the representatives of the United States and France, had two basic elements. The first was to "deepen, systematize, and broaden" daily consultation among the monetary authorities, including central banks, of the larger countries with regard to exchange market intervention. Second, Article IV of the IMF's Articles of Agreement, governing exchange arrangements, was to be revised to permit a member to choose its own exchange arrangements-including floating. Under the revised article, completed in 1976, a return to a generalized par value system, if deemed appropriate, requires an 85 percent majority vote of the IMF membership, effectively giving the United States a veto over such a move.

Article IV also provides for surveillance over the Fund's members to ensure effective operation of the international monetary system and compliance with members' general obligations, which include (1) "endeavoring to direct economic and financial policies toward . . . fostering orderly economic growth with reasonable price stability;" (2) "fostering orderly economic and financial conditions and a monetary system that does not tend to produce erratic disruptions;" and (3) "avoiding manipulating exchange rates or the international monetary system in order to prevent effective balance of payments adjustment or to gain an unfair competitive advantage over other members." This new Article IV was incorporated, along with a number of other significant changes, in the Second Amendment of the IMF's Articles of Agreement, which became effective April 1, 1978.

Broad Objectives of U.S. Exchange Rate Policy

In conjunction with the decision in March 1973 to suspend the commitment to intervene in support of fixed parities against the dollar, the G-10 countries issued a communiqué stating that "official intervention may be useful at appropriate times, to facilitate the maintenance of orderly market conditions" (emphasis added). An eventual return to a par value system was assumed, and intervention was viewed as a way to maintain order in the interim. Subsequently, as a system of floating exchange rates came to be regarded as the norm, the statement about intervention in the Rambouillet Declaration was changed to "countering disorderly market conditions" (emphasis added). The Rambouillet formulation was repeated in the IMF's Principles for the Guidance of Members' Exchange Rate Policies.8 This concept has since guided U.S.

^{8.} International Monetary Fund, Selected Decisions and Selected Documents, Fourteenth Issue (IMF, April 30, 1989). These principles, first adopted in April 1977, specify that "(1) A member shall avoid manipulating exchange rates or the international monetary system in order to prevent effective balance of payments adjustment or to gain an unfair

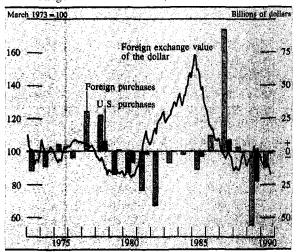
exchange rate policy and appears in both the U.S. notification to the IMF of its exchange arrangements and the FOMC's Foreign Currency Directive.⁹

A precise official definition of "disorderly market conditions" has never been attempted. In a narrow sense, the phrase has been understood to mean market disruptions of very short duration. In a broader sense, the phrase has referred to episodes in which policymakers deem market exchange rates to be clearly out of line with economic fundamentals. In his testimony before the Joint Economic Committee in January 1989, Alan Greenspan, the Chairman of the Federal Reserve Board, interpreted the phrase "countering disorderly market conditions" as fostering exchange rate stability, consistent with understandings among the Group of Seven (G-7) countries.

Operational Objectives and Approaches

Since 1973, the frequency and size of U.S. foreign exchange operations have varied, as chart 2 illustrates. Intervention was substantial in 1977-79, when the dollar was deemed unacceptably low. U.S. operations were minimal during the first Reagan Administration, in line with its policy of limiting government interference in markets generally; they were directed mainly at countering short-run market disruptions. Intervention was substantial again in the autumn of 1985, when the dollar was regarded as unacceptably high. By far the most extensive U.S. intervention operations, however, have taken place since the Louvre Accord of February 1987; since then U.S. operations have been guided largely by informal understandings with the other G-7 countries about the limits of tolerance for exchange

2. Net official purchases of dollars and the foreign exchange value of the dollar, 1973-90



Net official foreign purchases of dollars are those by thirteen major foreign countries. The foreign exchange value of the dollar is its weighted average against the currencies of the foreign G-10 countries; the weights used are total trade for 1972-76. This series is plotted monthly. The 1990 data for both series are for the first seven months.

rate fluctuations. Throughout the floating-rate period, other countries' intervention policies have been mixed, with some countries adopting a consistently more active policy than the United States.

Although episodes of U.S. intervention have been relatively infrequent since 1973, the amounts involved sometimes have been sizable. Accordingly, the United States at times has taken steps to increase foreign currency resources for intervention, particularly when the dollar was under sustained downward pressure. The overall size of the Federal Reserve's swap lines with other central banks was enlarged. A new swap line between the ESF and the Bundesbank was established in early 1978, and the ESF became an active partner in the financing of intervention at that time. During 1978, the Treasury sold SDRs for foreign currency, drew on its reserve position at the IMF, and began to issue securities denominated in foreign currencies in the private market ("Carter bonds"). In late 1980, U.S. authorities for the first time began to build up substantial foreign currency reserves through purchases in the market and from other central banks, after having first covered outstanding foreign currency liabilities.

competitive advantage over other members. (2) A member should intervene in the exchange market if necessary to counter disorderly conditions which may be characterized inter alia by disruptive short-term movements in the exchange value of its currency. (3) Members should take into account in their intervention policies the interests of other members, including those of the countries in whose currencies they intervene."

^{9.} The U.S. notification to the IMF was amended following the Plaza Agreement of September 1985 to provide for intervention "to counter disorderly market conditions, or when otherwise deemed appropriate."

During times when the dollar's exchange value raised particular concern—in 1977–79, 1984–85, and 1987—it became a significant factor in Federal Reserve decisions regarding monetary policy. Furthermore, consultation and cooperation on macroeconomic policies by the major industrial countries have increased over the floatingrate era amid a growing perception that the existing international monetary arrangements have not exerted as much equilibrating influence on payments imbalances, or provided as much independence for monetary policies, as had been hoped. Wide swings in exchange rates have occurred, contributing to large trade imbalances and resource reallocations, and pointing up the need for more compatible policies among the major countries.

Major Episodes and U.S. Responses

The first time U.S. authorities intervened following the adoption of generalized floating was in July 1973. Concern over rising U.S. inflation, forecasts of vastly higher energy imports, and the potential ramifications of the Watergate affair weighed on the dollar; at the same time, a tightening of German monetary policy supported the mark and associated European currencies. As the dollar fell, trading became increasingly disorderly, with many banks refusing to quote rates. In these circumstances, U.S. authorities intervened to counter disorderly conditions in the markets.

The scale of operations was expanded a bit in the winter of 1974-75. Inflation in the United States was still worrisome, whereas price pressures in many other industrialized countries were abating. Though worldwide, the recession was most severe in the United States. The Federal Reserve had begun to ease money market conditions in the autumn of 1974, and the federal funds rate plummeted from 13 percent in July 1974 to 5% percent in March 1975. With interest differentials between dollar and foreign currency assets eroding, the dollar depreciated. U.S. authorities intervened at first to cushion the dollar's decline. In mid-January 1975, they became more concerned with the dollar's progressive slippage, and stepped up intervention in support of the dollar in concert with the central banks of Germany and Switzerland. Between October 1974 and March 1975, U.S. authorities made gross purchases of \$1.4 billion, and the central banks of Germany and Switzerland made somewhat larger dollar purchases. The dollar did not recover until March, when U.S. interest rates stabilized while foreign interest rates declined.

The first sustained period of U.S. intervention under the floating-rate regime occurred in 1977-79. By 1977, rapid growth in U.S. domestic demand had contributed to a deterioration of the U.S. current account balance, which swung from a surplus of more than \$4 billion in 1976 to a deficit of more than \$14 billion in 1977; it had also contributed to a pick-up in inflation to nearly 7 percent (December to December), up from 5 percent in the previous twelve months. Shortterm interest rates in the United States rose during 1977, and the Federal Reserve raised its discount rate twice by year-end. But, with M1 expanding at a rate well beyond the upper limit of the target range set by the FOMC, the perception in exchange markets was that the Federal Reserve was too slow in responding to inflationary pressures. These conditions contrasted with those in Germany and Japan, where a more rapid policy response to inflationary pressures resulted in slower economic growth, contributing to surpluses in current accounts.

As the depreciation of the dollar intensified around the turn of the year, the Federal Reserve responded by raising its discount rate in January 1978 to 61/2 percent, citing developments in foreign exchange markets. However, the pace of U.S. inflation quickened to 9 percent in 1978, in part reflecting the past depreciation of the dollar; meanwhile, inflation in the other G-10 countries, on average, declined-from 51/2 percent in 1975 to slightly more than 4 percent in 1978. Efforts to reduce the U.S. trade deficit by curbing oil imports also were unsuccessful. The Federal Reserve engineered further firming in money market conditions through the spring and summer, but the growth of M1 still exceeded its targeted range and the dollar continued to fall. Noting both disorderly conditions in exchange markets and the serious U.S. inflation problem, the Federal Reserve in August 1978 raised its discount rate ½ percentage point further to 7¾ percent. This move and subsequent increases in

the autumn provided only temporary support for the dollar. Between May and October 1978, President Carter announced a series of measures to fight inflation, including delays and reductions in the amount of scheduled tax cuts, budgetary restraints, and voluntary wage-price guidelines. Following the announcement of the last two measures in October, the dollar tumbled still further, hitting on October 30 a record low on the trade-weighted index compiled by the Federal Reserve Board staff. Two days later, a dollardefense package was announced. It included a further hike in the discount rate by an unprecedented full percentage point, to a then historic high of 9½ percent. In unveiling the package, President Carter stated that "the continuing decline in the exchange value of the dollar is clearly not warranted by the fundamental economic situation" and "as a major step in the anti-inflation program, it is now necessary to correct the excessive decline in the dollar.'

During 1977-79, U.S. authorities also took steps to bolster their resources for intervention. In December 1977, the President announced an explicit undertaking to intervene in concert with other countries to support the dollar. In January 1978, the Treasury stated that the ESF would henceforth be used as an active partner in the financing of intervention, and that a new swap line with the Bundesbank had been established. Furthermore, in March, the Federal Reserve's swap line with the Bundesbank was doubled, and the Treasury sold SDRs to the German central bank for marks. The Treasury also indicated that it was prepared to draw on its reserve position at the IMF to acquire foreign currencies. To further support the dollar, the Treasury announced in May that it would resume auctioning gold to the public.¹⁰ Finally, as part of the November 1, 1978, dollar-defense program, a \$30 billion package of foreign currency resources to finance U.S. intervention in cooperation with foreign authorities was put together. It consisted of an increase in Federal Reserve swap lines with the central banks of Germany, Japan, and Switzerland; sales

of SDRs; a drawing on the U.S. reserve position at the IMF by the Treasury; and issuance of Carter bonds.¹¹

With these resources, U.S. authorities intervened aggressively, sometimes in concert with other central banks. Net official purchases by U.S. authorities in the market from October 1977 through the end of 1978 amounted to about \$10 billion, while foreign authorities bought about \$37 billion. In 1978, the major central banks more than financed the current account deficit, with net official purchases more than double the \$15 billion deficit.

In the first half of 1979, the dollar recovered somewhat, but by mid-June it came under renewed selling pressure. The second oil-price shock in 1979 added substantial upward pressure to price levels worldwide and restricted output. In the United States, these problems were acute: Inflation already was more rapid than in most foreign economies, and the data pointed to a slowdown in economic activity. In contrast, foreign economic growth had not yet begun to decline, with German and Japanese authorities having committed themselves to stimulative fiscal packages at the Bonn Economic Summit in the summer of 1978. Policymakers in most foreign countries responded to the hike in oil prices by tightening monetary conditions, but the Federal Reserve, responding to signs of weakness in the U.S. economy, took less vigorous steps, raising its discount rate 1½ percentage points in three moves in the third quarter of 1979. Nevertheless, the growth of U.S. monetary aggregates remained well above projected rates during the summer of 1979. Furthermore, U.S. energy policy was widely regarded in exchange markets as being in disarray. The subsequent shake-up of the Carter cabinet raised concerns in exchange markets about political leadership as well. Under these circumstances, U.S. authorities intervened substantially during the summer of 1979 to resist the dollar's decline.

The continued weakness in the dollar and other signs of rapidly deteriorating inflation ex-

^{10.} The U.S. Treasury had auctioned a small amount of gold—1.3 million ounces—during 1975-77 to underline the U.S. policy position that gold was no longer a monetary asset and should be treated like any other commodity.

^{11.} In 1978, the FOMC extended the warehousing facility to include the U.S. Treasury's General Fund, which used the warehousing facility for the proceeds of the Carter bonds.

pectations, including sharply rising prices of gold and other commodities, were important considerations in the adoption of new monetary operating procedures by the Federal Reserve on October 6, 1979. The shift in operating procedures entailed a greater emphasis on the control of banks' nonborrowed reserves and, therefore, less control of the federal funds rate. These procedures were intended to assure better control over the growth of the monetary aggregates and, in general, to damp inflationary pressures. The Federal Reserve also increased its discount rate a full percentage point to 12 percent and imposed a supplemental reserve requirement on banks' managed liabilities.

Following the change in operating procedures, U.S. interest rates rose sharply, but political developments in late 1979 weighed on the dollar. These included the taking of U.S. hostages by Iranian militants, the threat by Iranian authorities to withdraw funds from U.S. banks, the freezing of Iranian assets in U.S. banks, and the Soviet invasion of Afghanistan.

During the first quarter of 1980, the dollar strengthened. The demand for money and credit was increasing rapidly: Inflationary expectations were mounting, as increases in consumer prices topped 14 percent in the year ending in March 1980; and financial markets were anxious about the Carter Administration's economic policies, including the imposition of credit controls in March. The Federal Reserve continued to restrain the growth of nonborrowed reserves, and interest rates in the United States soared, with the federal funds rate increasing nearly 4 percentage points, in barely four months, from 13³/₄ percent in December 1979 to 175% percent in April. U.S. authorities took advantage of the dollar's rebound to acquire foreign currencies to repay debt incurred as a result of dollar-support operations in 1978–79.

Subsequently, as economic activity in the United States contracted sharply in the second quarter of 1980, short-term interest rates in the United States plummeted. Between April and July, the federal funds rate fell more than 8 percentage points, prompting a sharp decline in the dollar. During this period U.S. authorities intervened heavily to slow the dollar's fall.

By September 1980, the dollar began to

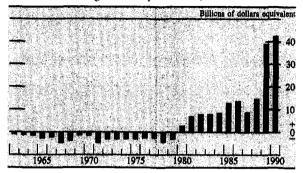
strengthen as the U.S. economy performed favorably compared with other economies. Inflation in the United States had begun to wane, while in several other countries, especially the traditionally low-inflation countries of Europe, it remained high relative to postwar experience. The U.S. economy also showed more resilience, bouncing back from the sharp downturn in the second quarter of 1980; output in most European economies stagnated and unemployment increased. As the U.S. economy rebounded and the Federal Reserve continued to emphasize nonborrowed reserves, interest rate differentials moved sharply in favor of dollar assets. Two additional factors lent further support to the dollar later that fall: The election of Ronald Reagan suggested to the market a political commitment to bringing down inflation; and the global pattern of external balances shifted in favor of the United States. The U.S. current account swung into surplus in the second half of 1980, reflecting a strong improvement in non-oil trade as a result of the past depreciation of the dollar.

In the fall of 1980, U.S. monetary authorities still had outstanding foreign currency obligations in the form of swap debt and maturing Carter bonds to cover. As the dollar began to strengthen, they purchased the foreign currencies needed to cover those obligations when they judged that doing so would not depress the dollar.

Even after the outstanding obligations were covered, U.S. authorities continued to purchase foreign currencies to build up U.S. foreign currency reserves. Before this time, the Federal Reserve and the Treasury had had essentially no long-term net asset position in foreign currencies (see chart 3). U.S. authorities decided to acquire foreign currency balances to avoid having to finance intervention by incurring swap debts with sometimes reluctant foreign monetary authorities. In addition, they judged that the dollar's strength could well be temporary. The dollar had been supported primarily by unusually favorable interest differentials and, in an environment of volatile interest rates, these might narrow, putting downward pressure on the dollar.

The Federal Reserve and the Treasury intervened in this manner from October 1980 through

3. U.S. net foreign currency balances, 1962-90



Foreign currency balances are valued at historical cost. The data are for the end of the periods, except the datum for 1990, which is for the end of July.

mid-February 1981, purchasing nearly \$7 billion equivalent of German marks and small amounts of Swiss francs and French francs. As of February 1981, their combined net position in foreign currencies (marks, yen, and Swiss francs) was \$6 billion equivalent. This position compares with net foreign currency liabilities that peaked at \$3.5 billion equivalent (valued at February 1981 exchange rates) in September 1979.

In early 1981, the new Reagan Administration decided to move away from what it judged to have been the heavy intervention inherited from the previous administration. This decision reflected the view that exchange rates were the product of economic policies and that a "convergence" of economic policies was the way to stabilize exchange rates, a view consistent with the Administration's general desire to minimize government interference in markets. Testifying before the Joint Economic Committee of the U.S. Congress on May 4, 1981, then Undersecretary of the Treasury Beryl Sprinkel described the new Administration's exchange market policy as "a return to fundamentals" by "concentrating on strengthening and stabilizing the domestic economic factors which have undermined the dollar during the last decade or so." In conjunction with the emphasis on economic fundamentals, Undersecretary Sprinkel stated that the Administration intended to "return to the more limited pre-1978 concept of intervention by intervening only when necessary to counter conditions of disorder in the market." He anticipated little need for U.S. intervention in light of the President's proposed program of incentiveenhancing tax cuts and deregulation and in light

of the Federal Reserve's policy of gradually reducing money growth to noninflationary levels.

From 1981 through early 1985, the dollar continued to strengthen, for several reasons. U.S. monetary conditions were restrictive in the context of a robust recovery, and prospects for continued large U.S. fiscal deficits exerted upward pressure on real interest rates. Meanwhile, monetary authorities abroad initially were reluctant to raise interest rates because their recoveries appeared more fragile. Investment, including foreign investment, boomed in the United States, attracted by the increasingly favorable business climate. In addition, dollar-denominated assets were sought as a "safe haven" following the onset of the international debt crisis and amid apprehensions about the political situations in some European countries.

U.S. intervention operations from April 1981 through 1984 were very limited, occurring on only twenty days, in line with the Administration's view that the strong dollar was an indication of the robust U.S. economy and not a cause for concern. Moreover, most of these operations were undertaken at the urging of foreign monetary authorities. On net, U.S. authorities sold \$750 million against marks and yen during this period.

Some European monetary authorities who favored more active management of exchange rates objected to the U.S. policy of "nonintervention." In this context, the G-7 Economic Summit at Versailles in June 1982, agreed to establish a working group (the Jurgensen Group) to study the effectiveness of intervention in foreign exchange markets.¹²

By mid-1984, however, the dollar had risen nearly 60 percent on average against the other G-10 currencies from its level in the fourth quar-

^{12.} Paragraph 38 of the Jurgensen report concludes that "intervention had been an effective tool in the pursuit of certain exchange rate objectives—notably those oriented towards influencing the behavior of the exchange rate in the short run. There was also broad agreement that sterilized intervention [intervention that leaves the monetary base unchanged] did not generally have a lasting effect, but that intervention in conjunction with domestic policy changes did have a more durable impact. At the same time it was recognized that attempts to pursue exchange rate objectives which were inconsistent with the fundamentals through intervention alone tended to be counterproductive."

ter of 1980, and its strength concerned some U.S. policymakers. Concern was expressed in FOMC meetings, among other forums, about the implications of the strong dollar for the U.S. manufacturing sector and about the consequences for inflation should the dollar drop precipitously. These considerations were among the arguments leading to an adoption of an easier monetary stance in mid-1984.

As the dollar continued to rise, the second Reagan Administration began to reverse its policy of nonintervention in currency markets. Group of Five (G-5) officials, meeting on January 22, 1985, issued a statement reaffirming their commitment to promote the convergence of economic policies, to remove structural rigidities, and (as agreed at the Williamsburg Economic Summit of April 1983) to undertake coordinated intervention in exchange markets as necessary. Subsequently, in coordinated operations with other central banks, U.S. authorities sold about \$650 million between January and March 1985.

Although the dollar had started to decline by late February, that decline had not yet had time to produce an improvement in the U.S. trade deficit. So, protectionist sentiment in the United States mounted as the trade deficit swelled to an annual rate of \$120 billion in the summer of 1985. In part to deflect protectionist legislation, U.S. officials arranged a meeting of G-5 officials at the Plaza Hotel in New York on September 22 with the purpose of ratifying an initiative to bring about an orderly decline in the dollar. In their statement, G-5 officials drew attention to the significant progress that had been made in promoting favorable economic performance along a path of steady noninflationary growth. Yet, they observed, "recent shifts in fundamental economic conditions among their countries, together with policy commitments for the future, have not been fully reflected in exchange markets." Large imbalances in external positions were noted, along with the potentially "mutually destructive" protectionism they might engender. The statement concluded:

The Ministers and Governors agreed that exchange rates should play a role in adjusting external imbalances. In order to do this, exchange rates should better reflect fundamental

economic conditions than has been the case. They believe that agreed policy actions must be implemented and reinforced to improve the fundamentals further, and that in view of the present and prospective changes in fundamentals, some further orderly appreciation of the main non-dollar currencies against the dollar is desirable. They stand ready to cooperate more closely to encourage this when to do so would be helpful.

This statement that exchange rates were out of line with economic fundamentals represented a sharp reversal of the U.S. Administration's previous stance.

Although intervention in exchange markets was not explicitly mentioned, the last sentence of the G-5 statement quoted above encompassed it. During the seven weeks following the Plaza Accord, G-5 authorities sold nearly \$9 billion, of which the United States sold \$3.3 billion.

With respect to policy intentions, the communiqué said little that was new. No commitments were made regarding U.S. monetary policy. However, Japanese government officials stated their intention to implement "flexible management of monetary policy with due attention to the yen [exchange] rate." Since the imbalance in external positions reflected, to some extent, the misalignment of fiscal policies, specific programs consistent with current policy intentions to reduce fiscal stimulus in the United States and increase it abroad were included in the statements. The United States promised to "implement fully the deficit reduction package for fiscal year 1986" specified in the Gramm-Rudman-Hollings act and indicated its intention to implement revenue-neutral tax reform. Japan agreed to increase investment by local governments, conditional on the circumstances of each region. The West German government stated its intention to continue its tax reform, with tax cuts due to take effect in 1986 and 1988. The United Kingdom and France each promised to curb public expenditure and to reduce tax burdens.

In reaction to the G-5 statement and subsequent intervention, the dollar fell sharply. Monetary tightening in Japan in late October provided further downward impetus for the dollar. By year-end the dollar had fallen 17 percent against the yen and 14 percent against the mark from its

levels just before the Plaza meeting, leaving it 24 and 29 percent respectively below its peaks in February.

Throughout this period, the Federal Reserve emphasized that, given the dependence of the United States on large capital inflows for the time being, underlying confidence in the dollar needed to be maintained. Although it believed that a precipitous fall in the dollar was only a remote possibility, it was concerned that, should it occur, it could force sharply higher interest rates and inflationary pressures, thereby threatening the financial system and the economy. In light of these considerations, the decisions to lower the Federal Reserve's discount rate in March and April 1986 were carefully coordinated with similar moves by other central banks. The March move coincided with reductions in official rates in Japan, Germany, France, and the Netherlands. Subsequently, the United Kingdom and several other countries in the European Monetary System cut their official rates. In April, the United States and Japan lowered their discount rates in tandem.

Formal procedures to improve G-7 policy coordination and strengthen multilateral surveillance were agreed to at the Tokyo Economic Summit in May 1986. In particular, a framework for the systematic consideration of national policies and performance was adopted, involving the use of economic indicators. According to the summit declaration, the purposes of improved coordination "should explicitly include . . . fostering greater stability of exchange rates." Although the United States supported improved coordination of macroeconomic policies to foster increased stability in exchange rates, U.S. authorities did not intervene in exchange markets in 1986 because the dollar's continued decline was regarded as orderly and not cause for concern. Japanese authorities, however, became quite concerned about the yen's appreciation, particularly in the runup to the national elections in Japan, and the Bank of Japan intervened quite heavily in support of the dollar in the spring and summer of 1986.

The dollar declined to seven-year lows in early 1987, amid signs that the U.S. economy might be weakening while the U.S. trade deficit continued to grow. Furthermore, various press statements attributed to U.S. Administration officials were

interpreted in exchange markets as indicating a lack of concern about the ramifications of a further decline in the dollar. In these circumstances, U.S. monetary authorities at the end of January intervened on one occasion in support of the dollar. This was the first operation in support of the dollar since mid-1980, except for small operations when President Reagan was shot in March 1981 and during the Continental Bank crisis in May 1984. It was conducted in coordination with the Bank of Japan.

On February 22, 1987, officials of the major industrial countries met at the Louvre in Paris. They concluded that "substantial exchange rate changes since the Plaza Agreement will increasingly contribute to reducing external imbalances and have now brought their currencies within ranges broadly consistent with underlying economic fundamentals." In addition, they expressed concern that "further substantial exchange rate shifts could damage growth and adjustment prospects in their countries." Therefore, they agreed to "cooperate closely to foster stability of exchange rates around current levels." In this regard, the G-7 authorities reached certain general understandings about the tolerable range of fluctuations in exchange rates for the dollar and about cooperation in exchange market operations.

No new commitments regarding monetary policy were made at the Louvre, although the Bank of Japan announced a reduction of a half percentage point in its discount rate effective the next day. Only two aspects of the agreements on fiscal policy represented new initiatives. Japan promised that "a comprehensive economic program will be prepared after the approval of the 1987 budget by the Diet, so as to stimulate domestic demand, with the prevailing economic situation duly taken into account." Germany agreed to "propose to increase the size of the tax reductions already enacted for 1988." On the U.S. side, the commitment to "policies with a view to reducing the fiscal 1988 deficit to 2.3 percent of GNP from its estimated level of 3.9 percent in fiscal year 1987" was consistent with the Gramm-Rudman-Hollings target, which in the event was not reached.

Despite heavy intervention purchases of dollars following the Louvre Accord, the dollar continued to decline, particularly against the yen. Market participants perceived delays in the implementation of expansionary fiscal measures in Japan expected after the Louvre Accord, and talk of trade sanctions on some Japanese products heightened concern about a deterioration in U.S.-Japanese trade relations. By the time of the G-7 meeting in early April, the dollar had fallen more than 5 percent against the yen from its level at the time of the Louvre Accord. At the April meeting, the G-7 officials "reaffirmed the view that around current levels their currencies are within ranges broadly consistent with economic fundamentals and the basic policy intentions outlined at the Louvre meeting." They urged further measures, however, to "resist rising protectionist pressures, sustain global economic expansion, and reduce trade imbalances." In this regard, they welcomed newly announced proposals by Japan for a large supplementary budget to stimulate the economy.

The dollar began to firm in May when monetary conditions tightened in the United States and eased abroad. In addition, the passage of the supplementary budget in Japan and more favorable U.S. trade data offered some optimism regarding adjustment of trade imbalances. But the dollar turned down again with the release of disappointing U.S. trade data in mid-August. Citing "the potential for greater inflation, associated in part with weakness in the dollar," the Federal Reserve raised its discount rate ½ percentage point to 6 percent in early September. However, record U.S. trade deficits and market perceptions that the G-7 authorities were pursuing their own domestic objectives soon sparked a further selloff of the dollar, and equity prices plunged worldwide. The dollar's decline gathered momentum once the Federal Reserve moved more aggressively than its foreign counterparts to supply liquidity in the aftermath of the stock market crash. The Federal Reserve's actions in this regard led market participants to believe that it would emphasize domestic objectives, if necessary at the cost of a further decline in the dollar. By year-end, the dollar's value had fallen 21 percent against the yen and 14 percent against the mark from its levels at the time of the Louvre Accord.

In these circumstances, G-7 officials reconvened by telephone in late December and

reached a new set of understandings about fluctuations in exchange rates and cooperation in exchange market operations. They stated 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 also reaffirmed their commitment to "cooperate closely on exchange markets." In addition, the agreements on fiscal policy measures contained in the Louvre Accord were extended to include policies for 1988.

Following the Louvre Accord, the G-7 authorities intervened heavily in support of the dollar throughout the episodes of dollar weakness in 1987, and sold dollars on several occasions when the dollar strengthened significantly. Net official dollar purchases by the G-7 and other major central banks effectively financed more than two-thirds of the \$144 billion U.S. current account deficit in 1987. The U.S. share of these purchases was \$8.5 billion, and the share of the other G-7 countries was \$82 billion.

The G-7 authorities continued to make large purchases of dollars into January 1988, and the dollar stabilized. Subsequently, the dollar strengthened as monetary conditions in the United States were tightened earlier than those abroad and U.S. external accounts improved. As some foreign authorities began to tighten monetary conditions and external adjustment stalled during the second half of 1988, the dollar eased back somewhat. For the year as a whole, the dollar appreciated moderately; U.S. authorities both bought and sold dollars, so that intervention was small on balance. When the dollar again strengthened in the first part of 1989, reaching a 2½-year high against the mark and threatening to undermine progress on external adjustment, the U.S. authorities became more active in selling dollars.

In September 1989, G-7 officials issued a communiqué stating that they "considered the rise in recent months of the dollar inconsistent with longer run fundamentals" and "agreed that a rise in the dollar above current levels or an excessive decline could adversely affect prospects for the world economy. In this context, they agreed to cooperate closely in exchange markets." The

release of this statement was followed by three weeks of coordinated intervention with the initial objective of lowering the dollar and the later objective of keeping the dollar lower. For 1989 as a whole, U.S. authorities sold \$22 billion net, by far the largest U.S. annual operation ever; other G-7 countries made net sales of \$43 billion.¹³ To facilitate these operations, the Treasury made extensive use of the warehousing facility with the Federal Reserve—its first use since the proceeds of the Carter bonds were unwound in 1982. Chiefly as a result of intervention, the combined Federal Reserve and Treasury net position in foreign currencies increased to \$38 billion equivalent at the end of 1989 valued at historical cost, as shown in chart 3.

During late 1989 and early 1990, the dollar's movements against the major currencies diverged. The opening of the Berlin Wall and subsequent steps toward unification of the two Germanys bolstered the mark, while political

uncertainty and concern in exchange markets that monetary policy in Japan was too lax depressed the yen. Consistent with G-7 understandings, U.S. authorities intervened in support of the yen in early 1990, buying more than \$2 billion equivalent of yen. The Bank of Japan also bought yen against dollars. As the yen continued to weaken nonetheless, G-7 officials—meeting in early April—issued a communiqué stating that they had discussed "developments in global financial markets, especially the decline of the ven against other currencies and its undesirable consequences for the global adjustment process and . . . reaffirmed their commitment to economic policy coordination, including cooperation in the exchange markets." In fact, there was little U.S. intervention in support of the yen after the communiqué was released. Concerns about Japanese monetary policy dissipated, and the yen recovered somewhat. Between May and July of 1990, in order to adjust balances of foreign currencies and to facilitate the retirement of a portion of the amounts of foreign currencies held by the Federal Reserve under its warehousing arrangements with the ESF, the Treasury liquidated \$2 billion equivalent of DM balances in ways that would not significantly influence prevailing exchange rates.

^{13.} The scale of U.S. intervention was much larger in 1989 than in 1977–79. However, somewhat larger operations probably are required to influence exchange rates now, because the size of the net open position of the private sector undoubtedly has increased during this period. Though there are no reliable measures of the latter, according to a survey by the Federal Reserve Bank of New York, the size of the U.S. market increased from an estimated average daily turnover of \$18 billion in 1980 to \$129 billion in 1989.

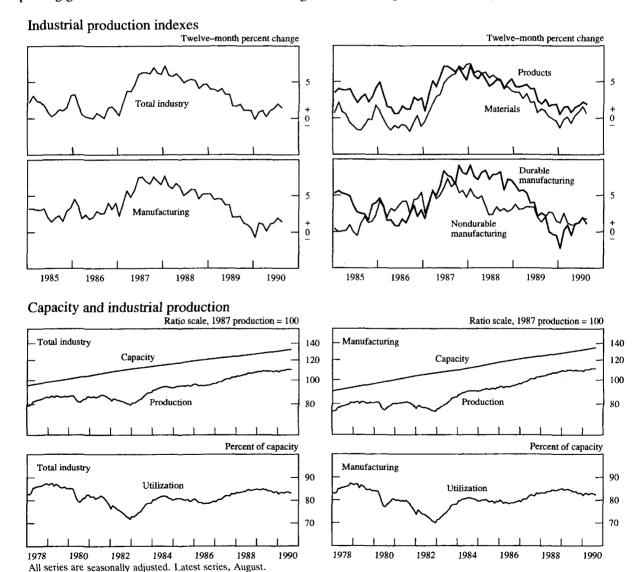
Industrial Production and Capacity Utilization

Released for publication on September 14

Industrial production decreased 0.2 percent in August after no change in July; industrial capacity utilization declined 0.4 percentage point in August to 83.1 percent.

Small declines were evident among many market and industry groups in August; industries posting gains included steel and utilities. During the past year, total industrial production has risen 1.5 percent to 109.8 percent of its 1987 annual average.

In market groups, overall, output of consumer goods was little changed in August. Gains in output of nondurables, particularly food and electricity for residential use, were about balanced by declines in the production of durables such as light trucks and goods for the home.



Output of motor vehicles for business use was unchanged after having fallen sharply in July. Excluding autos and trucks, output of business equipment decreased slightly in August but remained well above its level of last winter. Output of construction supplies edged down in August. It has changed little, on balance, since May after having fallen significantly earlier this year. Materials production declined in August. Decreases were widespread among the categories of nondurables; in addition, coal mining dropped back after having posted a sharp gain in July.

In industry groups, manufacturing output edged down 0.1 percent in August, lowering the factory utilization rate 0.3 percentage point to 82.4 percent. Output declined in most industries in both durable and nondurable manufacturing.

However, iron and steel production increased about 2½ percent in August, bringing its utilization rate to 85.2 percent—the highest in more than a year. With flat or declining output, utilization rates for chemicals, instruments, lumber, stone, clay and glass products, and apparel have dropped several percentage points during the past year.

Output in mining declined about 2½ percent in August. Besides the drop in coal production, oil and gas well drilling fell sharply, and iron ore mining was curtailed because of a strike. Utilities production rose more than 1 percent as a result of a significant increase in electricity generation. The operating rate for electric utilities hit 93.1 percent in August, well above its longer-run average.

Industrial production	1987 = 100 1990				Percentage change from preceding month				Per- centage change, Aug. 1989
	Total index	109.4	110.0	110.0	109.8	.5	.5	.0	2
Previous estimates	109.4	109.9	109.9		.6	.4	.0		
Major market groups Products, total	110.5	111.0	110.7	110.6	.6	.4	3	.0	1.9
Consumer goods	107.4 123.5 105.5 107.7	108.1 123.9 106.0 108.5	107.5 123.8 105.4 109.0	107.7 123.6 105.3 108.6	3 1.6 8 .4	.6 .3 .4 .8	5 1 6 .5	.1 2 1 4	1.9 2.6 2 .7
Major industry groups Manufacturing Durable Nondurable Mining Utilities	110.3 112.6 107.4 102.2 107.1	110.7 113.2 107.6 102.6 109.2	110.8 112.9 108.1 103.2 108.7	110.6 112.6 108.1 100.8 110.1	.7 1.4 1 6 .4	.4 .5 .2 .3 2.0	.0 3 .5 .6 4	1 2 .0 -2.3 1.2	1.4 1.2 1.8 .0 3.6
Capacity utilization	Percent of capacity								Capacity
	Average, 1967–89	Low, 1982	High, 1988-89	1989	1990				growth, Aug. 1989
				Aug.	May	June	July	Aug.p	Aug. 1990
Total industry	82.2	71.8	85.0	84.0	83.4	83.6	83.5	83.1	2.6
Manufacturing. Advanced processing Primary processing Mining Utilities	81.5 81.1 82.3 87.3 86.8	70.0 71.4 66.8 80.6 76.2	85.1 83.6 89.0 87.2 92.3	83.8 82.4 86.9 86.4 84.7	82.8 82.0 84.9 88.7 84.7	82.9 81.9 85.5 89.1 86.3	82.7 81.5 85.8 89.7 85.9	82.4 81.1 85.5 87.8 86.9	3.1 3.4 2.5 -1.6 1.0

r Revised.

NOTE. Indexes are seasonally adjusted.

p Preliminary.

Statements to the Congress

Statement by Wayne D. Angell, Member, Board of Governors of the Federal Reserve System, before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, September 10, 1990.

I am pleased to be here on behalf of the Federal Reserve Board to discuss regulatory accounting standards and capital requirements for depository institutions. Both of these standards play particularly important roles in the supervisory process. Accounting standards, by promoting consistent and accurate financial reports, enhance the ability of supervisors to monitor developments at depository institutions and to identify situations of deteriorating financial conditions that require immediate corrective actions. Capital standards are perhaps even more critical. A strong capital position enables an organization to withstand an unexpected setback and return to financial health, and when that does not prove possible, helps to limit potential losses to the government deposit insurance fund.

The importance of accounting and capital standards, of course, was recognized by the Congress when it enacted the Financial Institutions Reform, Recovery, and Enforcement Act (FIRREA). FIRREA directed the depository institution supervisory agencies to develop uniform accounting standards for all federally insured depository institutions, and mandated that capital standards for thrift institutions be no less stringent than those for commercial banks. Furthermore, the Congress asked the agencies to submit reports discussing any differences among their accounting and capital standards by August 9, 1990. The Federal Reserve's report was submitted on that date.

Today, I do not want to repeat all of the details set forth in that report. Rather, I would like to address some important policy issues regarding the accounting and capital standards employed by the Federal Reserve and the other banking agencies. I particularly want to focus upon those issues raised in your letter of invitation, Mr. Chairman, including market value accounting and our view on how the banking agencies might proceed to assess interest rate risk for examination and capital adequacy purposes.

THE ROLE OF ACCOUNTING STANDARDS

The Federal Reserve has long viewed accounting standards as a necessary step to efficient market discipline and bank supervision. Accounting standards provide the foundation for credible financial statements and other financial reports. Accurate information reported in a timely manner provides a basis for the decisions of market participants. The effectiveness of market discipline, to a very considerable degree, rests on the quality and timeliness of reported financial information.

Financial statements and regulatory financial reports perform a critical role for depository institution supervisors. The supervisory agencies have in place monitoring systems that enable them to follow, on an off-site basis, financial developments at depository institutions. When reported financial information indicates that a deterioration in financial condition has occurred, these systems can signal the need for on-site examinations and any other appropriate actions. The better the quality of financial information, the greater the ability to monitor and supervise effectively.

Financial statements provide information needed to evaluate an enterprise's financial condition and performance. Generally accepted accounting principles (GAAP) must be followed in the preparation of financial statements filed with the Securities and Exchange Commission or that otherwise are audited by Certified Public Accountants (CPAs). The regulatory financial statements for federally insured commercial banks and savings banks are the reports of condition

and income, commonly referred to as call reports. The call reports, the form and content of which, by law, are developed by the Federal Financial Institutions Examination Council (FFIEC), are currently required to be filed in a manner generally consistent with GAAP. In those few instances in which the call report specifies reporting requirements that differ from GAAP, these requirements are intended to be more conservative than GAAP.

Call reports include balance sheets, income statements, and supporting schedules providing information on types of loans, securities, and deposits, and the extent of off-balance-sheet activities. Other supporting schedules also provide information on past due and nonaccrual loans and leases, loan losses and recoveries, and changes in the allowance for loan and lease losses. Certain information on the maturity or repricing frequency of securities, loans, and time certificates of deposit is also presented. Furthermore, the call report provides information necessary for the calculation of capital ratios.

FIRREA MANDATE FOR UNIFORM ACCOUNTING STANDARDS

As you know, section 1215 of FIRREA provides that each federal bank and thrift regulatory agency "establish uniform accounting standards to be used for determining the capital ratios of all federally insured depository institutions and for other regulatory purposes." As I have explained, the banking agencies, under the auspices of the FFIEC, have in place uniform call reports for all commercial banks and savings banks supervised by the Federal Deposit Insurance Corporation (FDIC). The banking agencies base their capital adequacy and other regulatory and supervisory computations on the call report. Thus, for the Federal Reserve Board, the Office of the Comptroller of the Currency (OCC), and the FDIC, uniform "accounting standards" for capital and other regulatory purposes are in place.

On the other hand, the Office of Thrift Supervision (OTS) utilizes the Thrift Financial Report (TFR), which differs from the bank call report in scope, detail, and definition of terms. Furthermore, the TFR is based entirely on GAAP for

thrift institutions, which is somewhat different from GAAP for banks. Some of the reporting differences between banks and thrift institutions were appropriate given the different type of assets that thrift institutions typically held. However, FDIC-insured mutual savings banks file the same call report as commercial banks, and the FDIC has been able to accommodate the differences between these two types of institutions while still preserving comparability and definitional consistency.

Table 1 in the appendix summarizes the primary areas of difference that exist between the reporting standards of the federal banking agencies and the OTS. Some of these differences, such as those involving loan-loss reserves for real estate loans and the valuation of foreclosed real estate, arise from differences between GAAP for banks and GAAP for savings and loan associations. Other differences arise in those areas in which bank reporting standards are intended to be more conservative than GAAP, such as in the areas of asset sales with recourse, futures contracts, excess servicing, and in-substance defeasance of debt. These areas of difference are discussed in more detail in our report to the Congress.

The Federal Reserve Board and the other banking agencies have held preliminary discussions with the OTS to study ways in which a more uniform reporting scheme can be developed for all banking and thrift institutions. The Federal Reserve Board is prepared to work constructively to resolve differences between the call report and the thrift financial report. Also, the Financial Accounting Standards Board (FASB) and the American Institute of CPAs have been asked by the FDIC to consider eliminating the differences in GAAP as applied to banks and thrift institutions. More uniform reporting by all institutions is a goal of the Federal Reserve Board.

^{1.} The attachments to this statement are available on request from Publications Services, mail stop 138, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

MARKET VALUE ACCOUNTING

A major issue relating to accounting standards is the appropriateness of market value accounting. Under market value accounting, an institution's assets, liabilities, and off-balance-sheet items would be reported in financial statements at their market values. Alternatively, market values could be disclosed in supplemental schedules without affecting the balance sheet and income statement.

The problems in our financial system over the past several years have focused attention on the differences that often exist between accounting and economic measures of the financial condition and performance of banking and thrift institutions. Market value accounting has been proposed by some as a way to narrow these differences between accounting and economic measures. It is argued that the use of market value accounting might lead to more effective regulation and supervision of financial institutions and to the closure of problem institutions long before they would become insolvent on the basis of financial statements prepared under GAAP.

While market value accounting has theoretical appeal, several concerns have been expressed regarding this accounting model that should be considered. One major potential problem is that market values do not exist for a large portion of a financial institution's assets and liabilities and standards have not been developed for the estimation of reliable market values for these items. In addition, the overall cost and reporting burden associated with market value accounting could be considerable, including the cost of verifying market value quotations and estimates during audits and supervisory examinations. Furthermore, market value accounting could result in more volatility in the reported financial condition and earnings of financial institutions.

Clearly, information about the economic value of financial institutions is beneficial for supervisory purposes. However, the Federal Reserve believes that the preceding issues should be thoroughly studied before dramatic moves toward market value accounting are made. In particular, the Federal Reserve is concerned that, without the development of standards for

the estimation of market values, financial statements prepared on a market value accounting basis would not be reliable or verifiable by audits and examinations. The federal banking agencies are reviewing the use of market values in connection with the federal deposit insurance study mandated by the FIRREA. At the same time, the FASB is studying the need for greater use of market values in GAAP as part of a project to develop new comprehensive standards for all financial instruments. These studies should provide additional information regarding the appropriateness of market value accounting for purposes of bank regulation and financial reporting.

It is also important to emphasize that much can be done to reduce the differences between accounting and economic measures of financial condition and performance without adopting market value accounting. This is accomplished when declines in economic value that result from credit problems are accurately reflected in loanloss reserves and capital positions in a timely manner.

Chairman Greenspan addressed the need to accurately measure capital positions in his testimony before this committee on July 12, 1990, when he discussed his proposal for prompt corrective action. In this regard, a key part of this proposal is the conduct of on-site examinations focusing on the quality of asset portfolios and off-balance-sheet commitments-at least annually, when it is not already in practice. This rigorous review helps ensure that the loan-loss reserves are consistent with the quality of the portfolio. When they are not, the examiner requires that additional reserves be created with an associated reduction in the earnings and equity capital of the bank. This process leads to a timely review of the adequacy of loan-loss reserves and an accurate measurement of capital positions. When the resultant capital position of the bank is not adequate and credible capital raising commitments are not met, the regulatory agency should promptly require such responses as lowered dividends, slower asset growth, divestiture of affiliates, and other corrective measures while an institution's capital position is still positive. Such a policy not only deters banks from riskier lending practices, it also minimizes the ultimate resolution costs.

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While the adjustment of recorded asset values for inherent credit losses could be accomplished through market or economic value accounting, it can also be accomplished under existing GAAP. Timely, thorough on-site examinations focusing on asset quality, together with rigorous application of GAAP, result in loan-loss reserves that accurately reflect the estimated credit losses inherent in loan portfolios and in accurate reported capital positions. This process narrows differences between accounting and economic measures of depository institutions' financial condition and performance, while avoiding many of the potential problems associated with market value accounting. While not provided for in current GAAP, if further guidance were provided to determine an appropriate method for deriving the present value of asset and liability cash flows, even more accurate measures of market or economic value could be estimated.

THE IMPORTANCE OF CAPITAL STANDARDS

For several years, the Federal Reserve and the other banking agencies have been working to strengthen bank capital positions. The Federal Reserve has long viewed adequate capital as essential to protecting the soundness of individual banks and our banking system as a whole. While some have set forth arguments about the competitive disadvantages of stronger capital requirements, we must not ignore the long-term benefits of strong capital positions. Well-capitalized banks are the ones best positioned to be successful in the establishment of long-term relationships, to be the most attractive counterparties for a large number of financial transactions and guarantees, and to expand their business activities to meet new opportunities and changing circumstances. Indeed, many successful U.S. and foreign institutions would today meet substantially increased risk-based capital standards. In addition, although there has been uncertainty lately in the current market, the evidence of recent years suggests that U.S. banks have raised sizable amounts of equity. The dollar volume of new stock issues by banking organizations has grown at a greater rate since the late 1970s than the total dollar volume of new issues of all domestic corporate firms.

I would like to elaborate on some of the important benefits that would result from stronger capital requirements. First, a stronger capital position would strengthen the incentives of bank owners and managers to evaluate more prudently the risks and benefits of portfolio choices because a substantial amount of their money would be at risk. In effect, the moral hazard risk of deposit insurance would be reduced. Second, stronger capital levels would create a larger buffer between the mistakes of bank owners and managers and the need to draw on the deposit insurance fund. For too many institutions, that buffer has been too low in recent years. The key to creating incentives to behave as the market would dictate, and at the same time creating these buffers or shock absorbers, is to require that those who would profit from an institution's success have the appropriate amount of their own capital at risk. Third, requiring stronger capital positions would impose on bank managers an additional market test, in that they must convince investors that the expected returns justify the commitment of risk capital. Those banks unable to do so would not be able to receive the additional funds necessary for expansion. Fourth, strongly capitalized financial institutions are in a better position to take advantage of opportunities that may arise. Furthermore, it would not be necessary to apply as rigorous supervisory attention to such institutions. Thus, it is important that regulators make sure that financial institutions are operating not from a minimal capital base, but from a strong capital base.

The three federal bank regulatory agencies have a long-established history of cooperation in setting minimum capital standards. Throughout most of the 1980s, the banking agencies required banks to meet minimum ratios of capital-to-total assets or leverage ratios. In 1989, the federal banking agencies also adopted a risk-based capital standard. Furthermore, the Federal Reserve System has adopted new leverage guidelines that will supplement the risk-based capital framework. However, the primary supervisory emphasis has shifted to the risk-based capital requirement. Prudent banking organizations would

continue to operate with a cushion above the minimum leverage and risk-based capital ratios.

Risk-Based Capital

The risk-based capital framework adopted by all three of the federal bank supervisory agencies, in 1989, is based upon the international Capital Accord developed by the Basle Committee on Banking Supervision and endorsed by the central bank governors of the G-10 countries. Under this framework, total capital comprises tier 1 (or equity capital) and tier 2 (or supplemental) capital instruments. The risk-based capital standards establish for all commercial banking organizations a minimum ratio of total capital to riskweighted assets of 7.25 percent for year-end 1990. This minimum standard increases to 8.0 percent as of year-end 1992. Besides identical ratios, the risk-based framework includes a common definition of regulatory capital as well as a uniform system of risk weights and categories.

The principal objectives of risk-based capital are to make regulatory capital requirements more sensitive to differences in risk profiles of banks, to factor off-balance-sheet exposures more explicitly into the assessment of capital adequacy, and minimize disincentives to holding liquid, low-risk assets.

Leverage Ratio

The banking agencies are also engaged in implementing new minimum leverage ratios that will be based upon a definition of capital consistent with the tier 1 capital definition that is used in the risk-based capital guidelines. The Federal Reserve has issued a new supplementary leverage standard that will require a minimum ratio of capital to assets of 3.0 percent for the safest institutions. These minimum risk-based and leverage ratio requirements will enable us to remove the current capital-to-assets standards at year-end 1990. Similar leverage guidelines are being developed by the OCC and the FDIC, as explained in detail in the Federal Reserve's report to the Congress on capital and accounting standards used by the regulatory agencies.

The objective of the new leverage ratio is to ensure that banking organizations that hold substantial amounts of low credit risk assets must still maintain a minimum amount of capital. A financial institution operating at or near the established minimum level must have well-diversified risk, including no undue interest rate risk exposure, excellent asset quality, high liquidity, good earnings, and, in general, be considered a strong banking organization. Institutions without these characteristics, including institutions with supervisory, financial, or operational weaknesses, are expected to operate well above the minimum standard. Also, institutions experiencing or anticipating significant growth are expected to maintain above average capital ratios.

It should be stressed that the banking agencies have generally viewed their capital ratios as minimums. Furthermore, most banking organizations would wish to operate well above these levels. Over the years, the Federal Reserve has encouraged banks to continue to strengthen their capital positions. We have done this primarily through the bank examination process, and by requiring strong capital positions of those institutions undertaking expansion.

Differences in Capital Standards

As you are aware, we have submitted a report to this committee detailing the capital and accounting standards used by the federal banking and thrift agencies. The differences in the capital standards of the banking agencies and the OTS are discussed in detail in our report. A summary of the primary areas of difference is presented in the appendix. The staffs of the banking agencies and the OTS meet regularly to identify and address differences in their capital standards and work toward consistency.

Assessment of Capital Adequacy

While current capital standards generally provide a cushion against losses from operations or a weak loan portfolio, they do not address all risks of an institution. For example, the bank riskbased capital guidelines, at present, do not yet address noncredit factors, such as interest rate risk and foreign exchange positions.

Interest rate risk is defined as the sensitivity of an institution's earnings and capital to changes in interest rates. This sensitivity may result from differences in the maturity or repricing of an institution's assets, liabilities, and off-balance-sheet instruments. This type of mismatch occurs, for example, when an institution funds a long-term, fixed-rate loan with a short-term or variable-rate deposit. When significant interest rate exposure exists, a relatively small adverse change in interest rates may result in a substantial reduction in an institution's earnings and capital.

Interest rate risk has been evaluated in connection with the overall determination of an organization's capital adequacy and financial condition during on-site examinations. Since a conclusive assessment of capital adequacy can be made only after consideration of all the quantitative factors that determine the need for capital, we think it is clear that the time has now come to place greater emphasis on the quantitative measurement of interest rate risk and to more explicitly factor interest rate risk into the assessment of capital adequacy.

To this end, the Federal Reserve is working with the other U.S. banking agencies and regulatory authorities on the Basle Supervisors' Committee to develop methods to measure and address interest rate and other noncredit risks. These methods are necessary to enhance the basic risk-based capital framework.

In considering how best to factor interest rate risk into capital adequacy calculations, we are guided by the following principles:

- 1. The system should provide incentives to reduce risk or a means to ensure that those risks that are assumed are backed by sufficient capital to fully protect the deposit insurance system and investors.
- 2. The system should assess the impact on the firm of interest rate volatility and hedging activities, including proper risk weighting of hedging instruments.
- 3. The system should be straightforward so that it can be widely understood and utilized by bank directors and management.
- 4. The system or the data required to implement it should not place excessive burdens or costs upon the institution.
- 5. The system should strengthen U.S. banking organizations so as to enhance their international competitiveness.

Although domestic and international work has been under way for some time, we have not yet achieved a consensus on how to measure interest rate risk or assess an appropriate capital requirement. However, it is necessary to find a measure that produces an acceptable interest rate risk measurement tool.

While the Board has not officially approved a particular approach to interest rate risk measurement, there are a number of possible approaches that the Board is likely to consider. One alternative might be to require that all institutions, regardless of size, provide detailed information on the maturity and repricing of their assets, liabilities, and off-balance-sheet exposures. This information would then be used to calculate an institution's interest rate exposure and the corresponding capital requirement. One drawback, however, is that this approach could impose substantial reporting burdens on institutions with minimal interest rate risk.

Another alternative that the supervisory agencies might explore to deal with interest rate risk involves a two-phased approach. Under this approach, institutions would be screened by the use of a rather rough measure of interest rate risk, derived from minimally enhanced data that is, for the most part, already available in the call report. For institutions that undertake interest rate risks outside of established parameters, more detailed reporting would be required and could be the basis for a more precise calculation of an additional capital requirement.

We would certainly work to ensure that any approach that is finally adopted would be compatible with the rate risk measurement mechanism that might be developed internationally under the auspices of the Basle Supervisor's Committee. The approach that is finally adopted should be designed to afford regulators considerable comfort that institutions with undue interest rate risk have been appropriately identified, that a reasonable amount of additional capital for that added risk is being held, and that additional supervisory action could be taken as warranted. In addition, institutions that undertake interest risk outside of the established parameters would be expected to have the management expertise, together with strong reporting and control systems that would enable them to undertake such

risks on a knowledgeable basis. Moreover, the interest rate data that banks provide would be verified regularly through the examination process.

One area that must also be addressed involves the accounting treatment for off-balance-sheet instruments. To better factor these instruments into the assessment of interest rate risk, more work will have to be done by the FASB to improve the accounting standards for these diverse instruments and to provide more specific criteria for hedge accounting.

CONCLUSION

In summary, the Federal Reserve believes that both accounting and capital standards play an important role in the supervisory process. Besides providing important information to market participants, accurate and timely financial reports enhance the supervisor's ability to monitor an institution's financial condition and to take prompt corrective action.

Stronger capital positions and prompt corrective action by supervisors will help reduce excessive risktaking by insured institutions. The requirement for depository institutions to maintain strong capital positions sufficient to cover on- and off-balance-sheet risks will promote the safety and stability of our banking system and protect the interest of the U.S. taxpayers. The Federal Reserve will continue to work with the other supervisory agencies to develop uniform capital and accounting standards that achieve these important objectives.

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, September 13, 1990.

I am pleased to appear before this committee to discuss deposit insurance reform. Your letter of invitation contained a list of important issues and questions that I will try to address. Our recent experience with thrift institutions underlines the pressing need for deposit insurance reform. Indeed, the Congress recognized that last year's landmark Financial Institutions Reform, Recovery, and Enforcement Act of 1989 (FIRREA) was only a first step when it mandated a Treasury study of deposit insurance issues. This study, in which the Federal Reserve is an active participant, will be published late this year or early next. By holding hearings considerably before that research is complete, I hope that the Congress will be able to focus on the needed legislation immediately after the release of the Treasury study.

Your letter of invitation suggested that the topic of these hearings would be solely deposit insurance reform. While this subject is complex, the Board believes that the issue is intimately related to the need for legislation to also modern-

ize our banking system in other ways. The Congress and the Board repeatedly are reminded of the erosion of the competitiveness of our banking system both domestically and internationally. The Board believes that addressing this problem should be joined with deposit insurance reform, and my statement will intertwine both topics.

The fundamental problems with our current deposit insurance program are clearly understood and are, I believe, subject to little debate among those with drastically different prescriptions for reform. The safety net-deposit insurance, as well as the discount window-has so lowered the risks perceived by depositors as to make them relatively indifferent to the soundness of the depository recipients of their funds, except in unusual circumstances. With depositors exercising insufficient discipline through the risk premium they demand on the interest rate they receive on their deposits, the incentive of some banks' owners to control risktaking has been dulled. Profits associated with risktaking accrue to owners, while losses in excess of bank capital that would otherwise fall on depositors are absorbed by the Federal Deposit Insurance Corporation (FDIC).

Weak depositor discipline and this moral hazard of deposit insurance have two important implications. First, the implicit deposit insurance

subsidy has encouraged banks to enhance their profitability by increasing their reliance on deposits rather than capital to fund their assets. In effect, the deposit insurance funds have been increasingly substituted for private capital as the cushion between the asset portfolios of insured institutions and their liabilities to depositors. A hundred years ago, the average equity capital to assets ratio of U.S. banks was almost 25 percent, approximately four times the current level. Much of the decline over the past century no doubt reflects the growing efficiency of our financial system. But it is difficult to believe that many of the banks operating over recent decades would have been able to expand their assets so much, with so little additional investment by their owners, were it not for the depositors' perception that, despite the relatively small capital buffer, their risks were minimal. Regulatory efforts over the past ten to fifteen years have stabilized and partially reversed the sharp decline in ratios of bank equity capital to assets. This reversal has occurred despite the sizable write-off of loans and the substantial buildup in loan-loss reserves in the past three years or so. But the capital ratios of many banks are still too low.

Second, government assurances of the liquidity and availability of deposits have enabled some banks with declining capital ratios to fund riskier asset portfolios at a lower cost and on a much larger scale, with governmental regulations and supervision, rather than market processes, as the major constraint on risktaking. As a result, more resources have been allocated to finance risky projects than would have been dictated by economic efficiency.

In brief, the subsidy implicit in our current deposit insurance system has stimulated the growth of banks and thrift institutions. In the process the safety net has distorted market signals to depositors and bankers about the economics of the underlying transactions. This distortion has led depositors to be less cautious in choosing among institutions and has induced some owners and their managers to take excessive risk. In turn, the expanded lending to risky ventures has required increased effort and resources by supervisors and regulators to monitor and modify behavior.

But, in reviewing the list of deficiencies of the

deposit insurance system, we should not lose sight of the contribution that both deposit insurance and the discount window have made to macroeconomic stability. The existence and use of the safety net have shielded the broader financial system and the real economy from instabilities in banking markets. More specifically, it has protected the economy from the risk of deposit runs, especially the risk of such runs spreading from bank to bank, disrupting credit and payment flows and the level of trade and commerce. Confidence in the stability of the banking and payments system has been the major reason why the United States has not suffered a financial panic or systemic bank run in the last half century.

There are thus important reasons to take care as we modify our deposit insurance system. Reform is required. So is caution. The ideal is an institutional framework that, to the extent possible, induces banks both to hold more capital and to be managed as if there were no safety net, while at the same time shielding unsophisticated depositors and minimizing disruptions to credit and payment flows.

If we were starting from scratch, the Board believes it would be difficult to make the case that deposit insurance coverage should be as high as its current \$100,000 level. However, whatever the merits of the 1980 increase in the deposit insurance level from \$40,000 to \$100,000, it is clear that the higher level of depositor protection has been in place long enough to be fully capitalized in the market value of depository institutions and incorporated into the financial decisions of millions of households. The associated scale and cost of funding have been incorporated into a wide variety of bank and thrift decisions, including portfolio choices, staffing, branch structure, and marketing strategy. Consequently, a return to lower deposit insurance coverage like any tightening of the safety net—would reduce insured depository market values and involve significant transition costs. It is one thing initially to offer and then to maintain a smaller degree of insurance coverage, and quite another to reimpose on the existing system a lower level of insurance, with its associated readjustment and unwinding costs. This is why the granting of subsidies by the Congress should be considered

so carefully: They not only distort the allocation of resources but also are extremely difficult to eliminate, imposing substantial transition costs on the direct and indirect beneficiaries. For such reasons, the Board has concluded that, should the Congress decide to lower deposit insurance limits, a meaningful transition period would be needed.

Another relevant factor that should be considered in evaluating the \$100,000 insurance limit is the distribution of deposit holders by size of account. Unfortunately, data to analyze this issue by individual account holder do not exist. However, we have been able to use data collected on an individual household basis in our 1983 Survey of Consumer Finances to estimate the distribution of account holders. While these data are seven years old, they are the best available until results from our 1989 Survey of Consumer Finances become available this fall. I have attached as an appendix to this statement summary tables and descriptive text of the 1983 survey results.1 Briefly, the survey suggests that between 1.0 and 1.5 percent of U.S. households held, in 1983, deposit balances in excess of \$100,000. The demographic characteristics of these account holders suggest that they are mainly older, retired citizens with most of their financial assets in insured accounts. These characteristics of heads of households owning deposits are remarkably stable as the size of deposits declines to \$50,000.

A decision by the Congress to leave the \$100,000 limit unchanged, however, should not preclude other reforms that would reduce current inequities in, and abuses of, the deposit insurance system, often thwarting its purpose. Serious study should be devoted to the cost and effectiveness of policing the \$100,000 limit so that multiple accounts are not used to obtain more protection for individual depositors than the Congress intends. We at the Federal Reserve believe that it is administratively feasible—but not costless—to establish controls on the number and dollar value of insured accounts per individ-

ual at one depository institution, at all institutions in the same holding company, and perhaps even across depositories of different ownership. But we are concerned about the cost and administrative complexity of such schemes and would urge the careful weighing of benefits and costs before adopting any specific plan.

The same study could consider the desirability of limiting pass-through deposit insurance under which up to \$100,000 of insurance protection is now explicitly extended to each of the multiple beneficiaries of some large otherwise uninsured deposits. Brokered accounts of less than \$100,000 also have been used to abuse deposit insurance protection, particularly by undercapitalized institutions. However, we must be careful to remember that the use of brokered deposits by healthy firms can be the economy's most efficient way of allocating funds to their most productive use. The study should keep in mind these considerations, as well as the power that the Congress has already provided the agencies to constrain misuse of brokered accounts.

No matter what the Congress decides on deposit insurance limits, we must be cautious of our treatment of uninsured depositors. Such depositors should be expected to assess the quality of their bank deposits just as they are expected to evaluate any other financial asset they purchase. Earlier I noted that our goal should be for banks to operate as much as possible as if there were no safety net. In fact, runs of uninsured deposits from banks under stress have become commonplace.

So far, the pressure transmitted from such episodes to other banks whose strength may be in doubt has been minimal. Nevertheless, the clear response pattern of uninsured depositors to protect themselves by withdrawing their deposits from a bank under pressure raises the very real risk that in a stressful environment the flight to quality could precipitate wider financial market and payments distortions. These systemic effects could easily feed back to the real economy, no matter how open the discount window and how expansive open market operations. Thus, while deposits in excess of insurance limits should not be protected by the safety net at any bank, reforms designed to rely mainly on increased

^{1.} The attachments to this statement are available on request from Publications Services, mail stop 138, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

market discipline by uninsured depositors raise serious stability concerns.

An example of one such approach is depositor coinsurance or a deductible under which a depositor at a failed institution receives most, but not all, of his or her deposit in excess of a reduced (or the current) insurance limit. This option has some attractions, coupling depositor market discipline with relatively modest possible losses to depositors. The Board believes, however, that an explicit policy that requires imposition of uninsured depositor loss—no matter how small—is likely to increase the risk of depositor runs and to exacerbate the depositor response to rumors.

Another option to rely more on private-market incentives is the use of private deposit insurance as a supplement or replacement for FDIC insurance. This use would require, of course, that all relevant supervisory information—much which is now held confidential-be shared with private insurers who would be obligated to use that information only to evaluate the risk of depositor insurance and not for the purposes of adjusting any of their own portfolio options. In addition, it is clearly unreasonable to impose on private insurers any responsibilities for macrostability in their commercial underwriting of deposit insurance. Private insurers' withdrawal of coverage in a weakening economy or their unwillingness to forebear in such circumstances would be understandable but counterproductive. The inability of private insurers to meet their obligations after an underwriting error would be disruptive at best and involve taxpayer responsibility at worst. Private insurance and public responsibility unfortunately are not always compatible. We have similar concerns with mutual assurance among groups of banks who would seek to evaluate each other's risk exposure and to discipline overly risky entities by expulsion from their mutual guarantee syndicate. In addition, a system of mutual guarantees by banks could raise serious anticompetitive issues.

There has also been support for the increased use of subordinated debentures in the capital structure of banking organizations. Intriguing attractions of this option are the thoughts that nonrunnable, but serially maturing, debt would provide both enhanced market discipline and a

periodic market evaluation of the bank. The Board continues to support the use of subordinated debt for these reasons, as well as the fact that it provides supplementary capital to act as an additional buffer to the FDIC over and above that provided by the owners' equity capital. But, in our view, subordinated debentures can only be supporting players and not be awarded the central role in reform. This is a limited source of capital and one that may prove difficult and expensive to obtain when advertised as having constrained returns whose holders are expected to absorb losses for the FDIC. Adding features to make it more attractive adds complications that perhaps are best met directly by additional pure equity and other reforms.

A promising approach that seeks to simulate market discipline with minimal stability implications is the application of risk-based deposit insurance premiums by the FDIC. The idea is to make the price of insurance a function of the bank's risk, reducing the subsidy to risktaking and spreading the cost of insurance more fairly across depository institutions. In principle, this approach has many attractive characteristics, and could be designed to augment risk-based capital. For example, banks with high risk-based capital ratios might be charged lower insurance premiums. But the range of premiums necessary to induce genuine behavioral changes in portfolio management might well be many multiples of the existing premium, thereby raising practical concerns about its application. Risk-based premiums also would have to be designed with some degree of complexity if they are to be fair and if unintended incentives are to be avoided. In any event, the potential additional benefits on top of an internationally negotiated risk-based capital system, while positive, require further evaluation.

Another approach that has induced increasing interest is the insured narrow bank. Such an institution would invest only in high quality, short-maturity, liquid investments, recovering its costs for checking accounts and wire transfers from user fees. The narrow bank would thus require drastic institutional changes, especially for thousands of our smaller banks and for virtually all households using checking accounts. Movement from the present structure for deliv-

ery of many bank services would be difficult and costly, placing U.S. banks at a disadvantage internationally. In addition, this approach might shift and possibly focus systemic risk on larger banks. Banking organizations would have to locate their business and household credit operations in nonbank affiliates funded by uninsured deposits and borrowings raised in money and capital markets. Only larger organizations could fund in this way, and these units, unless financed longer term than banks today, would, even with the likely higher capital ratio imposed on them by the market, be subject to the same risks of creditor runs that face uninsured banks, with all of the associated systemic implications. If this were the case, we might end up with the same set of challenges we face today, refocused on a different set of institutions. We at the Board believe that while the notion of a narrow bank to insulate the insurance fund is intriguing, in our judgment further study of these systemic and operational implications is required.

If, in fact, proposals that rely on uninsured depositor discipline, private insurance, subordinated debentures, risk-based premiums, and structural changes in the delivery of bank services raise significant difficulties, reform should then look to other ways to curb banks' risk appetites, and to limit the likelihood that the deposit insurance fund, and possibly the taxpayer, will be called on to protect depositors. The Board believes that the most promising approach is to reform both bank capital and supervisory policies. This would build upon the groundwork laid in the FIRREA, in which the Congress recognized as key components of a sound banking system the essentiality of strong capital plus effective supervisory controls. Both would be designed to reduce the value of the insurance subsidy. Neither would rule out either concurrent or subsequent additions to deposit insurance reform, such as the changes discussed previously, other proposals, or new approaches that may emerge in the years ahead. In fact, higher capital, by reducing the need for, and thereby the value of, deposit insurance would make subsequent reform easier. There would be less at stake for the participants in the system.

At the end of this year, the phase-in to the International Capital Standards under the Basle

Accord will begin. This risk-based capital approach provides a framework for incorporating portfolio and off-balance-sheet risk into capital calculations. Most U.S. banks have already made the adjustment required for the fully phased-in standard that will be effective at the end of 1992. However, the prospect of an increasingly competitive environment suggests that the minimum level of capital called for by the 1992 requirements may not be adequate, especially for institutions that want to take on additional activities. As a result of the safety net, too many banking organizations, in our judgment, have traveled too far down the road of operating with modest capital levels. It may well be necessary to retrace our steps and begin purposefully to move to capital requirements that would, over time, be more consistent with what the market would require if the safety net were more modest. The argument for more capital is strengthened by the necessity to provide banking organizations with a wider range of service options in an increasingly competitive world. Indeed, projections of the competitive pressures only intensify the view that if our financial institutions are to be among the strongest in the world, let alone avoid an extension of the taxpayers' obligation to even more institutions, we must increase capital requirements. Our international agreements under the Basle Accord permit us to do so.

There are three objectives of a higher capital requirement. First, higher capital strengthen the incentives of bank owners and managers to evaluate more prudently the risks and benefits of portfolio choices because more of their money would be at risk. In effect, the moral hazard risk of deposit insurance would be reduced. Second, higher capital levels would create a larger buffer between the mistakes of bank owners and managers and the need to draw on the deposit insurance fund. For too many institutions, that buffer has been too low in recent years. The key to creating incentives to behave as the market would dictate, and at the same time creating these buffers or shock absorbers, is to require that those who would profit from an success have the appropriate institution's amount of their own capital at risk. Third, requiring higher capital imposes on bank managers an additional market test. They must convince investors that the expected returns justify the commitment of risk capital. Those banks unable to do so would not be able to expand.

We are in the process in the Federal Reserve System of developing more specific capital proposals, including appropriate transition arrangements designed to minimize disruptions. However, at the outset I would like to anticipate several criticisms. For many banks, raising significant new capital will be neither easy nor cheap. Maintaining return on equity will be more difficult, and those foreign banks that only adhere to the Basle minimums may be put in a somewhat better competitive position relative to some U.S. banks. Higher capital requirements also will tend to accelerate the move toward bank consolidation and slow growth in bank assets. However, these concerns must be balanced against the increasing need for reform now, the difficulties with all the other options, and both the desire of, and necessity for, banking organizations to broaden their scope of activities to operate successfully.

More generally, many of the arguments about the competitive disadvantages of higher capital requirements are shortsighted. Well-capitalized banks are the ones best positioned to be successful in the establishment of long-term relationships, to be the most attractive counterparties for a large number of financial transactions and guarantees, and to expand their business activities to meet new opportunities and changing circumstances. Indeed, many successful U.S. and foreign institutions would today meet substantially increased risk-based capital standards. In addition, the evidence of recent years suggests that U.S. banks can raise sizable equity. The dollar volume of new stock issues by banking organizations has grown since the late 1970s at a greater rate than the total dollar volume of new issues by all domestic corporate firms.

Higher capital standards should go a long way toward inducing marketlike behavior by banks. However, the Board believes that, so long as a significant safety net exists, additional inducements will be needed through an intensification of supervisory efforts to deter banks from maintaining return on equity by acquiring riskier assets. When it is not already the practice, full in-bank supervisory reviews—focusing on asset

portfolios and off-balance-sheet commitments—should occur at least annually, and the results of such examinations should promptly be shared with the board of directors of the bank and used to evaluate the adequacy of the bank's capital. The examiner should be convinced after a rigorous and deliberate review that the loan-loss reserves are consistent with the quality of the portfolio. If they are not, the examiner should insist that additional reserves be created with an associated reduction in the earnings or equity capital of the bank.

This method of adjusting and measuring capital by reliance on examiner loan evaluations does not depend on market value accounting to adjust the quality of the assets. Some day, perhaps, we may be able to apply generally accepted precepts of market value accounting to both the assets and liabilities of a financial going concern with a wide spectrum of financial assets and liabilities. But the Board is not comfortable with the process as it has developed so far, either regarding the ability of market value accounting to reflect market values accurately over reasonable periods or to avoid being overly sensitive to shortrun events. For most banks, loans are the predominant asset, an asset that the examiners should evaluate in each of the proposed annual in-bank supervisory reviews. We at the Federal Reserve believe that the examiners' classification of loan quality should, as I noted, be fully reflected in the banks' loan-loss reserves by a diversion of earnings or a reduction in capital. If the resultant capital is not consistent with minimum capital standards, the board of directors and the bank's regulators should begin the process of requiring the bank either to reduce those assets or to rebuild equity capital.

If credible capital raising commitments are not forthcoming, and if those commitments are not promptly met, the authorities should pursue such responses as lowered dividends, slower asset growth, or perhaps even asset contraction, restrictions on the use of insured brokered deposits, if any, and divestiture of affiliates with the resources used to recapitalize the bank. What is important is that the supervisory responses occur promptly and firmly and that they be anticipated by the bank. This progressive discipline or prompt corrective action of a bank with inade-

quate capital builds on our current bank supervisory procedures and is designed to simulate market pressures from risktaking—to link more closely excessive risktaking with its costs—without creating market disruptions. It is also intended to help preserve the franchise value of a going concern by acting early and quickly to restore a depository to financial health. In this way, the precipitous drop in value that normally occurs when a firm is placed in conservatorship or receivership would, for the large majority of cases, be avoided.

While some flexibility is certainly required in this approach, the Board believes that there must be a prescribed set of responses and a presumption that these responses will be applied unless the regulator determines that the circumstances do not warrant them. Even though prompt corrective action implies some limit on the discretion of supervisors to delay for reasons that they perceive to be in the public interest, the Board is of the opinion that it would be a mistake to eliminate completely the discretion of the regulator.

Accordingly, the Board believes that a system that combined a statutorily prescribed course of action with an allowance for regulatory flexibility would result in meaningful prompt resolution. For example, if a depository institution failed to meet minimum capital requirements established by its primary regulatory agency, the agency might be required by statute to take certain remedial action unless it determined on the basis of particular circumstances that such action was not required. The presumption would thus be shifted toward supervisory action, and delay would require an affirmative act by the regulatory agency.

The prescribed remedial action required in a given case would be dependent upon the adequacy of the institution's capital. As the capital fell below established levels, the supervisor could be required, for example, to order the institution to formulate a capital plan, limit its growth, limit or eliminate dividends, or divest certain nonbank affiliates. In the event of seriously depleted capital, the supervisor could require a merger, sale, conservatorship, or liquidation.

In adopting such a statutory framework, the

Congress should consider designing the system so that forced mergers, divestitures, and, when necessary, conservatorships could be required while there is still positive equity capital in the depository institution. While existing stockholders should be given a reasonable period of time to correct deteriorating capital positions, the Congress should specifically provide the bank regulators with the clear authority, and therefore explicit support, to act well before technical insolvency to minimize the ultimate resolution costs. The presence of positive equity capital, even if at low levels, when combined with any tier 2 capital, would limit reorganization and liquidation costs.

In the Board's view, most of the remedial actions discussed above can be taken, and have been taken, by bank regulators under the current legal framework. Under current law, however, the actions to be taken are discretionary and dependent upon a showing of unsafe or unsound conditions or a violation of law, and implementation of a supervisory remedial action can be extended over a protracted period of time when the depository institution contests the regulator's determination. In cases in which an institution's capital is deteriorating, the progressive discipline framework described above would establish a systematic program of progressive action based on the capital of the institution, instead of requiring the regulator to determine on a case-by-case basis, as a precondition to remedial action, that an unsafe or unsound practice exists. This program would introduce a greater level of consistency of treatment into the supervisory process, place investors and managers on notice regarding the expected supervisory response to falling capital levels, and reduce the likelihood of protracted administrative actions challenging the regulator's actions.

The Board is in the process of developing the parameters, processes, and procedures for prompt corrective action. One of the principles guiding our efforts is the need to balance rules with discretion. In addition, as is the case for higher capital standards, the Board is mindful of the need for an appropriate transition period before fully implementing such a change in supervisory policy.

Higher capital and prompt corrective action

would increase the cost and reduce the availability of credit from insured institutions to riskier borrowers. In effect, our proposal would reduce the incentive that some banks currently have to overinvest in risky credits at loan rates that do not fully reflect the risks involved. This implies that the organizers of speculative and riskier ventures will have to restructure their borrowing plans, including possibly paying more for their credit, or seek financing from noninsured entities. Some borrowers may find their proposals no longer viable. However, it is just such financing by some insured institutions that has caused so many of the current difficulties, and it is one of the objectives of our proposals to cause depositories to reconsider the economics of such credits. As insured institutions reevaluate the riskreturn tradeoff, they are likely to be more interested in credit extensions to less risky borrowers, increasing the economic efficiency of our resource allocation.

Despite their tendency to raise the average level of bank asset quality, higher capital requirements and prompt corrective action will not eliminate bank failures. An insurance fund will still be needed, but we believe that, with a fund of reasonable size, the risk to taxpayers should be reduced substantially. As I have noted, higher capital requirements and prompt corrective action imply greater caution in bank asset choices and a higher cushion for the FDIC to absorb bank losses. In addition, an enhanced supervisory approach will not permit deteriorating positions to accumulate.

But until these procedures have been adopted and the banking system has adjusted to them, circumstances could put the existing insurance fund under severe pressure. As Chairman Seidman has indicated, the fund is already operating under stress, as its reserves have declined in recent years and now stand, as a percentage of insured deposits, at their lowest level in history. At the same time, there remain all too many problems in the banking system, problems that have been growing of late as many banks, including many larger banks, have been experiencing a deterioration in the quality of their loan portfolios, particularly real estate loans. It thus seems clear that the insurance fund likely will remain under stress for some time to come. Moreover, pressures would intensify if real estate market conditions were to weaken further or a recession were to develop in the general economy.

It should, however, be clearly underlined that the size or adequacy of the insurance fund does not change the quality of the deposit insurance guarantee made by the federal government; it does allocate the cost of meeting any guarantee between the banking industry that pays the insurance premiums and the taxpayers as a whole. It should, in our view, be the policy of the government to minimize the risk to taxpayers of the deposit insurance guarantee, and we believe that our proposal does that. While some increase in insurance premiums is in all likelihood necessary, we must be concerned that attempts to accomplish this end by substantially higher insurance premiums may well end up-especially if accompanied by higher capital requirements simply making deposits so unattractive that banks are unable to compete. Avoiding taxpayer costs and maintaining a competitive banking system are just two more reasons why basic deposit insurance reform is so urgent.

Among the deposit insurance reforms that might be considered on the basis of both strengthening the insurance fund and fairness to smaller and regional banks is the assessment of insurance premiums on the foreign branch deposits of U.S. banks. A substantial proportion of the deposits of the largest U.S. banks are booked at branches outside the United States, including offshore centers in the Caribbean. Assessing such deposits could yield significant revenue for the FDIC.

However, assessing deposit insurance premiums on foreign deposits would involve some costs. Such deposits may be quite sensitive to a small decline in their yields. Thus imposing premiums could lead to deposit withdrawals and funding problems at some U.S. banking organizations and possibly inhibit the ability of these organizations to raise capital.

Even if no adjustment is made in the insurance assessment on foreign deposits, held almost solely by large banks, other deposit insurance reforms should be equally applicable to banks of all sizes. No observer is comfortable with the inequities and adverse incentives of an explicit or

implicit program that penalizes depositors, creditors, and owners of smaller banks more than those of larger ones. The Board believes that no bank should assume that its scale insulates it from market discipline, nor should any depositor with deposits in excess of the insurance limit at the largest of U.S. banks assume that he or she faces no loss should their bank fail.

Nevertheless, it is clear that there may be some banks, at some particular times, whose collapse and liquidation would be excessively disruptive to the financial system. But it is only under the very special conditions, which should be relatively rare, of significant and unavoidable risk to the financial system that our policies for resolving failed or failing institutions should be relaxed. The benefits from the avoidance of a contagious loss of confidence in the financial system accrue to us all. But included in the cost of such action is the loss of market discipline that would result if large banks and their customers presume a kind of exemption from loss of their funds. The Board's policies of prompt corrective action and higher capital are designed to minimize these costs. Under these policies, the presumption should always be that prompt and predictable supervisory action will be taken. For no bank is ever too large or too small to escape the application of the same prompt corrective action standards applied to other banks. Any bank can be required to rebuild its capital to adequate levels and, if it does not, be required to contract its assets, divest affiliates, cut its dividends, change its management, sell or close offices, and the resultant smaller entity can be merged or sold to another institution with the resources to recapitalize it. If this is not possible, the entity can be placed in conservatorship until

It is, by the way, the largest U.S. banks that would be required under our proposals to raise the most additional capital, both absolutely and proportionally. Most banks with assets of less than \$1 billion already meet capital requirements considerably above the fully phased-in Basle Capital Accord minimums. In addition, it bears emphasizing that no deposit insurance reform that truly reduces the subsidy existing in the current system will be costless for banks. The issue really is one of achieving maximum benefit

from reform at minimum cost. We believe that our proposals achieve this goal.

It is worth noting that in many foreign countries large banks are considered so important to their economy that it is widely anticipated that authorities in these countries would support these banks during financial crises. In some countries, notably France and Italy, some large banks are owned by the government, another factor that arguably leads market participants to doubt that these banks could fail. Thus the commitment of foreign authorities presumably extends beyond the rather limited levels explicitly incorporated into their deposit insurance systems and may potentially create the same types of problems that the United States faces with institutions deemed "too big to fail."

Virtually all of the major industrial countries have instituted a system of explicit deposit insurance. The character of these systems, however, varies widely, and most of them are more modest in scope than the U.S. system. In many cases, especially in Europe, deposit insurance is not a funded system, but rather an agreement among banks intended to make money available to protect the small depositors at failed banks. Except in Germany and Italy, the ceiling on insured deposits is substantially lower than in the United States. Membership in the insurance system is also voluntary in several countries. Though most banks in these countries join the system, deposit insurance is not viewed as the primary means of support for large banks. As Europe 1992 is implemented, and full cross-border banking becomes a European reality, it is quite likely that the European Community will find itself under pressure to make its deposit insurance system more explicit and more uniform.

I noted earlier that one response of some U.S. banks to the more intense competitive environment has been to draw down their capital buffer. These and other institutions cannot rebuild, strengthen, and maintain the appropriate level of capital unless they are able to adapt to the changing competitive and technological environment. The ability to adapt is crucially dependent on broadening the permissible range of activities for banking organizations. At the same time, we should be sensitive to the implications of the potential extension of the safety net—directly or

indirectly—under those markets that banking organizations are authorized to enter.

The Board has for some time held the view that strong insulating fire walls would both protect banks (and taxpayers) from the risk of new activities and limit the extension of the safety net subsidy that would place independent competitors at a disadvantage. However, recent events, including the rapid spread of market pressures to separately regulated and well-capitalized units of Drexel when their holding company was unable to meet its maturing commercial paper obligations, have raised serious questions about the ability of fire walls to insulate one unit of either a holding company or a bank from funding problems of an affiliate or subsidiary. Partially as a result, the Board is in the process of reevaluating both the efficacy and desirability of substantial fire walls between a bank and some of its affiliates or subsidiaries. It is clear that high and thick fire walls reduce synergies and raise costs for financial institutions, a significant problem in increasingly competitive financial markets. If they raise costs and may not be effective, we must question why we are imposing these kinds of fire walls at all. Moreover, higher capital standards and prompt corrective action at the bank go a long way to limit the transference of the bank safety net subsidies to bank affiliates or subsidiaries that fire walls are designed to constrain. And, as such, they should greatly limit the risk of distorted market signals and excessive risktaking over an expanded range of markets, as well as the unfair competition, that might otherwise accompany wider activities by banking organizations.

It may be more realistic to apply more limited fire walls to the new activities. I have in mind here restrictions such as sections 23A and 23B of the Federal Reserve Act, which already limit the financial transactions between a bank and its affiliates, requiring collateral, arms-length transactions, and—except when Treasury securities are used as collateral—quantitative limits based on the bank's capital. Such limitations could also be applied to transactions between a bank and certain bank subsidiaries.

Even with these, or tighter fire walls, the potential for problems in one unit of a firm to affect other units raises the question of the implications of a piecemeal regulatory structure, with no means for ensuring that the activities of the organization as a whole do not impose undue risk on the insured entity and hence either the financial system or the safety net. We believe that, to protect the insured entity, the financial system, and the safety net, some agency should be responsible for oversight of the entire organization.

Authorization to use their expertise over a wider range of markets might well be limited only to those organizations in which the bank or the holding company meets a new higher capital standard. Consequently, the Congress might wish to authorize bank supervisors to grant certain of these activities only to those entities that exceed such a standard. Those institutions that consistently exceed the capital standard perhaps could receive more flexibility in supervisory treatment. For example, a notice requirement could be substituted for formal applications for activities permitted by law and regulation, provided that such acquisitions leave the bank or other appropriate entity's capital in excess of the higher standards. Other reductions in regulatory burden for highly capitalized banks or banking organizations might also be appropriate. Such organizations would, however, still be subject to the same thorough annual examinations.

As you know, the Board has long supported repeal of the provisions of the Glass-Steagall Act that separate commercial and investment banking. We still strongly advocate such repeal because we believe that technology and globalization have continued to blur the distinctions among credit markets and have eroded the franchise value of the classic bank intermediation process. Outdated constraints will only endanger the profitability of banking organizations and their contribution to the American economy. Beyond investment banking, the Board believes that highly capitalized banking firms should be authorized to engage in a wider range of financial activities as a part of the modernization of our financial structure and the maintenance of strong, profitable financial institutions that can compete in world markets. A banking system that cannot adapt to the changing competitive and technological environment will no longer be able to attract and maintain the higher capital level that some of our institutions need to operate without excessive reliance on the safety net.

Firms primarily engaged in the financial activities authorized to banking organizations should likewise be permitted to operate an insured bank. The Congress, of course, will have to give careful consideration to how to handle the activities some of these entities are already engaged in that would not be permitted to banking organizations. More generally, as we expand the range of activities available to banks and their subsidiaries or affiliates, competitive equity suggests the desirability of functional regulation. Under such an approach, each area of activity should be subject to the same regulatory constraints as equivalent or very similar functions at nonbank firms.

As the Congress considers modernization of our banking structure to meet the needs of the twenty-first century, it should not only widen the permissible activities of well-capitalized banking organizations but also eliminate outdated statutes that only increase costs. The McFadden Act forces state member banks and national banks to deliver interstate services only through separately capitalized bank holding company subsidiaries (where permitted by state law) rather than through branches. Such a system reduces the ability of many smaller banks to diversify geographically and raises costs for all banking organizations that operate in more than one state, a curious requirement as we search for ways to make banks more competitive and profitable. The McFadden Act ought to be amended to permit interstate branching by banks.

In summary, events have made it clear that we ought not to permit banks, because of their access to the safety net, to take excessive risk with inadequate capital. Even if we were to ignore the potential taxpayer costs, we ought not to permit a system that is so inconsistent with efficient market behavior. In the process of reform, however, we should be certain we consider carefully the implications for macroeconomic stability. The Board believes that higher capital and prompt corrective action by supervisors to resolve problems will go a long way to eliminate excessive risktaking by insured institutions and would not preclude additional deposit insurance

reform, now or later. Moreover, we believe that with such an approach the Congress should feel comfortable with authorizing banking organizations to expand the scope of their financial activities. Indeed, we believe that permitting wider activities is necessary to ensure that such organizations can remain competitive both here and abroad. Increased activities are also required to sustain the profitability needed if banking firms are to attract capital. To limit the risks of safety net transference, some new activities might be made available by banking regulators only to banks with impressive capital positions. We believe that whatever the regulatory form and structure under which new activities are permitted, one agency should have oversight responsibility sufficient to protect the bank from excessive risks taken in other parts of its broader organization. It is also our view that, with these suggested reforms, reliance on stringent fire walls would not be necessary. And the McFadden Act should be amended to permit banks to deliver their services at the lowest possible costs and to more easily diversify their geographic risks. The Board has shared its views with the Treasury as part of our continuing consultations on these matters, especially in the context of their FIRREA-mandated study.

Finally, in considering all proposals, we should remind ourselves that our objective is a strong and stable financial system that can deliver the best services at the lowest cost and compete around the world without taxpayer support. This objective requires the modernization of our financial system and the weaning of some institutions from the unintended benefits that accompany the safety net. Higher capital requirements may well mean a relatively leaner and more efficient banking system, and they will certainly mean one with reduced inclinations toward risk. However, the Board believes that our proposed reforms—including the authorization of wider activities by banking organizations—will go a long way toward ensuring a safer and more efficient financial system and lay the groundwork for other modifications in the safety net in the years ahead.

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Joint Economic Committee, U.S. Congress, September 19, 1990.

It is a pleasure to be here today to discuss the state of the economy and the appropriate course for policy in the current situation.

When I presented the Federal Reserve's semiannual report on monetary policy to the Congress in July, I noted that the pace of economic activity had slowed considerably this year. Real gross national product rose at only a 1½ percent annual rate, on average, in the first half, and the available indicators suggest that real growth remained slow during the summer. Private employment has been flat over the past two months, and the unemployment rate, which had fluctuated narrowly for several quarters, has edged up since midyear.

Despite the general sluggishness in business activity this year, the underlying trend in inflation has not improved. In fact, the core rate of inflation in consumer prices may have crept higher. Moreover, the chance of a significant break soon in the inflation trend would seem to have diminished in view of the additional pressures from oil prices.

In my July testimony, I noted that the Board members and Reserve Bank presidents expected the economy to expand at a moderate pace over the ensuing year and a half, while prices were anticipated to rise less rapidly than they had earlier this year. Most private forecasters shared that assessment. Regrettably, events in the Middle East have introduced new and substantial risks to the outlook. The higher oil prices already have added to overall price pressures and may have begun to restrain real activity. Besides the effects of the higher oil prices per se, just the enormous uncertainty about how and when the tensions in the Persian Gulf will be resolved undoubtedly is affecting the economy in a negative way.

If we knew how oil prices were going to move in coming months, it would be feasible—at least in principle—to trace out the effects of the 1990 "oil shock" on the U.S. economy. Economic theory supplies an analytical framework, and empirical analyses of past experience provide rough indications of the likely direction and size of the impacts.

Admittedly, even the most sophisticated econometric models are simplified, almost crude, representations of economic reality. They vary in their readings of history and cannot capture completely the scope and complexity of the economy's interrelationships or changes in its structure over time. Moreover, they cannot take into account the political and military unknowns in the current situation. Nonetheless, such models can be employed to identify the directions, and rough orders of magnitude, of the average effects of changes in oil prices. This is certainly a useful first step in policy analysis.

Suppose, for example, that crude oil prices were to average something under \$30 per barrel over the next year—roughly in line with what is suggested by current transactions in the spot and futures markets. This would be approximately \$10 per barrel above their July level. Representative models suggest that such a \$10 per barrel increase in the price of oil would add 1½ to 2 percent to the level of overall consumer prices over the next year. Much of the increase in the overall price level reflects the pass-through of higher costs of crude oil into prices of domestically consumed petroleum products. These direct effects typically appear relatively quickly; indeed, such effects already were evident in yesterday's report on the consumer price index for August and undoubtedly will remain sizable in the September figures as well. Other, less direct, effects will build over time. Prices for competing energy products will be bid up, and those of goods and services that use energy as an input will rise more rapidly than they otherwise would have. A sustained higher oil price also would tend to feed through—with some lag—to wages, as workers seek to offset losses in their real income.

The effects on economic activity work through several channels and are more difficult to sort out. The range of empirical estimates is doubtless wider than for prices, but a representative figure is that a sustained increase of \$10 per barrel of oil would reduce the level of real GNP roughly 1 percent within a year. Much of this loss in output arises because—to the extent that the United States is a net importer of oil—a hike in oil prices

drains away purchasing power from American energy users to foreign oil producers. Indeed, with imports of petroleum and products currently averaging about 8½ million barrels per day, a \$10 per barrel rise in the oil price adds roughly \$30 billion to our annual import bill.

Specifically, the higher consumer prices that result from the oil shock cut into the real disposable income of households, which in turn can be expected to reduce their spending. The weaker path for consumption subsequently can be presumed to spill over to business investment as many firms—their profit margins already squeezed by higher energy costs—lower capital spending in response to the reduced demand for their output.

Over time, the oil-producing countries may increase their purchases of U.S.-produced goods and services. In the current situation, the recent fall in the dollar may also provide some stimulus to our exports and restrain our imports. But, in total, the increment to U.S. GNP from higher net exports probably will be smaller than the drop in domestic demand—particularly in the short run. In addition, the weaker dollar adds upward pressure to U.S. import prices and hence raises further concern about inflation and instability.

Domestic energy producers, like their foreign counterparts, benefit from higher oil prices. At least to some extent, they likely will increase spending on exploration and drilling, or other types of investment. Nonetheless, this offset, too, probably will be relatively small in the near term, as producers—not knowing whether the higher oil price will be sustained—are likely to be reluctant to undertake major projects.

Turning from the abstract to the current reality, hard data on the output of goods and services in the period since the invasion of Kuwait are limited, and it is difficult to distinguish the effects of higher oil prices from developments that would have occurred anyway. Clearly, growth is, at best, sluggish. Nonetheless, judging from both hard data and more anecdotal reports, we are not—at least as yet—witnessing a cumulative unwinding of economic activity.

Outlays on new cars and light trucks should be sensitive to the uncertainty shock that the Persian Gulf crisis has imparted, yet they have softened only moderately from the pace of earlier in the summer. In addition, the advance estimates for August suggest that retail sales of other items were about the same in real terms as in the preceding few months. Nonetheless, prospects for consumer demand are highly uncertain, especially in light of the sharp deterioration in consumer sentiment recorded in a variety of surveys since the Middle East crisis began. For example, the indexes compiled by the Survey Research Center at the University of Michigan and by the Conference Board both plummeted in August to their lowest levels since 1983.

As yet, there is no statistical evidence on how prospects for business investment may have changed as a consequence of the oil shock. But the available anecdotal information clearly has taken on a more pessimistic tone over the past several weeks. Notably, the latest information provided to the Federal Reserve Banks by businesses and other contacts suggests a greater caution on the part of firms in the acquisition of capital goods, in some cases because of increased uncertainty. The reports from the District Banks are summarized in the so-called Beige Book, which will be released later today.

It would be surprising if the recent developments did not give rise to some pullback by consumers and businesses. But the paucity of hard data makes it difficult to assess the extent of any cutbacks in spending or production that may be under way. It is also difficult to put the information in perspective. For example, the sharp drop in consumer attitudes may be largely a reflexive response to bad news, rather than an objective assessment of the outlook for income and employment. If so, attitudes, and spending in turn, may improve, once the initial shock effect wears off. On the other hand, the surveys may be signalling a more basic weakness in demand that will not be eased by the mere passage of time. The prospects for weakness cascading throughout the economy do not as yet appear compelling, in part because of the tight rein that businesses have been keeping on inventories. Nonetheless, we must remain alert to the possibility of such a development.

Whether an efficacious policy response to current developments would seek higher, lower, or unchanged interest rates will depend on the specifics of the situation, which are

shifting day by day. In framing policy, however, we must not lose sight of the fact that there is no policy initiative that can in the end prevent the transfer of wealth, and cut in our standard of living, that stems from higher prices for imported oil. In addition, we must take into account the policy problems that already were present before the oil shock. For example, as I reported to the Congress in July, we made an adjustment to policy at that time in response to evidence, including Federal Reserve surveys, that banks—along with other lenders—had tightened credit. Data since that time have validated the earlier assessment, and, of course, we shall continue to evaluate all of the evidence relating to credit conditions.

Another key issue one must address is how much of any change in short-term rates would carry over to the crucially important *long-term* rates, given the concern in financial markets about prospects for inflation and about future economic developments. It is lower long-term rates, rather than short rates, that can do the most to foster the investment activity that is critical for the future health of the economy. Specifically, lower mortgage rates clearly would be useful in containing the current erosion of real estate markets. Policy actions that are not perceived to be consistent with a stable, noninflationary economic environment could easily be counterproductive over the long haul.

It is the responsibility of monetary policy to look through the uncertainty of the near term and to provide the stable financial environment that is consistent with our longer-run objectives. We shall want, for example, to make sure that money and credit remain on appropriate growth tracks, with due allowance for the special influences affecting the demand for money and its velocity; among those influences are the credit developments to which I referred a moment ago. Indeed, one could argue that the restrained stance of

monetary policy over the past few years may have reduced the odds of the oil shock igniting a more general acceleration of prices and a sharp escalation of bond yields.

In any event, the surest way to bring down real long-term interest rates is to reduce the federal budget deficit. As you know, some have expressed concern in recent weeks that a large cut in the FY1991 budget—coming on top of the oil shock—would risk tipping the economy into recession. Such fears are understandable; however, they must be balanced against the benefits that will flow from reducing the federal government's claim on the nation's limited pool of saving. Because the government has been borrowing so much and for so long, it is well past time to scale back its draw on credit markets and to free up more resources for enhancing investment and production by the private sector.

The participants in the Budget Summit are endeavoring to craft a package of sizable deficit reductions. If they succeed and the Congress does enact a credible, long-term, enforceable budget agreement, I would expect long-term interest rates to decline.

In that context, I would presume that the Federal Reserve would move toward ease to accommodate those changes in the capital markets. What adjustment might be necessary, and how it might be timed, cannot be spelled out before the fact. The actions required will depend on current economic conditions, the nature and magnitude of the fiscal package, and the likely timing of its effects.

In the final analysis, no one can guarantee that real growth will proceed smoothly, without a hitch on a quarter-to-quarter basis. I can only offer the assurance that the Federal Reserve will seek, as we have in the past, to foster economic stability and sustainable growth, in the context of continued progress over time toward price stability.

Announcements

REGULATION Z: AMENDMENTS

The Federal Reserve Board issued on September 14, 1990, amendments to its Regulation Z (Truth in Lending) relating to home equity lines of credit. The final rules become effective September 19, 1990, but compliance is not mandatory until October 1, 1991.

One of the amendments allows creditors to continue to freeze the home equity line of credit if the rate cap is reached, stipulating that this condition is specified in the contract. The other amendment requires that all repayment phase disclosures be given to consumers when they receive the application for the line of credit.

REGULATION K: EXTENSION OF COMMENT PERIOD ON PROPOSED REVISIONS

The Federal Reserve Board on September 26, 1990, extended the period to receive comments on its proposed revision to Regulation K (International Banking Operations) that would permit U.S. banking organizations to extend the scope of their international activities. Comment must now be received by October 14, 1990, instead of by September 30, 1990.

REVISED BROCHURE A Guide to Business Credit for Women, Minorities, and Small Businesses

The Federal Reserve Board announced on September 14, 1990, the availability of a newly revised and retitled brochure designed to assist women, minorities, and small businesses in obtaining startup or additional financing. The publication is entitled A Guide to Business Credit for Women, Minorities, and Small Businesses.

The brochure helps to demystify the commercial credit process and provides guidance on how

to prepare effectively the necessary loan application documentation. The guide also points out that both the borrower and the lender have certain responsibilities. If a borrower does not obtain the credit at first, he or she is encouraged to find out the reasons why from the lender, and to make the necessary improvements, while realizing that getting credit has always been troublesome if the documentation is not in order. Within the guide, the reader will find some sources for technical assistance and recourses to take if the application is not approved.

Copies of the brochure are available from the Board's Publications Services, mail stop 138, Board of Governors of the Federal Reserve System, Washington, D.C. 20551 or from the District Reserve Banks.

PUBLICATION OF NEW BROCHURE Home Mortgages: Understanding the Process and Your Rights

The Federal Reserve Board announced on September 20, 1990, the publication of a new brochure regarding mortgage discrimination entitled Home Mortgages: Understanding the Process and Your Rights.

The brochure describes a mortgage, tells how to shop for one and what to look for, outlines the application process, and advises a potential homebuyer on how to register complaints if the consumer thinks that he or she may have been discriminated against. To help a consumer make this determination, the brochure lists some common discrimination practices and states some of the laws that provide consumers with protection regarding homeownership.

Copies of the brochure are available from the Board's Publications Services, mail stop 138, Board of Governors of the Federal Reserve System, Washington, D.C. 20551 or from the District Reserve Banks.

Legal Developments

FINAL RULE - REVISION TO REGULATION J

The Board of Governors is revising 12 C.F.R. Part 210, Subpart B to its Regulation J (Funds Transfers Through Fedwire), to make it consistent with the new Article 4A of the Uniform Commercial Code, Funds Transfers. The revision sets out the rules governing funds transfers through Fedwire, as well as Commentary to the regulation that constitutes a Board interpretation of the regulation.

Effective January 1, 1991, 12 C.F.R. Part 210, is revised to read as follows:

1. The authority citation for Part 210 is revised to read as follows:

Authority: Federal Reserve Act, sec. 13 (12 U.S.C. 342), sec. 11(i) and (j) (12 U.S.C. 248(i) and (j)), sec. 16 (12 U.S.C. 248(o) and 360), and sec. 19(f) (12 U.S.C. 464); and the Expedited Funds Availability Act (12 U.S.C. 4001 et seq.)

2. The heading to Part 210 is revised to read as follows:

Part 210 - Regulation J (Collection of Checks and Other Items by Federal Reserve Banks and Funds Transfers Through Fedwire)

3. Subpart B is revised to read as follows:

Subpart B — Funds Transfers Through Fedwire

Section 210.25	Authority, purpose, and scope.
Section 210.26	Definitions.
Section 210.27	Reliance on identifying number.
Section 210.28	Agreement of sender.
Section 210.29	Agreement of receiving bank.
Section 210.30	Payment orders.
Section 210.31	Payment by a Federal Reserve
	Bank to a receiving bank or bene-
	ficiary.
Section 210.32	Federal Reserve Bank liability:

payment of interest.

APPENDIX A TO SUBPART B - COMMENTARY

Appendix B to Subpart B — Article 4A.

Subpart B — Funds Transfers through Fedwire

Section 210.25—Authority, purpose, and scope.

- (a) Authority and purpose. This Subpart provides rules to govern funds transfers through Fedwire, and has been issued pursuant to the Federal Reserve Act—section 13 (12 U.S.C. 342), paragraph (f) of section 19 (12 U.S.C. 464), paragraph 14 of section 16 (12 U.S.C. 248(0)), and paragraphs (i) and (j) of section 11 (12 U.S.C. 248(i) and (j)) and other laws and has the force and effect of federal law. This Subpart is not a funds-transfer system rule as defined in Section 4A-501(b) of Article 4A.
- (b) Scope.
 - (1) This Subpart incorporates the provisions of Article 4A set forth in Appendix B. In the event of an inconsistency between the provisions of the sections of this Subpart and Appendix B, the provisions of the sections of this Subpart shall prevail.
 - (2) Except as otherwise provided in paragraphs (3) and (4) below, this Subpart governs the rights and obligations of:
 - (i) Federal Reserve Banks sending or receiving payment orders;
 - (ii) senders that send payment orders directly to a Federal Reserve Bank;
 - (iii) receiving banks that receive payment orders directly from a Federal Reserve Bank;
 - (iv) beneficiaries that receive payment for payment orders sent to a Federal Reserve Bank by means of credit to an account maintained or used at a Federal Reserve Bank; and
 - (v) other parties to a funds transfer any part of which is carried out through Fedwire to the same extent as if this Subpart were considered a fundstransfer system rule under Article 4A.
 - (3) This Subpart governs a funds transfer that is sent through Fedwire, as provided in paragraph (b)(2), even though a portion of the funds transfer is governed by the Electronic Fund Transfer Act, but

- the portion of such funds transfer that is governed by the Electronic Fund Transfer Act is not governed by this Subpart.
- (4) In the event that any portion of this Subpart establishes rights or obligations with respect to the availability of funds that are also governed by the Expedited Funds Availability Act or the Board's Regulation CC, Availability of Funds and Collection of Checks, those provisions of the Expedited Funds Availability Act or Regulation CC shall apply and the portion of this Subpart, including Article 4A as incorporated herein, shall not apply.
- (c) Operating Circulars. Each Federal Reserve Bank shall issue an Operating Circular consistent with this Subpart that governs the details of its funds-transfer operations and other matters it deems appropriate. Among other things, the Operating Circular may: set cut-off hours and funds-transfer business days; address available security procedures; specify format and media requirements for payment orders; identify messages that are not payment orders; and impose charges for funds-transfer services.
- (d) Government senders, receiving banks, and beneficiaries. Except as otherwise expressly provided by the statutes of the United States, the parties specified in paragraphs (b)(ii) (v) include:
 - (1) a department, agency, instrumentality, independent establishment, or office of the United States, or a wholly-owned or controlled Government corporation:
 - (2) an international organization;
 - (3) a foreign central bank; and
 - (4) a department, agency, instrumentality, independent establishment, or office of a foreign government, or a wholly-owned or controlled corporation of a foreign government.

Section 210.26—Definitions.

As used in this Subpart, the following definitions apply:

- (a) Article 4A means Article 4A of the Uniform Commercial Code as set forth in Appendix B.
- (b) As of adjustment means a debit or credit, for reserve or clearing balance maintenance purposes only, applied to the reserve or clearing balance of a bank that either sends a payment order to a Federal Reserve Bank, or that receives a payment order from a Federal Reserve Bank, in lieu of an interest charge or payment.
- (c) Automated clearing house transfer means any transfer designated as an automated clearing house transfer in a Federal Reserve Bank Operating Circular. (d) Beneficiary's bank has the same meaning as in Article 4A, except that:

- (1) a Federal Reserve Bank need not be identified in the payment order in order to be the beneficiary's bank; and
- (2) the term includes a Federal Reserve Bank when that Federal Reserve Bank is the beneficiary of a payment order.
- (e) Fedwire is the funds-transfer system owned and operated by the Federal Reserve Banks that is used primarily for the transmission and settlement of payment orders governed by this Subpart. Fedwire does not include the system for making automated clearing house transfers.
- (f) Interdistrict transfer means a funds transfer involving entries to accounts maintained at two Federal Reserve Banks.
- (g) Intradistrict transfer means a funds transfer involving entries to accounts maintained at one Federal Reserve Bank.
- (h) Off-line bank means a bank that transmits payment orders to and receives payment orders from a Federal Reserve Bank by telephone orally or by other means other than electronic data transmission.
- (i) Payment order has the same meaning as in Article 4A, except that the term does not include automated clearing house transfers or any communication designated in a Federal Reserve Bank Operating Circular issued under this Subpart as not being a payment order.
- (j) Sender's account, receiving bank's account, and beneficiary's account mean the reserve, clearing, or other funds deposit account at a Federal Reserve Bank maintained or used by the sender, receiving bank, or beneficiary, respectively.
- (k) Sender's Federal Reserve Bank and receiving bank's Federal Reserve Bank mean the Federal Reserve Bank at which the sender or receiving bank, respectively, maintains or uses an account.

Section 210.27—Reliance on identifying number.

- (a) Reliance by a Federal Reserve Bank on number to identify an intermediary bank or beneficiary's bank. A Federal Reserve Bank may rely on the number in a payment order that identifies the intermediary bank or beneficiary's bank, even if it identifies a bank different from the bank identified by name in the payment order, if the Federal Reserve Bank does not know of such an inconsistency in identification. A Federal Reserve Bank has no duty to detect any such inconsistency in identification.
- (b) Reliance by a Federal Reserve Bank on number to identify beneficiary. A Federal Reserve Bank, acting as a beneficiary's bank, may rely on the number in a payment order that identifies the beneficiary, even if it

identifies a person different from the person identified by name in the payment order, if the Federal Reserve Bank does not know of such an inconsistency in identification. A Federal Reserve Bank has no duty to detect any such inconsistency in identification.

Section 210.28—Agreement of sender.

- (a) Payment of sender's obligation to a Federal Reserve Bank. A sender (other than a Federal Reserve Bank), by maintaining or using an account with a Federal Reserve Bank, authorizes the sender's Federal Reserve Bank to obtain payment for the sender's payment orders by debiting the amount of the payment order from the sender's account.
- (b) Overdrafts.
 - (1) A sender does not have the right to an overdraft in the sender's account. In the event an overdraft is created, the overdraft shall be due and payable immediately without the need for a demand by the Federal Reserve Bank, at the earliest of the following times:
 - (i) at the end of the funds-transfer day;
 - (ii) at the time the Federal Reserve Bank, in its sole discretion, deems itself insecure and gives notice thereof to the sender; or
 - (iii) at the time the sender suspends payments or is closed.
 - (2) The sender shall have in its account, at the time the overdraft is due and payable, a balance of actually and finally collected funds sufficient to cover the aggregate amount of all its obligations to the Federal Reserve Bank, whether the obligations result from the execution of a payment order or otherwise.
 - (3) To secure any overdraft, as well as any other obligation due or to become due to its Federal Reserve Bank, each sender, by sending a payment order to a Federal Reserve Bank that is accepted by the Federal Reserve Bank, grants to the Federal Reserve Bank a security interest in all of the sender's assets in the possession of, or held for the account of, the Federal Reserve Bank. The security interest attaches when an overdraft, or any other obligation to the Federal Reserve Bank, becomes due and payable.
 - (4) A Federal Reserve Bank may take any action authorized by law to recover the amount of an overdraft that is due and payable, including, but not limited to, the exercise of rights of set off, the realization on any available collateral, and any other rights it may have as a creditor under applicable law.
- (c) Review of payment orders. A sender, by sending a payment order to a Federal Reserve Bank, agrees that for the purposes of Sections 4A-204(a) and 4A-304 of

Article 4A, a reasonable time to notify a Federal Reserve Bank of the relevant facts concerning an unauthorized or erroneously executed payment order is within 30 calendar days after the sender receives notice that the payment order was accepted or executed, or that the sender's account was debited with respect to the payment order.

Section 210.29—Agreement of receiving bank.

- (a) Payment. A receiving bank (other than a Federal Reserve Bank) that receives a payment order from its Federal Reserve Bank authorizes that Federal Reserve Bank to pay for the payment order by crediting the amount of the payment order to the receiving bank's account.
- (b) Off-line banks. An off-line bank that does not expressly notify its Federal Reserve Bank in writing that it maintains an account for another bank warrants to that Federal Reserve Bank that the off-line bank does not act as an intermediary bank or a beneficiary's bank with respect to payment orders received through Fedwire for a beneficiary that is a bank.

Section 210.30—Payment orders.

- (a) Rejection. A sender shall not send a payment order to a Federal Reserve Bank unless authorized to do so by the Federal Reserve Bank. A Federal Reserve Bank may reject, or impose conditions that must be satisfied before it will accept, a payment order for any reason.
- (b) Selection of an intermediary bank. For an interdistrict transfer, a Federal Reserve Bank is authorized and directed to execute a payment order through another Federal Reserve Bank. A sender shall not send a payment order to a Federal Reserve Bank that requires the Federal Reserve Bank to issue a payment order to an intermediary bank (other than a Federal Reserve Bank) unless that intermediary bank is designated in the sender's payment order. A sender shall not send to a Federal Reserve Bank a payment order instructing use by a Federal Reserve Bank of a fundstransfer system or means of transmission other than Fedwire, unless the Federal Reserve Bank agrees with the sender in writing to follow such instructions.
- (c) Same-day execution. A sender shall not issue a payment order that instructs a Federal Reserve Bank to execute the payment order on a funds-transfer business day that is later than the funds-transfer business day on which the order is received by the Federal Reserve Bank, unless the Federal Reserve Bank agrees with the sender in writing to follow such instructions.

Section 210.31—Payment by a Federal Reserve Bank to a receiving bank or beneficiary.

(a) Payment to a receiving bank. Payment of a Federal Reserve Bank's obligation to pay a receiving bank (other than a Federal Reserve Bank) occurs at the earlier of the time when the amount of the payment order is credited to the receiving bank's account or when the payment order is sent to the receiving bank. (b) Payment to a beneficiary. Payment by a Federal Reserve Bank to a beneficiary of a payment order, where the Federal Reserve Bank is the beneficiary's bank, occurs at the earlier of the time when the amount of the payment order is credited to the beneficiary's account or when notice of the credit is sent to the beneficiary.

Section 210.32—Federal Reserve Bank liability; payment of interest.

- (a) Damages. In connection with its handling of a payment order under this Subpart, a Federal Reserve Bank shall not be liable to a sender, receiving bank, beneficiary, or other Federal Reserve Bank, governed by this Subpart, for any damages other than those payable under Article 4A. A Federal Reserve Bank shall not agree to be liable to a sender, receiving bank, beneficiary, or other Federal Reserve Bank for consequential damages under Section 4A-305(d) of Article 4A.
- (b) Payment of interest.
 - (1) A Federal Reserve Bank, in its discretion, may satisfy its obligation, or that of another Federal Reserve Bank, to pay compensation in the form of interest under Article 4A by:
 - (i) providing an as of adjustment to its sender, its receiving bank, or its beneficiary, as provided in the Federal Reserve Bank's Operating Circular, in an amount equal to the amount on which interest is to be calculated multiplied by the number of days for which interest is to be calculated; or
 - (ii) paying compensation in the form of interest to its sender, its receiving bank, its beneficiary, or another party to the funds transfer that is entitled to such payment, in an amount that is calculated in accordance with Section 4A-506 of Article 4A.
 - (2) If the sender or receiving bank that is the recipient of an as of adjustment or an interest payment is not the party entitled to compensation under Article 4A, the sender or receiving bank shall pass through the benefit of the as of adjustment or interest payment by making an interest payment, as of the day the as of adjustment or interest payment is effected, to the party entitled to compensation.

- The interest payment that is made to the party entitled to compensation shall not be less than the value of the as of adjustment or interest payment that was provided by the Federal Reserve Bank to the sender or receiving bank. The party entitled to compensation may agree to accept compensation in a form other than a direct interest payment, provided that such an alternative form of compensation is not less than the value of the interest payment that otherwise would be made.
- (c) Nonwaiver of right of recovery. Nothing in this Subpart or any Operating Circular issued hereunder shall constitute, or be construed as constituting, a waiver by a Federal Reserve Bank of a cause of action for recovery under any applicable law of mistake and restitution.

Appendix A to Subpart B — Commentary

The Commentary provides background material to explain the intent of the Board of Governors of the Federal Reserve System (Board) in adopting a particular provision in the Subpart and to help readers interpret that provision. In some comments, examples are offered. The Commentary constitutes an official Board interpretation of Subpart B. Commentary is not provided for every provision of Subpart B, as some provisions are self-explanatory.

Section 210.25—Authority, purpose, and scope.

(a) Authority and purpose. Section 210.25(a) states that the purpose of Subpart B is to provide rules to govern funds transfers through Fedwire and recites the Board's rulemaking authority for this Subpart. Subpart B is federal law and is not a "funds-transfer system rule," as defined in Section 4A-501(b) of Article 4A, Funds Transfers, of the Uniform Commercial Code (UCC), as set forth in Appendix B. Certain provisions of Article 4A may not be varied by a funds-transfer system rule, but under Section 4A-107, regulations of the Board and Operating Circulars of the Federal Reserve Banks supersede inconsistent provisions of Article 4A to the extent of the inconsistency. In addition, regulations of the Board may preempt inconsistent provisions of state law. Accordingly, Subpart B of Regulation J supersedes or preempts inconsistent provisions of state law. It does not affect state law governing funds transfers that does not conflict with the provisions of Subpart B, such as Article 4A, as enacted in any state, as it applies to parties to funds transfers through Fedwire whose rights are not governed by Subpart B.

(b) Scope.

(1) Subpart B incorporates the provisions of Article 4A set forth in Appendix B. The provisions set forth expressly in the sections of Subpart B supersede or preempt any inconsistent provisions of Article 4A as set forth in Appendix B or as enacted in any state. The official comments to Article 4A are not incorporated in Subpart B or this Commentary to Subpart B, but the official comments may be useful in interpreting Article 4A. Because Section 4A-105 refers to other provisions of the Uniform Commercial Code, e.g., definitions in Article 1 of the UCC, these other provisions of the UCC, as approved by the National Conference of Commissioners on Uniform State Laws and the American Law Institute, from time to time, are also incorporated in Subpart B. Subpart B applies to any party to a Fedwire funds transfer that is in privity with a Federal Reserve Bank. These parties include a sender (bank or nonbank) that sends a payment order directly to a Federal Reserve Bank, a receiving bank that receives a payment order directly from a Federal Reserve Bank, and a beneficiary that receives credit to an account that it uses or maintains at a Federal Reserve Bank for a payment order sent to a Federal Reserve Bank. Other parties to a funds transfer are covered by this Subpart to the same extent that this Subpart would apply to them if this Subpart were a "funds-transfer system rule" under Article 4A that selected Subpart B as the governing law.

(2) The scope of the applicability of a funds-transfer system rule under Article 4A is specified in Section 4A-501(b), and the scope of the choice of law provision is specified in Section 4A-507(c). Under Section 4A-507(c), a choice of law provision is binding on the participants in a funds-transfer system and certain other parties having notice that the funds-transfer system might be used for the funds transfer and of the choice of law provision. The Uniform Commercial Code provides that a person has notice when the person has actual knowledge, receives notification or has reason to know from all the facts and circumstances known to the person at the time in question. (See UCC Section 1-201(25).) However, under Sections 4A-507(b) and 4A-507(d), a choice of law by agreement of the parties takes precedence over a choice of law made by fundstransfer system rule.

(3) If originators, receiving banks, and beneficiaries that are not in privity with a Federal Reserve Bank have the notice contemplated by Section 4A-507(c) or if those parties agree to be bound by Subpart B, Subpart B generally would apply to payment orders between those remote parties, including participants in other funds-transfer systems. For example, a

funds transfer may be sent from an originator's bank through a funds-transfer system other than Fedwire to a receiving bank which, in turn, sends a payment order through Fedwire to execute the funds transfer. Similarly, a Federal Reserve Bank may execute a payment order through Fedwire to a receiving bank that sends it through a funds-transfer system other than Fedwire to a beneficiary's bank. In the first example, if the originator's bank has notice that Fedwire may be used to effect part of the funds transfer, the sending of the payment order through the other funds-transfer system to the receiving bank will be governed by Subpart B unless the parties to the payment order have agreed otherwise. In the second example, if the beneficiary's bank has notice that Fedwire may be used to effect part of the funds transfer, the sending of the payment order to the beneficiary's bank through the other fundstransfer system will be governed by Subpart B unless the parties have agreed otherwise. In both cases, the other funds-transfer system's rules would also apply to, at a minimum, the portion of these funds transfers going through that funds-transfer system. Because Subpart B is federal law, to the extent of any inconsistency, Subpart B will take precedence over any funds-transfer system rule applicable to the remote sender or receiving bank or to a Federal Reserve Bank. If remote parties to a funds transfer, a portion of which is sent through Fedwire, have expressly selected by agreement a law other than Subpart B under Section 4A-507(b), Subpart B would not take precedence over the choice of law made by the agreement even though the remote parties had notice that Fedwire may be used and of the governing law. (See 4A-507(d)). In addition, Subpart B would not apply to a funds transfer sent through another funds-transfer system where no Federal Reserve Bank handles the funds transfer, even though settlement for the funds transfer is made by means of a separate net settlement or funds transfer through Fedwire.

(4) Under Section 4A-108, Article 4A does not apply to a funds transfer, any part of which is governed by the Electronic Fund Transfer Act (15 U.S.C. 1693 et seq.). Fedwire funds transfers to or from consumer accounts are exempt from the Electronic Fund Transfer Act and Regulation E (12 C.F.R. Part 205). A funds transfer from a consumer originator or a funds transfer to a consumer beneficiary could be carried out in part through Fedwire and in part through an automated clearing house or other means that is subject to the Electronic Fund Transfer Act or Regulation E. In these cases, Subpart B would not govern the portion of the funds transfer that is governed by the Electronic Fund Transfer

Act or Regulation E. (See Commentary to Section 210.26(i) "payment order".)

(5) Finally, Section 4A-404(a) provides that a beneficiary's bank is obliged to pay the amount of a payment order to the beneficiary on the payment date unless acceptance of the payment order occurs on the payment date after the close of the fundstransfer business day of the bank. The Expedited Funds Availability Act provides that funds received by a bank by wire transfer shall be available for withdrawal not later than the banking day after the business day on which such funds are received (12 U.S.C. 4002(a)). That Act also preempts any provision of state law that was not effective on September 1, 1989 that is inconsistent with that Act or its implementing Regulation CC (12 C.F.R. Part 229). Accordingly, the Expedited Funds Availability Act and Regulation CC may preempt Section 4A-404(a) as enacted in any state. In order to ensure that Section 4A-404(a), or other provisions of Article 4A, as incorporated in Subpart B, do not take precedence over provisions of the Expedited Funds Availability Act, this section provides that where Subpart B establishes rights or obligations that are also governed by the Expedited Funds Availability Act or Regulation CC, the Expedited Funds Availability Act or Regulation CC provision shall apply and Subpart B shall not apply.

(c) Operating Circulars. The Federal Reserve Banks issue Operating Circulars consistent with this Subpart that contain additional provisions applicable to payment orders sent through Fedwire. Under Section 4A-107, these Operating Circulars supersede inconsistent provisions of Article 4A, as set forth in Appendix B and as enacted in any state. These Operating Circulars are not funds-transfer system rules, but, by their terms, they are binding on all parties covered by this Subpart.

(d) Government senders, receiving banks, and beneficiaries. This section clarifies that unless a statute of the United States provides otherwise, Subpart B applies to governmental entities, domestic or foreign, including foreign central banks as specified in paragraph (b)(1).

Section 210.26—Definitions.

Article 4A defines many terms (e.g., "beneficiary," "intermediary bank," "receiving bank," "security procedure") used in this Subpart. These terms are defined or listed in Sections 4A-103 through 4A-105. These terms, such as the term "bank" (defined in Section 4A-105(d)(2)), may differ from comparable terms in Subpart A. As Subpart B incorporates consistent provisions of Article 4A, it incorporates these

definitions unless these terms are expressly defined otherwise in Subpart B. This Subpart modifies the definitions of two Article 4A terms, "beneficiary's bank" and "payment order." This Subpart also defines terms not defined in Article 4A.

(a) Article 4A. "Article 4A" means the version of that article of the Uniform Commercial Code set forth in Appendix B. It does not refer to the law of any particular state unless the context indicates otherwise. Subject to the express provisions of this Subpart, this version of Article 4A is incorporated into this Subpart and made federal law for transactions covered by this Subpart.

(b) As of adjustments. As of adjustments are memorandum items that affect a bank's reserve or clearing balance for the purpose of meeting the required balance, but do not represent funds that can be used for other purposes. As discussed in the Commentary to Section 210.32(b), the Federal Reserve Banks generally provide as of adjustments as a means of effecting interest payments or charges.

(d) Beneficiary's bank. The definition of "beneficiary's bank" in Subpart B differs from the Section 4A-103(a)(3) definition. The Subpart B definition clarifies that where a Federal Reserve Bank functions as the beneficiary's bank, it need not be identified in the payment order as the beneficiary's bank and that a Federal Reserve Bank that receives a payment order as beneficiary is also the beneficiary's bank with respect to that payment order.

(e) Fedwire. Fedwire refers to the funds-transfer system owned and operated by the Federal Reserve Banks that is governed by this Subpart. The term does not refer to any particular computer, telecommunications facility, or funds transfer, but to the system as a whole, which may include transfers by telephone or by written instrument in particular circumstances. Fedwire does not include the system used for automated clearing house transfers.

(h) Off-line bank. Most Fedwire payment orders are transmitted electronically from a sender to a Federal Reserve Bank or from a Federal Reserve Bank to a receiving bank. Banks transmitting payment orders to Federal Reserve Banks electronically are often referred to as on-line banks. Some Fedwire participants, however, transmit payment orders to a Federal Reserve Bank or receive payment orders from a Federal Reserve Bank orally by telephone, or, in unusual circumstances, in writing. A bank that does not use either a terminal or a computer that links it electronically to a terminal or computer at its Federal Reserve Bank to send payment orders through Fedwire is an off-line bank.

- (i) Payment order.
 - (1) The definition of "payment order" in Subpart B

differs from the Section 4A-103(a)(1) definition. The Subpart B definition clarifies that, for the purposes of Subpart B, automated clearing house transfers and certain messages that are transmitted through Fedwire are not payment orders. Federal Reserve Banks and banks participating in Fedwire send various types of messages, relating to payment orders or to other matters, through Fedwire that are not intended to be payment orders. Under the Subpart B definition, these messages, and messages involved with automated clearing house transfers, are not "payment orders" and therefore are not governed by this Subpart. The Operating Circulars of the Federal Reserve Banks specify those messages that may be transmitted through Fedwire but that are not payment orders.

(2) In some cases, messages sent through Fedwire, such as certain requests for credit transfer, may be payment orders under Article 4A, but are not treated as payment orders under Subpart B because they are not an instruction to a Federal Reserve Bank to pay money.

(3) This Subpart and Article 4A govern a payment order even though the originator's or beneficiary's account may be a consumer account established primarily for personal, family, or household purposes. Under Section 4A-108, Article 4A does not apply to a funds transfer any part of which is governed by the Electronic Fund Transfer Act. That Act, and Regulation E implementing it, do not apply to funds transfers through Fedwire (see 15 U.S.C. 1693a(6)(B) and 12 C.F.R 205.3(b)). Thus, this Subpart applies to all funds transfers through Fedwire even though some such transfers involve originators or beneficiaries that are consumers. (See also Section 210.25(b) and accompanying Commentary.)

Section 210.27—Reliance on identifying number.

(a) Reliance by a Federal Reserve Bank on number to identify intermediary bank or beneficiary's bank. Section 4A-208 provides that a receiving bank, such as a Federal Reserve Bank, may rely on the routing number of an intermediary bank or the beneficiary's bank specified in a payment order as identifying the appropriate intermediary bank or beneficiary's bank, even if the payment order identifies another bank by name, provided that the receiving bank does not know of the inconsistency. Under Section 4A-208(b)(2), if the sender of the payment order is not a bank, a receiving bank may rely on the number only if the sender had notice before the receiving bank accepted the sender's order that the receiving bank might rely on the num-

ber. This section provides this notice to entities that are not banks, such as the Department of the Treasury, that send payment orders directly to a Federal Reserve Bank.

(b) Reliance by a Federal Reserve Bank on number to identify beneficiary. Section 4A-207 provides that a beneficiary's bank, such as a Federal Reserve Bank, may rely on the number identifying a beneficiary, such as the beneficiary's account number, specified in a payment order as identifying the appropriate beneficiary, even if the payment order identifies another beneficiary by name, provided that the beneficiary's bank does not know of the inconsistency. Under Section 4A-207(c)(2), if the originator is not a bank, an originator is not obliged to pay for a payment order if the originator did not have notice that the beneficiary's bank might rely on the identifying number and the person paid on the basis of the identifying number was not entitled to receive payment. This section of Subpart B provides this notice to entities that are not banks, such as the Department of the Treasury, that are originators of payment orders sent directly by the originators to a Federal Reserve Bank, where that Federal Reserve Bank or another Federal Reserve Bank is the beneficiary's bank (see also Section 4A-402(b), providing that a sender must pay a beneficiary's bank for a payment order accepted by the beneficiary's bank).

Section 210.28—Agreement of sender.

(a) Payment of sender's obligation to a Federal Reserve Bank. When a sender issues a payment order to a Federal Reserve Bank and the Federal Reserve Bank issues a conforming order implementing the sender's payment order, under Section 4A-403, the sender is indebted to the Federal Reserve Bank for the amount of the payment order. A sender, other than a Federal Reserve Bank, that maintains or uses an account at a Federal Reserve Bank authorizes the Federal Reserve Bank to debit that account so that the Federal Reserve Bank can obtain payment for the payment order.

(b) Overdrafts.

(1) In some cases, debits to a sender's account will create an overdraft in the sender's account. The Board and the Federal Reserve Banks have established policies concerning when a Federal Reserve Bank will permit a bank to incur an overdraft in its account at a Federal Reserve Bank. These policies do not give a bank or other sender a right to an overdraft in its account. Subpart B clarifies that a sender does not have a right to such an overdraft. If an overdraft arises, it becomes immediately due and payable at the earliest of: the end of the fundstransfer business day of the Federal Reserve Bank;

the time the Federal Reserve Bank, in its sole discretion, deems itself insecure and gives notice to the sender; or the time that the sender suspends payments or is closed by governmental action, such as the appointment of a receiver. In some cases, a Federal Reserve Bank extends its Fedwire operations beyond its cut-off hour for that funds-transfer business day. For the purposes of this section, unless otherwise specified by the Federal Reserve Bank making such an extension, an overdraft becomes due and payable at the end of the extended operating hours. An overdraft becomes due and payable prior to a Federal Reserve Bank's cut-off hour if the Federal Reserve Bank deems itself insecure and gives notice to the sender. Notice that the Federal Reserve Bank deems itself insecure may be given in accordance with the provisions on notice in Section 1-201(27) of the UCC, in accordance with any other applicable law or agreement, or by any other reasonable means. An overdraft also becomes due and payable at the time that a bank is closed or suspends payments. For example, an overdraft becomes due and payable if a receiver is appointed for the bank or the bank is prevented from making payments by governmental order. The Federal Reserve Bank need not make demand on the sender for the overdraft to become due and payable.

(2) A sender must cover any overdraft and any other obligation of the sender to the Federal Reserve Bank by the time the overdraft becomes due and payable. By sending a payment order to a Federal Reserve Bank, the sender grants a security interest to the Federal Reserve Bank in any assets of the sender held by, or for the account of, the Federal Reserve Bank in order to secure all obligations due or to become due to the Federal Reserve Bank. The security interest attaches when the overdraft, or other obligation of the sender to the Federal Reserve Bank, becomes due and payable. The security interest does not apply to assets held by the sender as custodian or trustee for the sender's customers or third parties. Once an overdraft is due and payable, a Federal Reserve Bank may exercise its right of set off, liquidate collateral, or take other similar action to satisfy the overdrafting bank's obligation owed to the Federal Reserve Bank.

(c) Review of payment orders.

(1) Under Section 4A-204, a receiving bank is required to refund the principal amount of an unauthorized payment order that the sender was not obliged to pay, together with interest on the refundable amount calculated from the date that the receiving bank received payment to the date of the refund. The sender is not entitled to compensation in the form of interest if the sender fails to exercise ordi-

nary care to determine that the order was not authorized and to notify the receiving bank within a reasonable period of time after the sender receives a notice that the payment order was accepted or that the sender's account was debited with respect to the order. Similarly, under Section 4A-304, if a sender of a payment order that was erroneously executed does not notify the bank receiving the payment order within a reasonable time, the bank is not liable to the sender for compensation in the form of interest on any amount refundable to the sender. Section 210.28(d) establishes 30 calendar days as the reasonable period of time for the purposes of these provisions of Article 4A.

(2) Section 4A-505 provides that a customer must object to a debit to its account by a receiving bank within one year after the customer received notification reasonably identifying the payment order. Subpart B does not vary this one-year period.

Section 210.29—Agreement of receiving bank.

(b) Off-line banks.

(1) Generally, an on-line bank receiving payment orders or advices of credit for payment orders from a Federal Reserve Bank receives the payment orders or advices electronically a short time after the corresponding payment orders are received by the on-line bank's Federal Reserve Bank. An off-line bank receiving payment orders or advices of credit from a Federal Reserve Bank does not have an electronic connection with the Federal Reserve Bank; therefore, payment orders or advices are transmitted either by telephone on the day the payment order is received by the receiving bank's Federal Reserve Bank, or sent by courier or mail along with the off-line bank's daily account statement, on the funds-transfer business day following the day the payment order is received by the off-line bank's Federal Reserve Bank.

(2) Under Section 4A-302(a)(2), a Federal Reserve Bank must transmit payment orders at a time and by means reasonably necessary to allow payment to the beneficiary on the payment date, or as soon thereafter as is feasible. Therefore, where an off-line receiving bank is an intermediary bank or beneficiary's bank in a payment order, its Federal Reserve Bank attempts to transmit the payment order to the off-line bank by telephone on the day the payment order, is received by the Federal Reserve Bank. A Federal Reserve Bank can generally identify these payment orders from the type code designated in the payment order.

(3) Under Section 4A-404(b), if a payment order instructs payment to the account of the beneficiary,

the beneficiary's bank must notify the beneficiary of the receipt of a payment order before midnight of the next funds-transfer business day following the payment date. Where an off-line bank is the beneficiary of a payment order, telephone notice by a Federal Reserve Bank to the off-line bank of the receipt of the order is not required by Article 4A because the Federal Reserve Bank sends notice to the off-line bank by courier or mail, along with its daily account statement, on the day after the payment order is received by its Federal Reserve Bank. Payment orders for which an off-line bank is the beneficiary of the order are generally designated as settlement transactions.

(4) If an off-line receiving bank maintains an account for another bank, the off-line bank may receive payment orders designated as settlement transactions in its capacity as beneficiary's bank or intermediary bank. A Federal Reserve Bank cannot readily distinguish these payment orders from settlement transactions for which the off-line bank is the beneficiary of the order. If an off-line bank notifies its Federal Reserve Bank that it maintains an account for another bank, the Federal Reserve Bank will attempt to telephone the off-line bank with respect to all settlement transactions received by such bank, whether the off-line bank is the beneficiary, the beneficiary's bank, or an intermediary bank in the payment order. Under this section, an off-line bank that does not expressly notify its Federal Reserve Bank in writing that it maintains an account for another bank warrants to that Federal Reserve Bank that it does not act as an intermediary bank or a beneficiary's bank for a bank beneficiary with respect to payment orders received through Fedwire.

Section 210.30—Payment orders.

(a) Rejection.

(1) A sender must make arrangements with its Federal Reserve Bank before it can send payment orders to the Federal Reserve Bank. Federal Reserve Banks reserve the right to reject or impose conditions on the acceptance of payment orders for any reason. For example, a Federal Reserve Bank might reject or impose conditions on accepting a payment order where a sender does not have sufficient funds in its account with the Federal Reserve Bank to cover the amount of the sender's payment order and other obligations of the sender due or to become due to the Federal Reserve Bank. A Federal Reserve Bank may require a sender to execute a written agreement concerning security procedures

or other matters before the sender may send payment orders to the Federal Reserve Bank.

(b) Selection of an intermediary bank.

(1) Under Section 4A-302, if a receiving bank (other than a beneficiary's bank), such as a Federal Reserve Bank, accepts a payment order, it must issue a payment order that complies with the sender's order. The sender's order may include instructions concerning an intermediary bank to be used that must be followed by a receiving bank (see Section 4A- 302(a)(1)). If the sender does not designate any intermediary bank in its payment order, the receiving bank may select an intermediary bank through which the sender's payment order can be expeditiously issued to the beneficiary's bank so long as the receiving bank exercises ordinary care in selecting the intermediary bank (see Section 4A-302(b)). (2) This section provides that in an interdistrict transfer, a Federal Reserve Bank is authorized and directed to select another Federal Reserve Bank as an intermediary bank. A sender may, however, instruct a Federal Reserve Bank to use a particular intermediary bank by designating that bank as the bank to be credited by that Federal Reserve Bank (or the second Federal Reserve Bank in the case of an interdistrict transfer) in its payment order, in which case the Federal Reserve Bank will send the payment order to that bank if that bank receives payment orders through Fedwire. A sender may not instruct a Federal Reserve Bank to use its discretion to select an intermediary bank other than a Federal Reserve Bank or an intermediary bank designated by the sender. In addition, a sender may not instruct a Federal Reserve Bank to use a funds-transfer system or means of transmission other than Fedwire unless the sender and the Federal Reserve Bank agree in writing to the use of the funds-transfer system or means of transmission.

(c) Same-day execution. Generally, Fedwire is a same-day value transfer system through which funds may be transferred from the originator to the beneficiary on the same funds-transfer business day. A sender may not send a payment order to a Federal Reserve Bank that specifies an execution date or payment date later than the day on which the payment order is issued, unless the sender of the order and the Federal Reserve Bank agree in writing to the arrangement.

Section 210.31—Payment by a Federal Reserve Bank to a receiving bank or beneficiary.

(a) Payment to a receiving bank.

(1) Under Section 4A-402, when a Federal Reserve Bank executes a sender's payment order by issuing a conforming order to a receiving bank that accepts

the payment order, the Federal Reserve Bank must pay the receiving bank the amount of the payment order. Section 210.29(a) authorizes a Federal Reserve Bank to make the payment by crediting the account at the Federal Reserve Bank maintained or used by the receiving bank. Section 210.31(a) provides that the payment occurs when the receiving bank's account is credited or when the payment order is sent by the Federal Reserve Bank to the receiving bank, whichever is earlier. Ordinarily, payment will occur during the funds-transfer business day a short time after the payment order is received, even if the receiving bank is an off-line bank. This credit is final and irrevocable when made and constitutes final settlement under Section 4A-403. Payment does not waive a Federal Reserve Bank's right of recovery under the applicable law of mistake and restitution (see Section 210.32(c)), affect a Federal Reserve Bank's right to apply the funds to any obligation due or to become due to the Federal Reserve Bank, or affect legal process or claims by third parties on the funds.

- (2) This section on final payment does not apply to settlement for payment orders between Federal Reserve Banks. These payment orders are settled by other means
- (b) Payment to a beneficiary. Section 210.31(b) specifies when a Federal Reserve Bank makes payment to a beneficiary for which it is the beneficiary's bank. As in the case of payment to a receiving bank, this payment occurs at the earlier of the time that the Federal Reserve Bank credits the beneficiary's account or sends notice of the credit to the beneficiary, and is final and irrevocable when made.

Section 210.32—Federal Reserve Bank liability; payment of interest.

(a) Damages.

(1) Under Section 4A-305(d), damages for failure of a receiving bank to execute a payment order that it was obliged to execute by express agreement are limited to expenses in the transaction and incidental expenses and interest and do not include additional damages, including consequential damages, unless they are provided for in an express written agreement of the receiving bank. This section clarifies that in connection with the handling of payment orders, Federal Reserve Banks may not agree to be liable for consequential damages under this provision and shall not be liable for damages other than those that may be due under Article 4A to parties governed by this Subpart. Any agreement in conflict with these provisions would not be effective, because it would be in violation of Subpart B.

(2) This section does not affect the ability of other parties to a funds transfer to agree to be liable for consequential damages, the liability of a Federal Reserve Bank under Section 4A-404, or the liability to parties governed by Subpart B for claims not based on the handling of a payment order under this Subpart.

(b) Payment of interest.

- (1) Under Article 4A, a Federal Reserve Bank may be required to pay compensation in the form of interest to another party in connection with its handling of a funds transfer. For example, payment of compensation in the form of interest is required in certain situations pursuant to Sections 4A-204 (relating to refund of payment and duty of customer to report with respect to unauthorized payment order), 4A-209 (relating to acceptance of payment order), 4A-210 (relating to rejection of payment order), 4A-304 (relating to duty of sender to report erroneously executed payment order), 4A-305 (relating to liability for late or improper execution or failure to execute a payment order), 4A-402 (relating to obligation of sender to pay receiving bank), and 4A-404 (relating to obligation of beneficiary's bank to pay and give notice to beneficiary). Under Section 4A-506(a), the amount of such interest may be determined by agreement between the sender and receiving bank or by funds-transfer system rule. If there is no such agreement, under Section 4A-506(b), the amount of interest is based on the federal funds rate. Section 210.32(b) provides two means by which Federal Reserve Banks may provide compensation in the form of interest: through an as of adjustment or through an explicit interest payment.
- (2) An as of adjustment is a memorandum credit or debit that is applied to the reserve or clearing balance of the bank that sent the payment order to, or received the payment order from, a Federal Reserve Bank. Federal Reserve Banks generally provide as of adjustments to correct errors and recover float. An as of adjustment differs from a debit or credit to an account in that it does not affect the actual balance of the account; it only affects the balance for reserve or clearing balance computation purposes. These adjustments affect the level of reserve or clearing balances that the bank must fund by other means and are therefore an effective substitute for explicit interest payments.
- (3) A party that sent or received a payment order from a Federal Reserve Bank may be unable to make use of an as of adjustment as compensation in lieu of explicit interest. For example, if the sender or receiving bank is not subject to reserve requirements or satisfies its reserve requirements with vault cash, the as of adjustment could not be used to free

other balances for investment. A Federal Reserve Bank may, in its discretion, provide compensation by an explicit interest payment rather than through an as of adjustment. Interest would be calculated in accordance with the procedures specified in Section 4A-506(b). Similarly, compensation in the form of explicit interest will be paid to Government senders, receiving banks, or beneficiaries described in Section 210.25(d) if they are entitled to interest under this Subpart. A Federal Reserve Bank may also, in its discretion, pay explicit interest directly to a remote party to a Fedwire funds transfer that is entitled to interest, rather than providing compensation to its direct sender or receiving bank.

(4) If a bank that received an as of adjustment or explicit interest payment is not the party entitled to interest compensation under Article 4A, the bank must pass the benefit of the as of adjustment or explicit interest payment made to it to the party that is entitled to compensation in the form of interest from a Federal Reserve Bank. The benefit may be passed on either in the form of a direct payment of interest or in the form of a compensating balance, if the party entitled to interest agrees to accept the other form of compensation, and the value of the compensating balance is at least equivalent to the value of the explicit interest that otherwise would have been provided.

(c) Nonwaiver of right of recovery. Several sections of Article 4A allow for a party to a funds transfer to make a claim pursuant to the applicable law of mistake and restitution. Nothing in Subpart B or any Operating Circular issued under Subpart B waives any such claim. A Federal Reserve Bank, however, may waive such a claim by express written agreement in order to settle litigation or for other purposes.

APPENDIX B TO SUBPART B—ARTICLE 4A, FUNDS TRANSFERS

Part 1—Subject Matter and Definitions

Section 4A-101.—Short Title

This Article may be cited as Uniform Commercial Code—Funds Transfers.

Section 4A-102.—Subject Matter

Except as otherwise provided in Section 4A-108, this Article applies to funds transfers defined in Section 4A-104.

Section 4A-103.—Payment Order - Definitions

(a) In this Article:

- (1) "Payment order" means an instruction of a sender to a receiving bank, transmitted orally, electronically, or in writing, to pay, or to cause another bank to pay, a fixed or determinable amount of money to a beneficiary if:
 - (i) the instruction does not state a condition to payment to the beneficiary other than time of payment,
 - (ii) the receiving bank is to be reimbursed by debiting an account of, or otherwise receiving payment from, the sender, and
 - (iii) the instruction is transmitted by the sender directly to the receiving bank or to an agent, funds-transfer system, or communication system for transmittal to the receiving bank.
- (2) "Beneficiary" means the person to be paid by the beneficiary's bank.
- (3) "Beneficiary's bank" means the bank identified in a payment order in which an account of the beneficiary is to be credited pursuant to the order or which otherwise is to make payment to the beneficiary if the order does not provide for payment to an account.
- (4) "Receiving bank" means the bank to which the sender's instruction is addressed.
- (5) "Sender" means the person giving the instruction to the receiving bank.
- (b) If an instruction complying with subsection (a)(1) is to make more than one payment to a beneficiary, the instruction is a separate payment order with respect to each payment.
- (c) A payment order is issued when it is sent to the receiving bank.

Section 4A-104.—Funds Transfer - Definitions

In this Article:

- (a) "Funds transfer" means the series of transactions, beginning with the originator's payment order, made for the purpose of making payment to the beneficiary of the order. The term includes any payment order issued by the originator's bank or an intermediary bank intended to carry out the originator's payment order. A funds transfer is completed by acceptance by the beneficiary's bank of a payment order for the benefit of the beneficiary of the originator's payment order.
- (b) "Intermediary bank" means a receiving bank other than the originator's bank or the beneficiary's bank.
- (c) "Originator" means the sender of the first payment order in a funds transfer.

- (d) "Originator's bank" means
 - (i) the receiving bank to which the payment order of the originator is issued if the originator is not a bank, or
 - (ii) the originator if the originator is a bank.

Section 4A-105.—Other Definitions

(a) In this Article:

- (1) "Authorized account" means a deposit account of a customer in a bank designated by the customer as a source of payment of payment orders issued by the customer to the bank. If a customer does not so designate an account, any account of the customer is an authorized account if payment of a payment order from that account is not inconsistent with a restriction on the use of that account.
- (2) "Bank" means a person engaged in the business of banking and includes a savings bank, savings and loan association, credit union, and trust company. A branch or separate office of a bank is a separate bank for purposes of this Article.
- (3) "Customer" means a person, including a bank, having an account with a bank or from whom a bank has agreed to receive payment orders.
- (4) "Funds-transfer business day" of a receiving bank means the part of a day during which the receiving bank is open for the receipt, processing, and transmittal of payment orders and cancellations and amendments of payment orders.
- (5) "Funds-transfer system" means a wire transfer network, automated clearing house, or other communication system of a clearing house or other association of banks through which a payment order by a bank may be transmitted to the bank to which the order is addressed.
- (6) "Good faith" means honesty in fact and the observance of reasonable commercial standards of fair dealing.
- (7) "Prove" with respect to a fact means to meet the burden of establishing the fact (Section 1–201(8)).
- (b) Other definitions applying to this Article and the sections in which they appear are:

"Acceptance"	Section 4A-209
"Beneficiary"	Section 4A-103
"Beneficiary's bank"	Section 4A-103
"Executed"	Section 4A-301
"Execution date"	Section 4A-301
"Funds transfer"	Section 4A-104
"Funds-transfer system rule"	Section 4A-501
"Intermediary bank"	Section 4A-104
"Originator"	Section 4A-104
"Originator's bank"	Section 4A-104

"Payment by beneficiary's	
bank to beneficiary"	Section 4A-405
"Payment by originator	
to beneficiary"	Section 4A-406
"Payment by sender to	
receiving bank"	Section 4A-403
"Payment date"	Section 4A-401
"Payment order"	Section 4A-103
"Receiving bank"	Section 4A-103
"Security procedure"	Section 4A-201
"Sender"	Section 4A-103

(c) The following definitions in Article 4 apply to this Article:

"Clearing house"	Section 4–104
"Item"	Section 4-104
"Suspends payments"	Section 4-104

(d) In addition Article 1 contains general definitions and principles of construction and interpretation applicable throughout this Article.

Section 4A-106.—Time Payment Order is Received

(a) The time of receipt of a payment order or communication canceling or amending a payment order is determined by the rules applicable to receipt of a notice stated in Section 1-201(27). A receiving bank may fix a cut-off time or times on a funds-transfer business day for the receipt and processing of payment orders and communications canceling or amending payment orders. Different cut-off times may apply to payment orders, cancellations, or amendments, or to different categories of payment orders, cancellations, or amendments. A cut-off time may apply to senders generally or different cut-off times may apply to different senders or categories of payment orders. If a payment order or communication canceling or amending a payment order is received after the close of a funds-transfer business day or after the appropriate cut-off time on a funds-transfer business day, the receiving bank may treat the payment order or communication as received at the opening of the next funds-transfer business day.

(b) If this Article refers to an execution date or payment date or states a day on which a receiving bank is required to take action, and the date or day does not fall on a funds-transfer business day, the next day that is a funds-transfer business day is treated as the date or day stated, unless the contrary is stated in this Article.

Section 4A-107.—Federal Reserve Regulations and Operating Circulars

Regulations of the Board of Governors of the Federal Reserve System and operating circulars of the Federal Reserve Banks supersede any inconsistent provision of this Article to the extent of the inconsistency.

Section 4A-108.—Exclusion of Consumer Transactions Governed by Federal Law

This Article does not apply to a funds transfer any part of which is governed by the Electronic Fund Transfer Act of 1978 (Title XX, Public Law 95–630, 92 Stat. 3728, 15 U.S.C. § 1693 et seq.) as amended from time to time.

Part 2—Issue and Acceptance of Payment Order

Section 4A-201.—Security Procedure

- "Security procedure" means a procedure established by agreement of a customer and a receiving bank for the purpose of:
 - (i) verifying that a payment order or communication amending or canceling a payment order is that of the customer, or
 - (ii) detecting error in the transmission or the content of the payment order or communication. A security procedure may require the use of algorithms or other codes, identifying words or numbers, encryption, callback procedures, or similar security devices. Comparison of a signature on a payment order or communication with an authorized specimen signature of the customer is not by itself a security procedure.

Section 4A-202.—Authorized and Verified Payment Orders

- (a) A payment order received by the receiving bank is the authorized order of the person identified as sender if that person authorized the order or is otherwise bound by it under the law of agency.
- (b) If a bank and its customer have agreed that the authenticity of payment orders issued to the bank in the name of the customer as sender will be verified pursuant to a security procedure, a payment order received by the receiving bank is effective as the order of the customer, whether or not authorized, if:
 - (i) the security procedure is a commercially reasonable method of providing security against unauthorized payment orders, and

- (ii) the bank proves that it accepted the payment order in good faith and in compliance with the security procedure and any written agreement or instruction of the customer restricting acceptance of payment orders issued in the name of the customer. The bank is not required to follow an instruction that violates a written agreement with the customer or notice of which is not received at a time and in a manner affording the bank a reasonable opportunity to act on it before the payment order is accepted.
- (c) Commercial reasonableness of a security procedure is a question of law to be determined by considering the wishes of the customer expressed to the bank, the circumstances of the customer known to the bank, including the size, type, and frequency of payment orders normally issued by the customer to the bank, alternative security procedures offered to the customer, and security procedures in general use by customers and receiving banks similarly situated. A security procedure is deemed to be commercially reasonable if:
 - (i) the security procedure was chosen by the customer after the bank offered, and the customer refused, a security procedure that was commercially reasonable for that customer, and
 - (ii) the customer expressly agreed in writing to be bound by any payment order, whether or not authorized, issued in its name and accepted by the bank in compliance with the security procedure chosen by the customer.
- (d) The term "sender" in this Article includes the customer in whose name a payment order is issued if the order is the authorized order of the customer under subsection (a), or it is effective as the order of the customer under subsection (b).
- (e) This section applies to amendments and cancellations of payment orders to the same extent it applies to payment orders.
- (f) Except as provided in this section and in Section 4A-203(a)(1), rights and obligations arising under this section or Section 4A-203 may not be varied by agreement.

Section 4A-203.—Unenforceability of Certain Verified Payment Orders

(a) If an accepted payment order is not, under Section 4A-202(a), an authorized order of a customer identified as sender, but is effective as an order of the customer pursuant to Section 4A-202(b), the following rules apply:

- (1) By express written agreement, the receiving bank may limit the extent to which it is entitled to enforce or retain payment of the payment order.
- (2) The receiving bank is not entitled to enforce or retain payment of the payment order if the customer proves that the order was not caused, directly or indirectly, by a person
 - (i) entrusted at any time with duties to act for the customer with respect to payment orders or the security procedure, or
 - (ii) who obtained access to transmitting facilities of the customer or who obtained, from a source controlled by the customer and without authority of the receiving bank, information facilitating breach of the security procedure, regardless of how the information was obtained or whether the customer was at fault. Information includes any access device, computer software, or the like.
- (b) This section applies to amendments of payment orders to the same extent it applies to payment order.

Section 4A-204.—Refund of Payment and Duty of Customer to Report With Respect to Unauthorized Payment

- (a) If a receiving bank accepts a payment order issued in the name of its customer as sender which is:
 - (i) not authorized and not effective as the order of the customer under Section 4A-202, or
 - (ii) not enforceable, in whole or in part, against the customer under Section 4A-203, the bank shall refund any payment of the payment order received from the customer to the extent the bank is not entitled to enforce payment and shall pay interest on the refundable amount calculated from the date the bank received payment to the date of the refund. However, the customer is not entitled to interest from the bank on the amount to be refunded if the customer fails to exercise ordinary care to determine that the order was not authorized by the customer and to notify the bank of the relevant facts within a reasonable time not exceeding 90 days after the date the customer received notification from the bank that the order was accepted or that the customer's account was debited with respect to the order. The bank is not entitled to any recovery from the customer on account of a failure by the customer to give notification as stated in this section.
- (b) Reasonable time under subsection (a) may be fixed by agreement as stated in Section 1–204(1), but the obligation of a receiving bank to refund payment as stated in subsection (a) may not otherwise be varied by agreement.

Section 4A-205.—Erroneous Payment Orders

- (a) If an accepted payment order was transmitted pursuant to a security procedure for the detection of error and the payment order:
 - (i) erroneously instructed payment to a beneficiary not intended by the sender,
 - (ii) erroneously instructed payment in an amount greater than the amount intended by the sender, or
 - (iii) was an erroneously transmitted duplicate of a payment order previously sent by the sender, the following rules apply:
 - (1) If the sender proves that the sender or a person acting on behalf of the sender pursuant to Section 4A-206 complied with the security procedure and that the error would have been detected if the receiving bank had also complied, the sender is not obliged to pay the order to the extent stated in paragraphs (2) and (3).
 - (2) If the funds transfer is completed on the basis of an erroneous payment order described in clause (i) or (iii) of subsection (a), the sender is not obliged to pay the order and the receiving bank is entitled to recover from the beneficiary any amount paid to the beneficiary to the extent allowed by the law governing mistake and restitution.
 - (3) If the funds transfer is completed on the basis of a payment order described in clause (ii) of subsection (a), the sender is not obliged to pay the order to the extent the amount received by the beneficiary is greater than the amount intended by the sender. In that case, the receiving bank is entitled to recover from the beneficiary the excess amount received to the extent allowed by the law governing mistake and restitution.
- (b) If (i) the sender of an erroneous payment order described in subsection (a) is not obliged to pay all or part of the order, and
 - (ii) the sender receives notification from the receiving bank that the order was accepted by the bank or that the sender's account was debited with respect to the order, the sender has a duty to exercise ordinary care, on the basis of information available to the sender, to discover the error with respect to the order and to advise the bank of the relevant facts within a reasonable time, not exceeding 90 days, after the bank's notification was received by the sender. If the bank proves that the sender failed to perform that duty, the sender is liable to the bank for the loss the bank proves it incurred as a result of the failure, but the liability of the sender may not exceed the amount of the sender's order.

(c) This section applies to amendments to payment orders to the same extent it applies to payment orders.

Section 4A-206.—Transmission of Payment Order Through Funds-Transfer or Other Communication System

- (a) If a payment order addressed to a receiving bank is transmitted to a funds-transfer system or other third-party communication system for transmittal to the bank, the system is deemed to be an agent of the sender for the purpose of transmitting the payment order to the bank. If there is a discrepancy between the terms of the payment order transmitted to the system and the terms of the payment order transmitted by the system to the bank, the terms of the payment order of the sender are those transmitted by the system. This section does not apply to a funds-transfer system of the Federal Reserve Banks.
- (b) This section applies to cancellations and amendments of payment orders to the same extent it applies to payment orders.

Section 4A-207.—Misdescription of Beneficiary

- (a) Subject to subsection (b), if, in a payment order received by the beneficiary's bank, the name, bank account number, or other identification of the beneficiary refers to a nonexistent or unidentifiable person or account, no person has rights as a beneficiary of the order and acceptance of the order cannot occur.
- (b) If a payment order received by the beneficiary's bank identifies the beneficiary both by name and by an identifying or bank account number and the name and number identify different persons, the following rules apply:
 - (1) Except as otherwise provided in subsection (c), if the beneficiary's bank does not know that the name and number refer to different persons, it may rely on the number as the proper identification of the beneficiary of the order. The beneficiary's bank need not determine whether the name and number refer to the same person.
 - (2) If the beneficiary's bank pays the person identified by name or knows that the name and number identify different persons, no person has rights as beneficiary except the person paid by the beneficiary's bank if that person was entitled to receive payment from the originator of the funds transfer. If no person has rights as beneficiary, acceptance of the order cannot occur.
- (c) If (i) a payment order described in subsection (b) is accepted,

- (ii) the originator's payment order described the beneficiary inconsistently by name and number, and
- (iii) the beneficiary's bank pays the person identified by number as permitted by subsection (b)(1), the following rules apply:
- (1) If the originator is a bank, the originator is obliged to pay its order.
- (2) If the originator is not a bank and proves that the person identified by number was not entitled to receive payment from the originator, the originator is not obliged to pay its order unless the originator's bank proves that the originator, before acceptance of the originator's order, had notice that payment of a payment order issued by the originator might be made by the beneficiary's bank on the basis of an identifying or bank account number even if it identifies a person different from the named beneficiary. Proof of notice may be made by any admissible evidence. The originator's bank satisfies the burden of proof if it proves that the originator, before the payment order was accepted, signed a writing stating the information to which the notice relates.
- (d) In a case governed by subsection (b)(1), if the beneficiary's bank rightfully pays the person identified by number and that person was not entitled to receive payment from the originator, the amount paid may be recovered from that person to the extent allowed by the law governing mistake and restitution as follows:
 - (1) If the originator is obliged to pay its payment order as stated in subsection (c), the originator has the right to recover.
 - (2) If the originator is not a bank and is not obliged to pay its payment order, the originator's bank has the right to recover.

Section 4A-208.—Misdescription of Intermediary Bank or Beneficiary's Bank

- (a) This subsection applies to a payment order identifying an intermediary bank or the beneficiary's bank only by an identifying number.
 - (1) The receiving bank may rely on the number as the proper identification of the intermediary or beneficiary's bank and need not determine whether the number identifies a bank.
 - (2) The sender is obliged to compensate the receiving bank for any loss and expenses incurred by the receiving bank as a result of its reliance on the number in executing or attempting to execute the order.
- (b) This subsection applies to a payment order identifying an intermediary bank or the beneficiary's bank both by name and an identifying number if the name and number identify different persons.

- (1) If the sender is a bank, the receiving bank may rely on the number as the proper identification of the intermediary or beneficiary's bank if the receiving bank, when it executes the sender's order, does not know that the name and number identify different persons. The receiving bank need not determine whether the name and number refer to the same person or whether the number refers to a bank. The sender is obliged to compensate the receiving bank for any loss and expenses incurred by the receiving bank as a result of its reliance on the number in executing or attempting to execute the order.
- (2) If the sender is not a bank and the receiving bank proves that the sender, before the payment order was accepted, had notice that the receiving bank might rely on the number as the proper identification of the intermediary or beneficiary's bank even if it identifies a person different from the bank identified by name, the rights and obligations of the sender and the receiving bank are governed by subsection (b)(l), as though the sender were a bank. Proof of notice may be made by any admissible evidence. The receiving bank satisfies the burden of proof if it proves that the sender, before the payment order was accepted, signed a writing stating the information to which the notice relates.
- (3) Regardless of whether the sender is a bank, the receiving bank may rely on the name as the proper identification of the intermediary or beneficiary's bank if the receiving bank, at the time it executes the sender's order, does not know that the name and number identify different persons. The receiving bank need not determine whether the name and number refer to the same person.
- (4) If the receiving bank knows that the name and number identify different persons, reliance on either the name or the number in executing the sender's payment order is a breach of the obligation stated in Section 4A-302(a)(l).

Section 4A-209.—Acceptance of Payment Order

- (a) Subject to subsection (d), a receiving bank other than the beneficiary's bank accepts a payment order when it executes the order.
- (b) Subject to subsections (c) and (d), a beneficiary's bank accepts a payment order at the earliest of the following times:
 - (1) when the bank (i) pays the beneficiary as stated in Section 4A-405(a) or 4A-405(b), or
 - (ii) notifies the beneficiary of receipt of the order or that the account of the beneficiary has been credited with respect to the order unless the notice indicates that the bank is rejecting the

- order or that funds with respect to the order may not be withdrawn or used until receipt of payment from the sender of the order;
- (2) when the bank receives payment of the entire amount of the sender's order pursuant to Section 4A-403(a)(1) or 4A-403(a)(2); or
- (3) the opening of the next funds-transfer business day of the bank following the payment date of the order if, at that time, the amount of the sender's order is fully covered by a withdrawable credit balance in an authorized account of the sender or the bank has otherwise received full payment from the sender, unless the order was rejected before that time or is rejected within:
 - (i) one hour after that time, or
 - (ii) one hour after the opening of the next business day of the sender following the payment date if that time is later. If notice of rejection is received by the sender after the payment date and the authorized account of the sender does not bear interest, the bank is obliged to pay interest to the sender on the amount of the order for the number of days elapsing after the payment date to the day the sender receives notice or learns that the order was not accepted, counting that day as an elapsed day. If the withdrawable credit balance during that period falls below the amount of the order, the amount of interest payable is reduced accordingly.
- (c) Acceptance of a payment order cannot occur before the order is received by the receiving bank. Acceptance does not occur under subsection (b)(2) or (b)(3) if the beneficiary of the payment order does not have an account with the receiving bank, the account has been closed, or the receiving bank is not permitted by law to receive credits for the beneficiary's account. (d) A payment order issued to the originator's bank cannot be accepted until the payment date if the bank is the beneficiary's bank, or the execution date if the bank is not the beneficiary's bank. If the originator's bank executes the originator's payment order before the execution date or pays the beneficiary of the originator's payment order before the payment date and the payment order is subsequently canceled pursuant to Section 4A-211(b), the bank may recover from the beneficiary any payment received to the extent allowed by the law governing mistake and restitution.

Section 4A-210.—Rejection of Payment Order

(a) A payment order is rejected by the receiving bank by a notice of rejection transmitted to the sender orally, electronically, or in writing. A notice of rejection need not use any particular words and is sufficient if it indicates that the receiving bank is rejecting the order or will not execute or pay the order. Rejection is effective when the notice is given if transmission is by a means that is reasonable in the circumstances. If notice of rejection is given by a means that is not reasonable, rejection is effective when the notice is received. If an agreement of the sender and receiving bank establishes the means to be used to reject a payment order,

- (i) any means complying with the agreement is reasonable and
- (ii) any means not complying is not reasonable unless no significant delay in receipt of the notice resulted from the use of the noncomplying means.
- (b) This subsection applies if a receiving bank other than the beneficiary's bank fails to execute a payment order despite the existence on the execution date of a withdrawable credit balance in an authorized account of the sender sufficient to cover the order. If the sender does not receive notice of rejection of the order on the execution date and the authorized account of the sender does not bear interest, the bank is obliged to pay interest to the sender on the amount of the order for the number of days elapsing after the execution date to the earlier of the day the order is canceled pursuant to Section 4A-211(d) or the day the sender receives notice or learns that the order was not executed, counting the final day of the period as an elapsed day. If the withdrawable credit balance during that period falls below the amount of the order, the amount of interest is reduced accordingly.
- (c) If a receiving bank suspends payments, all unaccepted payment orders issued to it are deemed rejected at the time the bank suspends payments.
- (d) Acceptance of a payment order precludes a later rejection of the order. Rejection of a payment order precludes a later acceptance of the order.

Section 4A-211.—Cancellation and Amendment of Payment Order

- (a) A communication of the sender of a payment order canceling or amending the order may be transmitted to the receiving bank orally, electronically, or in writing. If a security procedure is in effect between the sender and the receiving bank, the communication is not effective to cancel or amend the order unless the communication is verified pursuant to the security procedure or the bank agrees to the cancellation or amendment.
- (b) Subject to subsection (a), a communication by the sender canceling or amending a payment order is effective to cancel or amend the order if notice of the communication is received at a time and in a manner affording the receiving bank a reasonable opportunity

- to act on the communication before the bank accepts the payment order.
- (c) After a payment order has been accepted, cancellation or amendment of the order is not effective unless the receiving bank agrees or a funds-transfer system rule allows cancellation or amendment without agreement of the bank.
 - (1) With respect to a payment order accepted by a receiving bank other than the beneficiary's bank, cancellation or amendment is not effective unless a conforming cancellation or amendment of the payment order issued by the receiving bank is also made.
 - (2) With respect to a payment order accepted by the beneficiary's bank, cancellation or amendment is not effective unless the order was issued in execution of an unauthorized payment order, or because of a mistake by a sender in the funds transfer which resulted in the issuance of a payment order:
 - (i) that is a duplicate of a payment order previously issued by the sender,
 - (ii) that orders payment to a beneficiary not entitled to receive payment from the originator, or
 - (iii) that orders payment in an amount greater than the amount the beneficiary was entitled to receive from the originator. If the payment order is canceled or amended, the beneficiary's bank is entitled to recover from the beneficiary any amount paid to the beneficiary to the extent allowed by the law governing mistake and restitution.
- (d) An unaccepted payment order is canceled by operation of law at the close of the fifth funds-transfer business day of the receiving bank after the execution date or payment date of the order.
- (e) A canceled payment order cannot be accepted. If an accepted payment order is canceled, the acceptance is nullified and no person has any right or obligation based on the acceptance. Amendment of a payment order is deemed to be cancellation of the original order at the time of amendment and issue of a new payment order in the amended form at the same time.
- (f) Unless otherwise provided in an agreement of the parties or in a funds-transfer system rule, if the receiving bank, after accepting a payment order, agrees to cancellation or amendment of the order by the sender or is bound by a funds-transfer system rule allowing cancellation or amendment without the bank's agreement, the sender, whether or not cancellation or amendment is effective, is liable to the bank for any loss and expenses, including reasonable attorney's fees, incurred by the bank as a result of the cancellation or amendment or attempted cancellation or amendment.
- (g) A payment order is not revoked by the death or

legal incapacity of the sender unless the receiving bank knows of the death or of an adjudication of incapacity by a court of competent jurisdiction and has reasonable opportunity to act before acceptance of the order.

(h) A funds-transfer system rule is not effective to the extent it conflicts with subsection (c)(2).

Section 4A-212.—Liability and Duty of Receiving Bank Regarding Unaccepted Payment Order

If a receiving bank fails to accept a payment order that it is obliged by express agreement to accept, the bank is liable for breach of the agreement to the extent provided in the agreement or in this Article, but does not otherwise have any duty to accept a payment order or, before acceptance, to take any action, or refrain from taking action, with respect to the order except as provided in this Article or by express agreement. Liability based on acceptance arises only when acceptance occurs as stated in Section 4A-209, and liability is limited to that provided in this Article. A receiving bank is not the agent of the sender or beneficiary of the payment order it accepts, or of any other party to the funds transfer, and the bank owes no duty to any party to the funds transfer except as provided in this Article or by express agreement.

Part 3—Execution of Sender's Payment Order by Receiving Bank

Section 4A-301.—Execution and Execution Date

- (a) A payment order is "executed" by the receiving bank when it issues a payment order intended to carry out the payment order received by the bank. A payment order received by the beneficiary's bank can be accepted but cannot be executed.
- (b) "Execution date" of a payment order means the day on which the receiving bank may properly issue a payment order in execution of the sender's order. The execution date may be determined by instruction of the sender but cannot be earlier than the day the order is received and, unless otherwise determined, is the day the order is received. If the sender's instruction states a payment date, the execution date is the payment date or an earlier date on which execution is reasonably necessary to allow payment to the beneficiary on the payment date.

Section 4A-302.—Obligations of Receiving Bank in Execution of Payment Order

- (a) Except as provided in subsections (b) through (d), if the receiving bank accepts a payment order pursuant to Section 4A-209(a), the bank has the following obligations in executing the order:
 - (1) The receiving bank is obliged to issue, on the execution date, a payment order complying with the sender's order and to follow the sender's instructions concerning:
 - (i) any intermediary bank or funds-transfer system to be used in carrying out the funds transfer, or
 - (ii) the means by which payment orders are to be transmitted in the funds transfer. If the originator's bank issues a payment order to an intermediary bank, the originator's bank is obliged to instruct the intermediary bank according to the instruction of the originator. An intermediary bank in the funds transfer is similarly bound by an instruction given to it by the sender of the payment order it accepts.
 - (2) If the sender's instruction states that the funds transfer is to be carried out telephonically or by wire transfer or otherwise indicates that the funds transfer is to be carried out by the most expeditious means, the receiving bank is obliged to transmit its payment order by the most expeditious available means, and to instruct any intermediary bank accordingly. If a sender's instruction states a payment date, the receiving bank is obliged to transmit its payment order at a time and by means reasonably necessary to allow payment to the beneficiary on the payment date or as soon thereafter as is feasible.
- (b) Unless otherwise instructed, a receiving bank executing a payment order may:
 - (i) use any funds-transfer system if use of that system is reasonable in the circumstances, and
 - (ii) issue a payment order to the beneficiary's bank or to an intermediary bank through which a payment order conforming to the sender's order can expeditiously be issued to the beneficiary's bank if the receiving bank exercises ordinary care in the selection of the intermediary bank. A receiving bank is not required to follow an instruction of the sender designating a funds-transfer system to be used in carrying out the funds transfer if the receiving bank, in good faith, determines that it is not feasible to follow the instruction or that following the instruction would unduly delay completion of the funds transfer.
- (c) Unless subsection (a)(2) applies or the receiving bank is otherwise instructed, the bank may execute a payment order by transmitting its payment order by first class mail or by any means reasonable in the

circumstances. If the receiving bank is instructed to execute the sender's order by transmitting its payment order by a particular means, the receiving bank may issue its payment order by the means stated or by any means as expeditious as the means stated.

- (d) Unless instructed by the sender,
 - (i) the receiving bank may not obtain payment of its charges for services and expenses in connection with the execution of the sender's order by issuing a payment order in an amount equal to the amount of the sender's order less the amount of the charges, and
 - (ii) may not instruct a subsequent receiving bank to obtain payment of its charges in the same manner.

Section 4A-303.—Erroneous Execution of Payment Order

- (a) A receiving bank that:
 - (i) executes the payment order of the sender by issuing a payment order in an amount greater than the amount of the sender's order, or
 - (ii) issues a payment order in execution of the sender's order and then issues a duplicate order, is entitled to payment of the amount of the sender's order under Section 4A-402(c) if that subsection is otherwise satisfied. The bank is entitled to recover from the beneficiary of the erroneous order the excess payment received to the extent allowed by the law governing mistake and restitution.
- (b) A receiving bank that executes the payment order of the sender by issuing a payment order in an amount less than the amount of the sender's order is entitled to payment of the amount of the sender's order under Section 4A-402(c) if:
 - (i) that subsection is otherwise satisfied and
 - (ii) the bank corrects its mistake by issuing an additional payment order for the benefit of the beneficiary of the sender's order. If the error is not corrected, the issuer of the erroneous order is entitled to receive or retain payment from the sender of the order it accepted only to the extent of the amount of the erroneous order. This subsection does not apply if the receiving bank executes the sender's payment order by issuing a payment order in an amount less than the amount of the sender's order for the purpose of obtaining payment of its charges for services and expenses pursuant to instruction of the sender.
- (c) If a receiving bank executes the payment order of the sender by issuing a payment order to a beneficiary different from the beneficiary of the sender's order and the funds transfer is completed on the basis of that

error, the sender of the payment order that was erroneously executed and all previous senders in the funds transfer are not obliged to pay the payment orders they issued. The issuer of the erroneous order is entitled to recover from the beneficiary of the order the payment received to the extent allowed by the law governing mistake and restitution.

Section 4A-304.— Duty of Sender to Report Erroneously Executed Payment Order

If the sender of a payment order that is erroneously executed as stated in Section 4A-303 receives notification from the receiving bank that the order was executed or that the sender's account was debited with respect to the order, the sender has a duty to exercise ordinary care to determine, on the basis of information available to the sender, that the order was erroneously executed and to notify the bank of the relevant facts within a reasonable time not exceeding 90 days after the notification from the bank was received by the sender. If the sender fails to perform that duty, the bank is not obliged to pay interest on any amount refundable to the sender under Section 4A-402(d) for the period before the bank learns of the execution error. The bank is not entitled to any recovery from the sender on account of a failure by the sender to perform the duty stated in this section.

Section 4A-305.—Liability for Late or Improper Execution or Failure to Execute Payment Order

- (a) If a funds transfer is completed but execution of a payment order by the receiving bank in breach of Section 4A-302 results in delay in payment to the beneficiary, the bank is obliged to pay interest to either the originator or the beneficiary of the funds transfer for the period of delay caused by the improper execution. Except as provided in subsection (c), additional damages are not recoverable.
- (b) If execution of a payment order by a receiving bank in breach of Section 4A-302 results in:
 - (i) noncompletion of the funds transfer,
 - (ii) failure to use an intermediary bank designated by the originator, or
 - (iii) issuance of a payment order that does not comply with the terms of the payment order of the originator, the bank is liable to the originator for its expenses in the funds transfer and for incidental expenses and interest losses, to the extent not covered by subsection (a), resulting from the improper execution. Except as provided in subsection (c), additional damages are not recoverable.

- (c) In addition to the amounts payable under subsections (a) and (b), damages, including consequential damages, are recoverable to the extent provided in an express written agreement of the receiving bank.
- (d) If a receiving bank fails to execute a payment order it was obliged by express agreement to execute, the receiving bank is liable to the sender for its expenses in the transaction and for incidental expenses and interest losses resulting from the failure to execute. Additional damages, including consequential damages, are recoverable to the extent provided in an express written agreement of the receiving bank, but are not otherwise recoverable.
- (e) Reasonable attorney's fees are recoverable if demand for compensation under subsection (a) or (b) is made and refused before an action is brought on the claim. If a claim is made for breach of an agreement under subsection (d) and the agreement does not provide for damages, reasonable attorney's fees are recoverable if demand for compensation under subsection (d) is made and refused before an action is brought on the claim.
- (f) Except as stated in this section, the liability of a receiving bank under subsections (a) and (b) may not be varied by agreement.

Part 4 — Payment

Section 4A-401.—Payment Date

"Payment date" of a payment order means the day on which the amount of the order is payable to the beneficiary by the beneficiary's bank. The payment date may be determined by instruction of the sender but cannot be earlier than the day the order is received by the beneficiary's bank and, unless otherwise determined, is the day the order is received by the beneficiary's bank.

Section 4A-402.— Obligation of Sender to Pay Receiving Bank

- (a) This section is subject to Sections 4A-205 and 4A-207.
- (b) With respect to a payment order issued to the beneficiary's bank, acceptance of the order by the bank obliges the sender to pay the bank the amount of the order, but payment is not due until the payment date of the order.
- (c) This subsection is subject to subsection (e) and to Section 4A-303. With respect to a payment order issued to a receiving bank other than the beneficiary's bank, acceptance of the order by the receiving bank obliges the sender to pay the bank the amount of the sender's order. Payment by the sender is not due until

- the execution date of the sender's order. The obligation of that sender to pay its payment order is excused if the funds transfer is not completed by acceptance by the beneficiary's bank of a payment order instructing payment to the beneficiary of that sender's payment order.
- (d) If the sender of a payment order pays the order and was not obliged to pay all or part of the amount paid, the bank receiving payment is obliged to refund payment to the extent the sender was not obliged to pay. Except as provided in Sections 4A-204 and 4A-304, interest is payable on the refundable amount from the date of payment.
- (e) If a funds transfer is not completed as stated in subsection (c) and an intermediary bank is obliged to refund payment as stated in subsection (d) but is unable to do so because not permitted by applicable law or because the bank suspends payments, a sender in the funds transfer that executed a payment order in compliance with an instruction, as stated in Section 4A-302(a)(1), to route the funds transfer through that intermediary bank is entitled to receive or retain payment from the sender of the payment order that it accepted. The first sender in the funds transfer that issued an instruction requiring routing through that intermediary bank is subrogated to the right of the bank that paid the intermediary bank to refund as stated in subsection (d).
- (f) The right of the sender of a payment order to be excused from the obligation to pay the order as stated in subsection (c) or to receive refund under subsection (d) may not be varied by agreement.

Section 4A-403.—Payment by Sender to Receiving Bank

- (a) Payment of the sender's obligation under Section 4A-402 to pay the receiving bank occurs as follows:
 - (1) If the sender is a bank, payment occurs when the receiving bank receives final settlement of the obligation through a Federal Reserve Bank or through a funds-transfer system.
 - (2) If the sender is a bank and the sender:
 - (i) credited an account of the receiving bank with the sender, or
 - (ii) caused an account of the receiving bank in another bank to be credited, payment occurs when the credit is withdrawn or, if not withdrawn, at midnight of the day on which the credit is withdrawable and the receiving bank learns of that fact.
 - (3) If the receiving bank debits an account of the sender with the receiving bank, payment occurs when the debit is made to the extent the debit is

covered by a withdrawable credit balance in the account.

- (b) If the sender and receiving bank are members of a funds-transfer system that nets obligations multilaterally among participants, the receiving bank receives final settlement when settlement is complete in accordance with the rules of the system. The obligation of the sender to pay the amount of a payment order transmitted through the funds-transfer system may be satisfied, to the extent permitted by the rules of the system, by setting off and applying against the sender's obligation the right of the sender to receive payment from the receiving bank of the amount of any other payment order transmitted to the sender by the receiving bank through the funds-transfer system. The aggregate balance of obligations owed by each sender to each receiving bank in the funds-transfer system may be satisfied, to the extent permitted by the rules of the system, by setting off and applying against that balance the aggregate balance of obligations owed to the sender by other members of the system. The aggregate balance is determined after the right of setoff stated in the second sentence of this subsection has been exercised.
- (c) If two banks transmit payment orders to each other under an agreement that settlement of the obligations of each bank to the other under Section 4A-402 will be made at the end of the day or other period, the total amount owed with respect to all orders transmitted by one bank shall be set off against the total amount owed with respect to all orders transmitted by the other bank. To the extent of the setoff, each bank has made payment to the other.
- (d) In a case not covered by subsection (a), the time when payment of the sender's obligation under Section 4A-402(b) or 4A-402(c) occurs is governed by applicable principles of law that determine when an obligation is satisfied.

Section 4A-404.—Obligation of Beneficiary's Bank to Pay and Give Notice to Beneficiary

(a) Subject to Sections 4A-211(e), 4A-405(d), and 4A-405(e), if a beneficiary's bank accepts a payment order, the bank is obliged to pay the amount of the order to the beneficiary of the order. Payment is due on the payment date of the order, but if acceptance occurs on the payment date after the close of the funds-transfer business day of the bank, payment is due on the next funds-transfer business day. If the bank refuses to pay after demand by the beneficiary and receipt of notice of particular circumstances that will give rise to consequential damages as a result of nonpayment, the beneficiary may recover damages resulting from the refusal to pay to the extent the bank

had notice of the damages, unless the bank proves that it did not pay because of a reasonable doubt concerning the right of the beneficiary to payment.

- (b) If a payment order accepted by the beneficiary's bank instructs payment to an account of the beneficiary, the bank is obliged to notify the beneficiary of receipt of the order before midnight of the next fundstransfer business day following the payment date. If the payment order does not instruct payment to an account of the beneficiary, the bank is required to notify the beneficiary only if notice is required by the order. Notice may be given by first class mail or any other means reasonable in the circumstances. If the bank fails to give the required notice, the bank is obliged to pay interest to the beneficiary on the amount of the payment order from the day notice should have been given until the day the beneficiary learned of receipt of the payment order by the bank. No other damages are recoverable. Reasonable attorney's fees are also recoverable if demand for interest is made and refused before an action is brought on the claim.
- (c) The right of a beneficiary to receive payment and damages as stated in subsection (a) may not be varied by agreement or a funds-transfer system rule. The right of a beneficiary to be notified as stated in subsection (b) may be varied by agreement of the beneficiary or by a funds-transfer system rule if the beneficiary is notified of the rule before initiation of the funds transfer.

Section 4A-405.—Payment by Beneficiary's Bank to Beneficiary

- (a) If the beneficiary's bank credits an account of the beneficiary of a payment order, payment of the bank's obligation under Section 4A-404(a) occurs when and to the extent:
 - (i) the beneficiary is notified of the right to withdraw the credit,
 - (ii) the bank lawfully applies the credit to a debt of the beneficiary, or
 - (iii) funds with respect to the order are otherwise made available to the beneficiary by the bank.
- (b) If the beneficiary's bank does not credit an account of the beneficiary of a payment order, the time when payment of the bank's obligation under Section 4A-404(a) occurs is governed by principles of law that determine when an obligation is satisfied.
- (c) Except as stated in subsections (d) and (e), if the beneficiary's bank pays the beneficiary of a payment order under a condition to payment or agreement of the beneficiary giving the bank the right to recover payment from the beneficiary if the bank does not receive payment of the order, the condition to payment or agreement is not enforceable.

- (d) A funds-transfer system rule may provide that payments made to beneficiaries of funds transfers made through the system are provisional until receipt of payment by the beneficiary's bank of the payment order it accepted. A beneficiary's bank that makes a payment that is provisional under the rule is entitled to refund from the beneficiary if:
 - (i) the rule requires that both the beneficiary and the originator be given notice of the provisional nature of the payment before the funds transfer is initiated,
 - (ii) the beneficiary, the beneficiary's bank and the originator's bank agreed to be bound by the rule, and
 - (iii) the beneficiary's bank did not receive payment of the payment order that it accepted. If the beneficiary is obliged to refund payment to the beneficiary's bank, acceptance of the payment order by the beneficiary's bank is nullified and no payment by the originator of the funds transfer to the beneficiary occurs under Section 4A-406.
- (e) This subsection applies to a funds transfer that includes a payment order transmitted over a fundstransfer system that:
 - (i) nets obligations-multilaterally among participants, and
 - (ii) has in effect a loss-sharing agreement among participants for the purpose of providing funds necessary to complete settlement of the obligations of one or more participants that do not meet their settlement obligations. If the beneficiary's bank in the funds transfer accepts a payment order and the system fails to complete settlement pursuant to its rules with respect to any payment order in the funds transfer,
 - (i) the acceptance by the beneficiary's bank is nullified and no person has any right or obligation based on the acceptance,
 - (ii) the beneficiary's bank is entitled to recover payment from the beneficiary,
 - (iii) no payment by the originator to the beneficiary occurs under Section 4A-406, and
 - (iv) subject to Section 4A-402(e), each sender in the funds transfer is excused from its obligation to pay its payment order under Section 4A-402(c) because the funds transfer has not been completed.

Section 4A-406.—Payment by Originator to Beneficiary; Discharge of Underlying Obligation

(a) Subject to Sections 4A-211(e), 4A-405(d), and A-405(e), the originator of a funds transfer pays the beneficiary of the originator's payment order:

- (i) at the time a payment order for the benefit of the beneficiary is accepted by the beneficiary's bank in the funds transfer and
- (ii) in an amount equal to the amount of the order accepted by the beneficiary's bank, but not more than the amount of the originator's order.
- (b) If payment under subsection (a) is made to satisfy an obligation, the obligation is discharged to the same extent discharge would result from payment to the beneficiary of the same amount in money, unless:
 - (i) the payment under subsection (a) was made by a means prohibited by the contract of the beneficiary with respect to the obligation,
 - (ii) the beneficiary, within a reasonable time after receiving notice of receipt of the order by the beneficiary's bank, notified the originator of the beneficiary's refusal of the payment,
 - (iii) funds with respect to the order were not withdrawn by the beneficiary or applied to a debt of the beneficiary, and
 - (iv) the beneficiary would suffer a loss that could reasonably have been avoided if payment had been made by a means complying with the contract. If payment by the originator does not result in discharge under this section, the originator is subrogated to the rights of the beneficiary to receive payment from the beneficiary's bank under Section 4A-404(a).
- (c) For the purpose of determining whether discharge of an obligation occurs under subsection (b), if the beneficiary's bank accepts a payment order in an amount equal to the amount of the originator's payment order less charges of one or more receiving banks in the funds transfer, payment to the beneficiary is deemed to be in the amount of the originator's order unless upon demand by the beneficiary the originator does not pay the beneficiary the amount of the deducted charges.
- (d) Rights of the originator or of the beneficiary of a funds transfer under this section may be varied only by agreement of the originator and the beneficiary.

Part 5 — Miscellaneous Provisions

Section 4A-501.—Variation by Agreement and Effect of Funds-Transfer System Rule

- (a) Except as otherwise provided in this Article, the rights and obligations of a party to a funds transfer may be varied by agreement of the affected party.
- (b) "Funds-transfer system rule" means a rule of an association of banks:
 - (i) governing transmission of payment orders by means of a funds-transfer system of the associa-

tion or rights and obligations with respect to those orders, or

(ii) to the extent the rule governs rights and obligations between banks that are parties to a funds transfer in which a Federal Reserve Bank, acting as an intermediary bank, sends a payment order to the beneficiary's bank. Except as otherwise provided in this Article, a funds-transfer system rule governing rights and obligations between participating banks using the system may be effective even if the rule conflicts with this Article and indirectly affects another party to the funds transfer who does not consent to the rule. A funds-transfer system rule may also govern rights and obligations of parties other than participating banks using the system to the extent stated in Sections 4A-404(c), 4A-405(d), and 4A-507(c).

Section 4A-502.—Creditor Process Served on Receiving Bank; Setoff by Beneficiary's Banks

- (a) As used in this section, "creditor process" means levy, attachment, garnishment, notice of lien, sequestration, or similar process issued by or on behalf of a creditor or other claimant with respect to an account. (b) This subsection applies to creditor process with respect to an authorized account of the sender of a payment order if the creditor process is served on the receiving bank. For the purpose of determining rights with respect to the creditor process, if the receiving bank accepts the payment order the balance in the authorized account is deemed to be reduced by the amount of the payment order to the extent the bank did not otherwise receive payment of the order, unless the creditor process is served at a time and in a manner affording the bank a reasonable opportunity to act on it before the bank accepts the payment order.
- (c) If a beneficiary's bank has received a payment order for payment to the beneficiary's account in the bank, the following rules apply:
 - (1) The bank may credit the beneficiary's account. The amount credited may be set off against an obligation owed by the beneficiary to the bank or may be applied to satisfy creditor process served on the bank with respect to the account.
 - (2) The bank may credit the beneficiary's account and allow withdrawal of the amount credited unless creditor process with respect to the account is served at a time and in a manner affording the bank a reasonable opportunity to act to prevent withdrawal.
 - (3) If creditor process with respect to the beneficiary's account has been served and the bank has had a reasonable opportunity to act on it, the bank

may not reject the payment order except for a reason unrelated to the service of process.

(d) Creditor process with respect to a payment by the originator to the beneficiary pursuant to a funds transfer may be served only on the beneficiary's bank with respect to the debt owed by that bank to the beneficiary. Any other bank served with the creditor process is not obliged to act with respect to the process.

Section 4A-503.—Injunction or Restraining Order With Respect to Funds Transfer

For proper cause and in compliance with applicable law, a court may restrain:

- (i) a person from issuing a payment order to initiate a funds transfer,
- (ii) an originator's bank from executing the payment order of the originator, or
- (iii) the beneficiary's bank from releasing funds to the beneficiary or the beneficiary from withdrawing the funds. A court may not otherwise restrain a person from issuing a payment order, paying or receiving payment of a payment order, or otherwise acting with respect to a funds transfer.

Section 4A-504.—Order in Which Items and Payment Orders May be Charged to Account; Order of Withdrawals from Account

- (a) If a receiving bank has received more than one payment order of the sender or one or more payment orders and other items that are payable from the sender's account, the bank may charge the sender's account with respect to the various orders and items in any sequence.
- (b) In determining whether a credit to an account has been withdrawn by the holder of the account or applied to a debt of the holder of the account, credits first made to the account are first withdrawn or applied.

Section 4A-505.—Preclusion of Objection to Debit of Customer's Account

If a receiving bank has received payment from its customer with respect to a payment order issued in the name of the customer as sender and accepted by the bank, and the customer received notification reasonably identifying the order, the customer is precluded from asserting that the bank is not entitled to retain the payment unless the customer notifies the bank of the customer's objection to the payment within one year after the notification was received by the customer.

Section 4A-506.—Rate of Interest

- (a) If, under this Article, a receiving bank is obliged to pay interest with respect to a payment order issued to the bank, the amount payable may be determined:
 - (i) by agreement of the sender and receiving bank, or (ii) by a funds-transfer system rule if the payment order is transmitted through a funds-transfer system.
- (b) If the amount of interest is not determined by an greement or rule as stated in subsection (a), the amount is calculated by multiplying the applicable Federal Funds rate by the amount on which interest is payable, and then multiplying the product by the number of days for which interest is payable. The applicable Federal Funds rate is the average of the Federal Funds rates published by the Federal Reserve Bank of New York for each of the days for which interest is payable divided by 360. The Federal Funds rate for any day on which a published rate is not available is the same as the published rate for the next preceding day for which there is a published rate. If a receiving bank that accepted a payment order is required to refund payment to the sender of the order because the funds transfer was not completed, but the failure to complete was not due to any fault by the bank, the interest payable is reduced by a percentage equal to the reserve requirement on deposits of the receiving bank.

Section 4A-507.—Choice of Law

- (a) The following rules apply unless the affected parties otherwise agree or subsection (c) applies:
 - (1) The rights and obligations between the sender of a payment order and the receiving bank are governed by the law of the jurisdiction in which the receiving bank is located.
 - (2) The rights and obligations between the beneficiary's bank and the beneficiary are governed by the law of the jurisdiction in which the beneficiary's bank is located.
 - (3) The issue of when payment is made pursuant to a funds transfer by the originator to the beneficiary is governed by the law of the jurisdiction in which the beneficiary's bank is located.
- (b) If the parties described in each paragraph of subsection (a) have made an agreement selecting the law of a particular jurisdiction to govern rights and obligations between each other, the law of that jurisdiction governs those rights and obligations, whether or not the payment order or the funds transfer bears a reasonable relation to that jurisdiction.
- (c) A funds-transfer system rule may select the law of a particular jurisdiction to govern:

- (i) rights and obligations between participating banks with respect to payment orders transmitted or processed through the system, or
- (ii) the rights and obligations of some or all parties to a funds transfer any part of which is carried out by means of the system. A choice of law made pursuant to clause (i) is binding on participating banks. A choice of law made pursuant to clause (ii) is binding on the originator, other sender, or a receiving bank having notice that the funds-transfer system might be used in the funds transfer and of the choice of law by the system when the originator, other sender, or receiving bank issued or accepted a payment order. The beneficiary of a funds transfer is bound by the choice of law if, when the funds transfer is initiated, the beneficiary has notice that the funds-transfer system might be used in the funds transfer and of the choice of law by the system. The law of a jurisdiction selected pursuant to this subsection may govern, whether or not that law bears a reasonable relation to the matter in issue.
- (d) In the event of inconsistency between an agreement under subsection (b) and a choice-of-law rule under subsection (c), the agreement under subsection (b) prevails.
- (e) If a funds transfer is made by use of more than one funds-transfer system and there is inconsistency between choice-of-law rules of the systems, the matter in issue is governed by the law of the selected jurisdiction that has the most significant relationship to the matter in issue.

FINAL RULE—AMENDMENT TO REGULATION Z

The Board of Governors is amending 12 C.F.R. Part 226, its Regulation Z (Truth in Lending), to require that creditors wishing to freeze the credit line when the rate cap on a home equity line is reached must expressly provide for this event in their agreements. Creditors that currently include such a provision in their contracts will not be affected by this revision. The Board also is removing from the regulation the provision that would permit delaying the time for providing disclosures about any repayment phase set forth in an agreement. The rules in question relate to the Home Equity Loan Consumer Protection Act of 1988, which requires creditors to provide consumers with information for open-end credit plans secured by the consumer's dwelling, and imposes substantive limitations on these plans. Although the final regulations implementing the law were adopted in June 1989 and became effective in November 1989, in response to litigation, the Board in March 1990 published for comment a proposal dealing with the rate cap provision and the timing of disclosures for the repayment phase.

Effective September 19, 1990, but compliance is optional until October 1, 1991, 12 C.F.R. Part 226 is amended as follows:

1. The authority citation for Part 226 continues to read as follows:

Authority: Sec. 105, Truth in Lending Act, as amended by sec. 605, Pub. L. No. 96–221, 94 Stat. 170 (15 U.S.C. 1604 et seq.); Section 1204(c), Competitive Equality Banking Act, Pub. L. No. 100–86, 101 Stat. 552.

2. In Section 226.5b, the introductory text to paragraphs (f), (f)(3), and (f)(3)(vi) is republished and paragraphs (f)(3)(i), (f)(3)(vi)(E), and (f)(3)(vi)(F) are revised and paragraph (f)(3)(vi)(G) is removed to read as follows:

Subpart B—Open-End Credit

Section 226.5b—Requirements for home equity plans.

(f) Limitations on home equity plans. No creditor may, by contract or otherwise:

(3) Change any term, except that a creditor may:

- (i) Provide in the initial agreement that it may prohibit additional extensions of credit or reduce the credit limit during any period in which the maximum annual percentage rate is reached. A creditor also may provide in the initial agreement that specified changes will occur if a specified event takes place (for example, that the annual percentage rate will increase a specified amount if the consumer leaves the creditor's employment).
- (vi) Prohibit additional extensions of credit or reduce the credit limit applicable to an agreement during any period in which:

(E) The priority of the creditor's security interest is adversely affected by government action to the extent that the value of the security interest is less than 120 percent of the credit line; or

(F) The creditor is notified by its regulatory agency that continued advances constitute an unsafe and unsound practice.

3. In Section 226.9, paragraph (c)(3) is revised to read as follows:

Section 226.9—Subsequent disclosure requirements.

(c) Change in terms. * * *

- (3) Notice for home equity plans. If a creditor prohibits additional extensions of credit or reduces the credit limit applicable to a home equity plan pursuant to section 226.5b(f)(3)(i) or 226.5b(f)(3)(vi), the creditor shall mail or deliver written notice of the action to each consumer who will be affected. The notice must be provided not later than three business days after the action is taken and shall contain specific reasons for the action. If the creditor requires the consumer to request reinstatement of credit privileges, the notice also shall state that fact.
- 4. Appendix G to Part 226 is amended by removing G-14C Home Equity Sample (Repayment phase disclosed later).

ORDERS ISSUED UNDER BANK HOLDING COMPANY ACT

Orders Issued Under Section 3 of the Bank Holding Company Act

AmSouth Bancorporation Birmingham, Alabama

AmSouth Bank of Tennessee Nashville, Tennessee

Order Approving Acquisition of Bank by Merger and Membership in the Federal Reserve System

AmSouth Bancorporation, Birmingham, Alabama ("AmSouth"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), has applied for the Board's approval under section 3(a)(3) of the BHC Act to acquire First Bank of Maury County, Columbia, Tennessee ("First Bank"). AmSouth proposes to acquire First Bank by merger,

with the successor institution, AmSouth Bank of Tennessee, Nashville, Tennessee ("AmSouth Bank"), becoming a member of the Federal Reserve System. Accordingly, AmSouth has also applied pursuant to section 18(c) of the Federal Deposit Insurance Act (12 U.S.C. § 1828(c)) (the "Bank Merger Act") and section 9 of the Federal Reserve Act (12 U.S.C. § 321) for membership in the Federal Reserve System.

Notice of the applications, affording interested persons an opportunity to submit comments, has been published (55 Federal Register 17,820) and given in accordance with the Bank Merger Act and the Board's Rules of Procedure (12 C.F.R. 262.3(b)). As required by the Bank Merger Act, reports on the competitive effects of the merger were requested from the United States Attorney General, the Office of the Comptroller of the Currency, and the Federal Deposit Insurance Corporation. The time for filing comments has expired, and the Board has considered the applications and all the comments received in light of the factors set forth in section 3(c) of the BHC Act (12 U.S.C. § 1842(c)) and in the Bank Merger Act (12 U.S.C. § 1828(c)(5)).

Section 3(d) of the BHC Act (12 U.S.C. § 1842(d)), the Douglas Amendment, prohibits the Board from approving an application by a bank holding company to acquire control of any bank located outside of the holding company's home state, unless such acquisition is "specifically authorized by statute laws of the state in which [the] bank is located, by language to that effect and not merely by implication." The Board has concluded that the laws of Tennessee expressly authorize the acquisition of Tennessee banks by Alabama bank holding companies.² Accordingly, the Board's approval of this application is not barred by the Douglas Amendment.

AmSouth, the largest commercial banking organization in Alabama, controls three subsidiary banks in Alabama with total deposits of \$5.8 billion, representing 19.9 percent of all deposits in commercial banks in the state.3 AmSouth also controls a commercial banking organization in Florida. First Bank is the 196th largest commercial bank in Tennessee, controlling deposits of \$14.9 million, representing less than one percent of all deposits in commercial banks in the state. AmSouth Bank will compete in the Nashville, Tennessee area banking market, where AmSouth does not currently operate.4 Accordingly, the Board has concluded that consummation of this proposal would not have a significantly adverse effect on the concentration of banking resources in Tennessee, or have a significantly adverse effect upon competition in any relevant banking market. The financial and managerial resources and future prospects of AmSouth and its subsidiary banks and of First Bank are also considered satisfactory and consistent with approval.

In considering the convenience and needs of the communities to be served, the Board has taken into account the record of AmSouth's subsidiary banks under the Community Reinvestment Act (12 U.S.C. § 2901 et seq.) ("CRA"). The CRA requires the federal financial supervisory agencies to encourage financial institutions to help meet the credit needs of the local communities in which they operate consistent with the safe and sound operation of such institutions. To accomplish this end, the CRA requires the appropriate federal supervisory authority to "assess an institution's record of meeting the credit needs of its entire community, including low- and moderate-income neighborhoods, consistent with the safe and sound operation of the institution," and to take this record into account in its evaluation of bank holding company applications.5

In this regard, the Board has received comments filed by the Center for Human Rights, Birmingham, Alabama ("Protestant"), critical of the performance of AmSouth's lead bank, AmSouth, N.A., Birmingham, Alabama ("AmSouth-Birmingham"). Specifically, the Protestant alleges that AmSouth-Birmingham is not meeting the need for mortgage loans in the low- to moderate-income and minority communities of Birmingham.⁶

^{1.} First Bank will merge with AmSouth Bank of Tennessee, Columbia, Tennessee ("Interim Bank"), a bank subsidiary of AmSouth also applying for membership in the Federal Reserve System, that has been established solely to facilitate the acquisition. First Bank, the successor to this merger, will be renamed AmSouth Bank by charter amendment and relocate from Columbia to Nashville, Tennessee.

^{2.} SouthTrust of Tennessee, Inc., 74 Federal Reserve Bulletin 779 (1988). The Tennessee Commissioner of Financial Institutions has confirmed that the proposal complies with the provisions of the Tennessee interstate banking statute, including the five-year longevity requirement in Tenn. Code Ann. § 45–12–103(4), and that the laws of Tennessee specifically authorize the proposed acquisition and charter relocations. The State has not approved the proposal, however, and the Board's approval is conditioned upon AmSouth obtaining the necessary approvals from the Tennessee Commissioner.

^{3.} Data are as of March 31, 1990.

^{4.} The Nashville, Tennessee area banking market consists of Davidson, Rutherford, Williamson, and Wilson counties, Tennessee, plus the southern halves of Robertson and Sumner counties, Tennessee.

^{5. 12} U.S.C. §§ 2902-2903.

^{6.} As evidence to support this allegation, Protestant has relied upon a study which appeared in *The Birmingham News* in August 1989, suggesting that, in recent years, there has been a significant disparity in the home mortgage loans made by Birmingham lenders to high-income and white residents as opposed to low- and moderate-income and minority residents in Birmingham. In the "Report on Loan Discrimination" submitted to Congress by the Board on October 13, 1989, pursuant to section 1220 of the Financial Institutions Reform, Recovery and Enforcement Act of 1989 (the "Report"), the Board

The Board has carefully reviewed the CRA performance record of AmSouth and AmSouth-Birmingham, as well as Protestant's comments and AmSouth's response to those comments, in light of the CRA, the Board's regulations and the Statement of the Federal Financial Supervisory Agencies Regarding the Community Reinvestment Act ("Agency CRA Statement").7 The Agency CRA Statement provides guidance regarding the types of policies and procedures that the supervisory agencies believe financial institutions should have in place in order to fulfill their responsibilities under the CRA on an ongoing basis, and the procedures that the supervisory agencies will use during the application process to review an institution's CRA compliance performance. The Agency CRA Statement also suggests that decisions by agencies to allow financial institutions to expand will be made pursuant to an analysis of the institution's overall CRA performance, and will be based on the actual record of performance of the institution.8

Initially, the Board notes in this case that Am-South's subsidiary banks—including AmSouth-Birmingham—have each received satisfactory ratings from their primary regulators in the most recent examinations of their CRA performance. The Agency CRA Statement provides that, although CRA examination reports do not provide conclusive evidence of an institution's CRA record, these reports will be given great weight in the applications process.⁹

In addition, AmSouth and AmSouth-Birmingham have put in place various elements outlined in the Agency CRA Statement that contribute to an effective CRA program. Specifically, AmSouth has established a program for reviewing and supervising the CRA programs of its subsidiary banks. This program includes regular review of reports made by each subsidiary bank to AmSouth concerning the bank's CRA program, and annual review of each bank's CRA statement. AmSouth provides information to subsidiary banks regarding evolving areas of emphasis under the CRA, and suggests guidelines to assure that sub-

generally reviewed various public studies of mortgage lending in Atlanta, Cleveland, Detroit and Boston. The Report noted that, while these studies appeared to indicate that disparities existed in home mortgage lending between minority and non-minority areas, they did not provide a basis for definitive conclusions about the existence or extent of racial discrimination in mortgage lending and did not account for certain factors other than discrimination in lending that might account for these disparities—including differences in demand for mortgage loans, differences in the types of mortgage products offered by depository and nondepository institutions, and the tendency of nondepository lenders to dominate the minority mortgage loan market

sidiary banks are meeting their responsibilities to the community under the CRA.

Pursuant to the CRA plan implemented at AmSouth-Birmingham, the CRA officer reports annually to the bank's full board of directors and quarterly to the audit committee of the bank's board of directors. The audit committee then reports to the full board of directors on CRA activities at the next board meeting. AmSouth has also implemented a CRA self-assessment program at AmSouth-Birmingham.

AmSouth-Birmingham provides SBA, FHA, VA, and government-guaranteed student loans. It accepts mortgage loan applications at all branches in its extensive branch network. In addition, AmSouth-Birmingham spearheaded the establishment of the Birmingham Minority Enterprise Small Business Investment Company, which was formed to make loans to expanding minority businesses. A number of the members of AmSouth-Birmingham's board of directors are actively involved in community development activities.

The Board has considered Protestant's allegation that the Home Mortgage Disclosure Act ("HMDA") data for AmSouth-Birmingham in the Birmingham Metropolitan Statistical Area ("MSA") show that AmSouth-Birmingham has failed to comply with the provisions of the CRA. Analysis of the HMDA data shows that for the period 1984 through 1989, with respect to home improvement and one to four family owner-occupied home purchase mortgage loans, AmSouth-Birmingham's lending to middle-income borrowers is relatively equal, regardless of race. ¹⁰ AmSouth has also begun interviewing to obtain minority loan originators and processors for its mortgage company subsidiary and is exploring the possibility of purchasing loans from minority loan brokerage firms.

The Board notes that there have been some disparities in the HMDA data for AmSouth-Birmingham's lending to borrowers in low- and moderate-income versus high-income census tracts. AmSouth-Birmingham has taken steps to address this disparity through a number of new mortgage loan programs and through additional outreach efforts. AmSouth-Birmingham is the largest participant in a \$25 million mortgage pool sponsored by the City of Birmingham, which is known as the Birmingham Residential Mort-

^{7. 54} Federal Register 13,742 (1989).

^{8.} Id

^{9. 54} Federal Register at 13,745.

^{10.} For example, an analysis of home purchase mortgage loans for one-to-four-family owner-occupied units and home improvement loans for 1988 shows that AmSouth-Birmingham made the same number of loans to applicants in middle-income white census tracts as to applicants in middle-income minority census tracts.

^{11.} Although some disparities appear in the HMDA data, an analysis of AmSouth-Birmingham's recent consumer lending activity shows that the loan to deposit ratios are higher for low- and moderate-income census tracts than for middle- or high-income census tracts.

gage Plan.¹² In addition, AmSouth-Birmingham has committed \$5 million to the Community Home Buyer's Program, a mortgage loan program offered in conjunction with General Electric Mortgage Insurance Company.¹³

AmSouth-Birmingham also uses specialized marketing efforts to ensure that all segments of the community are aware of its services. For example, AmSouth-Birmingham regularly advertises in newspapers and on radio stations that are targeted to reach minority and low- and moderate-income communities. AmSouth-Birmingham regularly calls upon realtors to acquaint them with products of interest to low- and moderateincome individuals. AmSouth-Birmingham has recently implemented a program assigning each city office a quota of calls to make to ascertain the credit needs of low- and moderate-income individuals and the information obtained as a result of these calls is incorporated into the product development process. The Board expects AmSouth-Birmingham to continue its efforts to improve its outreach and lending record for low- and moderate-income applicants.

The Board believes that, on balance, the CRA record of AmSouth and AmSouth-Birmingham is consistent with approval of this application. The Board expects AmSouth and AmSouth-Birmingham to implement fully their CRA programs and to continue to improve their record of CRA performance. The Board will consider the progress of AmSouth and AmSouth-Birmingham under the CRA in future applications to expand their deposit-taking operations. For the foregoing reasons, and based upon the overall CRA record of AmSouth and AmSouth-Birmingham and other facts of record, the Board concludes that convenience and needs considerations, including the record of performance under the CRA of AmSouth, AmSouth-Birmingham, and AmSouth's other subsidiary banks, are consistent with approval of this application.¹⁴

Interim Bank and AmSouth Bank have also applied under section 9 of the Federal Reserve Act (12 U.S.C. § 321 et seq.) to become members of the Federal Reserve System. The Board has considered the factors it is required to consider when approving applications for membership pursuant to section 9 of the Federal Reserve Act (12 U.S.C. § 322) and finds those factors to be consistent with approval.

Based on the foregoing and other facts of record, the Board has determined that the applications should be, and hereby are, approved. This transaction shall not be consummated before the thirtieth calendar day following the effective date of this Order, unless such period is extended for good cause by the Board or by the Federal Reserve Bank of Atlanta, acting pursuant to delegated authority.

By order of the Board of Governors, effective September 10, 1990.

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

JENNIFER J. JOHNSON
Associate Secretary of the Board

Orders Issued Under Section 4 of the Bank Holding Company Act

The Dai-Ichi Kangyo Bank, Limited Tokyo, Japan

Manufacturers Hanover Corporation New York, New York

Order Approving Application to Engage in Certain Leasing Activities

The Dai-Ichi Kangyo Bank, Limited, Tokyo, Japan ("Dai-Ichi"), and Manufacturers Hanover Corporation, New York, New York ("MHC") (collectively, "Applicants"), both bank holding companies within the meaning of the Bank Holding Company Act ("BHC Act"), have applied under section 4(c)(8) of the BHC Act (12 U.S.C. § 1843(c)(8)) and section 225.23(a) of the Board's Regulation Y (12 C.F.R.

^{12.} Ten area financial institutions are participating in the Plan, which is designed to provide affordable mortgages to low- and moderate-income residents in the five county Birmingham metropolitan area. The plan targets homes with a sales price of less than \$50,000 and subsidizes the closing costs. Loans under the Plan became available in May 1990. AmSouth-Birmingham has received seven applications, with one loan approved and four pending.

^{13.} This program targets low- and moderate-income families seeking to purchase houses costing \$50,000 or less. Borrowers under this program receive pre-purchase education, liberalized lending criteria, a home inspection, and reduced closing costs. This program started in the first quarter 1990, and no loans have yet been extended.

^{14.} Protestant also has requested that the Board hold a public hearing or meeting to assess further facts surrounding AmSouth-Birmingham's CRA performance. Generally under the Board's rules, the Board may, in its discretion, hold a public hearing or meeting on an application to clarify factual issues related to the application and to provide an opportunity for testimony, if appropriate. 12 U.S.C. §§ 262.3(e) and 262.25(d).

The Board has carefully considered the Protestant's request for a public meeting or hearing in this case. In the board's view, the parties have had ample opportunity to present their arguments in writing and to respond to one another's submissions, and have submitted substantial written comments that have been considered by the Board. In light of these facts, the Board has determined that a public meeting or hearing is not necessary to clarify the factual record in these applications, or otherwise warranted in this case. Accordingly, Protestant's request for a public meeting or hearing on this application is hereby denied.

225.23(a)) to engage, through their subsidiary The CIT Group Holdings, Inc., New York, New York ("CIT"), in the leasing of personal property, and acting as agent, broker, or adviser in leasing such property, including lease transactions in which CIT may rely for its compensation on an estimated residual value of the leased property at the expiration of the initial lease term of up to 100 percent of the acquisition cost of the property ("higher residual value leasing").

Notice of the application, affording interested persons an opportunity to submit comments, has been duly published (55 Federal Register 22,099 and 34,077 (1990)). The time for filing comments has expired, and the Board has considered the application and all comments received in light of the factors set forth in section 4(c)(8) of the BHC Act.

Dai-Ichi is the largest banking organization in the world with \$435.0 billion in total consolidated assets.² Dai-Ichi owns The Dai-Ichi Kangyo Bank of California, Los Angeles, California, with total assets of \$503 million as of June 30, 1990. In addition, Dai-Ichi operates branches in New York, Los Angeles, and Chicago, and agencies in Atlanta and San Francisco. Dai-Ichi also engages in certain nonbanking activities through subsidiaries including CIT, a joint venture subsidiary.

MHC is the eighth largest commercial banking organization in the nation with \$59.7 billion in total consolidated assets. MHC operates two banking subsidiaries in New York and Delaware and engages directly and through other subsidiaries in a broad range of nonbanking activities.

CIT engages primarily in commercial finance, leasing, factoring, and sales finance activities, operating approximately 30 subsidiaries with total assets of \$10.3 billion. CIT is one of the largest bank-affiliated leasing companies in the United States with a leasing portfolio of \$1.4 billion as of December 31, 1989.

In order to approve an application under section 4(c)(8) of the BHC Act, the Board must determine that the proposed activity is "so closely related to banking or managing or controlling banks as to be a proper incident thereto" 12 U.S.C. § 1843(c)(8).³ The

Board has previously determined by order that the activities of engaging in higher residual value leasing and acting as agent, broker, or adviser with respect to such lease transactions are closely related to banking and permissible for bank holding companies subject to certain limitations.4 CIT proposes to conduct these activities using the same methods and procedures and subject to the same limitations established by the Board in its previous order regarding these activities. In addition, all leases will be non-operating and, with the exception of the residual value calculation, will otherwise conform to all of the requirements provided in the Board's regulation regarding leasing transactions generally.5 In particular, CIT would engage in the proposed activities only for leases in which the property to be leased is acquired specifically for the leasing transaction under consideration or was acquired specifically for an earlier leasing transaction. Moreover, Applicants have committed that the proposed lease transactions engaged in by CIT will have a minimum initial lease term of one year, that the maximum lease term will be no more than forty years, and that CIT will sell or re-lease the property within two years of the expiration of the initial lease.

In acting on an application under section 4(c)(8) of the BHC Act, the Board must also consider whether an applicant's 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 interests, or unsound banking practices." 12 U.S.C. § 1843(c)(8).

Applicants contend that approval of the proposed activity would provide greater convenience to CIT's customers by allowing it to offer a broader range of leasing terms, would allow CIT to compete more effectively with other lessors, and would result in gains in efficiency and improved services to its leasing customers.

The Board has considered the potential for adverse effects that might be associated with reliance by CIT on high residual values in leasing transactions. In this case, Applicants propose for CIT to engage in these leasing activities subject to limitations previously relied on by the Board which are designed to minimize the possibility of such effects. Applicants have also

^{1.} Manufacturers Hanover Corporation, New York, New York ("MHC") owns 40 percent of CIT. Applicants have not applied to engage in this activity independently or through any other subsidiary. On December 15, 1989, the Board approved Dai-Ichi's application to acquire 60 percent of CIT as a joint venture with MHC. Dai-Ichi Kangyo Bank, Limited, 76 Federal Reserve Bulletin 75 (1990). CIT currently engages in leasing activities for which it has received prior Board approval under Regulation Y.

^{2.} Asset data are as of March 31, 1990, unless otherwise noted.

^{3.} The Board has previously determined that the activities conducted by CIT are closely related to banking and are permissible for bank holding companies. *Manufacturers Hanover Corporation*, 70 Federal Reserve Bulletin 452 (1984).

^{4.} See Security Pacific Corporation, 76 Federal Reserve Bulletin 462 (1990). On May 25, 1990, the Board issued for comment a proposal to make these leasing activities permissible for bank holding companies generally under Regulation Y. 55 Federal Register 22,348 and 23,446. Applicants have committed to conform CIT's leasing activities to any final rule adopted by the Board.

^{5.} See 12 C.F.R. 225.25(b)(5).

committed to limit the aggregate amount of CIT's investment in leases with estimated residual values in excess of 25 percent of the acquisition cost of the leased property to no more than 10 percent of Dai-Ichi's total consolidated assets, and to limit the aggregate amount of CIT's investment in leases with estimated residual values in excess of 70 percent of the acquisition cost of the leased property to the lesser of:

- (i) 0.5 percent of Dai-Ichi's total consolidated assets, or
- (ii) 10 percent of Dai-Ichi's total consolidated shareholders' equity.

In addition, Applicants and CIT have committed that CIT and any of CIT's subsidiaries engaging in the proposed activity will maintain capitalization commensurate with industry standards for comparable leasing activities. The Federal Reserve Bank of San Francisco will monitor the policies and procedures of CIT to assure that these policies and procedures are consistent with the leasing authority granted under this Order.

Based upon the consideration of the foregoing and all of the relevant facts of record, the Board concludes that the balance of the public interest factors that it is required to consider under section 4(c)(8) is favorable in this case.

Accordingly, based on all of the facts of record, and subject to the conditions in this Order and the commitments made by Applicants in this case, the Board has determined that the proposed application should be, and hereby is, approved. This determination is subject to all of the conditions set forth in the Board's 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 bank holding company or any of its subsidiaries as the Board finds necessary to assure compliance with, or to prevent evasion of, the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder. This transaction shall not be consummated later than three months after the effective date of this Order, unless such period is extended for good cause by the Board or by the Federal Reserve Bank of San Francisco, pursuant to delegated authority.

By order of the Board of Governors, effective September 17, 1990.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

Mid Am, Inc. Bowling Green, Ohio

Order Approving the Acquisition of a Savings Association

Mid Am, Inc., Bowling Green, Ohio ("Mid Am"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), has applied pursuant to section 4(c)(8) of the BHC Act (12 U.S.C. § 1843(c)(8)) and section 225.23(a) of the Board's Regulation Y (12 C.F.R. 225.23(a)), to acquire Home Savings and Loan Association, Defiance, Ohio ("Home"), a savings association, pursuant to section 225.25(b)(9) of the Board's Regulation Y (12 C.F.R. 225.25(b)(9)).

Mid Am has also requested Board approval of its proposal under section 5(d)(3) of the Federal Deposit Insurance Act ("FDI Act"), as amended by the Financial Institutions Reform, Recovery, and Enforcement Act of 1989 (Pub. L. No. 101–73, § 206, 103 Stat. 183, 199 (1989)) ("FIRREA"), to merge Home into one of Mid Am's existing subsidiary banks, The First National Bank of Northwest Ohio, Bryan, Ohio ("Bryan Bank"), after Mid Am acquires the shares of Home.²

Notice of the application, affording interested persons an opportunity to submit comments, has been published (55 Federal Register 10,807 (1990)). 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.

The Board has determined that the operation of a savings association is closely related to banking and permissible for bank holding companies. 12 C.F.R. 225.25(b)(9). In making this determination, the Board required that savings associations acquired by bank holding companies conform their direct and indirect activities to those permissible for bank holding companies under section 4 of the BHC Act. Mid Am has committed to conform all activities of Home to the requirements of section 4 and Regulation Y.³ In order

^{1.} Home currently operates as a mutual savings association. Prior to the acquisition, Home will convert from mutual to stock form.

^{2. 12} U.S.C. § 1815(d). Section 5(d)(3) of the FDI Act ("the Oakar Amendment") permits the merger of a savings association owned by a bank holding company into a subsidiary bank owned by the same bank holding company.

^{3.} Upon consummation of this proposal, Mid Am has committed that Home will divest of its real estate agency subsidiary and that Home's insurance subsidiary will terminate its agency activities. In order to receive deferred revenues due under an existing contract, Home's insurance subsidiary will retain its license for two years after consummation of this proposal. During that time the subsidiary will engage only in referring customers to its former insurance underwriter. Home does not engage in any other activities that are not

to approve the application, the Board also is required by section 4(c)(8) of the BHC Act to determine that the ownership and operation of Home by Mid Am "can reasonably be expected to produce benefits to the public... that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices." 12 U.S.C. § 1843(c)(8).

Mid Am, which operates three subsidiary banks, is the 25th largest depository organization in Ohio, controlling deposits of \$808.3 million, representing less than 1 percent of the total deposits in the state.4 Mid Am also engages through several subsidiaries in permissible nonbanking activities. Home, which operates five offices in Ohio, is the 78th largest depository organization in Ohio, controlling deposits of \$189.8 million. After consummation of the proposed acquisition, Mid Am would become the 21st largest depository organization in Ohio with aggregate deposits of \$998.1 million, representing less than 1 percent of the total deposits in the State. In the Board's view, consummation of the proposal would not have a significantly adverse effect on the concentration of resources in depository institutions in Ohio.

Mid Am and Home compete directly in four banking markets in Ohio. In the Defiance County banking market,5 Mid Am is the sixth largest of nine depository institutions, controlling \$24.7 million in deposits, representing 5.8 percent of deposits of banks and thrift institutions in the market ("market deposits"). Home is the third largest depository institution, controlling \$62.5 million in deposits, representing 14.8 percent of market deposits. Upon consummation of this proposal, Mid Am would become the largest depository organization in the Defiance County market, with 30.9 percent of market deposits.6 The Defiance County banking market is considered highly concentrated, with the four largest depository institutions currently controlling 75.9 percent of the market deposits. After consummation of the proposal, the Herfindahl-Hirschman Index ("HHI") would increase by 334 points, to a level of 2103.7

Although this proposal would eliminate some existing competition in the Defiance County banking market, the Board believes that a number of factors mitigate the potential anticompetitive effects of this proposal. First Federal Savings and Loan, Defiance, Ohio ("First Federal"), the largest depository organization in the Defiance County market, actively competes with commercial banks in the market.8 First Federal is a major provider of consumer and non-real estate commercial loans, in addition to offering a full range of time and demand deposit services. Among the five depository institutions headquartered in the Defiance County market, First Federal held the largest dollar volume of consumer loans and the second largest volume of commercial loans at year-end 1989. First Federal has a separate commercial lending department and holds approximately 16.2 percent of its assets in consumer loans and 5.5 percent in commercial loans.9 In comparison, the commercial banks operating in the Defiance County market hold, on average, 13.1 percent of their assets in consumer loans and 15.9 percent in commercial loans.

Based on the size, market share, and activities of First Federal in this market, the Board has concluded that it is appropriate to include First Federal's deposits at 100 percent in analyzing the competitive effects of this proposal in the Defiance County market. ¹⁰ If 100 percent of the deposits of First Federal are included in the calculation of market concentration, Mid Am would control 27.1 percent of the market deposits upon consummation. The HHI would increase by 186 points

permissible for bank holding companies under section 4(c)(8) of the BHC Act.

^{4.} State deposit data are as of March 31, 1990. Market data are as of June 30, 1989.

^{5.} The Defiance County banking market consists of Defiance County, Ohio, excluding Hicksville Township; Paulding County, Ohio, excluding Carryall Township; Flatrock and Pleasant Townships in Henry County, Ohio; and Monroe and Perry Townships in Putnam County, Ohio.

^{6.} The pre-consummation market share statistics are based on calculations in which the deposits of Home and all other savings associations are included at 50 percent. Upon consummation, Home will be merged with a commercial banking organization, thus, on a proforma basis, the deposits of Home are included at 100 percent, while the deposits of other savings associations continue to be included at 50 percent unless otherwise indicated.

^{7.} Under the revised Department of Justice Merger Guidelines, 49 Federal Register 26,823 (1984), a market in which the post-merger HHI is between 1000 and 1800 is considered moderately concentrated. In such markets, the Justice Department is unlikely to challenge a merger if an increase in the HHI is less than 100 points. Any market in which the post-merger HHI is over 1800 is considered highly concentrated, and the Justice 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 Justice Department has informed the Board that a bank merger or acquisition generally will not be challenged (in the absence of other factors indicating anticompetitive effects) unless the postmerger HHI market 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.

^{8.} First Federal controls \$132.7 million in deposits, representing 27.1 percent of market deposits.

^{9.} Nationwide, thrift institutions hold, on average, 4.5 percent of their assets in consumer loans and 2.8 percent in commercial loans.

^{10.} The Board has previously indicated that it may be appropriate in light of market factors in a specific market to include thrift deposits at a level greater than 50 percent when analyzing the competitive effects of a proposal. See, e.g., Fleet Financial Group, Inc., 74 Federal Reserve Bulletin 62, 64 (1988); Hartford National Corporation, 73 Federal Reserve Bulletin 720, 721 (1987).

from 1874 to 2060. Eight depository institutions would remain as competitors upon consummation of the proposal including the two largest pre-merger depository institutions. In addition, the Defiance County market is attractive for entry by new banking competitors. Based on the foregoing, the Board has concluded that First Federal exerts a competitive influence that mitigates the anticompetitive effects of this proposal in the Defiance County banking market.

Mid Am and Home also compete directly in the Williams County, ¹² Fulton County, ¹³ and Henry County ¹⁴ banking markets in Ohio. The Henry County market is not currently highly concentrated, and would not become so after consummation of this proposal. The HHI in the Williams County market would increase by only 90 points to just above 1800 and would not increase in the Fulton County market. In addition, numerous other depository institutions would continue to compete in each market. ¹⁵ On the basis of the foregoing and other facts of record, the Board believes that consummation of this proposal would not have a significantly adverse effect on competition in any relevant banking market.

The financial and managerial resources and future prospects of Mid Am, its bank subsidiaries, and Home are consistent with approval. Upon consummation of this proposal, Mid Am, its bank subsidiaries, and Home would meet applicable capital requirements.

In light of the above considerations, and based on all the facts of record, the Board has determined that consummation of this proposal is not likely to result in any other significantly adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices. Accordingly, based upon consideration of all the relevant facts, the Board has determined that the balance of the public interest factors that it is required to consider under section 4(c)(8) of the BHC Act is favorable and consistent with approval of Mid Am's application to acquire Home.

Accordingly, the Board has determined that the proposed application pursuant to section 4(c)(8) of the BHC Act should be, and hereby is, approved. This

determination is subject to all the conditions set forth in the Board's Regulation Y, including sections 225.4(d) and 225.23, and 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, or to prevent evasion of, the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder.

In considering Mid Am's request for approval of the merger of Home into Bryan Bank pursuant to section 5(d)(3) of the FDI Act, the record in this case shows that:

- (1) The aggregate amount of the total assets of all depository institution subsidiaries of Mid Am is \$941.6 million, an amount which is not less than 200 percent of the total assets of Home, which currently has \$185.5 million in total assets;
- (2) Mid Am and all its bank subsidiaries currently meet all applicable capital standards and, upon consummation of the proposed transactions, will continue to meet all applicable capital standards;
- (3) The transaction is not in substance the acquisition of a Bank Insurance Fund member bank by a Savings Association Insurance Fund member;
- (4) Home had tangible capital of less than 5 percent during the quarter preceding its acquisition by Mid Am; (5) The transaction, which involves the merger of Home, a savings association located in Ohio, into a bank subsidiary of Mid Am, a bank holding company whose banking subsidiaries' operations are principally conducted in Ohio, would comply with the requirements of section 3(d) of the BHC Act if Home were a state bank which Mid Am was applying to acquire.

Based on the foregoing and all the other facts of record, the Board has determined that the proposed application under section 5(d)(3) of the FDI Act should be, and hereby is, approved. This approval is subject to Mid Am obtaining the required approvals of the appropriate federal and state banking agencies for the proposed merger.

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

By order of the Board of Governors, effective September 4, 1990.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

^{11.} The Defiance County market encompasses an area in which population growth, *per capita* personal income, and deposit growth exceed the comparable averages of similar Ohio banking markets.

The Williams County banking market is approximated by Williams County, Ohio.

^{13.} The Fulton County banking market includes: a majority of Fulton County, Ohio, and the southern halves of Seneca, Ogden, and Fairfield Townships in Lenawee County, Michigan.

^{14.} The Henry County banking market includes Henry County, Ohio, excluding Flatrock and Pleasant Townships.

^{15.} The Henry County, Williams County, and Fulton County markets will have six, seven, and seven other depository institutions, respectively, continuing to compete in these markets after consummation of this proposal.

SouthTrust Corporation Birmingham, Alabama

Order Approving Application to Acquire a Savings Association

SouthTrust Corporation, Birmingham, Alabama ("SouthTrust"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), has applied pursuant to section 4(c)(8) of the BHC Act (12 U.S.C. § 1843(c)(8)) and section 225.23(a) of the Board's Regulation Y (12 C.F.R. 225.23(a)), to acquire at least 80 percent of Liberty Savings Bank of South Georgia, F.S.B., Valdosta, Georgia ("Liberty"), a federally chartered savings bank, pursuant to section 225.25(b)(9) of the Board's Regulation Y (12 C.F.R. 225.25(b)(9)).

Notice of the application, affording interested persons an opportunity to submit comments, has been published (55 Federal Register 7566 (1990)). 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.

The Board has determined that the operation of a savings association is closely related to banking and permissible for bank holding companies. 12 C.F.R. 225.25(b)(9). In making this determination, the Board required that savings associations acquired by bank holding companies conform their direct and indirect activities to those activities permissible for bank holding companies under section 4 of the BHC Act. SouthTrust has committed to conform the direct and indirect activities of Liberty to the requirements of section 4(c)(8) of the BHC Act and Regulation Y upon consummation.

In order to approve applications under section 4(c)(8) of the BHC Act, the Board is required to determine that the performance of the proposed activities by South-Trust "can reasonably be expected to produce benefits to the public . . . that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices." 12 U.S.C. § 1843(c)(8).

SouthTrust, with total consolidated assets of \$8.3 billion, operates 41 banking subsidiaries located in Alabama, Florida, Georgia, South Carolina, and Tennessee.² SouthTrust is the second largest commercial banking organization in Alabama, controlling approximately \$5.1 billion in commercial bank deposits in

Alabama, representing 18.3 percent of the total deposits in commercial banking organizations in the state. SouthTrust operates two banking subsidiaries in Georgia, controlling approximately \$51.7 million in deposits, representing less than 1 percent of the total deposits in commercial banks in the state.³

Liberty is the 18th largest savings association in Georgia, with approximately \$185 million in total deposits, representing slightly more than 1 percent of the total thrift deposits in the state. Upon consummation of the proposed acquisition, SouthTrust would become the 12th largest commercial banking organization in Georgia, controlling approximately \$236.7 million in deposits, representing less than 1 percent of total deposits in commercial banking organizations in the state. In the Board's view, consummation of this proposal would not have a significantly adverse effect upon the concentration of banking organizations in Georgia.

SouthTrust and Liberty would compete directly in the Atlanta, Georgia, banking market upon consummation.⁵ In the Atlanta banking market, SouthTrust is the 46th largest depository organization, controlling \$51.7 million in deposits, representing less than 1 percent of total deposits held by banks and savings associations operating in the market ("market deposits"). Liberty is the 34th largest depository organization, controlling \$144.5 million in deposits in the Atlanta banking market, representing less than 1 percent of market deposits. Upon consummation of this proposal, SouthTrust would become the 14th largest depository organization in the market, controlling approximately \$196.2 million in deposits, representing less than 1 percent of market deposits.6 Upon consummation of the proposal, the Herfindahl-Hirschman Index ("HHI") would decrease by five points to 1086 with the Atlanta banking market remaining moderately concentrated.7 In light of these

^{1.} Prior to the proposed acquisition, Liberty's parent, First Liberty Financial Corporation, Atlanta, Georgia, will cause Liberty to acquire 17 of 34 branches located in northern Georgia counties from an affiliated federal savings association in exchange for Liberty's sole branch in Valdosta, Georgia.

^{2.} Asset data are as of June 30, 1990. State and market banking data are as of June 30, 1989.

^{3.} SouthTrust's recent acquisition of one of its Georgia banking subsidiaries is not included in the state or market data, and, if included, would not change the competitive considerations based on the small deposit size of that bank.

^{4.} The deposit data of Liberty and the competitive considerations in this order reflect Liberty after the restructuring with its affiliated savings association.

The Atlanta Metro Area banking market in Georgia includes the counties of Cherokee, Clayton, Cobb, Dekalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton.

^{6.} The pre-consummation market share data are based on calculations in which the deposits of Liberty and all other thrifts are included at 50 percent. Upon consummation of the proposal, Liberty would be affiliated with a commercial banking organization, thus, on a proforma basis, the deposits of Liberty are included at 100 percent, while the deposits of other savings associations continue to be included at 50 percent.

^{7.} Under the revised Department of Justice Merger Guidelines, 49 Federal Register 26,823 (1984), a market in which the post-merger HHI is between 1000 and 1800 is considered moderately concentrated. In such markets, the Justice Department is unlikely to challenge a merger if the increase in the HHI is less than 100 points.

and other facts of record, the Board concludes that the acquisition would not have a significantly adverse effect on competition in the Atlanta banking market.

The financial and managerial resources and future prospects of SouthTrust and its bank subsidiaries and of Liberty are also consistent with approval. In assessing the financial factors, the Board believes that bank holding companies must maintain adequate capital at savings associations that they propose to acquire. Upon consummation, SouthTrust and its bank subsidiaries would meet applicable capital requirements, and SouthTrust will cause Liberty to meet all applicable capital requirements. In this regard, SouthTrust has committed that Liberty will have Tier 1 capital, excluding all intangible assets, of at least three percent of its total assets upon consummation of the proposal. In addition, SouthTrust commits that Liberty will meet all current and future minimum capital ratios adopted for savings associations by the Office of Thrift Supervision ("OTS") or the Federal Deposit Insurance Corporation. The record does not indicate that consummation of this proposal is likely to result in any significant adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices.

The Community Bankers Association of Georgia ("CBA") has protested SouthTrust's application on the grounds that the proposed acquisition of the restructured Liberty violates Georgia law. Georgia law states that any "bank," including a federal savings bank, cannot be acquired unless it has been in existence and continuously operated as a bank for a period of five years. CBA maintains that the reorganization of Liberty before its acquisition by SouthTrust results in an institution that does not meet this condition. The Georgia statute, however, requires only "existence" and "continuous" operations as a bank for the requisite five-year period. Both Liberty and its affiliated savings association have been in existence and continuously operating for a period greater than five years. Accord-

ingly, the Board believes that the proposal complies with the requirements of the Georgia statute.¹¹

CBA also alleges that SouthTrust intends to merge Liberty with one of SouthTrust's commercial banks in Georgia, thereby permitting this commercial bank to indirectly acquire as commercial bank branches half of a federal savings association's branches, in violation of state law. 12 At this time, SouthTrust has not proposed to merge Liberty with any of SouthTrust's subsidiary banks. Approval of SouthTrust's application before the Board only authorizes the operation of Liberty as a federal savings association under section 4(c)(8) of the BHC Act. Additional state and federal regulatory approvals would be required before SouthTrust could effect such a merger. 13 Accordingly, the Board believes that issues regarding SouthTrust's future plans for commercial bank branches are more appropriately raised if and when SouthTrust determines to take this action and seeks the required regulatory approvals.

A minister of the Nation of Islam also has protested this application, alleging that SouthTrust's lead banking subsidiary, SouthTrust Bank of Alabama, N.A., Birmingham, Alabama ("Birmingham bank"), is not meeting the credit needs of minority communities in its service area, as required by the Community Reinvestment Act (12 U.S.C. § 2901 et seq.) ("CRA"). ¹⁴ The Board has recently found the CRA record of SouthTrust and its Birmingham bank to be consistent with approval. ¹⁵ Accordingly, the Board concludes that this protest does not raise issues sufficient to warrant denial of this application.

Based on the foregoing and all the facts of record including the commitments made by SouthTrust set forth in this Order, the Board has determined that the balance of public interest factors it must consider under section 4(c)(8) of the BHC Act is favorable and consistent with approval of SouthTrust's application to acquire Liberty. Accordingly, the Board has determined that the proposed application should be, and hereby is, approved. This

^{8.} These comments were received after the close of the comment period and SouthTrust has objected to the comments as untimely. The Board has taken into consideration the substance of these comments with respect to this application as authorized under its rules. See 12 C.F.R. 262.3(e).

^{9.} Ga. Code Ann. § 7-1-621(d)(2) (1989).

^{10.} As a general matter, a federal savings association's ability to branch within a state is governed by the branching regulations of the OTS which provide that "as a general policy, the [OTS] permits a Federal savings association to branch within the state in which its home office is located" 12 C.F.R. 556.5. Under the case law, it is well-settled that the OTS has the power to authorize branch facilities and that this mandate grants to the OTS the complete authority to permit intrastate branching by federal associations. City Federal Savings and Loan Ass'n v. Federal Home Loan Bank Board, 600 F.2d 681, 685 (7th Cir. 1979); Independent Bankers Ass'n of America v. Federal Home Loan Bank Board, 557 F. Supp. 23, 26 (D.D.C. 1982). The OTS has granted conditional approval to the restructuring of Liberty's branches.

^{11.} The Georgia Department of Banking and Finance has approved the acquisition and determined that the CBA protest did not raise issues warranting denial.

^{12.} Ga. Code Ann. § 7-1-606(e) provides that when a bank holding company effects a change in the corporate structure of its banking subsidiaries through merger, consolidation or purchase, the resulting bank may continue to engage in all of the banking activities that were conducted by all of the banks before the changes in their structures. The Supreme Court of Georgia recently has clarified that this exemption to state branching restrictions is not available when the commercial bank subsidiary of a bank holding company acquires only some of the branches of a banking organization located in a different county. First Nat'l Bank of Commerce v. Community Bankers Ass'n, No. S90G0355 (Ga. July 10, 1990).

^{13.} See Ga. Code Ann. § 7–1-606(e) and the Bank Merger Act (12 U.S.C. § 1828(c)).

^{14.} The Board will review CRA performance in considering applications by bank holding companies to expand their deposit-taking ability through the acquisition of a savings association pursuant to section 4(c)(8) of the BHC Act. Norwest Corporation, 76 Federal Reserve Bulletin 873 (1990).

^{15.} SouthTrust Corporation (SouthTrust of Florida), 76 Federal Reserve Bulletin 647 (1990).

determination is subject to all of the conditions set forth in the Board's Regulation Y, including sections 225.4(d) and 225.23 (12 C.F.R. 225.4(d) and 225.23), and to the Board's authority to require modification or termination of the activities of a bank holding company or any of its subsidiaries as the Board finds necessary to assure compliance with, or to prevent evasion of, the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder. This transaction shall not be consummated later than three months after the effective

date of this Order, unless such period is extended for good cause by the Board or by the Federal Reserve Bank of Atlanta, pursuant to delegated authority.

By order of the Board of Governors, effective September 20, 1990.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

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

Recent orders have been issued by the Staff Director of the Division of Banking Supervision and Regulation and the General Counsel of the Board as listed below. Copies are available upon request to the Freedom of Information Office, Office of the Secretary, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

Bank Holding Company	Acquired Thrift	Surviving Bank(s)	Approval Date		
Banc One Corporation, Columbus, Ohio	Capitol City Federal Savings Association, Austin, Texas	Bank One, Texas, N.A., Dallas, Texas	September 13, 1990		
Banc One Corporation, Columbus, Ohio	Empire Federal Savings Bank of America, Buffalo, New York (Texas Branches)	Bank One, Texas, N.A., Dallas, Texas	September 28, 1990		
BankAmerica Corporation, San Francisco, California	Merabank Federal Savings Bank, Phoenix, Arizona	Bank of America Arizona, Phoenix, Arizona	September 28, 1990		
Barnett Banks, Inc., Jacksonville, Florida	Empire Federal Savings Bank of America, Buffalo, New York (Florida Division)	Barnett Bank of Volusia County, DeLand, Florida Barnett Bank of Central Florida, N.A., Winter Park, Florida Barnett Bank of Lake County, N.A., Eustis, Florida Barnett Bank of Pinellas County, St. Petersburg, Florida Barnett Bank of Tampa, N.A., Tampa, Florida Barnett Bank of Alachua County, N.A., Gainesville, Florida Barnett Bank of North Central Florida,	September 28, 1990		

FIRREA Orders—Continued

Bank Holding Company	Acquired Thrift	Surviving Bank(s)	Approval Date	
Citizens Bancshares, Inc., Salineville, Ohio	Inc., Savings and Loan		September 7, 1990	
Comerica Incorporated, Detroit, Michigan	Empire Federal Savings Bank of America, Buffalo, New York (Michigan Branches)	Comerica Bank-Detroit, Detroit, Michigan	September 28, 1990	
Community First North Dakota Bankshares, Inc., Fargo, North Dakota	Midwest Federal Savings Bank of Minot, Minot, North Dakota (Dickinson Branch)	Community First National Bank & Trust Company of Dickinson, Dickinson, North Dakota	September 21, 1990	
Crestar Financial Corporation, Richmond, Virginia	Seasons Federal Savings Bank, Richmond, Virginia	Crestar Bank, Richmond, Virginia	September 28, 1990	
Crestar Financial Corporation, Richmond, Virginia	Security Federal Savings Association, Richmond, Virginia	Crestar Bank, Richmond, Virginia	September 28, 1990	
Fessenden Bancshares, Inc., Fessenden, North Dakota	Midwest Federal Savings Bank of Minot, Minot, North Dakota (Fargo Branch)	The First National Bank, Fessenden, North Dakota	September 21, 1990	
First Affiliated Bancorp, Inc., Watseka, Illinois	Crest Federal Savings and Loan Association, Kankakee, Illinois (West Court Street Branch)	Watseka First National Bank, Watseka, Illinois	September 13, 1990	
First Alabama Bancshares, Inc., Montgomery, Alabama	City Federal Savings and Loan Association, Birmingham, Alabama	First Alabama Bank, Montgomery, Alabama	September 13, 1990	
First Chicago Corporation, Chicago, Illinois	Great American Federal Savings & Loan Association, Oak Park, Illinois	The First National Bank of Chicago, Chicago, Illinois	September 21, 1990	
First Citizens BancShares, Inc., Raleigh, North Carolina	North Carolina Savings and Loan Association, F.A., Charlotte, North Carolina	First Citizens Bank, Raleigh, North Carolina	September 21, 1990	
First Empire State Corporation, Buffalo, New York	Key Interim Savings Bank, FSB, Buffalo, New York	Manufacturers and Traders Trust Company, Buffalo, New York	September 28, 1990	
First Forest Corporation, Forest, Mississippi	Central Savings Bank, Jackson, Mississippi	Bank of Forest, Forest, Mississippi	September 28, 1990	

FIRREA Orders—Continued

Bank Holding Company	Acquired Thrift	Surviving Bank(s)	Approval Date
FirsTier Financial, Inc., Omaha, Nebraska FirsTier Savings Bank, F.S.B., Omaha, Nebraska (Blair, Fremont, and Kearney Branches)		FirsTier Bank, N.A., Omaha, Nebraska	September 28, 1990
KeyCorp, Albany, New York	Empire Federal Savings Bank of America, Buffalo, New York (Eastern Division)	Key Bank of Eastern New York, N.A., Albany, New York	September 28, 1990
KeyCorp, Albany, New York	Empire Federal Savings Bank of America, Buffalo, New York (Western Division)	Key Bank of Western New York, N.A., Buffalo, New York Key Bank of Central New York, N.A., Syracuse, New York	September 28, 1990
Peoples Heritage Financial Group, Inc., Portland, Maine	Home Owners Savings Bank, F.S.B., Boston, Massachusetts (Maine Branches)	Peoples Heritage Savings Bank, Portland, Maine	September 7, 1990
Rolla Holding Company, Inc., Rolla, North Dakota	Midwest Federal Savings Bank of Minot, Minot, North Dakota (Rolla Branch)	First State Bank Rolla, Rolla, North Dakota	September 21, 1990
SCB Bancorp, Inc., Decatur, Illinois	Gem City Federal Savings and Loan Association, Quincy, Illinois (Decatur Branches)	Soy Capital Bank and Trust Company, Decatur, Illinois	September 7, 1990
Security Pacific Corporation, Los Angeles, California	Mercury Federal Savings and Loan Association, Huntington Beach, California	Security Pacific National Bank, Los Angeles, California	September 21, 1990
UST Corp., Boston, Massachusetts	Home Owners Savings Bank, F.S.B., Boston, Massachusetts (Massachusetts Branches)	United States Trust Company, Boston, Massachusetts	September 7, 1990
Valley Bancshares, Inc., Grand Forks, North Dakota	Midwest Federal Savings Bank of Minot, Minot, North Dakota (Hillsboro Branch)	Valley Bank and Trust Company, Grand Forks, North Dakota	September 21, 1990
Watford City Bancshares, Inc., Watford City, North Dakota	Midwest Federal Savings Bank of Minot, Minot, North Dakota (Williston, Minot, West Minot and Killdeer Branches)	The First International Bank, Watford City, North Dakota	September 21, 1990

APPLICATIONS APPROVED UNDER BANK HOLDING COMPANY ACT

By the Secretary of the Board

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

Section 3

Applicant(s)	Bank(s)	Effective date
Barnett Banks, Inc., Jacksonville, Florida	Barnett Card Services Bank, N.A., Jacksonville, Florida	September 7, 1990
Section 4		
Applicant(s)	Bank(s)	Effective date
BankAmerica Corporation, San Francisco, California	BAA Interim Federal Savings Bank, Phoenix, Arizona	September 28, 1990
BankAmerica Corporation, San Francisco, California	Bank of America, Federal Savings Bank, Portland, Oregon	September 7, 1990
Barnett Banks, Inc., Jacksonville, Florida	Barnett Federal Savings Bank, Jacksonville, Florida	September 28, 1990
First Chicago Corporation, Chicago, Illinois	First Chicago Federal Interim Savings Bank, Chicago, Illinois	September 20, 1990
First Empire State Corporation, Buffalo, New York	Manufacturers and Traders Interim Bank, FSB, Buffalo, New York	September 28, 1990
KeyCorp, Albany, New York	Key Interim Savings Bank, FSB, Buffalo, New York Key Eastern Interim Savings Bank, FSB, Albany, New York	September 28, 1990
Security Pacific Corporation, Los Angeles, California	Mercury Federal Interim Savings Association, Los Angeles, California	September 20, 1990
Trans Financial Bancorp, Inc., Bowling Green, Kentucky	Trans Financial Acquisition Corporation, Russellville, Kentucky	September 6, 1990

APPLICATIONS APPROVED UNDER BANK HOLDING COMPANY ACT

By Federal Reserve Banks

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

Section 3

Applicant(s)	Bank(s)	Reserve Bank	Effective date
AmeriWest Corporation, Omaha, Nebraska	United Bancshares of Nebraska, Inc., Omaha, Nebraska	Kansas City	August 29, 1990
Aurora First National Company, Aurora, Nebraska	Antelope Savings Bank, F.A., Aurora, Nebraska	Kansas City	August 24, 1990
Banco Bilbao Vizcaya, S.A., Bilbao, Spain	New Mexico Banquest Investors Corporation, Santa Fe, New Mexico	New York	September 4, 1990
Banc One Corporation, Columbus, Ohio	D.S.B. Bancshares, Inc., Randolph, Wisconsin	Cleveland	August 27, 1990
Bank of Montana System, Great Falls, Montana	Toole County State Bank, Shelby, Montana	Minneapolis	September 18, 1990
Bank of Montreal, Montreal, Quebec, Canada Bankmont Financial Corp., New York, New York Harris Bankcorp, Inc., Chicago, Illinois	Frankfort Bancshares, Inc., Frankfort, Illinois	Chicago	August 30, 1990
Bonduel Bancorp, Inc., Bonduel, Wisconsin	Bonduel State Bank, Bonduel, Wisconsin	Chicago	September 5, 1990
Cathay Bancorp, Inc., Los Angeles, California	Cathay Bank, Los Angeles, California	San Francisco	August 24, 1990
CBR Bancshares Corp., Rogersville, Missouri	Citizens Bank of Rogersville, Rogersville, Missouri	St. Louis	September 12, 1990
Central Community Corporation, Wilmington, Delaware	First State Bank, Temple, Texas	Dallas	September 18, 1990
Chalybeate Springs Corporation, Hughes Springs, Texas	The First National Bank of Hughes Springs, Hughes Springs, Texas	Dallas	August 31, 1990
CNB Bancorp, Attica, Indiana	The Central National Bank and Trust Company, Attica, Indiana	Chicago	August 28, 1990
CNB Bancshares, Inc., Evansville, Indiana	Henderson County State Bank, Henderson, Kentucky	St. Louis	September 5, 1990
Community Bancorporation, Pullman, Washington	Farmers State Bank of Uniontown, Uniontown, Washington	San Francisco	September 6, 1990
Community National Bancorporation of South Carolina, Inc., Columbia, South Carolina	Community National Bank of South Carolina, Columbia, South Carolina	Richmond	September 20, 1990

Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective date
Conrad Company,	First National Bank,	Minneapolis	August 24, 1990
Minneapolis, Minnesota	Cut Bank, Montana	-	-
Country Bank Shares, Inc., Milford, Nebraska	Owens Investment Company, Weeping Water, Nebraska	Kansas City	September 6, 1990
C.S.B. Company, Cozad, Nebraska	Pine Ridge Management Inc., Chadron, Nebraska	Kansas City	September 14, 1990
Decatur Bancshares, Inc., Decatur, Arkansas	Decatur State Bank, Decatur, Arkansas	St. Louis	September 21, 1990
Farmers National Bancshares of Bethany, Inc., Bethany, Missouri	Farmers National Bank of Ridgeway, Bethany, Missouri	Kansas City	September 14, 1990
First Canadian Bancorp, Inc., Canadian, Texas	Lipscomb Bancshares, Inc., Higgins, Texas First National Bank in Higgins, Higgins, Texas	Dallas	September 20, 1990
First of America Bank Corporation, Kalamazoo, Michigan	Trustcorp Bank, Columbus, National Association, Columbus, Indiana	Chicago	September 10, 1990
First of America Bank Corporation-Indiana, Indianapolis, Indiana			
First National Insurance Agency, Inc., Exeter, Nebraska	First National Bank in Exeter, Exeter, Nebraska	Kansas City	August 29, 1990
FNB Newton Bankshares, Inc., Covington, Georgia	Georgia Central Bancshares, Inc., Social Circle, Georgia	Atlanta	September 14, 1990
The Gadsden Corporation, Altoona, Alabama	The Attalla Trust Company, Attalla, Alabama	Atlanta	August 30, 1990
Garfield County Bancshares, Inc., Jordan, Montana	Garfield County Bank, Jordan, Montana	Minneapolis	August 24, 1990
George Gale Foster Corporation, Poughkeepsie, New York	Fishkill National Corporation, Beacon, New York	New York	August 17, 1990
Happy Bancshares, Inc., Canyon, Texas	First State Bank, Happy, Texas	Dallas	August 29, 1990
INB Financial Corporation, Indianapolis, Indiana	The Peoples Savings Bank of Evansville, Indiana, Evansville, Indiana	Chicago	September 12, 1990
Jackson Bancorporation, Jackson, Minnesota	Fairmont Bancorporation, Fairmont, Minnesota Bank Midwest, Minnesota Iowa, N.A., Jackson, Minnesota	Minneapolis	September 19, 1990
JDJ Banco, Inc., Lynch, Nebraska	Nebraska State Bank, Lynch, Nebraska	Kansas City	August 29, 1990
Lowry Facilities, Inc., Clinton, Oklahoma	Oklahoma Bancorporation, Inc., Clinton, Oklahoma	Kansas City	August 28, 1990

Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective date
Mercantile Bankshares Corporation, Baltimore, Maryland	The Farmers & Merchants Bank - Eastern Shore, Onley, Virginia	Richmond	September 19, 1990
The Merchants Holding Company, Winona, Minnesota	La Crescent, Minnesota	Minneapolis	September 7, 1990
Midstates Bancshares, Inc., Omaha, Nebraska	Harlan National Company, Harlan, Iowa First National Company of Missouri Valley, Inc., Missouri Valley, Iowa	Chicago	September 13, 1990
Nichols Financial, Inc., Sunfish Lake, Minnesota	First State Bank of Storden, Storden, Minnesota	Minneapolis	August 24, 1990
Northeast Bancorp, Inc., Summit, South Dakota	Peoples State Bank, Summit, South Dakota	Minneapolis	September 18, 1990
Old National Bancorp, Evansville, Indiana	Security Bank and Trust Company, Mt. Carmel, Illinois	St. Louis	September 14, 1990
Overton Bancorporation, Inc., Dover, Delaware	Overton Park National Bank, Fort Worth, Texas First National Bank Mansfield, Mansfield, Texas	Dallas	August 31, 1990
Pacific Capital Bancorp, Salinas, California	Pajaro Valley Bancorporation, Watsonville, California	San Francisco	September 14, 1990
Rising Sun Bancorp, Rising Sun, Maryland	The National Bank of Rising Sun, Rising Sun, Maryland	Richmond	September 20, 1990
Royal Bancshares, Inc., Elroy, Wisconsin	Lone Rock Investments, Inc., Lone Rock, Wisconsin	Chicago	September 13, 1990
Sand Springs Bancshares, Inc., Tulsa, Oklahoma	Bank of Oklahoma, Sand Springs, Sand Springs, Oklahoma	Kansas City	September 19, 1990
Screven Bancshares, Inc., Sylvania, Georgia	Farmers and Merchants Bank, Sylvania, Georgia	Atlanta	September 18, 1990
Silsbee Financial Corporation, Silsbee, Texas	Silsbee State Bank, Silsbee, Texas	Dallas	September 6, 1990
Soperton Naval Stores, Inc., Soperton, Georgia	Soperton Bancshares, Inc., Soperton, Georgia	Atlanta	September 14, 1990
Southwest Bancshares, Inc., Trumann, Arkansas	First National Bank of Poinsett County, Trumann, Arkansas	St. Louis	September 21, 1990

Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective date	
Stuart Family Partnership, Lincoln, Nebraska	Minden Exchange Company, Minden, Nebraska	Kansas City	August 24, 1990	
Catherine Stuart Schmoker Family Partnership,				
Lincoln, Nebraska				
James Stuart, Jr. Family				
Partnership,				
Lincoln, Nebraska				
Scott Stuart Family Partnership,				
Lincoln, Nebraska				
First Commerce Bancshares, Inc., Lincoln, Nebraska				
Synovus Financial Corp., Columbus, Georgia TB&C Bancshares, Inc.,	First Coast Community Bank, Fernandina Beach, Florida	Atlanta	September 14, 1990	
Columbus, Georgia				
Tysons Financial Corporation, Vienna, Virginia	Tysons National Bank (in organization), Vienna, Virginia	Richmond	August 27, 1990	
United Missouri Bancshares, Inc., Kansas City, Missouri	Liberty National Bank, Liberty, Missouri	Kansas City	September 10, 1990	
Wayne City Bancorp, Inc., Springfield, Illinois	First National Bank of Wayne City, Wayne City, Illinois	St. Louis	September 7, 1990	
Weatherford Bancorporation, Inc., Weatherford, Oklahoma	United Community Bank, Weatherford, Oklahoma	Kansas City	September 7, 1990	

Section 4

Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective date	
Amsterdam-Rotterdam Bank N.V., Amsterdam, The Netherlands Stichting Amro, Amsterdam, The Netherlands ABN AMRO Holding, N.V., Amsterdam, The Netherlands Stichting Administratiekantoor ABN AMRO Holding, Amsterdam, The Netherlands Stichting Priorieit ABN-AMRO Holding, Amsterdam, The Netherlands	NSR Asset Management Corporation, New York, New York	Chicago	September 14, 1990	
Arkansas Union Bankshares, Inc., Benton, Arkansas	Benton Savings and Loan Association, Benton, Arkansas	St. Louis	August 29, 1990	

Section 4—Continued

Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective date
Bank of Montreal, Montreal, Quebec, Canada Bankmont Financial Corp., New York, New York Harris Bankcorp, Inc., Chicago, Illinois	Harris Investment Management, Inc., Chicago, Illinois	Chicago	September 5, 1990
Bank Shares, Incorporated, Minneapolis, Minnesota	to continue to furnish employee benefit services to third parties	Minneapolis	August 31, 1990
The Dai-Ichi Kangyo Bank, Limited, Tokyo, Japan	to engage in the solicitation, execution, and clearance of certain futures contracts and options on futures contracts, and in the provision of investment advice with respect to such contracts	San Francisco	September 4, 1990
First Citizens BancShares, Inc., Raleigh, North Carolina	Catawba SavShares, Inc., Charlotte, North Carolina	Richmond	August 28, 1990
Norwest Corporation, Minneapolis, Minnesota	Abramson-Nault-Kreager-Oas Agency, Inc., Duluth, Minnesota	Minneapolis	August 24, 1990
Peoples Heritage Financial Group, Inc., Portland, Maine	PHFG Interim Savings and Loan Association, Portland, Maine	Boston	September 6, 1990
Security Bancshares, Inc., Scott City, Kansas	Crownover Insurance Agency, Oakley, Kansas	Kansas City	September 14, 1990
Sooner Southwest Bankshares, Inc., Bristow, Oklahoma	Southwest Consolidated Life Insurance Company, Phoenix, Arizona	Kansas City	September 26, 1990
The Sumitomo Bank, Limited, Osaka, Japan	SB General Leasing (USA), Inc., Greenwich, Connecticut	San Francisco	September 6, 1990
UST Corp., Boston, Massachusetts	UST Savings Bank, F.S.B., Boston, Massachusetts	Boston	September 6, 1990

APPLICATIONS APPROVED UNDER BANK MERGER ACT

By Federal Reserve Banks

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

Applicant(s)	Bank(s)	Reserve Bank	Effective date
Peoples Bank of Montross, Montross, Virginia	Newport News Savings Bank, Newport News, Virginia	Richmond	August 24, 1990
Star Bank, Kenton County, Covington, Kentucky	Star Bank, Northern Kentucky, Verona, Kentucky	Cleveland	September 10, 1990

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.

- Kuhns v. Board of Governors, No. 90-1398 (D.C. Cir., filed July 30, 1990). Petition for review of Board order denying request for attorney's fees pursuant to Equal Access to Justice Act.
- Laufman v. State of California, et al., No. CIVS-89–1755 EJM-EM (E.D. California, filed April 2, 1990).
 Action to require bank regulatory agencies to examine or bring enforcement action against bank.
- May v. Board of Governors, No. 90-1316 (D.D.C., filed June 5, 1990). Action under Freedom of Information and Privacy Acts. The Board's motion to dismiss was granted on July 17, 1990. Plaintiff's notice of appeal was filed July 27, 1990.
- Burke v. Board of Governors, No. 90-9509 (10th Circuit, filed February 27, 1990). Petition for review of Board orders assessing civil money penalties and issuing orders of prohibition.
- BancTEXAS Group, Inc. v. Board of Governors, No. CA 3-90-0236-R (N.D. Texas, filed February 2, 1990). Suit for preliminary injunction enjoining the Board from enforcing a temporary order to cease and desist requiring injection of capital into plaintiff's subsidiary banks under the Board's source of strength doctrine. District court granted preliminary injunction on June 5, 1990, in light of 5th Circuit's decision in MCorp v. Board of Governors.
- Rutledge v. Board of Governors, No. 90-7599 (11th Cir., filed August 21, 1990). Appeal of district court grant of summary judgment for defendants in tort suit challenging Board and Reserve Bank supervisory actions.
- Kaimowitz v. Board of Governors, No. 90-3067 (11th Cir., filed January 23, 1990). Petition for review of Board order dated December 22, 1989, approving application by First Union Corporation to acquire Florida National Banks. Petitioner objects to approval on Community Reinvestment Act grounds.
- Babcock and Brown Holdings, Inc. v. Board of Governors, No. 89-70518 (9th Cir., filed November 22, 1989). Petition for review of Board determination that a company would control a proposed insured bank for purposes of the Bank Holding Company Act. Awaiting scheduling of oral argument.
- Consumers Union of U.S., Inc. v. Board of Governors, No. 90-5186 (D.C. Cir., filed June 29, 1990). Appeal of District Court decision upholding amend-

- ments to Regulation Z implementing the Home Equity Loan Consumer Protection Act.
- Synovus Financial Corp. v. Board of Governors, No. 89–1394 (D.C. Cir., filed June 21, 1989). Petition for review of Board order permitting relocation of a bank holding company's national bank subsidiary from Alabama to Georgia. Oral argument scheduled for October 11, 1990.
- MCorp v. Board of Governors, No. 89–2816 (5th Cir., filed May 2, 1989). Appeal of preliminary injunction against the Board enjoining pending and future enforcement actions against a bank holding company now in bankruptcy. On May 15, 1990, the Fifth Circuit vacated the district court's order enjoining the Board from proceeding with enforcement actions based on section 23A of the Federal Reserve Act, but upheld the district court's order enjoining such actions based on the Board's source-of-strength doctrine. The Board's petition for rehearing was denied on August 5, 1990. On August 29, the Fifth Circuit denied the plaintiff's motion for a stay pending petition for certiorari.
- Independent Insurance Agents of America v. Board of Governors, No. 89-4030 (2d Cir., filed March 9, 1989). Petition for review of Board order ruling that the non-banking restrictions of section 4 of the Bank Holding Company Act apply only to non-bank subsidiaries of bank holding companies. The Board's order was upheld on November 29, 1989. Petition for certiorari filed on April 18, 1990; the Board's opposition to certiorari was filed on July 13, 1990.
- MCorp v. Board of Governors, No. CA3-88-2693 (N.D. Tex., filed October 10, 1988). Application for injunction to set aside temporary cease and desist orders. Stayed pending outcome of MCorp v. Board of Governors in Fifth Circuit.
- White v. Board of Governors, No. CU-S-88-623-RDF (D. Nev., filed July 29, 1988). Age discrimination complaint. Board's motion to dismiss or for summary judgment pending.

FINAL ENFORCEMENT ORDERS ISSUED BY THE BOARD OF GOVERNORS

Northwest Indiana Bancshares, Inc. Fort Wayne, Indiana

The Federal Reserve Board announced on September 10, 1990, the issuance of an order imposing civil money penalties against seven former directors of

Northwest Indiana Bancshares, Inc., Fort Wayne, Indiana ("Northwest"), for violations of the Bank Holding Company Act and of a cease and desist order issued by the Board against Northwest on February 13, 1984.

Andrew F. Stasio, Jr.
Former Director of Commonwealth Bank
Arlington, Texas

The Federal Reserve Board announced on September 7, 1990, the issuance of an Order of Prohibition against Andrew F. Stasio, Jr., a former director of the Commonwealth Bank, Arlington, Texas, and a former director of the Commonwealth Bancorp, Inc., Arlington, Texas, a registered bank holding company.

ACTION ON PETITION FOR ENFORCEMENT BY THE BOARD OF GOVERNORS

Citicorp New York, New York

Family Guardian Life Insurance Company Phoenix, Arizona

Order with Respect to Petition for Enforcement

The Independent Insurance Agents of America, Inc.; National Association of Casualty & Surety Agents; National Association of Life Underwriters, Inc.; National Association of Professional Insurance Agents; National Association of Surety Bond Producers; Professional Insurance Agents of Pennsylvania, Maryland and Delaware, Inc.; and the Delaware Association of Life Underwriters ("Petitioners") have petitioned the Board to initiate enforcement action to require Citicorp, New York, New York, a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), to terminate certain insurance activities conducted pursuant to a newly enacted Delaware statute by Family Guardian Life Insurance Company, Phoenix, Arizona ("Family Guardian"), an indirect nonbank subsidiary of Citicorp.1 The petition contends that the broad insurance agency and underwriting activities authorized by the Delaware statute are not permissible for bank holding companies and their nonbank subsidiaries under section 4(c)(8) of the BHC Act, as amended by the Garn-St Germain Depository

Institutions Act of 1982,² and are, therefore, not permissible for Family Guardian as a nonbank subsidiary of Citicorp under the Act.

Citicorp currently holds the shares of Family Guardian through Citibank (Delaware), New Castle, Delaware ("Citibank Delaware"), a state-chartered bank that is a wholly-owned subsidiary of Citicorp.³ Citicorp originally established Family Guardian, with the required Board approval under the BHC Act, to underwrite and sell certain credit-related insurance expressly authorized for bank holding companies by section 4(c)(8)(A) of the BHC Act.⁴ On May 31, 1990, Citicorp transferred the voting shares of Family Guardian to Citibank Delaware in order for Family Guardian to transact the broader range of insurance activities authorized under the Delaware statute which was enacted on May 30, 1990. The Delaware statute provides that a state-chartered bank may act as an insurer and transact the business of insurance (other than title insurance) through a separate division of the bank or through a subsidiary of the bank.5 After its transfer to Citibank Delaware, Family Guardian, with the approval of the Delaware Insurance Commissioner, began to expand the scope of its insurance activities to include insurance underwriting and agency functions that are not permissible for bank holding companies under section 4(c)(8) of the Act.6

Citicorp acquired Citibank Delaware pursuant to Delaware's Financial Center Development Act, which allows out-of-state bank holding companies to acquire newly chartered state banks in the state, subject to certain conditions. The banks acquired by out-of-state companies must employ at least 200 residents of Delaware after two years, may have only one branch open to the general public in Delaware, and may not market the bank's products and services in Delaware to the substantial detriment of existing Delaware banks, except to serve and retain existing customers.⁷ Although the Delaware statute authorizes state-char-

^{1.} The American Council of Life Insurance, the American Insurance Association, the National Association of Independent Insurers, and the Alliance of American Insurers have, by separate letter, joined in the petition for enforcement.

^{2. 12} U.S.C. § 1843(c)(8). The Garn-St Germain Depository Institutions Act of 1982 amended section 4(c)(8) of the BHC Act to provide that it is not closely related to banking for a bank holding company to provide insurance as a principal, agent or broker except in seven specific situations.

Citibank Delaware engages primarily in leasing and commercial lending activities, and had assets of approximately \$1.8 billion as of March 31, 1990.

^{4. 12} U.S.C. § 1843(c)(8)(A). The insurance activities of Family Guardian prior to its transfer to Citibank Delaware had been authorized by the Board under the first of the seven exceptions specified in the Garn-St Germain Act.

^{5.} House Bill No. 193, House Substitute No. 1 ("House Bill No. 193").

^{6.} As of March 31, 1990, Family Guardian had \$203 million in assets and net contingent insurance liabilities outstanding of several billion dollars. At present, the expanded insurance activities of Family Guardian represent an insignificant percentage of its business.

^{7.} Del. Code Ann. tit. 5, §§ 801-07.

tered banks to engage in the general insurance business on a nationwide basis through offices in any state, banks owned by out-of-state holding companies may not market the sale of insurance products in Delaware to the detriment of Delaware banks.⁸

In addition, the Delaware statute requires that the insurance activities must be conducted through a division or department of the bank that must be separately capitalized in accordance with the requirements of the Insurance Code, that must maintain financial records separate and distinct from the other records of the bank, and that must comply with an extensive series of structural, operational, and regulatory requirements designed to treat the insurance division as a distinct corporate entity separate from the bank.⁹

In their petition for enforcement, filed on May 30, 1990, Petitioners argue that Citicorp is not authorized to hold Family Guardian under the BHC Act once it expands its insurance activities beyond those authorized and approved by the Board under section 4(c)(8) of the BHC Act. Petitioners contend that, as a nonbank subsidiary of the holding company, Family Guardian's continued ownership by Citicorp after commencement of the broad insurance activities authorized by the Delaware statute is not permitted under any of the nonbanking provisions of the BHC Act.

In this regard, Petitioners argue that Citicorp may not rely on the Board's existing regulatory exemption in Regulation Y for operating subsidiaries of holding company state banks as authority to retain control of Family Guardian through Citibank Delaware. The operating subsidiary rule states that a state-chartered bank owned by a bank holding company may acquire and retain, without Board approval under the BHC Act, all (but not less than all) of the shares of a company engaged solely in activities in which the parent bank may engage, subject to the same limitations that would apply if the bank were engaging in the activity directly. 10 12 C.F.R. 225.22(d)(ii). Petitioners argue that the Delaware statute does not in practice permit state banks to conduct insurance activities directly because the Delaware statute requires that the state bank conduct general insurance activities only through a division of the bank that has been separated in all material respects from the bank itself. Thus, Petitioners argue, holding company banks may not

In the alternative, Petitioners contend that the operating subsidiary regulation itself is inconsistent with the express terms of section 4 of the BHC Act because it permits holding companies to acquire and retain nonbank companies without compliance with the prior approval, activity, and prudential limits of section 4 of the BHC Act.

On June 28, 1990, Citicorp responded to the arguments made in the petition for enforcement. Citicorp contends that Family Guardian's expanded insurance activities are permissible under the operating subsidiary rule in Regulation Y, since the Delaware statute on its face authorizes state-chartered banks to transact the business of insurance and since the requirement that insurance activities be conducted in a separate department is consistent with traditional regulatory practice.

The Board has carefully considered the submissions of Petitioners and Citicorp. As explained below, the Board concludes that the operating subsidiary rule does not authorize Citicorp to retain ownership and control of Family Guardian for purposes of the BHC Act to the extent that Family Guardian takes advantage of the Delaware statute to expand its insurance activities beyond those permissible for bank holding companies and their nonbank subsidiaries under section 4(c)(8) of the Act. Although on its face the Delaware statute authorizes state-chartered banks to provide a full range of insurance services, the Board cannot ignore the fact that this authorization is conditioned on compliance with an unprecedented and comprehensive set of regulatory restrictions, the practical effect of which is to treat the insurance division as a separate corporate entity. For example, the separation has been carried to such an extent that the routine authority of the state bank regulator over the insurance division is restricted, and the insurance division is regulated under the insurance laws as a separate corporate entity from the bank. Thus, in the Board's view, the Delaware statute does not authorize banks to engage in the insurance business directly, as is required by the operating subsidiary rule.

The Board emphasizes that its decision in this case is not based on the view that banking organizations should be prohibited from expanding their powers in order to adapt to the changes in technology and competition in financial markets. The Board has repeatedly called for a comprehensive Congressional review and reform of the laws regulating the activities of banking organizations in the United States in order to establish a structure that would allow for the exercise of broader powers consistent with basic principles of safety and soundness and avoidance of con-

take advantage of the operating subsidiary rule to establish a subsidiary to conduct these activities.

In the alternative, Petitioners contend that the op-

^{8.} House Bill No. 193, Sections 2, 7; Senate Bill No. 415, Section 1; Letter, dated June 1, 1990, from Keith H. Ellis, Delaware State Bank Commissioner to Mr. Richard T. Collins, Vice President, Citicorp.

^{9.} House Bill No. 193, Sections 4–38.

^{10.} In addition, under the rule, the activities may be conducted only at locations at which the bank could conduct the activity.

flicts of interest, undue concentration of resources, and unfair competition. For example, the Board has consistently supported insurance agency authority for banking organizations.¹¹

The Board has, however, expressed concern with state initiatives that are designed to attract jobs and revenues to the state by allowing out-of-state banking organizations the ability to avoid federal banking policies by acquiring banks in the state that have the authority to export nonbanking activities not available to the organizations under federal law to the rest of the nation, but not to engage in these activities in the authorizing state itself. The Board has noted that this type of initiative could promote potentially destructive competition among the states with adverse consequences for the national interest in safeguarding the safety and soundness of the nation's financial system and the federal deposit insurance funds. 12

The Board believes that this case provides further demonstration of the urgent need for Congress to take up the important questions of banking reform and structure. In the Board's view, Congress is clearly the appropriate forum in which to resolve major issues of national banking policy, including the resolution of the issues of safety and soundness and competitive equity associated with state initiatives in the area of bank powers expansion. Initiatives such as that in Delaware, however, necessitate a decision by the Board on aspects of these questions that are within the area of the Board's responsibilities under the BHC Act.

Discussion

As noted, the issue raised by the petition for enforcement is whether Citicorp is authorized under the BHC Act to retain the shares and control of Family Guardian after it begins conducting the broad insurance agency and underwriting business authorized by the Delaware statute. Under the terms of the BHC Act, a bank holding company may not acquire or retain, directly or indirectly, the shares or control of any company (other than a bank) unless the acquisition is authorized by one of the exceptions to this general prohibition specified in the Act.¹³

Citicorp here relies on the state bank operating subsidiary rule in Regulation Y (section 225.22(d)(ii)), which, as noted, provides a regulatory exception to the general nonbanking prohibitions of the BHC Act to allow state banks that are owned by bank holding companies to establish, without prior Board approval under the BHC Act, wholly-owned subsidiaries that engage only in activities that the bank could conduct directly. The Board adopted this rule in 1971 to allow holding company banks to establish operating subsidiaries to engage in activities the bank could conduct directly. At the time that it adopted this provision, the Board recognized that the exemption could become the focus for evasion of the BHC Act. The Board noted, however, "the absence of evidence that acquisitions by holding company banks are resulting in evasions of the BHC Act," but stated that it would review the merits of the decision to adopt this regulatory exemption in light of its experience in administering the BHC Act.14

Noting several recent developments, including the enactment of the insurance prohibitions in section 4(c)(8) of the BHC Act and enactment of a number of state statutes that broadly authorize state banks and their subsidiaries to engage in various nontraditional activities, the Board has requested comment on rescinding the operating subsidiary rule as inconsistent with the nonbanking provisions of the BHC Act. 15 The Board held a public hearing on this proposal in 1989, and currently has this rulemaking proceeding under review. The Board believes that it is neither necessary nor appropriate to decide that rulemaking in the context of this petition for enforcement, because the Board finds that the current operating subsidiary rule does not provide Citicorp with authority to retain Family Guardian after it commences insurance activities beyond those permissible under section 4(c)(8)(A)of the BHC Act.

The Board's operating subsidiary rule permits activities for a subsidiary of a state bank "subject to the same limitations as if the parent bank were engaging in

^{11.} E.g., Statement by Governor H. Robert Heller before a Sub-committee of the Committee on Energy and Commerce, U.S. House of Representatives, Sept. 9, 1988. 74 Federal Reserve Bulletin 743 (1988).

^{12.} See, e.g., Statement by Chairman Paul A. Volcker before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, Jan. 21, 1987. 73 Federal Reserve Bulletin 199, 202 (1987).

Section 4 of the BHC Act provides that, except as set forth in the Act, bank holding companies may not

⁽¹⁾ acquire or retain direct or indirect control of voting shares of "any company which is not a bank," or

⁽²⁾ engage directly in activities other than banking or managing or controlling banks and other subsidiaries authorized under the Act and those activities permitted under the closely related to banking standards of section 4(c)(8) of the Act. 12 U.S.C. § 1843(a). Indirect control for purposes of this prohibition is defined to include shares held by any subsidiary. Id., § 1841(g)(1). By their terms, the nonbanking prohibitions in section 4 do not limit activities conducted directly within holding company subsidiaries that are banks. Merchants National Corp., 75 Federal Reserve Bulletin 388 (1989), aff d, 890 F.2d 1275 (2d Cir. 1989), petition for cert. filed, U.S. Supreme Court (April 18, 1990) (No. 89–1620). See 53 Federal Register 48,915, 48,921–24 (Dec. 5, 1988) for a more detailed legal analysis of the nonbanking provisions of the Act, which is incorporated herein by reference.

^{14. 36} Federal Register 9292 (May 22, 1971).

^{15. 53} Federal Register 48,915 (Dec. 5, 1988).

the activity directly." Although one provision of the Delaware statute does state that a bank chartered by Delaware shall have the power to transact the business of insurance in accordance with the state Insurance Code,16 the statute further mandates that any activity so authorized must be conducted through a separate department or division.¹⁷ In addition, the statute also establishes a comprehensive set of financial, operational, and regulatory limitations that separate virtually every aspect of the insurance division's business from the bank. While no one of these restrictions in itself is necessarily determinative, the cumulative effect of all of these restrictions in the Delaware statute is, in the Board's judgment, to compel the insurance division to function in practice and for all intents and purposes as a distinct corporate entity separate from the bank. In light of this pervasive corporate-like separation, the Delaware statute cannot reasonably be viewed as authorizing a state-chartered bank itself to conduct insurance activities directly, as required by the terms of the operating subsidiary rule in Regulaion Y. Thus, because Family Guardian's parent bank, Citibank Delaware, may not engage in the general insurance business directly within the meaning of the operating subsidiary rule, Citicorp may not rely on that rule as authority for Family Guardian to conduct such activities under the BHC Act.

With regard to structural restrictions, the Delaware statute requires that the insurance division must maintain financial records separate and distinct from other records of the bank.¹⁸ In addition, the bank is prevented from allocating more than 25 percent of its current total capital to the insurance division.¹⁹ Such limits on capital attributed to specific functions typically do not apply to activities conducted within a single entity, but rather to investments in a subsidiary by a parent company.²⁰ Indeed, this limit on allocation of capital to the insurance business is contained in the provision limiting investments by Delaware banks in securities of other companies.²¹

The Delaware statute also mandates pervasive financial and operational firewalls that insulate the insurance division from the bank. First, the minimum capital that the bank is required to maintain "in its banking or trust company business" under the banking laws may not be used by the insurance division to meet its separate capital requirements under the Insurance Code.²² Second, under the state statute, the bank is not financially responsible for the insurance division. The statute expressly provides that the assets of the bank are applicable to the payment of the liabilities, obligations, and expenses of the bank only, and not to the liabilities, obligations, and expenses of the insurance department. The liabilities and expenses of the bank may be paid only out of the assets of the bank and not out of the assets of the insurance division.²³ The statute also makes explicit the converse of this requirement: the assets of the insurance division may only be used to pay the liabilities and expenses of that division, which must be paid solely out of the assets of the division.²⁴

Third, under the Delaware statute, the bank may transact business with the insurance division only on an arm's length basis—on the same terms and under circumstances substantially the same as for a comparable transaction with a third party.²⁵ Ordinarily, there is no need for such a requirement for activities that are being conducted within the same entity. Instead, as in section 23B of the Federal Reserve Act,²⁶ the arm's length requirement has been imposed to regulate transactions between a bank and separate affiliates.

Fourth, the Delaware statute makes clear that the insurance division is to be treated as a "separate corporation"—thus an entity distinct from the bank itself—for regulatory purposes, specifically, for purposes of bank lending limits. Fifth, the statute imposes the same kind of limits on the distribution of earnings from the insurance activities it authorizes as are applicable to dividends paid to stockholders by a separate insurance company. Thus, for this purpose, the bank is treated as a shareholder of the insurance division rather than part of the same entity. Finally, the Delaware statute restricts the use of certain customer information obtained by the bank in connection with a request for an extension of credit. ²⁹

With respect to regulation of the insurance business, under the Delaware statute, the insurance division is

^{16.} House Bill No. 193, Section 2.

^{17.} Id., Section 4.

^{18.} Id.

^{19.} Id., Section 10.

^{20.} See, e.g., 12 C.F.R. 211.5(b), (c)(limitations on investments abroad by banking organizations).

^{21.} Del. Code Ann. tit. 5, § 910.

^{22.} House Bill No. 193, Section 3. The Insurance Code is contained in Title 18 of the Delaware Code Annotated.

^{23.} Id., Section 8. The fact that any insurance policies issued are not direct liabilities of the bank and that only the assets of the insurance division are applicable to the payment of such policies or claims under the policies must be disclosed to all insurance customers. Id., Section 13.

^{24.} Id., Section 22. Although the Delaware statute has no explicit requirement that the insurance division have separate employees from the bank, the fact that the expenses associated with the division's employees may be paid only out of the assets of the division would appear to segregate these employees from those of the bank.

^{25.} Id., Section 4.

^{26. 12} U.S.C. § 371c-1.

^{27.} House Bill No. 193, Section 9; Synopsis of House Bill No. 193, Section 8.

^{28.} Id., Section 33; Insurance Code, Section 4922(a).

^{29.} House Bill No. 193, Section 4.

treated almost exclusively as a company that is not a bank. Not only must the insurance division conduct the insurance business in accordance with the state Insurance Code, 30 but the statute expressly states that, for purposes of the Insurance Code, the insurance division (but not the bank) is deemed to be "a separately incorporated subsidiary" of the bank "with separate capital accounts, assets and liabilities."31 Thus, the bank itself is not made subject to the state regulation applicable to insurance companies, but the insurance division is so regulated. Because of this treatment, the insurance division is generally subject to the substantive regulatory provisions of the Insurance Code and to the supervision of the state Insurance Commissioner, including that commissioner's power to examine the operations of the insurance business.³² More importantly, however, the Delaware statute severely limits the routine supervisory and examination authority of the Bank Commissioner over the insurance division. Specifically, the Bank Commissioner has jurisdiction over the division only when he determines that the insurance activity "is likely to have a materially adverse effect on the safety and soundness of the bank."33

Because it is treated as a separately incorporated subsidiary of the bank for purposes of the Insurance Code, the insurance division is subject to the minimum capital requirements of that Code.34 As pointed out above, the capital of the bank may not be used to satisfy these requirements. In addition, the Delaware statute expressly provides that the assets and liabilities of the bank are not considered in determining the financial condition of the insurance division;³⁵ and the statute provides that the Insurance Commissioner, not the Bank Commissioner, has the authority to take possession of the business of the insurance division in order to conserve or to liquidate its business.³⁶ This action can apparently be taken by the insurance supervisor without causing the closing of the bank. Finally, the insurance division is taxed as if it were an independent insurance company; the earnings from the insurance business are expressly exempted from the franchise tax the state imposes on the net income of banks.37

30. Id.

The Board recognizes, as Citicorp points out, that under the Delaware statute the insurance division operates under the charter of the bank and is not technically a separate corporation with its own shareholders and board of directors. However, the Board does not believe that formal characteristics alone should be determinative in assessing the scope of the operating subsidiary exception in section 225.22(d)(ii). Indeed, the terms of the regulation itself require that the scope of the activities it permits for subsidiaries of holding company state banks must be determined in light of the practical restrictions on the powers of the parent bank, since the rule prescribes that in conducting a specific function the subsidiary must follow the same limitations as if the bank were engaged in the activity directly. Here, as is evident from the face of the Delaware statute, the limitations imposed on the conduct of the general insurance business so comprehensively and pervasively insulate the insurance division from the bank that it would be unreasonable, in the Board's judgment, to view the bank as directly authorized to offer the expanded services, as is required by the terms of the rule.

Moreover, this conclusion is also consistent with the basic objective that motivated the Board's original adoption of the operating subsidiary rule. As the terms of the rule demonstrate, the rule was meant to allow state banks in holding company systems the operational flexibility of establishing operating subsidiaries to conduct activities the bank performed directly. Historically, the activities of banks have been circumscribed by the chartering authorities in order to protect the safety and soundness of the institutions and to guard against harmful conflicts of interest and unfair competition. The permission granted by the operating subsidiary rule was premised on the Board's belief that this traditional concern for safeguarding the depositreceiving function would constrain the expansion of bank activities (and thus of the activities of subsidiaries of holding company state banks), so that the activities permitted by the rule would not result in evasions of the purposes of the BHC Act. 36 Federal Register 9292 (May 21, 1971).

Here, it is evident from the terms and structure of the Delaware statute that the state, in apparent recognition of the enhanced potential for risks associated with certain aspects of the insurance underwriting business, has not authorized that business for its depository institutions directly, but through a structure that seeks the risk minimization advantages available through the corporate separation of the banking

^{31.} Id., Section 17.

^{32.} Insurance Code, Sections 301-34.

^{33.} House Bill No. 193, Section 5.

^{34.} Id., Sections 17, 19; see Insurance Code, Section 511(a).

^{35.} House Bill No. 193, Sections 21, 24.

^{36.} Id., Section 38.

^{37.} Id., Sections 14, 16; Del. Code Ann. tit. 5, § 1101(a). The Delaware statute does contain a handful of exceptions for the insurance division from the substantive provisions of the Insurance Code. E.g., House Bill No. 193, Sections 25, 30, 32, 35. However, none of

the regulatory provisions relates to an essential element of the structure, operations, or regulation of the division.

and insurance businesses. The entire practical effect of the Delaware statute is to sanction expanded insurance activities only for an entity that in substance is a separate corporation and that is not a bank. The only apparent reason the statute nominally authorizes the bank itself, through a separate division, to conduct the insurance business, rather than authorizing the activity through a separate corporate subsidiary of the bank, is to attempt to bring the state law within the scope of the Board's operating subsidiary rule for the benefit of insurance subsidiaries of state banks that are owned by holding companies. If the statute had required the activity to be conducted only through a separate subsidiary corporation of the bank in order to minimize the risk to the bank and its depositors and the potential for conflicts of interest, unfair competition, and other adverse effects, bank holding companies could not have availed themselves of the statute because of the operating subsidiary rule. Under that rule, a holding company bank may control a nonbank subsidiary only if it engages in activities the parent bank could conduct directly. Accordingly, viewing the state bank operating subsidiary rule as applicable in circumstances such as presented under the Delaware statute frustrates the purposes of the rule and allows a serious evasion of the provisions of the BHC Act.

Given the extraordinary extent to which the Delaware statute isolates the insurance business from the traditional, deposit-receiving operations of state-chartered banks, the Board believes that its treatment of that statute for purposes of the operating subsidiary rule is consistent with its past practice. Although the Board, as Citicorp notes, has in the past not objected to insurance activities conducted in a subsidiary of a holding company bank under state law where the parent bank has engaged in the same activities through a separate department, 38 the relevant state law in those cases did not require that the insurance functions be carried out in a separate department or mandate the insulation of insurance activities from the rest of the bank to the substantial extent directed by the Delaware statute.39

Nor is the Board's decision here inconsistent with its prior treatment of statutes in three states that allow savings banks to engage in life insurance activities, since these statutes have only some, but not all, of the operational, structural, and regulatory firewalls embedded in the Delaware statute. Indeed, the Board never decided that subsidiaries of saving banks engaged in the life insurance business under these stat-

utes were permitted to engage in the same activities under section 225.22(d)(ii), but instead elected to defer such a determination.⁴⁰ Before the Board resolved the issue, however, Congress, in an amendment to the BHC Act in 1987, expressly authorized savings bank life insurance activities if, among other things, the activities are conducted directly in the bank.⁴¹ Accordingly, the Board has never considered whether an operations subsidiary of such a bank could engage in the activities under the operating subsidiary rule. In any event, although these state laws do require that insurance functions be separated to some degree from the operations of the bank, the insulation prescribed is not as comprehensive and complete as that directed by the Delaware statute.⁴²

Banks also conduct a number of traditional functions in separate departments, like dealing in municipal securities and offering trust services. But in each case, the separation of these operations from the rest of the bank required by the applicable regulatory framework does not even approximate the thorough insulation mandated by the Delaware statute.⁴³

In sum, the Board finds that Citicorp may not avail itself of the provisions of section 225.22(d)(ii) to retain control of Family Guardian for purposes of the BHC Act to the extent Family Guardian engages in insurance activities not permitted to bank holding companies and their nonbank subsidiaries under section 4(c)(8) of the BHC Act. Accordingly, Family Guardian may not engage in insurance activities authorized under the Delaware statute other than those that are permissible under section 4(c)(8) of the BHC Act and

^{40.} First Essex Bancorp, Inc., 73 Federal Reserve Bulletin 354, 355 (1987), Neworld Bancorp, Inc., 73 Federal Reserve Bulletin 357, 358-59 (1987).

^{41. 12} U.S.C. § 1842(f)(3).

^{42.} For example, under the Massachusetts statute authorizing savings bank life insurance (Mass. Gen. L. Ann. ch. 178), the insurance department must be managed under the general laws relating to savings banks and is subject to the supervision of both the insurance and bank commissioners (id., §§ 6, 26-28), while under the Delaware statute, in contrast, the insurance division operates principally under the Insurance Code and the power of the Bank Commissioner over the division is restricted. In addition, the Massachusetts law lacks many of the key firewall provisions prescribed by the Delaware statute, such as the limitations on the use of the bank's capital for insurance purposes and the requirement of arm's length transactions between the bank and the insurance division.

^{43.} For example, like the insurance division required by the Delaware statute, the municipal securities department of a bank under the securities laws must keep separate records, is regulated separately from the bank, and is subject to limits on transfer of information from the bank. See 15 U.S.C. §§ 78c(a)(30), 78o-4; 12 C.F.R. 208.8(j). However, the municipal securities department is not subject to the remaining host of restrictions that the Delaware statute imposes on the insurance division, like the bank's lack of liability for the obligations of the division, the restrictions on the use of the bank's capital for the insurance business, and the restriction of the bank regulator's routine supervisory authority over the insurance division.

^{38.} E.g., Merchants National Corp., supra.

^{39.} See, e.g., Ind. Code Ann. § 28-1-11-2 (Burns 1986).

for which it has secured the necessary approval under that section.⁴⁴

Therefore, pursuant to the provisions of sections 4(a) and 5(b) of the BHC Act (12 U.S.C. §§ 1843(a), 1844(b)), Citicorp should immediately cause Family Guardian to cease providing any further insurance as principal, agent, or broker, except as authorized and approved by the Board under section 4(c)(8)(A) of the Act.

By order of the Board of Governors, September 5, 1990.

Voting for this action: Chairman Greenspan and Governors Seger, Angell, Kelley, and LaWare. Abstaining from this action: Governor Mullins.

WILLIAM W. WILES Secretary of the Board

Concurring Statement of Governor Seger

I concur with the result reached by the majority that the proposal by Citibank Delaware to conduct broad insurance activities through Family Guardian Life Insurance Company does not meet the requirements of the Board's Regulation Y dealing with operating subsidiaries of holding company banks. I reach this conclusion for reasons different from those stated by the majority, however.

As a general matter, I do not object to proposals by the states to authorize their state banks to engage directly or through subsidiaries in activities at any location provided that the activities may be conducted within the bank's home state without restriction as well. I believe that states should be permitted to delineate the types of activities that banks may conduct within their borders. One of the virtues of the dual banking system, in my judgment, is that it allows the states to serve as laboratories for the development and expansion of banking services and activities within their boundaries.

My disagreement with the Citicorp arrangement stems from the fact that the state here has severely limited banks owned by out-of-state holding companies from conducting the insurance business within the state. This means that out-of-state banking organizations can use the state bank franchise to operate an insurance business throughout the rest of the country, but may not effectively offer those services within Delaware.

Not only is this kind of state authorization inconsistent with the principles underlying the dual banking system, as I have previously stated in connection with a somewhat similar statute in South Dakota, this kind of expansion of state powers, shows, in my judgment, that the state does not treat the expanded powers as true banking activities for Delaware banks owned by out-of-state banking organizations. In these circumstances, the Board's operating subsidiary rule should not be interpreted to permit such activities.

I note that the majority has not reached the question of the validity of the Board's operating subsidiary rule in deciding this case. I continue to believe that the Board's regulation is appropriate and valid, and believe that this opinion is consistent with my view of the Delaware statute here.

September 5, 1990

Concurring Statement of Governor Angell

1 concur with the Board's conclusion in this matter that the Bank Holding Company Act does not permit Citicorp to retain the shares of Family Guardian Life Insurance Company to the extent Family Guardian takes advantage of the recently-enacted Delaware statute to engage in insurance underwriting or agency activities that are not permissible for bank holding companies under section 4(c)(8) of the Act. However, I reach this conclusion on different grounds than the Board. In my view, the expanded insurance activities of Family Guardian are inconsistent with the nonbanking prohibitions in the Act regardless of whether the exception contained in the operating subsidiary rule in Regulation Y applies in this case.

My view is based on the plain and unambiguous language of section 4 of the Act. This section by its terms prohibits a bank holding company from acquiring or retaining control, directly or indirectly, of any company other than a bank unless that company's activities are authorized under one of the nonbanking exceptions in the Act. Family Guardian, a multimillion dollar insurance underwriting company, is clearly not a bank as defined in the Act, and, under the Act, there is simply no question that Family Guardian is controlled by Citicorp. As the terms of the Act make clear, a company controlled by a bank that is in turn a subsidiary of a bank holding company is indirectly controlled by, and treated as an indirect

^{44.} In any event, even if Citibank Delaware, Family Guardian's parent bank, is viewed as being authorized by the Delaware statute to engage in the general insurance business within the scope of the exemption in section 225.22(d)(ii), the bank cannot be viewed as authorized to engage in such a business in those states (approximately 22) where banks are effectively barred under state law, by licensing requirements or other similar restrictions, from providing insurance activities. Specifically, in a number of these states, banks are precluded from obtaining the license necessary to provide insurance services in that state. Thus it is clear that in those states Family Guardian, under the terms of the regulation, may not provide general insurance services.

subsidiary of, the parent holding company. As a nonbank subsidiary of a bank holding company, Family Guardian is required to limit its activities to those permitted for bank holding companies and their nonbank subsidiaries under the Act. Under the 1982 amendment to section 4(c)(8) of the Act, the Board no longer has the discretion to permit a bank holding company or any of its nonbank subsidiaries to under-

write or sell insurance beyond the seven situations set forth in the statute.

For these reasons, I agree with the Board's decision that Family Guardian must cease any insurance activity other than those previously approved for Family Guardian by the Board under section 4(c)(8) of the Act.

September 5, 1990

Financial and Business Statistics

Note. The following tables may have some discontinuities in historical data for some series beginning with the December 1989 issue: 1.12, 1.33, 1.44, 1.52, 1.57–1.60, 2.10, 2.12, 2.13, 3.10,

3.11, 3.15–3.20, 3.22–3.25, 3.27, 3.28, and 4.30. For a more detailed explanation of the changes, see the announcement on page 16 of the January 1990 BULLETIN.

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Annual rates of change, seasonally adjusted in percent1

Monetary and credit aggregates		189	19	90			1990		
		Q4	Q1	Q2	Apr.	May	June	July	Aug.
Reserves of depository institutions ² 1 Total	.6	5,1	2.4	-1.4	4	-9.8	-1.0	-8.2	8.7
	.5	5.0	2.5	9	1.2	~11.3	2.8	-10.1	8.6
	8.6	7.2	-3.9	-1.0	9.8	~4.1	8.3	-5.8	5.3
	3.2	4.0	8.5	7.0	7.1	3.5	7.6	6.4	13.2
Concepts of money, liquid assets, and debt ⁴ 5 M1. 6 M2. 7 M3. 8 L. 9 Debt	1.8 7.0 4.0 4.5 7.1	5.1 7.1 2.0 -3.1 ^r 7.3 ^r	4.8 6.4 3.0 ^r 3.2 ^r 6.1 ^r	3.5 2.9 .8 1.4 ^r 6.7 ^r	3.7 2.3 1.1 ^r 2.9 ^r 6.6 ^r	$\begin{array}{c c} & -2.8 \\ -2.2^r \\ -2.4 \\ -6.9^r \\ 5.1^r \end{array}$	6.0 2.6' .9' 5.1' 6.7'	3 1.7 .9 2.5 7.2	10.7 6.7 4.7 n.a. n.a.
Nontransaction components 10 In M2 ⁵	8.7	7.7	6,9	2.6 ^r	1.8'	-2.0°	1.5'	2.4	5.4
	-6.4°	- 16.6 "	10.2°	-7.5	3.9'	-2.9	6.0'	2.4	3.8
Time and savings deposits Commercial banks 12 Savings 13 MMDAs. 14 Small-denomination time ⁷ 15 Large-denomination time ^{8,9} Thrift institutions 16 Savings 17 MMDAs. 18 Small-denomination time ⁷ 19 Large-denomination time ⁸	.4	7.2	9,5	5.1	2.5	-1.9	9.3	3.7	1.8
	5.2	12.3	9,1	10.6	10.7	9.9	9.5	8.8	12.0
	11.9	11.3	7,8	12.0	9.4	20.8	18.5	18.9	7.0
	2.9	2.7	-1,1 ^r	-2.8'	-5.1 ^r	5.5	2.4	5.1	-9.9
	5.2	.2	1,3	.5	4.3	-2.7	3.8	5	-1.1
	6.2	4.7	5,7	2.6	7.1	-16.7	-15.1	12.6	-5.5
	8.7	.2.5	-3,3	-8.0	5.7 ^r	-16.0	-20.9	-15.7	-3.9
	10.7	-28.6	-24,7	-30.5	-35.0	-40.3	-28.7	-36.5	-29.4
Money market mutual funds 20 General purpose and broker-dealer	37.6	29.1	19.8	7	4	19.9	5.6	11.9	32.1
	36.6	3.3	10.2	11.7	15.9	5.6	.0	17.9	56.2
Debt components ⁴ 22 Federal	6.0 ^r	10.2 ^r	6.8 ^r	9.5 ^r	7.4 ^r	7.2 ^r	14.3 ^r	13.2	n.a.
	7.4 ^r	6.4 ^r	5.9 ^r	5.9 ^r	6.3 ^r	4.5 ^r	4.4 ^r	5.4	n.a.

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

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

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 forcign banks and official institutions, esc cash items in the process of collection and Federal Reserve Boat; 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, credit union share draft accounts (MoDAs), 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 funds. Also excludes all balances held by U.S. commercial banks, money market funds. Also excludes

banking offices in the United Kingdom and Canada, and balances in both taxable banking offices in the Ornec Virgionia and Candada, and offices in John Lakaofe 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.
1.: 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. Data are derived from the Federal Reserve Board's flow of funds accounts. Data on debt of domestic nonfinancial sectors are monthly averages, derived by averaging adjacent month-end levels. Growth rates for debt reflect adjustments for discontinuities over time in the levels of debt presented in other tables.

of debt presented in other tables.

5. Sum of overnight RPs and Eurodollars, money market fund balances (general purpose and broker-dealer), MMDAs, and savings and small time

6. Sum of large time deposits, term RPs, term Eurodollars of U.S. residents, and money market fund balances (institution-only), less a consolidation adjustment that represents the estimated amount of overnight RPs and Eurodollars held by institution-only money market mutual funds.

by institution-only money market mutual funds.

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

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

9. Large-denomination time deposits at commercial banks less those held by money market mutual funds, depository institutions, and foreign banks and official institutions.

1.11 RESERVES OF DEPOSITORY INSTITUTIONS AND RESERVE BANK CREDIT

Millions of dollars

		ithly average daily figures			Weeki	y averages o	of daily figur	es for week	ending	
Factors		1990					1990			
	June	July	Aug.	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29
Supplying Reserve Funds										
1 Reserve Bank credit	278,190	279,684	280,961	279,344	278,784	277,506	281,579	280,153	281,890	280,338
U.S. government securities ^{1, 2} Bought outright-system account Held under repurchase agreements Federal agency obligations ²	228,752 930	230,592 1,055	231,366 2,139	230,347 4,416	230,736 2,706	231,172	232,027 1,509	232,406 423	230,140 4,416	230,240 2,706
4 Bought outright 5 Held under repurchase agreements	6,446 294 0	6,437 387 0	6,408 551 0	6,446 240 0	6,433 237 0	6,414 0 0	6,414 426 0	6,414 238 0	6,414 714 0	6,398 894 0
7 Adjustment credit 8 Seasonal credit 9 Extended credit 10 Float 11 Other Federal Reserve assets 12 Gold stock 13 Special drawing rights certificate account 14 Treasury currency outstanding	237 313 339 486 40,394 11,065 8,518 20,016	96 275 389 674 39,780 11,065 8,518 20,093	318 433 134 566 39,045 11,064 8,518 20,145	35 249 380 426 40,511 11,065 8,518 20,091	242 347 411 819 38,829 11,065 8,518 20,105	89 434 390 138 38,869 11,064 8,518 20,118	32 423 448 1,056 39,245 11,064 8,518 20,128	160 425 70 407 39,610 11,064 8,518 20,139	1,148 438 6 120 38,495 11,064 8,518 20,150	55 445 10 846 38,745 11,064 8,518 20,160
Absorbing Reserve Funds										
15 Currency in circulation 16 Treasury cash holdings Deposits, other than reserve balances, with Federal Reserve Banks	265,776 582	268,968 568	270,536 544	269,522 573	268,479 559	268,180 555	269,566 550	270,622 546	270,835 545	270,754 536
17 Treasury	5,078 250	5,408 243	5,415 265	5,108 221	5,082 251	5,328 217	5,763 236	5,288 242	5,501 355	5,219 239
19 Service-related balances and adjustments	2,010 289	2,022 243	1,873 236	2,016 229	2,138 238	2,000 308	2,017 188	1,968 212	2,132 266	1,955 278
21 Other Federal Reserve liabilities and capital	9,788	9,176	9,219	9,136	9,136	9,207	9,624	9,044	8,990	9,027
22 Reserve balances with Federal Reserve Banks ³	34,016	32,731	32,600	32,213	32,589	31,410	33,345	31,952	32,998	32,074
,	End	of-month fig	gures			We	dnesday figi	ıres		
•		1990		1			1990			
	June	July	Aug.	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29
Supplying Reserve Funds										
23 Reserve Bank credit	279,372	279,364	284,445	277,202	280,154	278,239	284,776	279,970	284,227	281,237
U.S. government securities ^{1, 2} Bought outright-system account 5 Held under repurchase agreements Federal agency obligations ²	231,383	232,313	233,498 2,936	229,255	229,431 1,833	232,207	233,686 2,205	230,477 2,960	230,092 693	230,314 3,206
26 Bought outright 27 Held under repurchase agreements	6,446 0 0	6,414 0 0	6,377 1,186 0	6,446 0 0	6,414 539 0	6,414 0 0	6,414 936 0	6,414 1,667 0	6,414 186 0	6,377 823 0
29	49 374 163 575 40,382 11,065 8,518 20,047	97 407 437 643 39,053 11,064 8,518 20,118	50 412 3 -97 40,081 11,065 8,518 20,171	22 242 387 539 40,312 11,065 8,518 20,091	1,515 389 425 858 38,750 11,064 8,518 20,105	23 437 400 -172 38,931 11,064 8,518 20,118	116 422 469 1,145 39,384 11,064 8,518 20,128	819 426 4 -857 38,060 11,064 8,518 20,139	7,257 447 7 747 38,384 11,064 8,518 20,150	71 448 13 1,199 38,787 11,065 8,518 20,160
Absorbing Reserve Funds										
37 Currency in circulation 38 Treasury cash holdings Deposits, other than reserve balances, with Federal Reserve Banks	266,979 580	268,411 549	272,690 534	269,248 559	268,287 557	268,755 549	270,235 546	271,035 546	270,693 537	271,684 530
39 Treasury	5,470 368	6,369 279	4,453 337	5,156 190	5,912 228	5,940 206	5,341 215	5,659 246	5,438 217	6,130 246
adjustments	1,847 255	2,000 247	1,953 219	2,016 193	2,138 474	2,000 239	2,017 183	1,968 276	2,132 233	1,955 276
43 Other Federal Reserve liabilities and capital	9,012	9,723	10,504	8,823	8,916	9,334	8,903	8,710	8,657	8,759
Reserve Banks ³	34,490	31,484	33,509	30,690	33,327	30,916	37,046	31,251	36,052	31,400

^{1.} Includes securities loaned—fully guaranteed by U.S. government securities pledged with Federal Reserve Banks—and excludes any securities sold and scheduled to be bought back under matched sale-purchase transactions.

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

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

1.12 RESERVES AND BORROWINGS Depository Institutions

Millions of dollars

					Monthly	averages ⁹				
Reserve classification	1987	1988	1989				1990			
	Dec.	Dec.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.
1 Reserve balances with Reserve Banks ² . 2 Total vault cash ³ . 3 Applied vault cash ⁴ . 4 Surplus vault cash ⁵ . 5 Total reserves ⁶ . 6 Required reserves 7 Excess reserve balances at Reserve Banks ⁷ . 8 Total borrowings at Reserve Banks 9 Seasonal borrowings at Reserve Banks 10 Extended credit at Reserve Banks ⁸ .	37,691 26,675 24,449 2,226 62,141 61,094 1,046 777 93 483	37,837 28,204 25,909 2,295 63,746 62,699 1,047 1,716 130 1,244	35,436 29,812 27,374 2,439 62,810 61,888 922 265 84 20	30,929 32,489 29,693 2,795 60,623 59,634 989 1,448 51 535	33,407 29,581 27,251 2,330 60,658 59,797 861 2,124 78 1,950	35,409 29,281 27,103 2,178 62,512 61,615 897 1,628 122 1,403 y figures fo	32,771 29,812 27,461 2,351 60,232 59,269 962 1,335 244 875	33,878 29,632 27,318 2,314 61,197 60,423 774 881 311 346	32,946' 30,457 27,996 2,460' 60,943' 60,081 862' 757 389 280	32,452 30,843 28,280 2,563 60,732 59,860 872 927 430 127
					19	90				
	May 2	May 16	May 30	June 13	June 27	July 11	July 25	Aug. 8'	Aug. 22	Sept. 5
11 Reserve balances with Reserve Banks ²	34,887 29,589 27,259 2,331 62,145 61,040 1,105 1,155 158 899	33,855 28,863 26,730 2,133 60,584 59,657 927 976 221 673	31,269 30,852 28,268 2,584 59,537 58,526 1,011 1,723 278 1,098	34,385 28,986 26,803 2,184 61,188 60,709 479 1,291 282 559	33,390 30,097 27,676 2,421 61,066 60,046 1,020 566 329 183	33,958 30,264 27,885 2,380 61,842 60,944 898 581 359 182	32,390 30,549 28,094 2,455 60,484 59,609 875 832 396 298	32,389 30,597 27,974 2,623 60,363 59,599 764 908 429 419	32,463 31,379 28,815 2,565 61,277 60,367 910 1,124 432 38	32,491 30,229 27,721 2,507 60,213 59,304 909 638 430 8

satisfy current reserve requirements.

5. Total vault cash (line 2) less applied vault cash (line 3).

6. Reserve balances with Federal Reserve Banks (line 1) plus applied vault cash (line 3).

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

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

9. Data are prorated monthly averages of biweekly averages.

^{1.} These data also appear in the Board's H.3 (502) release. For address, see inside front cover.

2. Excludes required clearing balances and adjustments to compensate for float and includes other off-balance sheet "as-of" adjustments.

3. Total "lagged" vault cash held by those depository institutions currently subject to reserve requirements. Dates refer to the maintenance periods in which the vault cash can be used to satisfy reserve requirements. Under contemporaneous reserve requirements, maintenance periods end 30 days after the lagged computation periods in which the balances are held.

4. All vault cash held during the lagged computation period by "bound" institutions (i.e., those whose required reserves exceed their vault cash) plus the amount of vault cash applied during the maintenance period by "nonbound" institutions (i.e., those whose vault cash exceeds their required reserves) to

Domestic Financial Statistics November 1990

1.13 SELECTED BORROWINGS IN IMMEDIATELY AVAILABLE FUNDS Large Banks¹

Averages of daily figures, in millions of dollars

	I			1990 we	ek ending N	donday ²			
Maturity and source	June 25	July 2	July 9	July 16	July 23	July 30	Aug. 6	Aug. 13	Aug. 20
Federal funds purchased, repurchase agreements, and other selected borrowing in immediately available funds From commercial banks in the United States 1 For one day or under continuing contract	82,754	82.140	90.826	88,646	80,664	79,671	86,516	85,883	89,773
From other day of under continuing contract From other depository institutions, foreign banks and foreign official institutions, and U.S. government agencies	20,214	19,294	19,261	19,161	21,137	19,311	19,270	19,567	19,298
For one day or under continuing contract	39,759 17,562	37,304 17,631	41,114 18,030	42,193 17,858	40,122 19,176	37,516 18,779	39,342 17,596	41,080 16,873	39,250 16,866
Repurchase agreements on U.S. government and federal agency securities in immediately available funds Brokers and nonbank dealers in securities									
For all other maturities	13,068 20,437	11,064 19,408	11,700 19,155	13,311 19,735	13,067 21,516	13,481 21,734	17,406 24,262	17,771 25,272	18,476 24,233
7 For one day or under continuing contract	33,987 14,211	32,210 13,902	33,925 13,691	33,347 13,572	33,760 13,854	32,907 14,737	33,487 14,266	30,243 14,512	32,148 13,522
MEMO: Federal funds loans and resale agreements in immediately available funds in maturities of one day or under continuing contract 9 To commercial banks in the United States	49,258 14,251	51,135 13,132	47,908 12,916	45,724 12,696	46,841 13,278	46,791 12,576	52,042 16,229	61,601 16,660	54,448 17,025

Division of Applications Development and Statistical Services, Financial Statement Reports Section, (202) 452-3349.

3. Brokers and nonbank dealers in securities; other depository institutions; foreign banks and official institutions; and United States government agencies.

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

These data also appear in the Board's H.5 (507) release. For address, see inside front cover.

2. Beginning with the August Bulletin data appearing are the most current available. To obtain data from May 1, 1989, through April 16, 1990, contact the

Cumana	d	nrevious	100,010

	Adjustment credit and		lit	Extended credit ²										
Federal Reserve Bank Seasonal credit		First	30 days of bor	rowing	After 30 days of borrowing ^{3, 4}									
	On 9/27/90	Effective date	Previous rate	On 9/27/90	Effective date	Previous rate	On 9/27/90	Effective date	Previous rate	Effective date				
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	7	2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89	6\/2 6\/2	7	2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89 2/24/89	61/2	8.55 8.55	9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90 9/20/90	8.6	9/7/90 9/7/90 9/7/90 9/7/90 9/7/90 9/7/90 9/7/90 9/7/90 9/7/90 9/7/90 9/7/90				

Range of rates for adjustment credit in recent years⁵

Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.
In effect Dec. 31, 1977. 1978—Jan. 9 20 May 11 12 July 3 10 Aug. 21 Sept. 22 Oct. 16 20 Nov. 1 3 1979—July 20 Aug. 17 20 Sept. 19 21 Oct. 8 10 1980—Feb. 15 19 May 29 June 13 June 14 June 14 June 15 June 16 June 16 June 16 June 17 June 18 Jun	6 6-6½ 6½ 6½-7 7 7-7¼ 7¾ 8-8½ 8½-9½ 9½ 10-10½ 10½-11 11 11-12 12 12-13 13 12-13 12 11-12	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1980—July 28	10-11 10 11 12 12-13 13-14 14 13-14 13 12 11½-12 11½ 10-10½ 10 9½-10 9½-10 9½-9 8½-9 8½-9 8½-9	10 10 11 12 13 14 14 14 14 13 13 13 12 111/2 11 10 9/2 9/2 9/2 9/2 9/2 9/2 9/2 9/2 9/2 9/2	1984—Apr. 9 13 Nov. 21 26 Dec. 24 1985—May 20 24 1986—Mar. 7 10 Apr. 21 July 11 Aug. 21 22 1987—Sept. 4 11 1988—Aug. 9 11 1989—Feb. 24 27 In effect Sept. 27, 1990	8½-9 9 8½-9 8½-8 7½-8 7½-7 6½-7 5½-6 5½-6 6-6½-6 6½-7 7	9 81/2 81/2 8 71/2 7 7 61/2 6 6 6 6 6 6 6 6 7 7 7

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 for 1986 and 1987 but was not renewed for 1988.

2. Extended credit is available to depository institutions, when similar assistance is not reasonably available from other sources, when exceptional circumstances or practices involve only a particular institution or when an institution is experiencing difficulties adjusting to changing market conditions over a longer period of time.

or time.

3. For extended-credit loans outstanding more than 30 days, a flexible rate somewhat above rates on market sources of funds ordinarily will be charged, but in no case will the rate charged be less than the basic discount rate plus 50 basis points. The flexible rate is reestablished on the first business day of each

two-week reserve maintenance period. At the discretion of the Federal Reserve Bank, the time period for which the basic discount rate is applied may be shortened.

Bank, the time period for which the basic discount rate is applied finally be shortened.

4. In the September and October issues of the Bulletin, the effective dates for interest rates on extended credit outstanding more than 30 days were reported incorrectly. The correct dates, which are one day later than those published, are June 28, July 12, July 26, and August 9.

5. 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 than four weeks in a calendar quarter. A 3 percent surcharge was in effect from Mar. 17, 1980 through May 7, 1980. There was no surcharge unil 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 changed from a calendar quarter to a moving 13-week period. The surcharge was eliminated on Nov. 17, 1981.

1.15 RESERVE REQUIREMENTS OF DEPOSITORY INSTITUTIONS¹

Percent of deposits

Type of deposit, and deposit interval	after impleme	ation requirements entation of the Control Act
deposit interval"	Percent of deposits	Effective date
Net transaction accounts ^{3,4} \$0 million-\$40.4 million More than \$40.4 million	3 12	12/19/89 12/19/89
Nonpersonal time deposits ⁵ By original maturity Less than 1½ years 1½ years or more.	3 0	10/6/83 10/6/83
Eurocurrency liabilities All types	3	11/13/80

1. Reserve requirements in effect on Dec. 31, 1989. Required reserves must be held in the form of deposits with Federal Reserve Banks or vault cash. Nonmemneith in the form of deposits with Federal Reserve balances and cash. Normember institutions may maintain reserve balances with a Federal Reserve Bank indirectly on a pass-through basis with certain approved institutions. For previous reserve requirements, see earlier editions of the Annual Report or the Federal Reserve Bulletin. Under provisions of the Monetary Control Act, depository institutions include commercial banks, mutual savings banks, savings and loan associations, credit unions, agencies and branches of foreign banks, and Edge comportation.

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. 20, 1988, the exemption was raised from \$3.2 million to \$3.4 million. In determining the reserve requirements of depository institutions, the exemption shall apply in the following order: (1) net NOW accounts 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

other transaction accounts, the exemption applies only to such accounts that

other transaction accounts, the exemption applies only to such accounts that would be subject to a 3 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 annually by 80 percent of the percentage change in transaction accounts held by all depository institutions, determined as of June 30 each year. Effective Dec. 19, 1989 for institutions reporting quarterly and Dec. 26, 1989 for institutions reporting weekly, the amount was decreased from \$41.5 million to \$40.4 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.

1.17 FEDERAL RESERVE OPEN MARKET TRANSACTIONS¹

Millions of dollars

	1000	1000	1000				1990	··_		
Type of transaction	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May	June	July
U.S. Treasury Securities										
Outright transactions (excluding matched transactions)									}	
Treasury bills Gross purchases Gross sales Skept	18,983 6,051 239,740 9,029	8,223 587 241,876 2,200	14,284 12,818 228,710 12,730	423 1,489 15,960 1,000	108 3,384 18,113 400	543 0 19,051 0	5,796 0 17,286	3,365 0 22,894 0	1,732 0 16,279 0	287 0 16,159 0
Others within 1 year 5 Gross purchases 6 Gross sales 7 Maturity shift 8 Exchange 9 Redemptions	3,659 300 21,504 -20,388 70	2,176 0 23,854 -24,588 0	327 0 28,848 -25,783 500	0 0 1,201 -2,489 0	0 0 2,845 -5,418 0	100 0 1,876 0 0	0 0 993 -4,304 0	$\begin{cases} 0 \\ 0 \\ 4,387 \\ -2,771 \\ 0 \end{cases}$	50 0 1,314 0 0	0 0 1,321 -3,577 0
1 to 5 years 10 Gross purchases 11 Gross sales 12 Maturity shift. 13 Exchange	10,231 452 -17,975 18,938	5,485 800 -17,720 22,515	1,436 490 -25,534 23,250	0 0 -1,163 2,373	0 0 -1,713 4,743	100 0 -1,876 0	100 0 -739 4,081	$ \begin{array}{c c} 0 \\ 0 \\ -3,607 \\ 2,521 \end{array} $	0 0 -1,314 0	0 0 -1,234 3,577
5 to 10 years 14 Gross purchases 15 Gross sales. 16 Maturity shift. 17 Exchange	2,441 0 -3,529 950	1,579 175 -5,946 1,797	287 29 -2,231 1,934	0 0 -38 116	0 0 -451 450	0 0 0 0	0 0 -254 223	0 0 -530 0	0 0 0 0	0 0 87 0
Over 10 years 18	1,858 0 0 500	1,398 0 -188 275	284 0 -1,086 600	0 0 0	0 0 -681 226	0 0 0 0	0 0 0	0 0 -250 250	0 0 0 0	0 0 0 0
All maturities 22 Gross purchases 23 Gross sales 24 Redemptions	37,170 6,803 9,099	18,863 1,562 2,200	16,617 13,337 13,230	423 1,489 1,000	108 3,384 400	743 0 0	5,896 0 0	3,365 0 0	1,782 0 0	287 0 0
Matched transactions 25 Gross sales	950,923 950,935	1,168,484 1,168,142	1,323,480 1,326,542	127,729 121,411	116,220 120,637	99,104 97,128	97,970 98,643	121,596 121,218	107,896 110,042	95,144 95,787
Repurchase agreements ² 27 Gross purchases 28 Gross sales	314,621 324,666	152,613 151,497	129,518 132,688	16,185 17,777	0	8,050 6,627	6,409 7,832	3,959 3,959	11,242 11,242	13,106 11,447
29 Net change in U.S. government securities	11,234	15,872	-10,055	~9,976	741	190	5,146	2,987	3,928	2,590
FEDERAL AGENCY OBLIGATIONS										
Outright transactions 30 Gross purchases 31 Gross sales 32 Redemptions	0 0 276	0 0 587	0 0 442	0	0 0 0	0 0 0	0 0 78	0 0 0	0 0 0	0 0 33
Repurchase agreements ² 33 Gross purchases 34 Gross sales	80,353 81,350	57,259 56,471	38,835 40,411	1,741 2,266	0	1,966 1,457	2,595 3,104	2,314 2,314	3,221 3,221	4,697 4,137
35 Net change in federal agency obligations	-1,274	198	-2,018	-525	0	509	-587	0	0	527
36 Total net change in System Open Market Account	9,961	16,070	-12,073	-10,501	741	699	4,559	2,987	3,928	3,117

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.

A10 Domestic Financial Statistics □ November 1990

1.18 FEDERAL RESERVE BANKS Condition and Federal Reserve Note Statements¹ Millions of dollars

			Wednesday				End of montl	1
Account			1990				1990	
	Aug. I	Aug. 8	Aug. 15	Aug. 22	Aug. 29	June	July	Aug.
			Со	nsolidated co	ndition staten	nent		
Assets								
1 Gold certificate account 2 Special drawing rights certificate account 3 Coin	11,064 8,518 477	11,064 8,518 484	11,064 8,518 493	11,064 8,518 503	11,065 8,518 495	11,065 8,518 470	11,064 8,518 476	11,065 8,518 491
Loans 4 To depository institutions. 5 Other. 6 Acceptances held under repurchase agreements. Federal agency obligations 7 Bought outright. Held under repurchase agreements. U.S. Treasury securities Bought outright	861 0 0 0 6,414 0	1,006 0 0 0 6,414 936	1,250 0 0 0 6,414 1,666	7,711 0 0 0 6,414 186	531 0 0 0 6,377 823	586 0 0 0 0 6,446 0	942 0 0 0 6,414 0	465 0 0 0 6,377 1,186
9 Bills 10 Notes. 11 Bonds 12 Total bought outright 13 Held under repurchase agreements 14 Total U.S. Treasury securities.	109,662 91,782 30,763 232,207 0 232,207	111,141 91,782 30,763 233,686 2,205 235,891	107,932 91,582 30,963 230,477 2,959 233,436	107,547 91,582 30,963 230,092 693 230,785	107,769 91,582 30,963 230,314 3,206 233,520	108,838 91,782 30,763 231,383 0 231,383	109,768 91,782 30,763 232,313 0 232,313	110,953 91,582 30,963 233,498 2,936 236,434
15 Total loans and securities.	239,481	244,247	242,765	245,096	241,251	238,415	239,668	244,461
16 Items in process of collection 17 Bank premises. Other assets	6,296 831	6,252 831	5,512 832	5,698 833	5,896 831	7,586 827	9,103 831	5,726 836
18 Denominated in foreign currencies ³	32,562 5,707	32,586 6,022	32,615 4,981	32,666 4,934	32,695 5,274	34,225 5,248	32,561 6,577	34,059 5,230
20 Total assets	304,936	310,005	306,781	309,311	306,025	306,354	308,798	310,386
LIABILITIES								
21 Federal Reserve notes. Deposits 22 To depository institutions. 23 U.S. Treasury—General account 24 Foreign—Official accounts 25 Other.	249,663 33,429 5,940 206 239	39,011 5,341 215 183	251,936 33,780 5,659 245 276	251,583 38,099 5,438 217 233	252,549 33,334 6,130 246 276	247,983 36,336 5,470 368 255	249,319 34,651 6,369 279 247	253,544 35,592 4,453 337 219
26 Total deposits	39,813	44,750	39,961	43,987	39,985	42,429	41,546	40,600
27 Deferred credit items	6,126 3,523	5,215 3,719	6,177 3,514	5,084 3,445	4,732 3,559	6,930 3,810	8,210 3,554	5,738 4,288
29 Total liabilities	299,125	304,821	301,588	304,100	300,824	301,152	302,629	304,169
CAPITAL ACCOUNTS 30 Capital paid in	2,375 2,243 1,192	2,378 2,243 563	2,387 2,243 564	2,387 2,243 582	2,396 2,243 562	2,344 2,243 616	2,359 2,243 1,566	2,399 2,243 1,579
33 Total liabilities and capital accounts	304,936	310,005	306,781	309,311	306,025	306,354	308,798	310,386
34 MEMO: Marketable U.S. Treasury securities held in custody for foreign and international accounts	227,484	229,058	230,056	233,391	233,637	228,260	228,317	236,408
	 i	L	Fe	deral Reserve	note stateme	ent		· · · · · · · · · · · · · · · · · · ·
35 Federal Reserve notes outstanding issued to bank	290,756 41,093 249,663	290,931 39,794 251,137	291,471 39,535 251,936	292,935 41,352 251,583	293,783 41,234 252,549	288,487 40,504 247,983	290,791 41,472 249,319	293,807 40,263 253,544
38 Gold certificate account 39 Special drawing rights certificate account 40 Other eligible assets	11,064 8,518 0	11,064 8,518 0	11,064 8,518 0	11,064 8,518 0	11,065 8,518 0	11,065 8,518 0	11,064 8,518 0	11,065 8,518 0
41 U.S. Treasury and agency securities	230,081	231,555	232,354	232,001	232,966	228,400	229,737	233,961
42 Total collateral	249,663	251,137	251,936	251,583	252,549	247,983	249,319	253,544

^{1.} Some of these data also appear in the Board's H.4.1 (503) release. For address, see inside front cover. Components may not add to totals because of rounding.

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

^{3.} Valued monthly at market exchange rates.
4. Includes special investment account at the Federal Reserve Bank of Chicago in Treasury bills maturing within 90 days.
5. Includes exchange-translation account reflecting the monthly revaluation at market exchange rates of foreign-exchange commitments.

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

			Wednesday				End of month					
Type and maturity groupings			1990	1990								
	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29	June 29	July 31	Aug. 31				
1 Loans—Total. 2 Within 15 days 3 16 days to 90 days 4 91 days to 1 year	861 564 297 0	1,006 721 286 0	1,250 971 278 0	7,711 7,633 78 0	531 432 100 0	586 415 171 0	942 723 218 0	465 221 243 0				
5 Acceptances—Total. 6 Within 15 days 7 16 days to 90 days 8 91 days to 1 year	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0				
9 U.S. Treasury securities—Total 10 Within 15 days 11 16 days to 90 days 12 91 days to 1 year 13 Over 1 year to 5 years. 14 Over 5 years to 10 years. 15 Over 10 years	232,207 14,456 51,603 69,706 58,239 11,801 26,402	235,891 17,128 51,475 70,846 58,239 11,801 26,402	233,437 13,949 48,975 73,345 59,460 13,170 24,536	230,785 11,986 51,895 69,738 59,460 13,170 24,536	233,520 14,178 54,753 67,422 59,460 13,170 24,536	231,383 9,655 57,872 68,356 57,482 11,617 26,402	232,313 9,872 56,294 69,706 58,239 11,801 26,402	233,498 2,820 60,563 72,709 59,700 13,170 24,536				
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	6,414 0 712 1,583 2,820 1,110 188	7,350 936 811 1,484 2,820 1,110 188	8,080 1,764 714 1,544 2,760 1,110 188	6,600 563 434 1,544 2,760 1,110 188	7,200 1,133 497 1,616 2,655 1,110 188	6,446 223 672 1,406 2,846 1,109 188	6,414 115 712 1,468 2,820 1,110 188	6,377 310 497 1,616 2,655 1,110				

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

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

1.20 AGGREGATE RESERVES OF DEPOSITORY INSTITUTIONS AND MONETARY BASE¹

Billions of dollars, averages of daily figures

	1986	1987	1988	1989				19	90			
Item	Dec.	Dec.	Dec.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Adjusted for					5	Seasonall	y adjuste	d				
CHANGES IN RESERVE REQUIREMENTS ² 1 Total reserves ³	58.02	58.59	60.59	60.03	59.90	60.22	60.30	60.28	59.78	59.73	59.32	59.75
2 Nonborrowed reserves 3 Nonborrowed reserves plus extended credit 4 Required reserves. 5 Monetary base 6.	57.20 57.50 56.65 241.43	57.82 58.30 57.55 258.06	58.88 60.12 59.55 275.24	59.77 59.79 59.11 284.95	59.46 59.48 58.88 287.51	58.77 59.30 59.23 289.71	58.17 60.12 59.44 291.82	58.65 60.05 59.38 293.54	58.45 59.32 58.82 294.40	58.85 59.20 58.96 296.28	58.56 58.84 58.46 297.86	58.82 58.95 58.88 301.13
Adjusted for Changes in Reserve Requirements ²				 	No	t seasona	illy adjus	ted			 -	
6 Total reserves ⁷	59.46	60.07	62,22	61.67	61.58	59.20	59.23	61.05	58.74	59.61	59.47	59.22
7 Nonborrowed reserves 8 Nonborrowed reserves plus extended credit*	58.64 58.94 58.09 245.17	59.30 59.78 59.03 262.00	60.50 61.75 61.17 279.54	61.40 61.42 60.75 289.45	61.14 61.17 60.56 288.67	57.75 58.29 58.21 286.50	57.11 59.06 58.37 288.86	59.42 60.82 60.15 293.35	57.41 58.28 57.78 293.52	58.73 59.07 58.84 297.37	58.71 58.99 58.61 299.90	58.29 58.42 58.34 301.47
Not Adjusted for Changes in Reserve Requirements ¹⁰												į
11 Total reserves ¹¹	59.56	62.14	63.75	62.81	62,93	60,62	60.66	62.51	60,23	61.20	60.94	60.73
12 Nonborrowed reserves 13 Nonborrowed reserves plus extended credit ³ . 14 Required reserves 15 Monetary base ¹ 16 Excess reserves ¹³ 17 Borrowings from the Federal Reserve	58.73 59.04 58.19 247.62 1.37 0.83	61.36 61.85 61.09 266.06 1.05 0.78	62.03 63.27 62.70 283.00 1.05 1.72	62.54 62.56 61.89 292.55 0.92 0.27	62.49 62.52 61.91 292.13 1.02 0.44	59.17 59.71 59.63 290.02 0.99 1.45	58.53 60.49 59.80 292.38 0.86 2.12	60.88 62.29 61.62 296.87 0.90 1.63	58.90 59.77 59.27 297.03 0.96 1.33	60.32 60.66 60.42 300.99 0.77 0.88	60.19 ^r 60.47 ^r 60.08 303.39 0.86 0.76	59.81 59.93 59.86 305.01 0.87 0.93

^{1.} Latest monthly and biweekly figures are available from the Board's H.3(502) statistical release. Historical data and estimates of the impact on required reserves of changes in reserve requirements are available from the Monetary and Reserves Projections Section. Division of Monetary Affairs. Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

2. Figures reflect adjustments for discontinuities or "breaks" associated with regulatory changes in reserve requirements.

2. Figures reflect adjustments for discontinuities or "breaks" associated with regulatory changes in reserve requirements.

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

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

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

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

7. Break-adjusted total reserves equal break-adjusted required reserves (line 9) plus excess reserves (line 16).

8. To adjust required reserves for discontinuities because of regulatory changes in reserve requirements, a multiplicative procedure is used to estimate what required reserves would have been in past periods had current reserve requirements been in effect. Break-adjusted required reserves includes required reserves against transactions deposits and nonpersonal time and savings deposits (but not reservable nondeposit liabilities).

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

10. Reflects actual reserve requirements, including those on nondeposit liabilities, with no adjustments to eliminate the effects of discontinuities associated with changes in reserve requirements.

ities, with no adjustments to eliminate the effects of discontinuities associated with changes in reserve requirements.

11. Reserve balances with Federal Reserve Banks plus vault cash used to satisfy reserve requirements.

12. The monetary base, not break-adjusted and not seasonally adjusted, consists of (1) total reserves (line 11), plus (2) required clearing balances and adjustments to compensate for float at Federal Reserve Banks, plus (3) the currency component of the money stock, plus (4) (for all quarterly reporters on the "Report of Transaction Accounts, Other Deposits and Vault Cash" and for all those weekly reporters whose vault cash exceeds their required reserves) the difference between current vault cash and the amount applied to satisfy current reserve requirements. After the introduction of CRR, currency and vault cash figures are measured over the computation periods ending on Mondays.

13. Unadjusted total reserves (line 11) less unadjusted required reserves (line 14).

1.21 MONEY STOCK, LIQUID ASSETS, AND DEBT MEASURES¹

Billions of dollars, averages of daily figures

Item ²	1986	1987	1988	1989		19	90	
nem-	Dec.	Dec.	Dec.	Dec.	May	June	July	Aug.
				Seasonall	y adjusted			
I MI	724.7	750.4	787.5	794.8	805.4	809.4	809.2 ^r	816.4
	2,814.2	2,913.2	3,072.4	3,221.6	3,271.8'	3,279.0'	3,283.7 ^r	3,302.1
	3,494.5	3,678.7	3,918.3 ^r	4,044.3 ^r	4,065.8'	4,069.0'	4,072.2 ^r	4,088.0
	4,135.5	4,338.9	4,675.9 ^r	4,881.5 ^r	4,900.3'	4,921.1'	4,931.4	n.a.
	7,636.2	8,345.1′	9,107.6 ^r	9,788.9 ^r	10,052.5'	10,108.4'	10,169.2	n.a.
M1 components 6 Currency ³ 7 Travelers checks ⁴ 8 Demand deposits ⁵ 9 Other checkable deposits ⁶	180.6	196.7	211.8	221.9	231.6	233.4	235.4	238.4
	6.5	7.0	7.5	7.4	7.7	7.7	7.7	8.0
	302.1	287.0	287.0	279.7	274.5	274.5	274.8	278.0
	235.5	259.7	281.3	285.7	291.5	293.8	291.3'	292.0
Nontransactions components 10 In M2' 11 In M3 only ⁸	2,089.6	2,162.8	2,284.9	2,426.8	2,466.4 ^r	2,469.5 ^r	2,474.5	2,485.7
	680.3	765.5	845.9	822.6 ^r	794.0 ^r	790.0 ^r	788.4 ^r	785.9
Time and Savings accounts Commercial banks 12 Savings deposits 13 Money market deposit accounts 14 Small time deposits 15 Large time deposits in the saving	155.8	178.3	192.0	188.5	193.5	195.0	195.6	195.9
	377.7	356.4	350.2	351.5	365.3	368.2	370.9'	374.6
	366.3	388.1	447.5	528.6	550.8	559.3	568.1'	571.4
	289.8	326.9	368.2	401.5	397.0°	397.8'	399.5	396.2
Thrift institutions	214.3	236.6	235.9	220.5	221.5	220.8	220.7 ^r	220.5
	193.3	167.4	150.1	132.2	134.7	133.0	131.6	131.0
	489.9	529.7	583.5	613.7	598.2	587.8	580.1 ^r	578.2
	150.0	161.9	172.9	156.8	138.2	134.9	130.8	127.6
Money market mutual funds	208.7	222.0	240.9	312.4	320.4	321.9	325.1	333.8
20 General purpose and broker-dealer	83.8	89.0	87.1	102.3	107.3	107.3	108.9	114.0
Debt components 22 Federal debt	1,806.1'	1,957.9 ^r	2,114.2 ^r	2,266.7'	2,343.0′	2,370.9 ^r	2,397.0	n.a.
	5,830.1'	6,387.2 ^r	6,993.4 ^r	7,522.1'	7,709.5′	7,737.5 ^r	7,772.2	n.a.
			<u>. </u>	Not season	ally adjusted			-
24 MI	740.5	766.4	804.5	812.1	796.4	810.0	812.2 ^r	814.2
25 M2	2,826.5	2,925.6	3,085.2	3,234.5	3,256.8 ^r	3,276.1 ^r	3,289.3 ^r	3,302.1
26 M3	3,508.8	3,692.7	3,932.5	4,058.3'	4,050.1 ^r	4,062.7 ^r	4,071.2 ^r	4,088.1
77 L	4,151.5	4,355.2	4,692.7	4,899.2'	4,887.9 ^r	4,912.4 ^r	4,919.1	n.a.
28 Debt.	7,619.0	8,329.1	9,093.2	9,774.3'	10,006.6 ^r	10,064.7 ^r	10,126.3	n.a.
M1 components 9 Currency 1 Travelers checks 1 Demand deposits 2 Other checkable deposits 6	183.0	199.3	214.8	225.3	231.7	234.8	237,1	239.2
	6.0	6.5	6.9	6.9	7.5	8.1	8.6	8.9
	314.0	298.6	298.9	291.6	268.5	274.8	277.0	276.7
	237.5	262.0	283.8	288.4	288.7	292.3	289.4	289.4
Nontransactions components	2,086.0	2,159.2	2,280.8	2,422.4	2,460.4 ^r	2,466.2 ^r	2,477.2'	2,487.9
33 In M2'	682.3	767.0	847.3	823.8 ^r	793.3 ^r	786.5 ^r	781.9'	786.0
Time and Savings accounts Commercial banks S Savings deposits Money market deposit accounts T Small time deposits Large time deposits ⁹ .	154.4	176.9	190.6	187.2	194.0	196.1	197.3 ^r	196.3
	379.8	359.0	353.2	355.0	361.0	365.8	368.1 ^r	372.9
	366.1	387.3	446.0	526.4	549.7	560.4	569.7	572.5
	289.2	325.8	366.9	399.8	397.4	397.3'	397.3	396.8
Thrift institutions 9 Savings deposits 40 Money market deposit accounts 11 Small time deposits 12 Large time deposits to	212.7	234.9	234.2	219.0	221.8	222.3	223.0	221.0
	192.9	167.5	150.6	132.8	133.8	132.5	131.2	131.2
	489.8	529.1	582.4	612.3	596.5	586.8	581.6'	578.6
	150.7	162.9	174.2	158.3	137,5	133.5	129.4'	127.0
Money market mutual funds	208.0	221.5	240.5	312.2	319.6	319.8	322.3	332.8
43 General purpose and broker-dealer	84.4	89.6	87.6	102.9	106.7	106.1	108.1	113.2
Repurchase agreements and Eurodollars	82.3	83.2	83.3	77.4	83.9'	82.5 ^r	83.9	82.7
15 Overnight	164.3	197.1	227.7	178.0 ^r	163.3'	163.0 ^r	161.1′	164.6
Debt components	1,803.9	1,955.6	2,111.8	2,264.5'	2,336.8'	2,359.0 ^r	2,382.7	n.a.
17 Federal debt	5,815,1'	6,373.5	6,981.4 ^r	7,509.8'	7,669.8'	7,705.7 ^r	7,743.6	n.a.

For notes see following page.

NOTES TO TABLE 1.21

1. Latest monthly and weekly figures are available from the Board's H.6 (508) release. Historical data are available from the Money and Reserves Projection Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

2. 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, reedit union share draft accounts, and demand deposits at thrift institutions.

M2: M1 plus overnight (and continuing contract) repurchase agreements (RPs) issued by all depository institutions and overnight Eurodollars issued to U.S. residents by foreign branches of U.S. banks worldwide, money market deposit accounts (MMDAs), savings and small-denomination time deposits (time depositamine) and tax-exempt general purpose and broker-dealer money market mutual funds. Excludes individual retirement accounts (IRA) and Keogh balances a depository 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 all depository institutions, term Eurodolars 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, Also subtracted is the estimated amount of overnight RPs and Eurodollars held by institution-only money market mutual funds.

L: M3

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 narket debt of the U.S. government, state and local governments, and private nonfinancial sectors. Private debt consists of corporate bonds, mortgages, consumer credit (including bank loans), other bank loans, commercial paper, bankers acceptances, and other debt instruments. Data are derived from the Federal Reserve Board's flow of funds accounts. Debt data are based on monthly averages.

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

depository institutions.

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

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 official institutions, less cash items in the process of collection and Federal Reserve float.

6. Consists of NOW and ATS balances at all depository institutions, credit union share draft balances, and demand deposits at thrift institutions.

7. Sum of overnight RPs and overnight Eurodollars, money market fund balances (general purpose and broker-dealer), MMDAs, and savings and small time deposits.

8. Sum of large time deposits, term RPs, term Eurodollars of U.S. residents, and money market fund balances (institution-only), less a consolidation adjustment that represents the estimated amount of overnight RPs and Eurodollars held by institution-only money market funds.

by institution-only money market funds.

9. Small-denomination time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All individual retirement accounts (IRA) and Keegh 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.

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.

		4000	17710				90		
Bank group, or type of customer	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May	June
DEBITS TO	_			Sea	asonally adjus	sted			
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	217,116.2 104,496.3 112,619.8 2,402.7 526.5	226,888.4 107,547.3 119,341.2 2,757.7 579.2	272,793.1 121,894.2 150,898.9 3,501.8 636.6	286,425.2 123,744.6 162,680.5 3,910.4 609.2	299,450.2 132,031.4 167,418.8 4,115.7 587.3	285,111.5 132,470.3 152,641.2 4,075.7 617.6	274,403.6 124,988.2 149,415.4 3,993.3 583.1	273,186.2 123,314.6 149,871.6 4,165.6 601.1	301,578.2 131,042.7 170,535.5 4,004.2 566.6
Deposit Turnover									
Demand deposits ³ 6 All insured banks. 7 Major New York City banks. 8 Other banks. 9 ATS-NOW accounts ⁴ 10 Savings deposits ⁵ .	612.1 2,670.6 357.0 13.8 3.1	641.2 2,903.5 376.8 14.7 3.1	781.0 3,401.6 481.5 18.3 3.5	820.0 3,422.4 519.5 19.8 3.3	851.4 3,677.3 530.1 20.6 3.1	813.3 3,760.2 484.0 20.2 3.2	780.8 3,551.5 472.5 19.7 3.0	791.9 3,590.9 482.5 20.5 3.2	866.2 3,742.8 544.6 19.5 2.9
DEBITS TO	,			Not s	seasonally adj	usted			
Demand deposits ³ 11 All insured banks 12 Major New York City banks 13 Other banks 14 ATS-NOW accounts ⁴ 15 MMDA ⁶ 16 Savings deposits ⁵	217,125.1 104,518.8 112,606.2 2,404.8 1,954.2 526.8	227,010.7 107,565.0 119,445.7 2,754.7 2,430.1 578.0	271,957.3 122,241.8 149,715.5 3,496.5 2,790.6 635.8	303,668.0 131,796.0 171,872.0 4,263.7 3,075.9 629.3	270,852.7 119,305.2 151,547.5 3,721.3 2,551.2 518.7	291,868.6 137,029.5 154,839.2 4,030.4 2,714.9 594.2	276,077.5 125,750.6 150,326.9 4,285.8 2,848.4 646.8	282,747.7 125,532.4 157,215.3 4,066.2 3,016.4 592.6	302,181.4 130,332.7 171,848.6 4,098.2 2,992.1 567.8
Deposit Turnover									
Demand deposits ³ All insured banks Major New York City banks Other banks ATS-NOW accounts ⁴ MMDA ⁶ Savings deposits ⁵	612.3 2,674.9 356.9 13.8 5.3 3.1	641.7 2,901.4 377.1 14.7 6.9 3.1	779.0 3,415.4 477.8 18.3 8.3 3.5	847.9 3,433.3 537.5 21.1 8.7 3.4	791.8 3,314.9 495.2 18.7 7.2 2.8	850.4 3,836.2 503.6 20.0 7.6 3.1	784.4 3,564.6 474.7 20.5 7.9 3.4	834.7 3,796.3 514.3 20.3 8.4 3.1	866.5 3,797.6 546.6 20.1 8.2 2.9

^{1.} Historical tables containing revised data for earlier periods may be obtained from the Monetary and Reserves Projections Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

These data also appear on the Board's G.6 (406) release. For address, see inside front cover.

These data also appear of the 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 November 1990

1.23 LOANS AND SECURITIES All Commercial Banks¹

Billions of dollars; averages of Wednesday figures

2		191	89′)			19	90'			_
Category	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
						Seasonall	y adjusted					
1 Total toans and securities ²	2,546.2	2,570.5	2,585.8	2,588.8	2,594.4	2,614.3	2,635.6	2,646.7	2,653.8	2,669.4	2,684.7	2,707.8
2 U.S. government securities 3 Other securities 4 Total loans and leases 5 Commercial and industrial. 6 Bankers acceptances held 7 Other commercial and	379.3	390.9	396.0	396.1	404.7	414.5	422.3	427.3	430.6	438.5	440.6	441.3
	183.6	181.4	179.9	180.8	180.4	180.5	180.1	180.0	178.3	177.9	177.8	179.2
	1,983.3	1,998.2	2,009.9	2,011.9	2,009.3	2,019.4	2,033.2	2,039.4	2,045.0	2,053.0	2,066.4	2,087.3
	638.2	642.0	645.0	641.6	637.9	638.8	644.4	649.0	648.6	651.6	651.7	653.1
	7.5	7.9	7.6	7.4	7.3	7.6	7.6	7.5	7.6	7.9	7.6	7.3
industrial 8 U.S. addressees ⁴ 9 Non-U.S. addressees ⁴ 10 Real estate 11 Individual 12 Security 13 Nonbank financial	630.8	634.1	637.4	634.2	630.6	631.2	636.8	641.5	641.0	643.7	644.2	645,8
	626.9	629.9	632.4	628.8	623.1	625.4	630.6	635.5	636.4	638.8	641.6	643.2
	3.8	4.2	5.0	5.4	7.6	5.8	6.2	6.0	4.5	4.9	2.6	2.5
	739.1	746.7	754.0	761.1	765.9	774.7	781.8	786.9	794.6	800.1	808.0	811.9
	370.8	372.4	374.4	375.8	378.3	379.5	379.9	378.8	379.8	378.4	378.3	380.1
	39.5	40.7	40.9	38.8	39.3	40.0	37.1	36.1	34.8	35.3	38.8	46.0
institutions	31.7	33.2	33.9	33.0	32.5	32.9	33.8	33.9	33.9	34.4	34.8	35.7
	30.4	30.5	30.5	30.7	30.9	30.8	30.6	30.4	30.0	29.5	29.3	29.2
subdivisions 16 Foreign banks 17 Foreign official institutions 18 Lease financing receivables 19 All other loans	41.7	41.3	40.8	40.1	38.6	38.9	38.4	38.2	37.9	37.4	36.6	36.0
	8.1	9.1	8.3	8.9	8.1	7.8	8.4	8.8	8.7	7.4	7.0	8.0
	4.2	3.8	3.7	3.6	3.2	3.1	3.0	3.2	3.2	3.2	3.2	3.2
	31.4	31.9	31.9	31.8	32.1	32.2	32.6	32.3	32.5	32.3	32.6	32.7
	48.0	46.6	46.4	46.5	42.5	40.6	43.2	41.8	40.9	43.3	46.1	51.5
					1	Not seasons	ally adjuste	d				
20 Total loans and securities ²	2,544.8	2,570.8	2,587.9	2,596.8	2,600.1	2,616.7	2,629.9	2,647.0	2,653.4	2,669.5	2,678.9	2,701.4
21 U.S. government securities	378.4	388.2	396.1	397.2	406.4	419.0	423.8	427.2	429.6	435.6	438.1	442.1
	183.8	182.3	181.2	181.8	180.9	180.3	179.7	179.4	177.7	177.2	176.4	179.3
	1,982.6	2,000.2	2,010.6	2,017.9	2,012.8	2,017.3	2,026.4	2,040.4	2,046.1	2,056.7	2,064.4	2,080.0
	634.3	639.4	642.2	641.6	636.4	639.5	646.0	653.3	652.7	654.0	652.1	650.6
	7.5	8.1	7.7	7.5	7.4	7.7	7.4	7.3	7.5	7.8	7.3	7.4
industrial	626.8	631.3	634.5	634.0	629.1	631.8	638.6	645.9	645.2	646.2	644.8	643.2
	621.2	625.7	629.1	628.8	624.1	627.0	633.9	641.3	640.6	641.8	640.3	638.7
	5.5	5.6	5.4	5.2	4.9	4.8	4.7	4.6	4.6	4.4	4.5	4.5
	741.2	748.0	755.7	761.9	766.0	772.1	779.1	784.9	793.5	800.0	808.7	813.6
	372.7	373.5	375.8	380.3	381.8	378.7	376.6	376.0	377.3	376.7	376.7	380.3
	38.6	39.7	39.7	37.9	37.8	39.5	38.1	38.5	35.3	37.4	38.8	45.3
institutions	31.4	32.8	34.2	34.1	33.2	32.5	33.0	33.7	33.9	34.7	35.0	35.5
	31.4	31.2	30.8	30.6	30.4	29.9	29.5	29.5	29.7	29.9	30.0	30.0
subdivisions 35 Foreign banks 36 Foreign official institutions 37 Lease financing receivables 38 All other loans	41.6	41.2	40.6	39.7	39.5	39.3	38.6	38.2	37.8	37.2	36.2	35.8
	8.3	9.4	8.5	8.7	8.2	7.8	7.8	8.4	8.7	7.6	7.1	7.9
	4.2	3.8	3.7	3.6	3.2	3.1	3.0	3.2	3.2	3.2	3.2	3.2
	31.3	31.8	31.9	31.9	32.5	32.4	32.5	32.4	32.5	32.2	32.3	32.5
	47.7	49.3	47.5	47.7	43.8	42.6	42.1	42.4	41.6	43.9	44.1	45.4

^{1.} Data have been revised because of benchmarking and seasonal adjustment revisions beginning January 1973. These data also appear in the Board's G.7 (407) release. For address, see inside front cover.

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

0		19	89					19	90			
Source	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May'	June'	July'	Aug.
Seasonally adjusted 1 Total nondeposit funds ² 2 Net balances due to related foreign offices ³ 3 Borrowings from other than commercial banks in United States ⁴ 4 Domestically chartered banks 5 Foreign-related banks	247.0 11.1 235.9 189.9 46.0	254.7 10.2 244.5 196.5 48.0	256.5 8.6 247.9 198.3 49.6	257.3 ^r 7.4 249.9 ^r 200.4 49.4 ^r	258.1' 10.9 247.2' 196.9 50.4'	267.6' 14.7 252.9' 201.4 51.5'	271.4' 17.3 254.1' 198.5 55.6'	268.7 ^r 16.6 ^r 252.1 ^r 194.2 58.0 ^r	270.5 24.4 246.1 189.1 57.0	271.9 14.7 257.2 199.1 58.1	283.3 16.7 266.6 205.0 61.6	282.9 16.7 266.2 203.8 62.4
Not seasonally adjusted 6 Total nondeposit funds* 7 Net balances due to related foreign offices* 8 Domestically chartered banks 9 Foreign-related banks 10 Borrowings from other than commercial banks in United States* 11 Domestically chartered banks 12 Federal funds and security RP borrowings* 13 Other* 14 Foreign-related banks*	243.6 11.7 -14.3 26.0 231.9 186.9 3.0 45.0	249.9 9.6 -15.0 24.6 240.3 293.5 190.4 3.0 46.8	255.4 9.7 -15.5 25.2 245.8 198.5 196.1 2.4 47.2	250.7 ^r 9.7 -19.2 28.9 241.0 ^r 194.0 191.5 2.5 47.0 ^r	254.6' 10.5 -14.5 25.0 244.1' 192.9 190.3 2.7 51.2'	270.8' 14.3 -11.1 25.4 256.4' 203.3 199.6 3.7 53.1'	277.2' 16.2 -11.5 27.7 261.1' 204.3 199.9 4.5 56.8'	271.6' 14.3' -10.7 25.0 257.2' 198.2 194.5 3.7 59.0'	279.1 26.3 -1.4 27.7 252.8 194.9 191.5 3.4 57.9	276.8 15.4 -6.3 21.7 261.4 200.9 197.7 3.2 60.6	278.7 14.7 -6.1 20.8 264.0 202.0 199.1 2.9 62.0	282.0 16.9 -3.6 20.6 265.1 203.3 199.6 3.6 61.8
MEMO Gross large time deposits ⁷ 15 Seasonally adjusted 16 Not seasonally adjusted U.S. Treasury demand balances at commercial banks ⁸ 17 Seasonally adjusted 18 Not seasonally adjusted	460.0 461.5 22.8 24.9	461.4 462.6 21.5 20.6	464.0 464.4 20.4 14.7	464.3 462.7 21.1 19.6	462.7 460.4 20.2 23.2	460.6 460.3 17.8 22.0	457.3 460.2 19.2 16.7	455.1 455.1 21.2 20.0	454.7 455.2 18.6 25.2	452.7 452.2 20.4 20.9	454.0 451.8 14.9 15.2	450.8 451.4 33.2 23.5

^{1.} Data have been revised because of benchmarking and seasonal adjustment revisions beginning January 1973. Commercial banks are those in the 50 states and the District of Columbia with national or state charters plus agencies and branches of foreign banks, New York investment companies majority owned by foreign banks, and Edge Act corporations owned by domestically chartered and foreign

banks.

These data also appear in the Board's G.10 (411) release. For address, see inside front cover.

taside front cover.

2. Includes federal funds, RPs, and other borrowing from nonbanks and net balances due to related foreign offices.

3. Reflects net positions of U.S. chartered banks, Edge Act corporations, and U.S. branches and agencies of foreign banks with related foreign offices plus net positions with own IBFs.

- 4. Other borrowings are borrowings through any instrument, such as a promissory note or due bill, given for the purpose of borrowing money for the banking business. This includes borrowings from Federal Reserve Banks and from foreign banks, term federal funds, loan RPs, and sales of participations in pooled loans.

 5. Based on daily average data reported weekly by approximately 120 large banks and quarterly or annual data reported by other banks.

 6. Figures are partly daily averages and partly averages of Wednesday data.

 7. Time deposits in denominations of \$100,000 or more. Estimated averages of daily data.

 8. U.S. Treasury demand deposits and Treasury tax-and-loan notes at commercial banks. Averages of daily data.

1.25 ASSETS AND LIABILITIES OF COMMERCIAL BANKING INSTITUTIONS Last-Wednesday-of-Month Series¹ Billions of dollars

		1989					19	990			
Account	Oct.'	Nov.'	Dec."	Jan."	Feb.'	Mar.'	Apr.'	May	June'	July'	Aug.
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	2,739,3	2,774.7	2,780.1	2,796.0	2,809.2	2,821.2	2,838.3	2,845.9	2,870.9	2,876.4	2,895.8
	546.8	551.0	550.5	563.9	571.2	576.8	582.5	585.9	587.7	587.5	595.8
	371.6	376.5	375.1	389.8	398.0	405.9	412.6	416.9	419.9	420.1	427.1
	175.2	174.5	175.5	174.1	173.2	170.8	169.9	169.0	167.8	167.4	168.7
	25.8	26.8	22.8	31.8	30.2	26.0	23.9	21.4	23.7	27.2	29.2
	2,166.7	2,196.9	2,206.8	2,200.4	2,207.8	2,218.5	2,231.9	2,238.7	2,259.6	2,261.6	2,270.7
	169,3	185.4	187.0	187.4	187.5	191.6	190.6	192.8	202.7	199.9	198.4
	1,997.4	2,011.6	2,019.8	2,013.0	2,020.3	2,026.9	2,041.3	2,045.9	2,056.9	2,061.7	2,072.4
	638.7	641.6	643.2	636.4	642.4	646.2	653.3	650.9	654.1	648.7	646.3
	749.3	758.3	762.8	767.6	774.0	781.6	786.7	796.7	801.3	810.2	813.3
	374.0	376.5	382.3	381.7	378.6	375.5	377.5	377.3	378.5	377.7	382.2
	235.3	235.2	231.5	227.3	225.3	223.6	223.8	220.9	222.9	225.0	230.6
13 Total cash assets	209.6	231.5	255.7	218.9	224.9	212.9	211.6	239,9	222.9	214.1	211.0
	28.4	38.7	42.8	24.6	29.5	32.0	31.6	27,8	32.0	30.1	30.3
	27.8	30.7	31.6	28.0	27.8	27.7	28.5	29,9	28.9	28.7	30.2
	77.5	84.4	99.1	89.9	91.6	80.0	80.0	100,6	86.1	79.5	77.4
institutions	28.2	28.5	32.3	29.6	30,8	27.4	26.3	32.0	27.6	27.4	27.5
	47.6	49.2	49.9	46.8	45.2	45.8	45.2	49.7	48.3	48.4	45.6
19 Other assets	206.3	203.3	209.9	218.1	212.9	209.1	206.0	199,5	211,1	207,1	216.3
20 Total assets/total flabilities and capital	3,155.2	3,209.5	3,245,8	3,233.0	3,247.0	3,243.2	3,255.9	3,285.4	3,304.9	3,297.5	3,323.1
21 Deposits 21 Transaction deposits 22 Savings deposits 24 Time deposits 25 Borrowings. 26 Other liabilities 27 Residual (assets less liabilities)	2,198.2	2,225.7	2,270.0	2,247.1	2,262.4	2,251.3	2,257.3	2,293.1	2,280.6	2,289.7	2,295.2
	585.5	600.8	642.0	612.2	616.6	594.3	601.0	618.4	599.6	591.5	590.5
	525.7	535.7	538.2	540.8	546.3	551.8	548.7	554.4	556.3	561.3	565.7
	1,086.9	1,089.2	1,089.7	1,094.2	1,099.5	1,105.3	1,107.5	1,120.3	1,124.7	1,136.8	1,139.0
	528.7	543.9	531.0	552.8	542.2	545.4	564.7	548.2	578.7	564.4	576.2
	219.3	229.5	233.5	221.8	229.3	230.8	218.0	227.8	227.2	224.3	231.7
	209.0	210.4	211.3	211.4	213.2	215.7	215.8	216.2	218.4	219.1	220.0
MEMO 28 U.S. government securities (including trading account) 29 Other securities (including trading account)	390.4	396.2	391.0	414.7	421.2	423.8	427.8	430.0	433.8	438.9	444,3
	182.2	181.6	182.3	180.9	180.2	179.0	178.6	177.2	177.6	175.9	180.8
Domestically Chartered Commercial Banks ³											
30 Loans and securities 31 Investment securities 32 U.S. government securities 33 Other 34 Trading account assets 35 Total loans 36 Interbank loans 37 Loans excluding interbank 38 Commercial and industrial 39 Real estate 40 Individual 41 All other	2,514.1	2,534.1	2,542.4	2,557.9	2,566.3	2,570.5	2,581.8	2,585.1	2,602.9	2,610.3	2,627.6
	522.7	524.6	524.4	536.2	543.1	547.2	551.5	557.5	557.3	556.8	565.5
	360.2	363.9	363.8	376.6	384.4	391.2	397.6	404.0	405.5	405.5	413.0
	162.5	160.7	160.5	159.6	158.7	156.0	154.0	153.5	151.9	151.4	152.5
	25.8	26.8	22.8	31.8	30.2	26.0	23.9	21.4	23.7	27.2	29.2
	1,965.6	1,982.7	1,995.2	1,989.9	1,993.0	1,997.3	2,006.4	2,006.2	2,021.9	2,026.3	2,032.9
	139.2	147.3	150.3	150.0	148.5	148.3	149.1	144.4	153.6	151.6	151.3
	1,826.3	1,835.5	1,844.9	1,839.9	1,844.6	1,849.0	1,857.3	1,861.7	1,868.3	1,874.7	1,881.6
	516.1	516.7	517.7	513.8	518.3	519.4	523.4	520.4	519.2	516.9	513.4
	721.4	728.6	733.0	735.9	741.1	747.8	751.8	761.2	765.3	773.5	776.1
	374.0	376.5	382.3	381.7	378.6	375.5	377.5	377.3	378.5	377.7	382.2
	214.8	213.7	211.8	208.5	206.5	206.3	204.6	202.8	205.3	206.7	209.9
42 Total cash assets	187.6	205.5	230.5	195.7	199.9	187.3	186.8	210.7	194.8	186.5	184.2
	26.7	37.9	41.7	22.7	27.5	29.8	29.8	26.6	30.8	28.8	28.1
	27.8	30.7	31.5	28.0	27.8	27.7	28.5	29.8	28.8	28.7	30.2
	76.3	82.5	97.7	88.5	90.2	78.5	78.7	99.2	84.1	78.1	75.8
institutions	26.3	26.6	30.4	27.6	28.7	25.6	24.6	30.0	25.9	25.6	25.1
	30.5	27.9	29.2	28.9	25.7	25.7	25.2	25.1	25.2	25.3	25.0
48 Other assets	129.6	136.0	140.7	143.6	140,2	136.4	133.8	136.3	141.8	138.4	144.3
49 Total assets/liabilities and capital	2,831.3	2,875.7	2,913.6	2,897.2	2,906.5	2,894.2	2,902.4	2,932.0	2,939.6	2,935.3	2,956.1
50 Deposits 51 Transaction deposits 52 Savings deposits 53 Time deposits 54 Borrowings 55 Other liabilities 56 Residual (assets less liabilities)	2,115.8	2,143.3	2,186.8	2,164.5	2,179.9	2,169.4	2,174.6	2,210.6	2,197.8	2,207.7	2,213.3
	576.0	591.2	632.1	601.9	606.3	584.5	591.2	608.3	589.0	581.1	579.9
	523.1	532.9	535.4	537.9	543.4	548.8	545.7	551.4	553.3	558.3	562.7
	1,016.8	1,019.2	1,019.3	1,024.7	1,030.2	1,036.1	1,037.6	1,050.9	1,055.4	1,068.2	1,070.7
	393.8	405.2	398.4	405.3	394.2	393.1	405.4	391.7	409.9	395.6	403.5
	116.5	120.6	120.9	119.9	123.1	119.9	110.5	117.3	117.2	116.8	123.2
	205.2	206.6	207.4	207.5	209.3	211.8	212.0	212.3	214.6	215.3	216.1
MEMO 57 Real estate loans, revolving	48.4	49.2	50.0	51.1	51.4	52.0	53.1	54.0	55.0	56.1	57.4
	673.0	679.4	683.0	684.8	689.7	695.8	698.7	707.2	710.3	717.4	718.8

1. Data have been revised because of benchmarking beginning January 1989. Back data are available from the Banking and Monetary Statistics section, Board of Governors of the Federal Reserve System, Washington, D.C., 20551. These data also appear in the Board's weekly H.8 (510) release.

Figures are partly estimated. They include all bank-premises subsidiaries and other significant majority-owned domestic subsidiaries. Loan and securities data for domestically chartered commercial banks are estimates for the last 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.

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					1990				
Account	July 4	July 11	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29
Cash and balances due from depository institutions Total loans, leases, and securities, net	125,786 1,301,304	109,748 1,295,270°	107,704 1,305,428'	105,938 1,301,031'	123,886 1,318,974	106,361 1,313,635	119,362 1,336,988	107,130 1,318,957	103,510 1,308,980
3 U.S. Treasury and government agency 4 Trading account 5 Investment account 6 Mortgage-backed securities ² All other maturing in	176,680 16,182 160,499 79,567	176,636 16,123 160,513 79,914	180,024 19,744 160,280 79,700	178,155 18,727 159,428 79,797	181,389 19,705 161,683 80,250	178,830 16,508 162,322 81,086	182,470 19,683 162,787 80,829	181,098 17,478 163,621 80,642	182,880 17,153 165,726 82,184
7 One year or less 8 Over one through five years 9 Over five years 10 Other securities 11 Trading account 12 Investment account 13 States and political subdivisions, by maturity	34,876' 24,121' 62,221 1,149 61,072 32,477	21,784' 34,892' 23,922' 62,214 1,061 61,153 32,363 3,529'	21,251' 35,234' 24,095' 62,061 830 61,231 32,340	20,252 ^r 35,642 ^r 23,738 ^r 61,745 709 61,036 32,311	19,816 37,089 24,528 63,030 1,813 61,216 32,138	18,706 37,763 24,767 61,991 708 61,283 32,155	18,500 38,979 24,478 61,849 772 61,078 32,121	18,408 39,743 24,827 62,141 981 61,160 32,057	18,429 40,095 25,018 62,323 946 61,376 32,032 3,699
14 One year or less 15 Over one year 16 Other bonds, corporate stocks, and securities 17 Other trading account assets	29,011 28,595 7,847	28,834 ^r 28,790 8,232	3,520 ⁷ 28,820 ⁷ 28,891 7,995	3,531 ^r 28,780 ^r 28,725 7,800	3,616 28,522 29,079 8,103	3,632 28,524 29,128 9,388	3,667 28,454 28,957 10,257	3,686 28,371 29,103 9,769	28,333 29,345 10,723
18 Federal funds sold ³ 19 To commercial banks 20 To nonbank brokers and dealers in securities 21 To others 22 Other loans and leases, gross 23 Other loans, gross 24 Commercial and industrial. 25 Bankers acceptances and commercial paper 26 All other 27 U.S. addressees 28 Non-U.S. addressees	58,799 13,948 4,362	74,190 55,242 14,640 4,308 1,013,093 ^r 986,428 ^r 321,643 ^r 1,557 320,085 ^r 318,553 ^r 1,532	78,089 56,283 17,196 4,610 1,016,445' 989,577' 320,987' 1,604 319,383' 317,987' 1,396	78,580 56,049 17,967 4,564 1,013,853' 987,014' 319,455' 1,596 317,859' 316,407' 1,452	87,589 59,363 22,540 5,686 1,017,802 991,008 320,402 1,549 318,853 317,350 1,503	85,450 56,821 22,973 5,656 1,016,867 990,065 319,906 1,612 318,293 316,857 1,436	98,368 68,717 23,528 6,123 1,022,975 996,133 321,833 1,698 320,134 318,724	83,717 55,767 22,373 5,578 1,021,122 994,211 319,751 1,609 318,142 316,726 1,416	75,566 51,126 19,439 5,001 1,016,607 989,527 317,459 1,563 315,896 314,504 1,392
29 Real estate loans . 30 Revolving, home equity . 31 All other . 32 To individuals for personal expenditures . 33 To depository and financial institutions . 34 Commercial banks in the United States . 35 Banks in foreign countries . 36 Nonbank depository and other financial institutions . 37 For purchasing and carrying securities . 38 To finance agricultural production . 39 To states and political subdivisions . 40 To foreign governments and official institutions .	375,543' 30,168 345,375' 172,341 49,618 21,947 4,318 23,353 13,729 6,128 23,182 1,439	376,161' 30,325 345,836' 172,326 49,839 21,704 4,236 23,900 13,512 6,160 22,869 1,477	376,837' 30,446 346,391' 172,555 50,994 23,087 4,081 23,826 14,558 6,167 22,788 1,532	377,444′ 30,459 346,985′ 173,039 49,630 23,044 3,539 23,047 14,924 6,174 22,712 1,455	378,635 30,643 347,992 173,280 49,841 21,915 3,957 23,969 14,848 6,140 22,658 1,480	379,192 30,751 348,441 173,374 49,446 21,781 3,650 24,015 15,139 6,157 22,633 1,409	380,304 30,923 349,380 173,724 52,317 23,071 4,921 24,325 14,234 6,178 22,560 1,591	380,154 31,085 349,070 174,320 51,748 23,499 4,907 23,342 15,434 6,103 22,528 1,404	379,229 31,252 347,977 174,632 51,512 23,996 4,158 23,358 14,262 6,085 22,454 1,449
41 All other 42 Lease financing receivables 43 Less: Unearned income 44 Loan and lease reserve ⁴ 45 Other loans and leases, net 46 All other assets	25,285 26,694 4,431' 34,825 977,446' 138,845'	22,441 26,666 4,432' 34,664 973,997' 135,176'	23,159 26,868' 4,446' 34,740 977,259' 130,405'	22,180 26,839' 4,442 34,661 974,750' 128,356'	23,724 26,794 4,405 34,534 978,862 131,012	22,809 26,802 4,416 34,476 977,975 129,955	23,392 26,842 4,426 34,505 984,044 134,164	22,768 26,911 4,444 34,446 982,231 131,921	22,445 27,080 4,451 34,668 977,488 133,698
47 Total assets 48 Demand deposits 49 Individuals, partnerships, and corporations 50 States and political subdivisions 51 U.S. government 52 Depository institutions in the United States	1,565,935 ^r 249,546 ^r 199,839 ^r 6,767 2,164 24,938	1,540,193 222,619' 179,914' 5,732 3,108 19,891	1,543,536 225,342 ^r 178,207 ^r 6,222 4,258 20,709	1,535,326 215,038' 171,276' 6,280 2,660 20,003	1,573,872 242,856 190,311 7,393 2,414 25,325	1,549,951 215,571 175,623 5,610 1,392 18,683	1,590,514 244,622 195,530 6,081 2,608 24,929	1,558,008 213,516 172,258 5,956 1,261 18,604	1,546,188 213,287 171,109 5,404 1,440 18,840
53 Banks in foreign countries 54 Foreign governments and official institutions 55 Certified and officers' checks 56 Transaction balances other than demand deposits 57 Nontransaction balances 58 Individuals, partnerships, and corporations 59 States and political subdivisions 60 U.S. government 61 Depository institutions in the United States	6,312 706 8,820 83,192 753,626 716,723 29,277 829 6,299	5,521 681 7,772 79,539 753,295 716,334 29,319 829 6,330	5,902 702 9,342 78,418 753,090 716,364 29,083 841 6,336	5,611 586 8,622 77,466 752,162 715,254 29,045 841 6,552	6,650 961 9,801 80,364 753,999 716,754 29,116 1,168 6,488	4,968 681 8,614 80,295 754,155 717,231 29,218 881 6 368	6,231 1,375 7,868 79,805 758,425 721,393 29,304 887 6 366	6,363 857 8,216 78,324 753,907 716,765 29,359 884 6,446	6,202 809 9,482 77,478 752,688 715,236 29,676 888 6,429
Foreign governments, official institutions, and banks Liabilities for borrowed money Borrowings from Federal Reserve Banks Treasury tax-and-loan notes All other liabilities for borrowed money ⁵ Other liabilities and subordinated notes and debentures Brotal liabilities	285,040′ 20 2,313 282,706′ 90,390 1,461,793′	482 291,164 0 3,923 287,242 88,670	7,953 291,396 0 7,953 283,443 90,656 1,438,903	6,552 470 293,387 1,490 12,030' 279,866' 92,807	473 297,080 0 10,007 287,072 94,968 1,469,265	6,368 456 299,683 100 12,448 287,136 95,288 1,444,992	6,366 475 310,734 785 14,864 295,085 92,234 1,485,820	452 312,008 6,837 21,735 283,436 95,175 1,452,930	459 299,696 0 22,394 277,302 97,744 1,440,893
69 Residual (total assets minus total liabilities) ⁶ MEMO 70 Total loans and leases (gross) and investments adjusted ⁷ 71 Total loans and leases (gross) adjusted ⁴ 72 Time deposits in amounts of \$100,000 or more 73 U.S. Treasury securities maturing in que year or less 74 Loans sold outright to affiliates—total ⁸ 75 Commercial and industrial 76 Othe 77 Nontransaction savings deposits (including MMDAs)	1,259,814' 1,013,065' 214,143 19,280 300 144 155 287,077	1,257,420° 1,010,338° 214,470 20,212 290 140 150 286,132	104,633' 1,265,244' 1,015,164' 214,936 20,679 298 145 153 285,271'	1,261,041 ^r 1,013,340 ^r 214,729 19,707 298 145 154 284,606	104,607 1,276,635 1,024,113 214,461 19,416 253 137 116 286,787	104,959 1,273,925 1,023,715 213,908 18,394 256 140 116 287,356	104,694 1,284,131 1,029,555 213,799 17,858 254 138 116 291,492	105,078 1,278,582 1,025,573 212,889 17,455 257 135 122 287,758	105,294 1,272,977 1,017,051 212,279 17,475 266 144 122 287,387

^{1.} Beginning Jan. 6, 1988, the "Large bank" reporting group was revised somewhat, eliminating some former reporters with less than \$2 billion of assets and adding some new reporters with assets greater than \$3 billion.

2. Includes U.S. government-issued or guaranteed certificates of participation in pools of residential mortgages.

3. Includes securities purchased under agreements to resell.

4. Includes allocated transfer risk reserve.

5. 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.
6. This is not a measure of equity capital for use in capital-adequacy analysis or for other analytic uses.
7. Exclusive of loans and federal funds transactions with domestic commercial

Exclusive or loans and recent and banks.
 R. Loans sold are those sold outright to a bank's own foreign branches, nonconsolidated nonbank affiliates of the bank, the bank's holding company (if not a bank), and nonconsolidated nonbank subsidiaries of the holding company.

1.28 ASSETS AND LIABILITIES OF LARGE WEEKLY REPORTING COMMERCIAL BANKS IN NEW YORK CITY1

Millions of dollars, Wednesday figures

					1990				
Account	July 4	July 11	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29
Cash balances due from depository institutions Total loans, leases, and securities, net ²	24,753	22,098	22,354	23,013	30,759	23,366	30,190	28,032	21,286
	219,993	215,469	220,749	220,615	228,069	225,680	236,058	230,061	222,178
Securities 3 U.S. Treasury and government agency ³ 4 Trading account ¹ 5 Investment account. 6 Mortgage-backed securities ⁴ . All other maturing in 7 One year or less 8 Over one through five years 9 Over five years 10 Other securities ³ 11 Trading account ³ 12 Investment account 13 States and political subdivisions, by maturity 14 One year or less	22,309 11,242 3,033 3,776 4,259 0 12,960 6,199 547	0 0 22,592 11,307 3,134 3,832 4,319 0 0 13,174 6,174	0 0 22,668 11,289 3,226 3,834 4,319 0 0 13,143 6,167 5,552	0 0 22,672 11,294 3,226 3,812 4,339 0 0 13,199 6,210 5,96	0 0 22,646 11,294 3,180 3,810 4,362 0 0 13,333 6,207 5,98	0 0 22,684 11,471 3,070 3,805 4,338 0 0 13,454 6,194 5,596	0 0 23,046 11,492 3,270 3,924 4,360 0 0 13,258 6,209 628	0 0 22,896 10,890 3,272 4,488 4,246 0 0 13,424 6,163 628	0 0 23,381 11,329 3,265 4,545 4,241 0 0 13,576 6,116 615
15 Over one year 16 Other bonds, corporate stocks, and securities	5,652	5,627	5,616	5,614	5,609	5,597	5,581	5,536	5,500
	6,761	7,001	6,976	6,989	7,126	7,260	7,050	7,261	7,461
	0	0	0	0	0	0	0	0	0
Loans and leases 18 Federal funds sold 5 10 commercial banks 20 To others 21 To others 22 Other loans and leases, gross 3 Other loans, gross 24 Commercial and industrial 25 Bankers acceptances and commercial paper 26 All other 27 U.S. addressees 28 Non-U.S. addressees 29 Real estate loans 20 Revolving, home equity 31 All other 32 To individuals for personal expenditures 33 To depository and financial institutions 34 Commercial banks in the United States 35 Banks in foreign countries 36 Nonbank depository and other financial institutions 37 For purchasing and carrying securities 38 To finance agricultural production 39 To states and political subdivisions 40 To foreign governments and official institutions 41 All other 42 Lease financing receivables 43 Less: Unearned income 44 Loan and lease reserve 46 Other loans and leases, net 6 46 All other assets'	108 56,835 56,153 682 62,603 4,091 58,512 19,747 18,948 7,817 3,260 7,871 4,421 140 4,933 272 6,472	17,345 9,769 5,401 2,175 178,575 173,076 56,921 56,140 4,093 58,546 19,794 4,093 58,546 19,794 4,228 4,117 3,354 8,228 4,117 3,354 8,549 9,189 1,189 1,199 1	19,842 10,500 7,150 2,192 181,267 175,668 57,678 171,567 56,876 6,876 6,876 6,803 19,819 19,157 7,564 3,168 8,424 4,977 145 4,822 396 5,772 5,599 1,834 14,337 165,096 58,965	21,002 10,777 7,913 2,312 179,905 174,320 57,293 1116 56,470 706 62,753 4,115 58,638 19,883 18,830 7,761 2,765 8,304 5,101 133 4,779 310 5,238 5,585 1,837 14,326 163,741 163,	26,368 13,072 10,470 2,826 181,599 176,031 58,469 122 58,346 57,600 7,600 4,125 58,734 19,771 18,689 7,251 2,973 8,465 5,327 64,734 342 5,704 5,568 1,826 1,051 1,	24,288 12,088 9,443 2,756 181,011 175,422 58,286 117 58,169 57,457 713 63,016 4,731 17,951 6,863 2,736 4,720 2,622 5,683 5,589 1,829 13,928 15,254 5,472 13,928 15,254 5,472 15,254 15,2	32,245 17,834 11,882 2,528 183,307 177,680 59,463 128,859,335 58,687 4,141 158,834 19,829 19,865 7,537 3,809 4,40 19,737 4,668 4,48 5,627 1,835 13,963 167,509 58,062	24,420 12,000 9,898 2,523 185,130 179,436 58,995 1806 58,218 64,145 58,672 19,893 21,010 8,876 3,961 147 4,648 267 5,620	19,855 9,507 8,026 2,322 181,451 175,766 58,288 124 58,163 57,514 649 62,463 4,151 18,312 19,863 19,763 8,439 3,246 4,692 339 3,246 4,592 339 5,322 5,685 5,
47 Total assets	301,366	294,360	302,068	299,742	316,774	303,775	324,311	315,683	302,562
48 Demand deposits 49 Individuals, partnerships, and corporations 50 States and political subdivisions 51 U.S. government 52 Depository institutions in the United States 53 Banks in foreign countries 54 Foreign governments and official institutions 55 Certified and officers' checks 56 Transaction balances other than demand deposits	53,687	45,506	49,478	45,401	55,134	44,751	58,835	47,894	45,519
	39,732	33,028	33,638	31,096	36,853	32,363	41,742	33,485	30,876
	1,025	629	911	736	813	614	657	655	466
	214	574	683	441	288	197	338	152	186
	4,782	4,183	5,154	5,188	7,806	3,900	7,722	4,628	4,571
	5,046	4,334	4,628	4,302	5,330	3,728	4,934	5,154	5,036
	560	551	554	448	836	553	1,216	738	681
	2,329	2,206	3,911	3,191	3,209	3,397	2,226	3,082	3,703
56 Transaction balances other than demand deposits (ATS, NOW, Super NOW, telephone transfers) 57 Nontransaction balances 58 Individuals, partnerships, and corporations 59 States and political subdivisions 60 U.S. government 61 Depository institutions in the United States 62 Foreign governments, official institutions, and banks 63 Liabilities for borrowed money 64 Borrowings from Federal Reserve Banks 65 Treasury tax-and-loan notes 66 All other liabilities for borrowed money ⁸ 67 Other liabilities and subordinated notes and debentures	9,040	8,753	8,660	8,514	8,832	8,737	8,779	8,571	8,489
	118,212	116,805	117,186	116,567	117,472	116,647	119,678	116,813	116,135
	109,912	108,477	108,938	108,271	109,254	108,521	111,570	108,796	108,150
	6,171	6,179	6,117	6,157	6,058	6,022	6,012	5,945	5,891
	36	41	40	39	37	37	41	41	41
	1,883	1,906	1,902	1,900	1,929	1,877	1,856	1,856	1,870
	209	202	189	199	194	189	199	175	182
	62,600	66,092	66,347	67,419	72,464	69,674	76,139	79,253	70,446
	0	0	0	1,000	0	0	0	6,232	0
	411	747	1,691	2,534	2,045	2,640	3,040	4,688	4,638
	62,188	65,345	64,656	63,885	70,419	67,033	73,099	68,332	65,807
67 Other liabilities and subordinated notes and debentures	32,726	31,796	35,205	36,532	37,171	38,050	35,298	37,610	36,612
	276,265	268,952	276,876	274,433	291,074	277,859	298,730	290,143	277,201
69 Residual (total assets minus total liabilities) ⁹	25,100	25,408	25,191	25,309	25,700	25,916	25,580	25,541	25,362
MEMO 70 Total loans and leases (gross) and investments adjusted ^{2,10} 71 Total loans and leases (gross) adjusted ¹⁰ 72 Time deposits in amounts of \$100,000 or more 73 U.S. Treasury securities maturing in one year or less	215,242	214,575	218,856	218,241	223,623	222,486	226,484	224,995	220,317
	179,972	178,809	183,045	182,369	187,644	186,348	190,180	188,675	183,360
	39,934	39,178	39,619	39,666	39,617	39,215	39,628	38,643	38,116
	2,301	2,611	2,891	2,897	2,683	2,394	2,516	2,524	2,644

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

^{7.} Includes trading account securities.

8. Includes federal funds purchased and securities sold under agreements to repurchase.

9. Not a measure of equity capital for use in capital adequacy analysis or for other analytic uses.

10. Exclusive of loans and federal funds transactions with domestic commercial banks.

1.30 LARGE WEEKLY REPORTING U.S. BRANCHES AND AGENCIES OF FOREIGN BANKS¹ Assets and Liabilities

Millions of dollars, Wednesday figures

			. ,		1990				
Account	July 4'	July 11'	July 18'	July 25'	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29
Cash and due from depository institutions Total loans and securities	13,731	14,202	13,810	14,408	13,975	15,706	14,755	15,019	14,262
	156,844	156,591	156,167	155,717	154,212	157,005	158,374	160,027	158,445
securities	10,198	10,112	10,166	10,642	10,629	10,189	10,524	10,591	10,258
	7,192	7,203	7,061	7,160	7,217	7,292	7,263	7,272	7,266
	9,041	10,376	8,369	8,771	7,157	7,994	8,053	8,418	8,267
6 To commercial banks in the United States. 7 To others	7,740	9,310	7,053	7,674	6,126	6,788	6,996	7,264	7,290
	1,301	1,066	1,316	1,097	1,031	1,206	1,057	1,154	977
	130,413	128,900	130,571	129,144	129,209	131,530	132,534	133,746	132,654
	77,378	75,817	76,484	75,167	75,351	75,773	77,540	77,064	76,032
10 Bankers acceptances and commercial paper	2,648	2,435	2,108	1,995	2,129	2,234	2,282	2,149	2,358
	74,730	73,382	74,376	73,172	73,222	73,539	75,258	74,915	73,674
12 U.S. addressees 13 Non-U.S. addressees 14 Loans secured by real estate ³ 15 To financial institutions	73,382	72,089	73,047	71,860	71,908	72,212	73,913	73,531	72,340
	1,348	1,293	1,329	1,312	1,314	1,327	1,345	1,384	1,334
	23,450	23,569	23,684	23,831	24,061	24,169	24,149	24,214	24,276
To financial institutions Commercial banks in the United States. Banks in foreign countries Nonbank financial institutions	26,053	26,019	26,342	26,476	26,465	27,580	26,425	27,237	27,831
	19,983	19,714	20,240	20,534	20,504	21,457	20,239	20,918	20,839
	1,232	1,353	1,244	1,117	1,028	1,163	1,320	1,503	1,923
	4,838	4,952	4,858	4,825	4,933	4,960	4,866	4,816	5,069
To foreign governments and official institutions For purchasing and carrying securities All other ³	225	223	212	212	208	227	209	208	214
	1,704	1,456	2,178	1,831	1,663	2,174	2,887	3,473	2,892
	1,603	1,816	1,671	1,627	1,461	1,607	1,324	1,550	1,409
22 Other assets (claims on nonrelated parties) 23 Net due from related institutions	34,000	33,561	33,682	33,885	33,752	33,783	33,249	33,257	32,824
	14,918	14,218	14,180	12,423	17,175	15,693	19,522	14,844	14,157
	219,492	218,573	217,839	216,435	219,118	222,188	225,902	223,146	219,690
 Deposits or credit balances due to other than directly related institutions Transaction accounts and credit balances⁴ . Individuals, partnerships, and 	50,005	49,923	50,233	49,155	48,819	49,237	49,467	49,701	48,813
	4,207	4,014	4,323	3,999	4,348	4,332	4,465	4,321	4,125
corporations	2,818	2,729	2,820	2,717	2,840	2,778	2,864	2,908	2,796
	1,389	1,285	1,503	1,282	1,508	1,554	1,601	1,413	1,329
	45,798	45,909	45,910	45,156	44,471	44,905	45,002	45,380	44,688
30 Individuals, partnerships, and corporations	38,199	38,086	38,124	37,154	36,600	36,614	36,241	35,968	35,812
	7,599	7,823	7,786	8,002	7,871	8,291	8,761	9,412	8,876
related institutions	108,974	108,563	111,500	106,600	111,850	112,504	116,905	114,867	109,576
	52,086	51,954	53,016	50,036	56,535	51,947	56,843	53,245	49,921
United States	25,766	23,474	26,559	23,895	29,059	25,886	32,304	27,323	25,291
	26,320	28,480	26,457	26,141	27,476	26,061	24,539	25,922	24,630
	56,888	56,609	58,484	56,564	55,315	60,557	60,062	61,622	59,655
United States	32,319	32,032	32,432	32,542	31,749	33,314	34,374	33,980	33,679
	24,569	24,577	26,052	24,022	23,566	27,243	25,688	27,642	25,976
	32,970	32,750	32,865	32,737	33,773	33,273	33,996	33,118	32,946
40 Net due to related institutions	27,542	27,337	23,239	27,943	24,674	27,174	25,532	25,460	28,354
	219,492	218,573	217,839	216,435	219,118	222,188	225,902	223,146	219,690
42 Total loans (gross) and securities adjusted	129,121	127,567	128,874	127,509	127,582	128,760	131,139	131,845	130,316
	111,731	110,252	111,647	109,707	109,736	111,279	113,352	113,982	112,792

^{1.} Effective Jan. 4, 1989, the reporting panel includes a new group of large U.S. branches and agencies of foreign banks. Earlier data included 65 U.S. branches and agencies of foreign banks that included those branches and agencies with assets of \$750 million or more on June 30, 1980, plus those branches and agencies that had reached the \$750 million asset level on Dec. 31, 1984. These data also appear in the Board's H.4.2 (504) release. For address, see inside front cover.

2. Includes securities purchased under agreements to resell.

3. Effective Jan. 4, 1989, loans secured by real estate are being reported as a

separate component of Other loans, gross. Formerly, these loans were included in "All other", line 21.

4. Includes credit balances, demand deposits, and other checkable deposits.

5. Includes savings deposits, money market deposit accounts, and time

deposits.

6. Includes securities sold under agreements to repurchase.

7. Exclusive of loans to and federal funds sold to commercial banks in the United States.

Domestic Financial Statistics □ November 1990

1.31 GROSS DEMAND DEPOSITS Individuals, Partnerships, and Corporations¹

Billions of dollars, estimated daily-average balances, not seasonally adjusted

					Commer	cial banks				
Type of holder	1985	1986	1987	1988		19	189		19	990
	Dec.	Dec.	Dec.	ec. Dec. M		June	Sept.	Dec.	Mar.	June
l All holders—Individuals, partnerships, and corporations.	321,0	363.6	343.5	354.7	330.4	329.3	337.3	352.2	328.7	334.3'
2 Financial business	32.3 178.5 85.5 3.5 21.2	41.4 202.0 91.1 3.3 25.8	36.3 191.9 90.0 3.4 21.9	38.6 201.2 88.3 3.7 22.8	36.3 182.2 87.4 3.7 20.7	33.0 185.9 86.6 2.9 21.0	33.7 190.4 87.9 2.9 22.4	33.8 202.5 90.3 3.1 22.5	34.1 183.3 86.6 3.0 21.7	34.9 ^r 186.5 ^r 86.4 ^r 3.1 ^r 23.5 ^r
				,	Weekly rep	orting bank	s		-	
	1985	1986	1987	1988		19	989		19	990
	Dec.	Dec.	Dec.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June
7 All holders—Individuals, partnerships, and corporations	168.6	195.1	183.8	198.3	181.9	182.2	186.6	196.7	183.7	186.3
8 Financial business 9 Nonfinancial business 10 Consumer 11 Foreign. 12 Other	25.9 94.5 33.2 3.1 12.0	32.5 106.4 37.5 3.3 15.4	28.6 100.0 39.1 3.3 12.7	30.5 108.7 42.6 3.6 12.9	27.2 98.6 41.1 3.3 11.7	25.4 99.8 42.4 2.9 11.7	26.3 101.6 43.0 2.8 12.9	27.6 108.8 44.1 3.0 13.2	25.6 100.1 42.4 2.8 12.8	25.0 101.7 43.3 2.9 13.3

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, — 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.

3. Beginning March 1988, these data reflect a change in the panel of weekly reporting banks, and are not comparable to earlier data. Estimates in billions of dollars for December 1987 based on the new weekly reporting panel are: financial business, 29.4; nonfinancial business, 105.1; consumer, 41.1; foreign, 3.4; other, 13.1.

^{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 dollars 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

business, 24.4; nonnnancial business, 60.7; consumer, 30.7; acception 9.5.

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.

1.32 COMMERCIAL PAPER AND BANKERS DOLLAR ACCEPTANCES OUTSTANDING

Millions of dollars, end of period

	1985	1986	1987	1988	1989			19	90		
Instrument	Dec.	Dec.	Dec.	Dec.	Dec.	Feb.	Mar.	Apr.	May	June'	July
			Соп	nmercial pa	per (seasor	nally adjuste	d unless n	oted otherw	/ise)		
1 All issuers	298,779	329,991	358,056	457,297	529,055	540,148	546,786	544,481	538,686	537,023	545,849
Financial companies 1 Dealer-placed paper 2 Total	78,443	101,072	102,844	160,094	187,084	185,391	184,097	185,107	186,155	191,463	199,466
3 Bank-related (not seasonally adjusted) Directly placed paper 4 Total 5 Bank-related (not seasonally	1,602	2,265 151,820	1,428	1,248	n.a. 212,210	n.a. 215,650	n.a. 215,501	n.a. 213,843	n.a. 209,203	n.a. 202,101	n.a. 202,829
5 Bank-related (not seasonally adjusted) ³	44,778 85,016	40,860 77,099	43,173 81,232	43,155 102,666	n.a. 129,761	n.a. 139,107	n.a. 147,188	n.a. 145,531	n.a. 143,328	n.a. 143,459	n.a. 143,554
				Bankers d	ollar accep	tances (not	seasonally	adjusted) ⁶			
7 Total	68,413	64,974	70,565	66,631	62,972	57,852	55,865	53,945	54,766	53,750	52,006
Holder 8 Accepting banks 9 Own bills 10 Bills bought Federal Reserve Banks	11,197 9,471 1,726	13,423 11,707 1,716	10,943 9,464 1,479	9,086 8,022 1,064	9,433 8,510 924	10,351 8,907 1,444	9,574 8,386 1,188	9,200 7,850 1,350	9,000 7,632 1,368	9,972 8,639 1,332	9,628 8,395 1,233
11 Own account	0 937 56,279	0 1,317 50,234	0 965 58,658	0 1,493 56,052	0 1,066 52,473	0 1,123 46,379	1,180 45,111	0 1,141 43,604	0 1,291 44,475	0 1,507 42,271	0 1,571 40,806
Basis 14 Imports into United States	15,147 13,204 40,062	14,670 12,960 37,344	16,483 15,227 38,855	14,984 14,410 37,237	15,651 13,683 33,638	14,522 12,567 30,764	14,418 12,161 29,286	13,413 12,610 27,922	13,993 12,727 28,046	14,801 12,511 26,438	13,691 12,186 26,129

I. 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.
 2. Includes all financial company paper sold by dealers in the open market.
 3. Beginning January 1989, bank-related series have been discontinued.
 4. As reported by financial companies that place their paper directly with investors.

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

Percent per year

Date of change	Rate	Period	Average rate	Period	Average rate	Period	Average rate
1987— Apr. 1	7.75 8.00 8.25 8.75 9.25 9.20 8.75 8.75 9.00 8.75 8.50 9.50 10.60 11.50 11.00 11.50 10.50	1987 1988 1989 1987— Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	8.21 9.32 10.87 7.50 7.50 7.50 7.75 8.14 8.25 8.25 8.25 8.27 9.07 8.75 8.75	1988 — Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. 1989 — Jan. Feb. Mar. Apr. May May May May May May May May May	8.75 8.51 8.50 8.80 9.00 9.29 9.84 10.00 10.05 10.50 10.50 11.50 11.50	1989— June July Aug. Sept. Oct. Nov. Dec. 1990— Jan. Feb. Mar. Apr. May June July Aug. Sept.	11.07 10.98 10.50 10.50 10.50 10.50 10.50 10.50 10.00 10.00 10.00 10.00 10.00 10.00

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

investors.

^{5.} Includes public utilities and firms engaged primarily in such activities as communications, construction, manufacturing, mining, wholesale and retail trade, transportation, and services.

6. Beginning January 1988, the number of respondents in the bankers acceptance survey were reduced from 155 to 111 institutions—those with \$100 million or more in total acceptances. The panel is revised every January and currently has about 100 respondents. The current reporting group accounts for over 90 percent of total acceptances activity. of total acceptances activity.

1.35 INTEREST RATES Money and Capital Markets

Averages, percent per year; weekly, monthly and annual figures are averages of business day data unless otherwise noted.

	4000	4040						1990	•			
Instrument	1987	1988	1989	May	June	July	Aug.	Aug. 3	Aug. 10	Aug. 17	Aug. 24	Aug. 31
Money Market Rates												
Federal funds ^{1,2} Discount window borrowing ^{1,2,3} Commercial paper ^{4,3} 1-month	6.66 5.66	7.57 6.20	9,21 6.93	8.18 7.00	8.29 7.00	8.15 7.00	8.13 7.00	8.03 7.00	8.07 7.00	8,13 7.00	8.30 7.00	8.08 7.00
4 3-month	6.74 6.82 6.85	7.58 7.66 7.68	9,11 8,99 8,80	8.24 8.25 8.23	8.21 8.14 8.06	8.09 7.99 7.90	7.99 7.88 7.77	7.89 7.78 7.67	7.92 7.77 7.64	8.01 7.85 7.71	8.07 7.98 7.90	8.03 7.96 7.89
Finance paper, directly placed ^{4,5} 6 1-month	6.61 6.54	7.44 7.38	8.99 8.72	8.14 8.12	8.12 8.01	7.99 7.87	7.88 7.69	7.79	7.78	7.89 7.68	7.95 7.79	7.94 7.78
7 3-month 8 6-month Bankers acceptances ^{5,6}	6.37	7.14	8.16	8.04	7.79	7.66	7.46	7.62	7,57	7.38	7.53	7.56
9 3-month 10 6-month Certificates of deposit, secondary market ⁷	6.75 6.78	7.56 7.60	8.87 8.67	8.12 8.08	8.00 7.89	7.86 7.73	7,75 7.64	7.62 7.46	7.65 7.51	7.75	7.90 7.83	7.80 7.73
1 -month 1 -month 12 3-month 13 6-month 14 Eurodollar deposits, 3-month ⁸ U.S. Treasury bills 15 15 15 15 15 15 15 1	6.75 6.87 7.01 7.07	7.59 7.73 7.91 7.85	9.11 9.09 9.08 9.16	8.25 8.35 8.48 8.35	8.20 8.23 8.28 8.23	8.09 8.10 8.12 8.09	7.98 7.97 7.99 7.99	7.90 7.89 7.89 7.91	7.90 7.87 7.87 7.88	7.97 7.94 7.93 7.91	8.08 8.09 8.13 8.04	8.02 8.04 8.10 8.14
Secondary market Secondary m	5.78 6.03 6.33	6.67 6.91 7.13	8.11 8.03 7.92	7.74 7.76 7.73	7.73 7.63 7.53	7.62 7.52 7.40	7.45 7.38 7.26	7.43 7.29 7.16	7.37 7.29 7.18	7.45 7.37 7.22	7.54 7.49 7.39	7.46 7.44 7.32
Auction average	5.82 6.05 6.33	6.68 6.92 7.17	8.12 8.04 7.91	7.78 7.82 8.05	7.74 7.64 7.65	7.66 7.57 7.52	7.44 7.36 7.37	7.50 7.37 7.34	7.23 7.19 n.a.	7.41 7.31 n.a.	7.55 7.45 n.a.	7.49 7.48 7.40
CAPITAL MARKET RATES					}			}	}			
U.S. Treasury notes and bonds ¹¹ Constant maturities ¹² 21 1-year	6.77	7.65	8.53	8,32	8.10	7.94	7.78	7.67	7.70	7.73	7.93	7,85
22 2-year 23 3-year 24 5-year 25 7-year 26 10-year	7.42 7.68 7.94 8.23 8.39	8.10 8.26 8.47 8.71 8.85	8.57 8.55 8.50 8.52 8.49	8.64 8.69 8.74 8.78 8.76	8.35 8.40 8.43 8.52 8.48	8.16 8.26 8.33 8.46 8.47	8.06 8.22 8.44 8.64 8.75	7.88 8.01 8.12 8.28 8.37	7.98 8.15 8.36 8.60 8.72	8.00 8.15 8.39 8.60 8.71	8.23 8.38 8.62 8.81 8.92	8.16 8.33 8.56 8.79 8.88
27 30-year . Composite ¹³ 28 Over 10 years (long-term)	8,59 8.64	8,96 8.98	8.45 8.58	8.73 8.90	8.46 8.62	8.50 8.64	8.86 8.97	8.44 8.54	8.82 8.93	8.84 8.96	9.03 9.14	9.00
29 Aaa 30 Baa 31 Bond Buyer series 15	7.14 8.17 7.63	7.36 7.83 7.68	7.00 7.40 7.23	6.97 7.37 7.35	6,88 7,11 7,24	6,96 7,13 7,19	6.99 7.21 7.32	6.90 7.08 7.08	6.95 7.12 7.22	6.95 7.25 7.26	6.97 7.13 7.56	7.19 7.47 7.47
Seasoned issues 6 32 All industries 33 Aaa 34 Aa 35 A 36 Baa 39	9,91 9,38 9,68 9,99 10,58	10.18 9.71 9.94 10.24 10.83	9.66 9.26 9.46 9.74 10.18	9.87 9.47 9.70 9.89 10,41	9.67 9.26 9.49 9.70 10.22	9.65 9.24 9.47 9.69 10.20	9.84 9.41 9.63 9.89 10.41	9.59 9.19 9.41 9.64 10.14	9.77 9.34 9.56 9.84 10.34	9.80 9.37 9.63 9.85 10.36	9.94 9.50 9.71 9.99 10.54	9.98 9.56 9.75 10.03 10.56
37 A-rated, recently offered utility bonds ¹⁷ MEMO: Dividend/price ratio 18	9.96	10.20	9.79	10.04	9.85	9.96	10.29	10.07	10.22	10.34	10.50	10.31
MEMO: Dividend/price ratio* 38 Preferred stocks Common stocks	8.37 3.08	9.23 3.64	9.05 3.45	9.04 3.44	9.01 3.36	8.94 3.37	8,97 3,65	8.90 3.43	8.99 3.61	8.87 3.59	9.05 3.85	9.02 3.76

- 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, monthly and annual 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 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.

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

	400	1000	4000	1989				19	90			
Indicator	1987	1988	1989	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
		,		Pr	ices and t	rading (av	erages of	daily figure	es)			
Common stock prices 1 New York Stock Exchange (Dec. 31, 1965 = 50) 2 Industrial 3 Transportation 4 Utility 5 Finance 6 Standard & Poor's Corporation (1941-43 = 10) 7 American Stock Exchange (Aug. 31, 1973 = 50) ²	161.78 195.31 140.52 74.29 146.48 287.00	149.97 180.83 134.09 72.22 127.41 265.88	180.13 228.04 174.90 94.33 162.01 323.05	192.67 230.12 177.25 99.73 155.63 348.57	187.96 225.79 173.67 95.69 150.11 339.97	182.55 220.60 166.69 92.15 142.68 330.45	186.26 226.14 175.08 92.99 143.14 338.47	185.61 226.86 173.54 91.92 138.57 338.18	191.35 234.85 173.53 93.29 142.94 350.25	196.68 242.42 177.37 93.65 147.93 360.39	196.61 245.86 173.18 89.85 143.11 360.03	181.45 226.73 147.41 85.81 128.14 330.75
Volume of trading (thousands of shares) 8 New York Stock Exchange 9 American Stock Exchange	188,922 13,832	161,386 9,955	165,568 13,124	160,671 13,298	172,420 14,831	155,960 13,735	149,240 15,133	140,062 13,961	163,486 14,005	153,634 12,421	160,490 12,529	174,446 15,881
			Cu	stomer fin	ancing (en	d-of-perio	d balances	, in millio	ns of dolla	ars)		
10 Margin credit at broker-dealers ³	31,990	32,740	34,320	34,320	32,640	31,480	30,760	31,060	31,600	31,720	32,130	30,350
Free credit balances at brokers ⁴ 11 Margin-account ⁵ 12 Cash-account	4,750 15,640	5,660 16,595	7,040 18,505	7,040 18,505	6,755 17,370	6,575 16,200	6,525 16,510	6,465 15,375	6,215 15,470	6,490 15,625	6,385 17,035	7,140 16,745
			Ma	rgin requi	rements (p	percent of	market va	lue and ef	fective da	te) ⁶		
	Mar. 1	1, 1968	June 8	, 1968	May 6	, 1970	Dec. 6	, 1971	Nov. 2	4, 1972	Jan. 3	, 1974
13 Margin stocks 14 Convertible bonds 15 Short sales	5	70 50 70		80 60 80		6.5 50 6.5		55 50 55		65 50 65		0 0 0

1. Effective July 1976, includes a new financial group, banks and insurance companies. With this change the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40 financial.

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

"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 X, effective Nay 1, 1936; Regulation G, effective Mar. 11, 1985; 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.

A26 Domestic Financial Statistics □ November 1990

1.37 SELECTED FINANCIAL INSTITUTIONS Selected Assets and Liabilities

Millions of dollars, end of period

	1007	1000		19	89				19	90		
Account	1987	1988	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
						SAIF-insure	d institution	s				
1 Assets	1,250,855	1,350,500	1,298,682	1,286,710	1,277,191	1,249,055	1,236,543	1,225,221	1,223,365	1,210,424	t	†
2 Mortgages	į .	764,513	755,427	748,780	745,091	733,729′	727,527	721,513 ^r	717,687′	715,488		
securities 4 Contra-assets to	201,828	214,587	188,493	181,464	176,386	170,532	169,459	167,303 ^r	167,692	166,164		
mortgage assets ¹ . 5 Commercial loans	42,344 23,163 57,902	37,950 33,889 61,922	27,085 32,936 60,405	25,950 32,572 59,722	24,976 32,344 59,372	25,457' 32,150' 58,685'	24,161 ^r 31,919 ^r 57,303 ^r	22,815 ^r 31,777 ^r 56,804 ^r	23,093' 31,072' 56,785'	21,978 30,932 56,623		
mortgage loans ² . 8 Cash and investment	3,467	3,056	3,129	3,107	3,194	3,592	2,218′	2,248	2,432 ^r	2,230		
securities 9 Other	169,717 122,462	186,986 129,610	169,526 122,109	172,727 120,501	172,465 119,704	166,053′ 116,955′	160,513' 116,201'	157,307 115,580	162,304 ^r 113,349 ^r	153,349 112,077	n.a.	n.a.
10 Liabilities and net worth .	1,250,855	1,350,500	1,298,682	1,286,710	1,277,191	1,249,055'	1,236,543	1,225,221	1,223,365	1,210,424		
11 Savings capital	932,616 249,917 116,363 133,554 21,941	971,700 299,400 134,168 165,232 24,216	958,901 281,684 133,633 148,051 29,742	948,500 275,979 130,514 145,465 30,971	946,655 268,462 127,671 140,791 31,991	945,656' 252,230' 124,577' 127,653' 27,556'	933,842' 252,942' 121,732 131,210' 26,988'	926,436' 248,034' 120,633 127,401' 28,116'	929,912 ^r 246,875 ^r 117,489 ^r 129,386 ^r 26,003 ^r	916,058 246,647 115,620 131,027 27,340		
16 Net worth	n.a.	n.a.	28,355	31,260	30,083 SAIF-	23,612' insured fede	23,051 ^r eral savings	22,637' banks	20,575′	20,393	V	
17 Assets	284,270	425,966	500,937	502,484	499,995	498,522	497,412	489,113	4	4	4	4
18 Mortgages	161,926	230,734	283,162	283,652	282,510	283,844	280,922	275,727				
securities 20 Contra-assets to	45,826	64,957	72,478	72,332	71,204	70,499	70,386	69,740				
mortgage assets ¹ . 21 Commercial loans	9,100 6,504 17,696	13,140 16,731 24,222	13,801 18,256 28,762	13,506 18,299 28,322	13,216 18,172 28,079	13,548 18,143 28,212	10,234 18,470 28,509	9,503 18,079 26,517				
mortgage loans ² . 24 Finance leases plus	678	889	1,073	1,048	1,082	1,193	620	634				
interest	591 35,347 24,069	880 61,029 35,412	1,092 64,073 40,659	1,085 65,193 40,799	1,092 65,191 40,852	1,101 64,538 39,981	n.a. 62,730 40,317	n.a. 61,767 40,710	n.a.	n.a.	n.a.	n.a.
27 Liabilities and net worth .	284,270	425,966	500,937	502,484	499,995	498,522	497,412	489,113				
28 Savings capital 29 Borrowed money 30 FHLBB 31 Other 32 Other 33 Net worth	203,196 60,716 29,617 31,099 5,324 15,034	298,197 99,286 46,265 53,021 8,075 20,218	353,474 115,627 57,941 57,686 9,904 25,952	355,923 114,231 57,793 56,438 10,317 25,983	355,874 111,369 56,842 54,527 10,749 25,958	360,547 108,448 57,032 51,416 9,041 22,716	360,285 109,028 55,862 53,166 9,885 17,810	353,385 106,237 55,081 51,156 10,330 18,827				

1.37—Continued

A	1987	1988		19	89				19	90		
Account	1987	1988	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
						Credit	unions ⁴					
34 Total assets/liabilities and capital	†	174,593	181,812	181,527	182,856	183,688	183,301	186,119	192,718	193,208	195,020	†
35 Federal		114,566 60,027	118,746 63,066	118,887 62,640	119,682 63,174	120,666 63,022	120,489 62,812	122,885 63,234	126,690 66,028	127,250 65,958	128,648 66,372	
37 Loans outstanding	n.a.	113,191 73,766 39,425 159,010 104,431 54,579	122,522 80,548 41,874 164,050 106,633 57,417	122,997 80,570 42,427 164,695 107,588 57,107	122,899 80,601 42,298 165,533 108,319 57,214	122,608 80,272 42,336 167,371 109,653 57,718	122,332 80,041 42,291 166,629 109,818 56,811	121,968 79,715 42,253 168,609 111,246 57,363	121,660 79,407 42,253 175,942 115,714 60,228	122,616 80,205 42,411 175,745 115,554 60,191	123,205 80,550 42,655 176,701 116,402 60,299	n.a.
			<u> </u>		I.	ife insuranc	ce companie	es .			l	
43 Assets	1,044,459	1,166,870	1,266,773	1,276,181	1,289,467	1,303,691	t	t	+	t	†	t
Securities	84,426 57,078 10,681 16,667 569,199 472,684 96,515 203,545 34,172 53,626 89,586	84,051 58,564 9,136 16,351 660,416 556,043 104,373 232,863 37,371 54,236 93,358	82,867 56,684 9,037 17,146 742,537 621,856 120,681 240,189 38,942 56,403 105,835	83,727 57,726 9,019 16,982 748,075 628,695 119,380 242,391 39,343 56,727 105,918	83,609 57,290 9,280 17,039 758,803 637,690 121,113 243,728 39,339 56,916 107,072	84,381 58,169 9,191 17,021 777,415 642,445 134,970 246,345 39,368 57,141 110,284	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

1. Contra-assets are credit-balance accounts that must be subtracted from the corresponding gross asset categories to yield net asset levels. Contra-assets to mortgage loans, contracts, and pass-through securities include loans in process, unearned discounts and deferred loan fees, valuation allowances for mortgages "held for sale," and specific reserves and other valuation allowances.

2. Contra-assets are credit-balance accounts that must be subtracted from the corresponding gross asset categories to yield net asset levels. Contra-assets to nonmortgage loans include loans in process, unearned discounts and deferred loan fees, and specific reserves and valuation allowances.

3. Holding of stock in Federal Home Loan Bank and Finance leases plus interest are included in "Other" (line 9).

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. SAIF-insured institutions: Estimates by the OTS for all institutions insured by the SAIF and based on the OTS thrift Financial Report.

SAIF-insured federal savings banks: Estimates by the OTS for federal savings banks insured by the SAIF and based on the OTS thrift Financial Report.

Credit unions: Estimates by the National Credit Union Administration for federally chartered and federally insured state-chartered credit unions serving natural persons.

rederally chartered and tederally 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."

As of June 1989 Savings bank data are no longer available.

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1.38 FEDERAL FISCAL AND FINANCING OPERATIONS

Millions of dollars

						Calend	lar year		
Type of account or operation	Fiscal year 1987	Fiscal year 1988	Fiscal year 1989			19	90		
				Mar.	Apr.	May	June	July	Aug.
U.S. budget 1 Receipts, total 2 On-budget 3 Off-budget 4 Outlays, total 5 On-budget 6 Off-budget 7 Surplus, or deficit (-), total 8 On-budget 9 Off-budget Source of financing (total) 10 Borrowing from the public 11 Operating cash (decrease, or increase (-)) 2 Other 2	809,998	908,166 666,675 241,491 1,063,318 860,627 202,691 -155,152 -193,952 38,800 166,139 -7,962 -3,025	990,701 727,035 263,666 1,142,714' 931,493' 211,221 -152,013' -204,458' 52,445 140,811 3,425 7,777'	64,819 38,990 25,829 118,165 97,642 20,523 -53,346 -58,652 5,306 56,090 1,123 -3,867	139,624 106,775 32,849 97,865 79,749 18,116 41,760 27,027 14,733	69,212 45,514 23,698 111,769 91,818 19,951 -42,558 -46,305 3,747 23,380 25,594 -6,416	110,614 83,717 26,897 121,747' 105,787' 15,960 -11,133' -22,070' 10,937 23,520 -20,916 8,529'	72,357 50,446 21,911 98,291 79,844 18,447 -25,934 -29,398 3,464 24,230' 9,862 -8,158'	78,486 56,284 22,202 131,240 89,751 41,489 -52,754 -33,467 -19,287 47,329 2,433 2,992
MEMO 13 Treasury operating balance (level, end of period) 14 Federal Reserve Banks. 15 Tax and loan accounts	36,436 9,120 27,316	44,398 13,023 31,375	40,973 13,452 27,521	18,466 4,832 13,634	39,296 5,205 34,091	13,702 4,426 9,276	34,618 5,470 29,148	24,756 6,369 18,387	22,323 4,453 17,869

^{1.} 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.

2. 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. Sources. 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

						Calendar yea	r		
Source or type	Fiscal year 1988	Fiscal year 1989	1988	19	989	1990		1990	
			Н2	Н1	H2	Н1	June	July	Aug.
Receipts									
1 All sources	908,166	990,701	449,330	527,574	470,329	548,977	110,614	72,357	78,486
2 Individual income taxes, net	401,181 341,435 33 132,199	445,690 361,386 32 154,839	200,300 179,600 4 29,880	233,572 174,230 28 121,563	218,661 193,296 3 33,303	243,529 190,219 30 118,241	49,639 31,469 5 19,573	33,290 32,211 31 2,783	36,434 34,610 -29 3,451
6 Refunds	72,487 109,683	70,567	9,186 56,409	62,251 61,585	7,943 52,269	64,962 58,830	1,408	1,734 3,364	1,598 2,564
8 Refunds	15,487	13,723	7,250	7,259	6,842	8,326	944	1,307	956
net	334,335 305,093	359,416 332,859	157,603 144,983	200,127 184,569	162,574 152,407	210,476 195,269	34,326 33,694	29,610 27,554	32,047
11 Self-employment taxes and contributions ³	17,691 24,584	18,504 22,011	3,032 10,359	16,371 13,279	1,947 7,909	19,017 12,929	2,934 252	0 1,701	0 3,712
13 Other net receipts ⁴	4,659 35,604	4,547 34,386	2,262 19,299	2,277 16,814	2,260 16,844	2,278	380 3,566	355	2,745
15 Customs deposits. 16 Estate and gift taxes. 17 Miscellaneous receipts ⁵	15,411 7,594 19,909	16,334 8,745 22,839	8,107 4,054 10,809	7,918 4,583 10,235	8,667 4,451 13,703	8,096 6,442 11,742	1,387 852 2,276	1,505 924 1,917	1,627 883 3,142
OUTLAYS		Į .					ĺ		
18 All types	1,063,318	1,142,714"	552,726	565,422	587,656 ^r	641,269'	121,747	98,291	131,240
National defense International affairs General science, space, and technology Energy Natural resources and environment. Agriculture	290,361 10,471 10,841 2,297 14,625 17,210	303,551 9,596 12,891 3,745 16,084 16,948	150,496 2,627 5,852 1,966 9,072 6,911	148,098 6,567 6,238 2,221 7,022 9,619	149,613 6,029 7,091 1,597 9,183 4,132	152,733 6,770 6,974 1,504 7,343 7,450	27,870 578 1,253 230 1,233 170	22,717 28 1,283 211 1,375 417	28,664 1,039 1,333 207 1,388 98
25 Commerce and housing credit	18,828 27,272 5,294	27,810 27,623 5,755	19,836 14,922 2,690	4,129 12,953 1,833	22,295 ^r 14,982 4,879	38,788 13,754 3,987	17,880 2,421 552	5,142 2,683 606	3,045 2,734 614
social services	31,938	35,697	16,162	18,083	18,663	19,537	3,092	2,198	3,417
29 Health	44,490 297,828 129,332	48,391 317,506 136,765	23,360 149,017 64,978	24,078 162,195 70,937	25,339 162,322 67,950	29,488 175,997 78,456	5,249 32,538 11,023	5,103 30,226 11,786	5,585 49,891 13,475
32 Veterans benefits and services 33 Administration of justice 34 General government 35 General-purpose fiscal assistance 36 Net interest 37 Undistributed offsetting receipts 37	29,406 8,436 9,518 1,816 151,748 -36,967	30,066 9,396 8,940 n.a. 169,314 -37,212	15,797 4,361 5,137 0 78,317 -18,771	14,891 4,801 3,858 0 86,009 ~18,131	14,864 4,963 4,760 n.a. 87,927 -18,935	15,217 4,983 4,916 n.a. 91,155 ~17,688	3,742 859 1,388 n.a. 14,493 -2,730	1,269 921 807 n.a. 15,153 -3,634	3,624 866 691 n.a. 17,556 -2,987

^{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 Budget have not been fully distributed across months.
2. Old-age, disability, and hospital insurance, and railroad retirement accounts.
3. Old-age, disability, and hospital insurance.
4. Federal employee retirement contributions and civil service retirement and disability fund.

5. Deposits of earnings by reueral reserve Bailes and Solid. Black Perceipts.

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 1990.

disability fund.

^{5.} Deposits of earnings by Federal Reserve Banks and other miscellaneous

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1.40 FEDERAL DEBT SUBJECT TO STATUTORY LIMITATION

Billions of dollars

		1988			19		1990		
ltem	June 30	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31	June 30
Federal debt outstanding	2,555.1	2,614.6	2,707.3	2,763.6	2,824.0	2,881.1	2,975.5	3,081.9	3,175.5
2 Public debt securities. 3 Held by public. 4 Held by agencies	2,547.7 2,013.4 534.2	2,602.2 2,051.7 550.4	2,684.4 2,095.2 589.2	2,740.9 2,133.4 607.5	2,799.9 2,142.1 657.8	2,857.4 2,180.7 676.7	2,953.0 2,245.2 707.8	3,052.0 2,329.3 722.7'	3,143.8 2,368.8 ^r 775.0 ^r
5 Agency securities 6 Held by public	7.4 7.0 .5	12.4 12.2 .2	22.9 22.6 .3	22.7 22.3 .4	24.0 23.6 .5	23.7 23.5 .1	22.5 22.4 .1	29.9 29.8 .2	31.7 ^r 31.6 ^r .2 ^r
8 Debt subject to statutory limit	2,532.2	2,586.9	2,669.1	2,725.6	2,784.6	2,829.8	2,921.7	2,988.9	3,077.0
9 Public debt securities	2,532.1 .1	2,586.7	2,668.9 .2	2,725.5 .2	2,784.3 .2	2,829.5 .3	2,921.4 .3	2,988.6 .3	3,076.6 .4
11 Мемо: Statutory debt limit	2,800.0	2,800.0	2,800.0	2,800.0	2,800.0	2,870.0	3,122.7	3,122.7	3,122.7

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

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

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

Billions of dollars, end of period

The and holder	1007	1987	1000	1000	1989		19	90
Type and holder	1986	1987	1988	1989	Q3	Q4	QI	Q2
1 Total gross public debt	2,214.8	2,431.7	2,684.4	2,953.0	2,857.4	2,953.0	3,052.0	3,143.8
By type 2 Interest-bearing debt 3 Marketable. 4 Bills. 5 Notes. 6 Bonds. 7 Nonmarketable ¹ 8 State and local government series. 9 Foreign issues ² 10 Government. 11 Public 12 Savings bonds and notes. 13 Government account series ³	2,212.0 1,619.0 426.7 927.5 249.8 593.1 110.5 4.7 .0 90.6 386.9	2,428.9 1,724.7 389.5 1,037.9 282.5 704.2 139.3 4.0 .0 99.2 461.3	2,663.1 1,821.3 414.0 1,083.6 308.9 841.8 151.5 6.6 6.6 0 107.6 575.6	2,931.8 1,945.4 430.6 1,151.5 348.2 986.4 163.3 6.8 6.8 0. 115.7 695.6	2,836.3 1,892.8 406.6 1,133.2 338.0 943.5 158.6 6.8 6.8 0 114.0 663.7	2,931.8 1,945.4 430.6 1,151.5 348.2 986.4 163.3 6.8 6.8 .0 115.7 695.6	3,029.5 1,995.3 453.1 1,169.4 357.9 1,034.2 163.5 37.1 37.1 0 118.0 705.1	3,121.5 2,028.0 453.5 1,192.7 366.8 1,093.5 164.3 36.4 36.4 0 120.1 758.7
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 Individuals 23 Savings bonds 24 Other securities 25 Foreign and international ⁵ 26 Other miscellaneous investors ⁶	403.1 211.3 1,602.0 203.5 28.0 105.6 68.8 262.8 92.3 70.4 263.4 506.6	477.6 222.6 1,731.4 201.5 14.6 104.9 84.6 284.6 101.1 71.3 299.7 569.1	589.2 238.4 1,858.5 193.8 11.8 107.3 87.1 313.6 109.6 79.2 362.2 593.9	707.8 228.4 2,015.8 180.6 14.4 107.9 93.8 337.1 117.7 93.8 393.4 674.3	676.7 220.6 1,958.3 174.8 12.9 105.8 93.5 332.2 115.7 93.5 394.6 632.4	707.8 228.4 2,015.8 180.6 14.4 107.9 93.8 337.1 117.7 93.8 393.4 674.3	722.77 219.3 2,115.1 182.0 31.3 108.0 95.0 338.0 119.9 95.0 386.9 754.9	775.0 231.4 n.a. n.a. n.a. n.a. n.a. n.a. 121.6 n.a. 392.7 n.a.

^{1.} Includes (not shown separately): Securities issued to the Rural Electrifica-tion Administration; depository bonds, retirement plan bonds, and individual

tion Administration; depository comes, returnment pain comes, and manifestal retirement bonds.

2. Nonmarketable dollar-denominated and foreign currency-denominated series 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 and the Treasury Bulletin.

1.42 U.S. GOVERNMENT SECURITIES DEALERS Transactions¹

Par value; averages of daily figures, in millions of dollars

Par value; averages of daily	ngutes,		is of dolla									
Item		1990						1990				
item	June	July	Aug.	July 4	July 11	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29
Immediate Transactions ²												
By type of security U.S. government securities 1 Bills	0	135,618	150,589	119,178	129,894	138,088	125,145	165,104	180,990	142,351	126,730	165,575
Coupon securities Maturing in less than 3.5 years Maturing in 3.5 to 7.5 years	0	124,839 119,918	162,366 120,685	88,882 92,141	92,887 113,869	155,363 158,472	126,754 101,401	151,200 123,264	254,307 182,708	144,551 109,405	131,341 105,121	146,503 100,355
4 Maturing in 7.5 to 15 years	0	45,979 69,519	67,972 76,686	30,854 48,648	45,445 79,579	53,610 89,930	42,822 52,709	52,395 68,094	103,473	80,974 98,123	50,396	52,945 52,514
6 Maturing in less than 3.5 years 7 Maturing in 3.5 to 7.5 years 8 Maturing in 7.5 years or more Mortgage-backed	0 0 0	22,963 3,382 5,019	19,543 2,772 3,894	24,422 3,193 2,771	17,902 2,379 7,395	24,191 3,606 6,228	21,329 4,679 3,762	28,705 2,877 3,793	18,522 3,483 4,451	16,011 3,303 4,372	17,029 2,788 3,673	22,775 2,087 3,761
9 Pass-throughs. 10 All others' By type of counterparty Primary dealers and brokers	0	35,119 7,323	34,383 6,981	26,151 5,497	45,196 7,845	30,744 7,566	28,734 5,987	42,700 9,407	32,996 7,954	33,747 6,791	36,272 7,184	36,023 6,544
11 U.S. government securities Federal agency	0 0 0	309,875 10,909 20,070	360,883 8,240 19,092	232,168 8,940 15,272	289,540 11,470 27,728	367,849 12,304 13,520	287,973 9,953 17,757	348,483 11,138 25,175	539,401 8,761 17,640	353,942 8,265 17,576	299,091 6,746 21,023	307,981 8,551 20,579
Customers 14 U.S. government securities Federal agency	0 0 0	185,997 20,455 22,372	217,415 17,969 22,272	147,535 21,446 16,376	172,134 16,206 25,313	227,614 21,721 24,790	160,858 19,817 16,964	211,574 24,237 26,932	297,591 17,695 23,310	221,462 15,421 22,962	174,663 16,744 22,433	209,911 20,072 21,988
Future and Forward Transactions ⁴				,	,		}			,	}	
By type of deliverable security U.S. government securities	0	14.707	22 895	0.020	12 505	12.224	17 700	10.742	41.054	14.016	20.132	21.121
17 Bills	0	14,786	22,805 8,400	9,079 3,761	13,585 5,601	13,324 9,623	17,709	18,743 7,380	41,056 12,096	14,016 7,893	20,133 6,399	21,121 9,282
19 Maturing in 3.5 to 7.5 years	0 0 0	3,078 4,140 30,248	3,405 6,829 50,736	3,731 3,160 22,320	3,249 5,425 27,383	4,117 3,749 37,757	2,550 4,037 27,594	1,738 3,886 33,704	4,284 10,686 71,756	2,633 6,898 54,946	2,984 5,654 45,408	4,476 6,031 43,631
Debt Maturing in less than 3.5 years	0 0 0	452 163 775	236 393 102	386 65 87	509 173 2,797	717 153 114	450 88 321	101 331 155	48 162 95	437 928 154	108 580 104	447 60 70
Mortgage-backed 25 Pass-throughs 26 All others	0	40,660 7,332	42,167 7,223	19,266 6,815	47,711 9,128	59,994 5,809	33,966 8,061	32,094 6,469	42,653 9,843	55,723 7,594	43,127 7,553	38,132 5,358
Option Transactions ⁶												
By type of underlying securities U.S. government securities		26		150							250	250
27 Bills	0	1,978	109	152	0	10	1 154	2 675	2 247	2 255	250	250
Maturing in less than 3.5 years	Ō	1,665	3,382 1,442	1,728	1,447 1,272	2,927 2,775	1,154	2,675 1,956	3,347 2,983	3,255 748	3,365 866	3,811 934
29 Maturing in 3.5 to 7.5 years	0	954 8,099	1,550 14,110	818 7,475	8,732	927 8,413	1,290 5,966	1,051 10,047	2,111 16,422	1,666 13,568	1,549 13,968	1,175 16,332
Maturing in less than 3.5 years	0	19 0	11 0	0	0	58 0	15	15	6	0	0	40 0
34 Maturing in 7.5 years or more Mortgage-backed	0	1Ĭ	35	0	0	0	50	0	Ö	50	80	0
35 Pass-throughs	0	2,394	2,600	1,565 0	3,437 0	2,896 0	1,515	2,183 0	3,162 0	3,409 0	2,745 0	1,802 0

^{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. Immediate, forward, and future transactions are reported at principal value, which does not include accrued interest; option transactions are reported at the face value of the underlying securities.

2. Transactions for immediate delivery include purchases or sales of securities (other than mortgage-backed agency securities) for which delivery is scheduled in five business days or less and "when-issued" securities that settle on the issue date of offering. Transactions for immediate delivery of mortgage-backed securities include purchases and sales for which delivery is scheduled in thirty days or less. Stripped securities are reported at market value by maturity of coupon or corpus.

^{3.} Includes securities such as CMOs, REMICs; IOs, and POs.

4. Futures transactions are standardized agreements arranged on an exchange. Forward transactions are agreements made in the over-the-counter market that specify delayed delivery. All futures transactions are included regardless of time to delivery. Forward contracts for U.S. government securities and federal agency debt securities are included when the time to delivery is more than five days. Forward contracts for mortgage-backed securities are included when the time to delivery is more than thirty days.

5. Options transactions are purchases or sales of put and call options, whether arranged on an organized exchange or in the over-the-counter market and include options on futures contracts on U.S. government and federal agency securities.

1.43 U.S. GOVERNMENT SECURITIES DEALERS Positions and Financing¹

Averages of daily figures, in millions of dollars

_		1990	. ,				*	1990	-			
Item	June	July	Aug.	July 4	July 11	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22	Aug. 29
					_	Posit	ions ²			•		
NET IMMEDIATE ³												
By type of security U.S. government securities												
1 Bills	0	3,032	0	646	-15	2,777	4,630	6,610	6,517	9,520	6,587	4,975
2 Maturing in less than 3.5 years 3 Maturing in 3.5 to 7.5 years	0	3,183 3,781	0 0 0	3,401 5,815	2,535 5,821	2,142 5,386	3,147 1,815	5,050 466	7,415 -1,681	6,879 -3,352	1,538 -4,255	6,286 -1,683
4 Maturing in 7.5 to 15 years	0	-6,018 -10,969	0	-4,665 -12,681	-5,798 -11,756	-5,507 -11,708	-6,578 -9,251	-7,117 -10,051	-4,837 -12,406	-5,312 -10,398	-5,178 -12,494	-7,079 -13,375
6 Maturing in less than 3.5 years 7 Maturing in 3.5 to 7.5 years	0	3,166 1,446	0	2,381 1,687	2,856 1,537	2,967 1,375	3,257 1,323	4,175 1,403	4,837 1,235	4,828 1,080	3,447 1,545	3,849 1,723
8 Maturing in 7.5 years or more	0	2,899	0	1,918	3,177	3,157	2,753	3,098	2,690	2,535	1,947	2,342
9 Pass-throughs 10 All others Other money market instruments	0	17,146 0	0	11,066	16,326 0	18,951 0	17,521 0	19,612 0	19,038 0	19,894 0	15,815 0	12,592 0
11 Certificates of deposit	0	2,877 6,146	0	2,290 4,877	2,632 6,015	2,785 6,961	2,791 5,133	3,761 7,375	3,436 9,049	2,795 7,846	2,879 5,984	3,180 6,541
12 Commercial paper	ŏ	1,030	ŏ	891	1,105	1,026	1,069	994	1,169	1,508	1,133	1,002
Future and Forward ⁵	•											
By type of deliverable security U.S. government securities	0	0 217		7.76	2 702	0 406	10.205	12.061	10.020	10.716	15 704	10.246
14 Bills	0	-8,317 -771	0	-7,266 -1,532	-2,792 -1,055	-8,495 -285	-10,205 -1,186	-13,051 -16	-18,829 -551	-18,715 -680	-15,794 -678	-10,246 -578
16 Maturing in 3.5 to 7.5 years	Ŏ O	-1,909 -798	0 0	-1,815 -1,579	-1,789 -910	-1,774 -880	-2,071 -181	-2,078 -769	-2,465 143	-1,865 137	-1,116 668	-1,659 565
18 Maturing in 15 years or more Federal agency securities Debt	0	-5,098	0	-4,558	-5,954	-4,823	-4,046	-6,006	-3,406	-2,508	-1,621	-1,928
Maturing in less than 3.5 years	0 0 0	-69 -104 162	0 0 0	186 19 57	-45 -133 766	-136 -143 -20	-147 -66 19	-99 -126 -17	45 -17 -42	148 282 -139	115 -2 6	397 70 47
Mortgage-backed 22 Pass-throughs	0	-11,755	0	-7,479 0	-12,184 0	-13,760 0	-11,847 0	-11,658 0	-8,732 0	-11,313	-6,190 0	-5,320 0
Other money market instruments 24 Certificates of deposit	0	35,615	0	53,686	40,137	37,568	24,023	29,540	43,378	33,875	63,054	55,075
25 Commercial paper	0	0	0	0	0	0	0	0	0	0	0	-13 0
						Finar	ncing ⁶				-	
Reverse repurchase agreements Overnight and continuing	0	148,001 217,735	0	138,747 198,007	153,651 206,992	147,648 222,169	138,614 223,649	158,942 231,348	153,860 250,444	161,066 212,011	160,550 224,848	152,563 234,528
Reverse repurchase agreements Overnight and continuing	0	223,111	0	193,997	220,581	237,309	220,314	232,171	233,845	241,163	237,704	225,955
30 Term	0	179,589	0	170,695	170,056 36,302	177,821 44,531	187,301 44,485	189,706 45,126	210,937 43,148	177,140	184,504 47,678	193,893 47,948
32 Term	0	13,238	0	12,721	11,420	13,798	15,080	12,902	13,036	12,394	13,838	14,973
33 Overnight and continuing	0	19,830 1,290	0	21,709 709	19,248 619	20,622 1,073	19,393 2,924	18,843 807	18,518 539	18,220 335	19,650 829	20,810 203
Collateralized loans 35 Overnight and continuing	0	4,503' 824'	0	5,345 0	4,913 0	3,781 1,719	4,044 1,592	4,839 394	5,918 249	4,119 1,580	5,000 503	4,369 461
Мемо: Matched book ⁷												[
Reverse repurchases Overnight and continuing	0	92,712	0	86,093	88,860 168,019	95,031	89,864	102,235	99,169	101,014	105,318	95,007
Repurchases Overnight and continuing	0	177,648 124,806'	0	158,115	119,303	180,244	185,162 124,188	190,108 134,759	204,184	167,985	180,166	189,082 127,388
40 Term	ŏ	139,661	ő	123,275	126,395	140,124	150,978	152,319	170,604	135,251	144,808	149,716

^{1.} Data for positions and financing are obtained from reports submitted to the Federal Reserve Bank of New York by the U.S. government securities dealers on its published list of primary dealers. Data for positions and financing are averages of close-of- business Wednesday weekly data.

2. Securities positions are reported at market value.

3. Net immediate positions include securities purchased or sold (other than mortgage-backed agency securities) that have been delivered or are scheduled to be delivered in five business days or less and "when-issued" securities settle on the issue date of offering. Net immediate positions of mortgage-backed securities include securities purchased or sold that have been delivered or are scheduled to be delivered in thirty days or less.

4. Includes securities such as CMOs, REMICs, IOs, and POs.

5. Futures positions are standardized contracts arranged on an exchange. Forward positions reflect agreements made in the over-the-counter market that specify delayed delivery. All futures positions are included regardless of time to

delivery. Forward contracts for U.S. government securities and for federal agency debt securities are included when the time to delivery is more than five business days. Forward contracts for mortgage-backed securities are included when the time to delivery is more than thirty days.

6. Overnight financing refers to agreements made on one business day that mature on the next business day; continuing contracts are agreements that remain in effect for more than one business day but have no specific maturity and can be terminated without a requirement for advance notice by either party; term agreements have a fixed maturity of more than one business day.

7. Matched-book data reflect financial intermediation activity in which the borrowing and lending transactions are matched. Matched-book data are included in the financing breakdowns listed above. The reverse repurchase and repurchase numbers are not always equal due to the "matching" of securities of different values or types of collateralization.

1.44 FEDERAL AND FEDERALLY SPONSORED CREDIT AGENCIES Debt Outstanding

Millions of dollars, end of period

	1004	1007	1000	1000			1990		
Agency	1986	1987	1988	1989	Mar.	Apr.	May	June	July
1 Federal and federally sponsored agencies	307,361	341,386	381,498	411,805	420,247	423,481	424,082	422,261	0
2 Federal agencies 3 Defense Department 1 4 Export-Import Bank 2 5 Federal Housing Administration 4 6 Government National Mortgage Association participation	36,958 33 14,211 138	37,981 13 11,978 183	35,668 8 11,033 150	35,664 7 10,985 328	42,492 7 11,017 318	42,526 7 11,017 352	42,482 7 11,017 365	42,015 ^r 7 11,150 ^r 394	41,978 7 11,150 281
certificates ³ . 7 Postal Service ⁶ . 8 Tennessee Valley Authority 9 United States Railway Association ⁶ .	2,165 3,104 17,222 85	1,615 6,103 18,089 0	6,142 18,335 0	6,445 17,899 0	6,445 17,899 0	6,445 24,705 0	6,148 24,945 0	6,148 24,316 0	6,148 24,392 0
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 ⁹ 16 Financing Corporation ¹⁰ 17 Farm Credit Financial Assistance Corporation ¹¹ 18 Resolution Funding Corporation ¹²	270,553 88,758 13,589 93,563 62,478 12,171 0 0	303,405 115,727 17,645 97,057 55,275 16,503 1,200 0	345,830 135,836 22,797 105,459 53,127 22,073 5,850 690 0	375,407 136,087 26,148 116,064 54,864 28,705 8,170 847 4,522	377,755 131,526 26,152 116,815 53,732 30,988 8,170 847 9,524	380,955 127,401 28,789 117,357 53,700 31,664 8,170 847 13,026	381,600 125,515 30,444 118,108 53,795 31,696 8,170 847 13,026	380,245 123,021 31,049 117,964 53,451 32,392 8,170 1,172 13,026	0 119,692 27,716 118,356 53,175 0 8,170 1,172 18,052
MEMO 19 Federal Financing Bank debt ¹³	157,510	152,417	142,850	134,873	135,448	136,957	141,536	157,685	162,443
Lending to federal and federally sponsored agencies 20 Export-Import Bank 11 Postal Service ⁶ 22 Student Loan Marketing Association 23 Tennessee Valley Authority 24 United States Railway Association ⁶	14,205 2,854 4,970 15,797 85	11,972 5,853 4,940 16,709 0	11,027 5,892 4,910 16,955 0	10,979 6,195 4,880 16,519 0	11,011 6,195 4,880 15,325 0	11,011 6,195 4,880 15,325 0	11,011 5,898 4,880 15,565 0	11,144 5,898 4,880 14,936 0	11,144 5,898 4,880 15,012 0
Other Lending 14 25 Farmers Home Administration. 26 Rural Electrification Administration. 27 Other	65,374 21,680 32,545	59,674 21,191 32,078	58,496 19,246 26,324	53,311 19,265 23,724	52,726 19,221 23,724	51,916 19,191 28,439	51,591 19,182 33,409	51,901 19,168 49,758	52,171 19,066 54,272

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.

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.

and Urban Development, Sinan Business Teamers Administration.
6. Off-budget.
7. Includes outstanding noncontingent liabilities: notes, bonds, and debentures. Some data are estimated.
8. Excludes borrowing by the Farm Credit Financial Assistance Corporation,

shown in line 17.

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

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

Pederal Savings and Loan Insurance Corporation, undertook its first borrowing in October 1987.

11. The Farm Credit Financial Assistance Corporation (established in January 1988 to provide assistance to the Farm Credit System) undertook its first borrowing in July 1988.

12. The Resolution Funding Corporation, established by the Financial Institutions Reform, Recovery, and Enforcement Act of 1989, undertook its first borrowing in October 1989.

13. 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.

14. The FFB, which began operations in 1974, is authorized to purchase or sell obligations issued, sold, or guaranteed by other federal agencies. Since FFB incurs debt solely for the purpose of lending to other agencies, its debt is not included in the main portion of the table in order to avoid double counting.

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1.45 NEW SECURITY ISSUES Tax-Exempt State and Local Governments

Millions of dollars

Type of issue or issuer,	1987	1000	988 1989 -		1990								
or use	1987	1988	1989	Jan.	Feb.	Маг.	Apr.	May	June	July	Aug.		
1 All issues, new and refunding 1	102,407	114,522	113,646	6,694	6,329	9,880	8,582	12,032	13,625	8,731'	10,035		
Type of issue 2 General obligation 3 Revenue	30,589 71,818	30,312 84,210	35,774 77,873	2,675 4,019	3,010 3,319	3,199 6,681	3,386 5,196	3,166 8,866	4,426 9,199	2,847 5,884	3,358 6,677		
Type of issuer 4 State 5 Special district and statutory authority ² 6 Municipalities, counties, and townships	10,102 65,460 26,845	8,830 74,409 31,193	11,819 71,022 30,805	712 4,744 1,238	1,196 3,277 1,856	707 6,247 2,926	1,387 4,366 2,243	1,003 7,485 3,544	1,090 8,556 3,977	1,442 5,670 1,742	1,610 6,692 2,195		
7 Issues for new capital, total	56,789	79,665	84,062	6,263	5,635	6,667	7,744	10,486	10,974	7,442	9,346		
Use of proceeds 8 Education 9 Transportation 10 Utilities and conservation 11 Social welfare 12 Industrial aid 13 Other purposes	9,524 3,677 7,912 11,106 7,474 18,020	15,021 6,825 8,496 19,027 5,624 24,672	15,133 6,870 11,427 16,703 5,036 28,894	1,374 98 1,747 1,017 200 1,827	1,420 511 718 432 115 2,439	1,018 1,158 502 1,425 432 2,132	1,054 1,215 991 2,664 232 2,426	1,694 1,375 1,232 2,628 681 2,155	2,612 1,592 2,159 2,199 693 4,366	2,212 789 719 2,012 434 2,688	1,389 931 1,015 3,506 495 3,161		

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

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

1.46 NEW SECURITY ISSUES U.S. Corporations

Millions of dollars

Type of issue or issuer,	1007	1000	1000	1989	_			1990			
or use	1987	1988	1989	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
1 All issues ¹	392,674	410,811'	376,488′	21,877	15,144'	13,811	21,199	15,496 ^r	25,159	28,734 ^r	19,852
2 Bonds ²	326,166	353,010 ^r	318,617'	17,932	12,866	10,892	17,405'	13,740 ^r	22,808'	25,861 ^r	17,605
Type of offering 3 Public, domestic 4 Private placement, domestic 5. Sold abroad	209,790 ^r 92,070 24,306	202,132 ^r 127,700 23,178	181,230 ^r 114,629 22,758	16,306 n.a. 1,626	10,814 ^r n.a. 2,052	9,985 n.a. 907	15,498 ^r n.a. 1,907	12,819 ^r n.a. 921	19,658 ^r n.a. 3,150	22,650 ^r n.a. 3,211 ^r	14,300 n.a. 3,305
Industry group 6 Manufacturing 7 Commercial and miscellaneous 8 Transportation 9 Public utility 10 Communication 11 Real estate and financial	60,657' 49,773 11,974 23,004 7,340 173,418	70,574' 62,104 10,075 19,318 5,952 184,990	76,345' 49,307 10,050 17,056 8,503 157,355'	4,285 347 1,083 1,201 577 10,397	2,036 655 35 1,043 23 9,075	2,488 157' 53 1,057 35 7,103	3,396' 263 386 317 704 12,340	3,762 ^r 683 194 435 500 8,167	2,540° 1,171 927 1,004 326 16,840°	3,729 ^r 2,999 ^r 1,001 2,561 411 15,160 ^r	1,545 1,542 270 655 113 13,480
12 Stocks ²	66,508	57,802	57,870	3,945	2,278	2,919	3,794	1,756	2,351	2,873	2,247
Type 13 Preferred 14 Common 15 Private placement ³	10,123 43,225 13,157	6,544 35,911 15,346	6,194 26,030 25,647	626 3,319 n.a.	50 2,228 n.a.	167 2,752 n.a.	1,028 2,767 n.a.	193 1,564 n.a.	665 1,686 n.a.	310 2,565 n.a.	350 1,897 n.a.
Industry group 16 Manufacturing 17 Commercial and miscellaneous 18 Transportation 19 Public utility 20 Communication 21 Real estate and financial	13,880 12,888 2,439 4,322 1,458 31,521	7,608 8,449 1,535 1,898 515 37,798	9,308 7,446 1,929 3,090 1,904 34,028	279 1,045 0 244 0 2,377	835 248 0 106 0 1,090	431 1,017 0 582 0 889	521 552 0 533 0 2,188	253 666 0 219 0 619	86 706 22 471 380 686	265 750 21 0 29 1,799	348 507 0 173 0 862

^{1.} 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.

2. Monthly data include only public offerings.

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

underwritten issues only.

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

1.47 OPEN-END INVESTMENT COMPANIES Net Sales and Asset Position

Millions of dollars

	1000	1000	1989							
ltem	1988	1989	Dec.	Jan.	Feb.	Mar.	Apr.	May	June'	July
Investment Companies ¹						1				
1 Sales of own shares ²	271,237	306,445	30,982	35,620	26,118	28,817	29,788	27,431	28,301	29,470
2 Redemptions of own shares ³	267,451 3,786	272,165 34,280	24,967 6,015	27,331 8,289	20,978 5,140	23,777 5,040	27,306 2,482	23,337 4,094	23,340 4,961	22,957 6,513
4 Assets ⁴	472,297	553,871	553,871	535,165	542,725	549,638	542,061	574,302	582,190	586,681
5 Cash position ⁵	45,090 427,207	44,780 509,091	44,780 509,091	48,865 486,300	51,356 491,369	50,454 499,184	55,213 486,848	52,741 521,560	49,861 532,329	51,944 534,737

^{1.} Data on sales and redemptions exclude money market mutual funds but include limited maturity municipal bond funds. Data on asset positions exclude both money market mutual funds and limited maturity municipal bond funds. 2. 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.

3. Excludes share redemption resulting from conversions from one fund to another in the same group.

1.48 CORPORATE PROFITS AND THEIR DISTRIBUTION

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

Account	1007	1988	1000	19	88	•	19	89		19	90
Account	1987	1700	1989	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2′
Corporate profits with inventory valuation and capital consumption adjustment. Profits before tax. Profits tax liability. Profits after tax. Dividends. Undistributed profits.	308.3	337.6	311.6	334.4	349.6	327.3	321.4	306.7	290.9	296.8	306.6
	275.3	316.7	307.7	320.4	331.1	335.1	314.6	291.4	289.8	296.9	299.3
	126.9	136.2	135.1	137.9	142.1	148.3	140.8	127.8	123.5	129.9	133.1
	148.4	180.5	172.6	182.5	189.1	186.7	173.8	163.6	166.3	167.1	166.1
	98.2	110.0	123.5	111.8	115.3	119.1	122.1	125.0	127.7	130.3	133.0
	50.2	70.5	49.1	70.8	73.8	67.6	51.7	38.6	38.6	36.8	33.2
7 Inventory valuation	-19.4	-27.0	-21.7	-33.3	-22.5	-43.0	-23.1	-6.1	-14.5	-11.4	-0.5
	52.4	47.8	25.5	47.3	40.9	35.2	29.9	21.4	15.6	11.3	7.7

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

1.50 TOTAL NONFARM BUSINESS EXPENDITURES on New Plant and Equipment ▲

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

	1080	1000	1000		19	989	_		19	90	
Industry	1988	1989	1990	Q1	Q2	Q3	Q4	Q١	Q2	Q3	Q4
1 Total nonfarm business	455.49	507.40	534.76	487.43	502.05	514.95	519.58	532.45	535.49	532.47	538.61
Manufacturing 2 Durable goods industries	77.04 86.41	82.56 101.24	84.69 107.75	80.20 92.53	82.44 98.47	83.60 102.40	83.41 108.47	86.35 105.02	84.34 110.82	83.63 108.74	84.45 106.42
Nonmanufacturing 4 Mining	9.29	9.21	9.96	8.94	9.24	9.24	9.38	9.58	9.84	10.23	10.19
5 Railroad	5.52 5.63 5.48	6.26 6.73 5.85	5.89 9.09 6.13	6.02 5.67 6.15	5.81 6.84 5.78	6.36 8.89 5.78	6.80 5.75 5.69	6.45 9.35 6.33	6.66 9.36 5.84	5.34 9.77 5.50	5.10 7.88 6.83
Public utilities 8 Electric	40.90 19.47 205.76	44.81 21.47 229.28	43.79 22.12 245.34	43.56 22.53 221.82	46.37 21.72 225.39	44.44 20.75 233.50	44.66 21.15 234.25	43.37 22.34 243.66	42.62 21.65 244.37	43.85 22.35 243.05	45.33 22.13 250.27

 $[\]blacktriangle$ Trade and services are no longer being reported separately. They are included in Commercial and other, line 10.

another in the same group.

^{4.} Market value at end of period, less current liabilities.
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.} Anticipated by business.

^{2. &}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).

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1.51 DOMESTIC FINANCE COMPANIES Assets and Liabilities¹

Billions of dollars, end of period

	1005	1004	1987	1988		19	89		19	90
Account	1985	1986	1567	Q4	Qı	Q2	Q3	Q4	Q١	Q2
Assets										
Accounts receivable, gross ² 1 Consumer. 2 Business. 3 Real estate 4 Total	111.9 157.5 28.0 297.4	134.7 173.4 32.6 340.6	141.1 207.4 39.5 388.1	146.2 236.5 43.5 426.2	139.1 243.3 45.1 427.5	143.9 250.9 47.1 441.9	146.3 246.8 48.7 441.8	140.8 256.0 48.9 445.8	137.9 262.9 52.1 452.8	138.6 274.8 55.4 468.8
Less: 5 Reserves for unearned income	39.2 4.9	41.5 5.8	45.3 6.8	50.0 7.3	51.0 7.4	52.2 7.5	52.9 7.7	52.0 7.7	51,9 7.9	54.3 8.2
7 Accounts receivable, net	253.3 45.3	293.3 58.6	336.0 58.3	368.9 72.4	369.2 75.1	382.2 81.4	381.3 85.2	386.1 91.6	393.0 92.5	406.3 95.5
9 Total assets	298.6	351.9	394.2	441.3	444.3	463.6	466.4	477.6	485,5	501.9
Liabilities										
10 Bank loans	18.0 99.2	18.6 117.8	16.4 128.4	15.4 142.0	11.3 147.8	12.1 149.0	12.2 147.2	14.5 149.5	13.9 152.9	15.8 152.4
12 Other short-term 13 Long-term 14 Due to parent 15 Not elsewhere classified 16 All other liabilities 17 Capital, surplus, and undivided profits	12.7 94.4 n.a. n.a. 41.5 32.8	17.5 117.5 n.a. n.a. 44.1 36.4	28.0 137.1 n.a. n.a. 52.8 31.5	n.a. n.a. 50.6 137.9 59.8 35.6	n.a. n.a. 56.9 133.6 58.1 36.6	n.a. n.a. 59.8 140.5 63.5 38.8	n.a. n.a. 60.3 145.1 61.8 39.8	n.a. n.a. 63.8 147.8 62.6 39.4	n.a. n.a. 70.5 145.7 61.7 40.7	n.a. n.a. 72.8 153.0 66.1 41.8
18 Total liabilities and capital	298.6	351.9	394.2	441.3	444.3	463,6	466.4	477.6	485.5	501.9

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

1.52 DOMESTIC FINANCE COMPANIES Business Credit Outstanding and Net Change¹

Millions of dollars, seasonally adjusted

	1007	1000	1000			19	90		
Туре	1987	1988	1989	Feb.	Mar.	Apr.	May	June	July
1 Total	205,992	234,578	258,504	259,015	261,662	262,379	266,859	273,786	277,416
Retail financing of installment sales 2 Automotive	36,139	36,957	39,139	39,125	39,264	39,550	39,245	39,716	38,931
	25,075	28,199	29,674	29,483	29,789	30,115	30,635	30,491	30,623
	n.a.	n.a.	698	681	704	662	622	642	600
5 Automotive 6 Equipment 7 All other 8 Pools of securitized assets ² Leasing	30,070	32,357	33,074	29,491	29,963	29,672	29,896	31,815	33,158
	5,578	5,954	6,896	9,155	9,408	9,372	9,429	9,495	9,929
	8,329	9,312	9,918	9,877	10,030	9,961	9,892	10,043	9,722
	n.a.	n.a.	0	0	0	0	0	0	0
9 Automotive 10 Equipment 11 Pools of securitized assets ² 12 Loans on commercial accounts receivable and factored	22,097	24,875	27,074	27,161	28,325	28,528	28,878	29,575	30,210
	43,493	57,658	68,112	69,335	68,755	69,473	72,715	74,916	76,316
	n.a.	n.a.	1,247	1,377	1,433	1,646	1,597	1,547	1,760
commercial accounts receivable	18,170	18,103	19,081	19,155	19,426	18,716	18,700	19,869	20,077
	17,042	21,162	23,590	24,176	24,565	24,685	25,250	25,677	26,089
	_			Net cha	inge (during	period)			
14 Total	33,866	22,434	22,580	-452	2,647	717	4,480	6,927	3,630
Retail financing of installment sales 15 Automotive	9,925	819	2,182	-127	140	286	-305	471	-785
	2,056	1,386	1,475	-207	306	327	520	-144	132
	n.a.	n.a.	-26	-39	23	-42	-40	20	-42
Wholesale 18 Automotive 19 Equipment 20 All other 21 Pools of securitized assets ² Leasing	7,158	2,288	716	-972	472	-291	224	1,919	1,343
	250	377	940	-28	254	-37	57	67	434
	1,293	983	605	-66	153	-69	-69	151	-321
	n.a.	n.a.	0	0	0	0	0	0	0
22 Automotive	2,174	2,777	2,201	183	1,164	203	351	696	636
	5,271	9,752	9,187	431	-580	718	3,243	2,201	1,400
	n.a.	n.a.	526	135	56	213	-49	-50	213
commercial accounts receivable	2,245	-65	979	180	272	-711	16	1,169	208
	3,498	4,119	3,796	59	388	120	565	427	412

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

^{2.} Excludes pools of securitized assets.

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

1.53 MORTGAGE MARKETS

Millions of dollars; exceptions noted.

						***	1990			
ltem	1987	1988	1989	Feb.	Mar.	Apr.	May	June	July	Aug.
			Ter	ms and yie	lds in prima	ry and seco	ondary mar	kets		
PRIMARY MARKETS	-									
Conventional mortgages on new homes Terms!		ļ								
Purchase price (thousands of dollars). Amount of loan (thousands of dollars). Joan/price ratio (percent). Maturity (years). Fees and charges (percent of loan amount). Contract rate (percent per year).	137.0 100.5 75.2 27.8 2.26 8.94	150.0 110.5 75.5 28.0 2.19 8.81	159.6 117.0 74.5 28.1 2.06 9.76	148.9 109.0 74.6 27.4 1.87 9.56	138.2 100.9 74.7 26.6 1.96 9.70	155.5 114.6 75.4 26.6 2.00 9.83	162.1 119.7 75.0 28.1 2.41 9.87	149.8 111.8 76.4 26.9 1.96 9.80	163.5 120.9 75.3 28.0 1.93 9.75	161.5 118.3 74.5 27.2 2.07 9.75
Yield (percent per year) 7 OTS series ³	9.31 10.17	9.18 10.30	10.11 10.21	9.88 10.12	10.03 10.20	10.17 10.46	10,28 10,19	10.13 10.12	10.08 9.94	10.11 10.12
SECONDARY MARKETS					!					
Yield (percent per year) 9 FHA mortgages (HUD series) ⁵ 10 GNMA securities ⁶	10.16 9.44	10.49 9.83	10.24 9,71	10.22 9.44	10.30 9.53	10.75 9.77	10.23 9.77	10.18 9.54	10.11 9.48	10.28 9.63
				Act	ivity in seco	ondary mar	kets			
Federal National Mortgage Association										
Mortgage holdings (end of period) 11 Total 12 FHA/VA-insured 13 Conventional	95,030 21,660 73,370	101,329 19,762 81,567	104,974 19,640 85,335	111,628 20,614 91,014	112,353 20,688 91,665	112,463 20,707 91,756	112,791 20,723 92,068	112,855 20,830 92,025	113,378 21,059 92,319	113,507 21,101 92,406
Mortgage transactions (during period) 14 Purchases	20,531	23,110	22,518	1,537	1,945	1,705	1,630	1,802	2,304	2,134
Mortgage commitments ⁷ 15 Contracted (during period)	25,415 4,886	23,435 2,148	27,409 6,037	3,216 4,977	3,789 6,765	5,700 10,534	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.
FEDERAL HOME LOAN MORTGAGE CORPORATION										
Mortgage holdings (end of period) ⁸ 17 Total	12,802 686 12,116	15,105 620 14,485	20,105 590 19,516	20,112 572 19,540	19,823 561 19,261	19,730 555 19,174	19,874 556 19,319	19,979 550 19,429	n.a. n.a. n.a.	n.a. n.a. n.a.
Mortgage transactions (during period) 20 Purchases	76,845 75,082	44,077 39,780	78,588 73,446	5,676 5,796	6,301 6,503	5,719 5,687	6,064 5,792	5,856 5,546'	n.a. 4,177	n.a. 4,705
Mortgage commitments ⁹ 22 Contracted (during period)	71,467	66,026	88,519	5.922	6,119	10,441	8,502	11,183	n.a.	n.a.

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.

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. in maximum permissable contract rates.

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 Wull 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.

1.54 MORTGAGE DEBT OUTSTANDING1

Millions of dollars, end of period

	4007		4000		1989	·	19	90
Type of holder, and type of property	1987	1988	1989	Q2	Q3	Q4	QI	Q2 ^p
1 All holders	2,971,019	3,264,348	3,540,084 ^r	3,402,082 ^r	3,473,550	3,540,084 ^r	3,601,132	3,657,741
2 I- to 4-family 3 Multifamily 4 Commercial 5 Farm	272,500 651,323	2,186,292' 289,128' 702,113' 86,816'	2,404,311 ^r 305,582 ^r 744,856 ^r 85,336 ^r	2,287,645' 299,449' 728,212' 86,777'	2,347,566′ 302,374′ 737,299′ 86,311′	2,404,311 ^r 305,582 ^r 744,856 ^r 85,336 ^r	2,450,291 ^r 310,273 ^r 755,857 ^r 84,710 ^r	2,492,784 314,360 765,489 85,109
6 Selected financial institutions 7 Commercial banks ² 8 1-to 4-family 9 Multifamily 10 Commercial 11 Farm	592,449 275,613 32,756 269,648	1,826,668' 669,237 317,585 33,158 302,989 15,505	1,919,243' 763,533 368,567 37,990 340,285 16,691	1,891,210' 715,262 338,799 36,022 324,083 16,358	1,913,914' 742,096 355,084 37,201 333,272 16,539	1,919,243' 763,533 368,567 37,990 340,285 16,691	1,924,635' 783,100 376,616 39,202 350,473 16,809	1,924,617 803,660 388,018 40,271 358,367 17,003
12	. 602,408 . 106,359 . 150,943 . 757 . 205,021 . 12,644 . 160,874	924,606' 671,722' 110,775' 141,433' 676' 232,825 15,299 23,583 184,273 9,671 37,846	910,254' 669,220' 106,014' 134,370' 650' 245,456 13,827 27,195 194,871 9,563 45,476	938,714' 687,000' 110,067' 140,977' 670' 237,234 12,814 25,232 189,623 9,565 41,824	932,373' 683,148' 108,447' 140,096' 682' 239,445 13,290 26,372 190,152 9,632 43,157	910,254° 669,220° 106,014° 134,370° 650° 245,456 13,827 27,195 194,871 9,563 45,476	892,022' 658,440' 103,860' 129,103' 619' 249,513 14,173 28,182 197,621 9,537 45,808	867,640 639,985 101,112 125,944 599 253,317 14,479 29,155 200,139 9,544 47,104
23 Federal and related agencies. 24 Government National Mortgage Association. 25 I - to 4-family 26 Multifamily. 27 Farmers Home Administration. 28 I - to 4-family. 29 Multifamily. 30 Commercial. 31 Farm	. 444 . 25 . 419 . 0 . 18,169 . 8,044 . 6,603	200,570 26 26 0 0 18,347 8,513 5,343 9,815	209,472 23 23 0 0 18,422 9,054 4,443 9,257	202,056 24 24 0 0 18,391 8,778 3,885 9,657	205,809 24 24 0 0 18,405 8,916 4,366 9,430	209,472 23 23 0 0 18,422 9,054 4,443 9,257	216,059 ^r 22 22 0 7,143 ^r 18,419 9,199 4,510 8,997	230,511 21 21 0 17,944 18,433 9,351 4,418 8,826
Federal Housing and Veterans Administration 1- to 4-family Multifamily Multifamily Multifamily Second Pederal National Mortgage Association 1- to 4-family Multifamily Multifamily Federal Land Banks 1- to 4-family Farm Federal Home Loan Mortgage Corporation 1- to 4-family Multifamily Multifam	2,557 3,017 96,649 89,666 6,983 34,131 2,008 32,123 12,872	5,973 2,672 3,301 103,013 95,833 7,180 32,115 1,890 30,225 17,425 15,077 2,348	6,061 2,850 3,211 110,721 102,295 8,426 29,640 1,210 28,430 21,851 18,248 3,603	6,424 2,827 3,597 103,309 95,714 7,595 31,467 1,851 29,616 20,121 17,382 2,739	6,023 2,900 3,123 107,052 99,168 7,884 30,943 1,821 29,122 20,650 17,659 2,992	6,061 2,850 3,211 110,721 102,295 8,426 29,640 1,210 28,430 21,851 18,248 3,603	6,268 2,977 3,291 112,353 103,300 9,053 29,325 1,197 28,128 19,823 16,772 3,051	6,284 3,041 3,243 114,592 105,026 9,566 30,517 1,957 28,559 20,126 16,918 3,208
44 Mortgage pools or trusts ⁶ 45 Government National Mortgage Association 46 1- to 4-family 47 Multifamily 48 Federal Home Loan Mortgage Corporation 49 1- to 4-family 50 Multifamily 51 Federal National Mortgage Association 52 1- to 4-family 53 Multifamily 54 Farmers Home Administration 55 1- to 4-family 56 Multifamily 57 Commercial 58 Farm	718,297 317,555 309,806 7,749 212,634 205,977 6,657 139,960 137,988 1,972 245 121 0	810,887 340,527 331,257 9,270 226,406 219,988 6,418 178,250 172,331 5,919 104 26 0 38 40	943,932 369,867 358,142 11,725 272,870 266,060 6,810 228,232 219,577 8,655 80 21 0 26 33	864,885 353,759 342,545 11,214 245,242 238,446 6,796 196,501 188,774 7,727 85 0 0 26 36	899,435 361,291 349,838 11,453 257,938 251,232 6,706 208,894 200,302 8,592 0 22 0 26 35	943,932 369,867 358,142 11,725 272,870 266,060 6,810 228,232 219,577 8,655 80 21 0 26 33	981,265 378,292 366,300 11,992 281,736 274,084 7,652 246,391 237,916 8,475 75 20 0 25 31	1,011,982 384,289 372,051 12,237 291,863 283,822 8,041 259,664 250,663 9,002 71 18 0 23 30
59 Individuals and others ⁷	. 242,053 . 75,458 . 63,192	426,223 258,639 78,663 68,037 20,884	467,438 292,967 82,899 70,861 20,711	443,931 273,757 79,681 69,618 20,875	454,392 283,445 80,689 69,387 20,871	467,438 292,967 82,899 70,861 20,711	479,172 301,573 84,873 72,136 20,589	490,631 310,747 86,468 72,868 20,548

Based on data from various institutional and governmental sources, with some quarters estimated in part by the Federal Reserve. Multifamily debt refers to loans on structures of five or more units.
 Includes loans held by nondeposit trust companies but not bank trust departments.
 Includes savings banks and savings and loan associations. Beginning 1987:1, data reported by FSLIC-insured institutions include loans in process and other contra assets (credit balance accounts that must be subtracted from the corresponding gross asset categories to yield net asset levels).
 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. Includes private pools which are not shown as a separate line item.
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.

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Walley and top Care lie	1000	1000	19	89				1990			
Holder, and type of credit	1988	1989	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June'	July
					Seas	onally adju	sted				
1 Total	664,701	716,624	713,903	716,624	717,829	717,869	720,445	720,835	724,485	724,601	729,066
2 Automobile 3 Revolving	284,556	290,770	290,972	290,770	290,904	289,629	290,932	288,936	288,931	287,168	286,634
	174,057	197,110	194,679	197,110	199,146	199,927	202,263	203,965	207,153	208,362	212,128
	25,201	22,343	22,197	22,343	22,604	22,633	22,708	22,702	22,815	22,733	22,766
	180,887	206,401	206,055	206,401	205,175	205,680	204,543	205,232	205,585	206,338	207,539
					Not se	asonally ac	ljusted				
6 Total	674,719	727,561	715,145	727,561	721,026	717,062	713,138	715,801	720,045	722,953	726,933
By major holder Commercial banks Finance companies Credit unions Credit unions Retailers ² Savings institutions Savings institutions Pools of securitized assets ²	324,792	343,865	337,285	343,865	342,266	339,418	334,645	337,576	339,328	335,998	339,657
	146,212	140,832	142,802	140,832	140,740	139,115	137,857	138,174	138,384	138,642	138,796
	88,340	90,875	90,965	90,875	90,452	90,127	89,556	89,689	89,913	90,137	90,288
	48,302	42,638	37,906	42,638	39,959	37,904	37,302	37,207	37,347	37,382	36,804
	63,399	57,228	58,236	57,228	55,425	54,771	54,095	53,606	53,301	52,902	52,503
	3,674	3,935	3,853	3,935	4,013	3,803	3,792	3,928	4,024	4,192	4,396
	n.a.	48,188	44,098	48,188	48,171	51,924	55,891	55,621	57,748	63,700	64,489
By major type of credit ³ 14 Automobile	284,328	290,421	292,543	290,421	288,984	288,036	286,539	286,220	287,140	287,254	287,322
	123,392	126,613	128,111	126,613	127,075	127,149	126,289	126,483	127,056	126,988	127,509
	97,245	82,721	85,725	82,721	81,918	80,227	79,523	79,295	78,927	78,273	77,716
	n.a.	18,191	15,376	18,191	17,827	18,931	19,563	19,406	20,151	21,043	21,239
18 Revolving	183,909	208,188	194,640	208,188	203,288	200,147	199,937	201,783	204,854	206,820	209,582
	123,020	130,956	122,728	130,956	128,384	124,821	122,024	124,039	125,433	122,116	124,602
	43,697	37,967	33,432	37,967	35,359	33,378	32,794	32,721	32,857	32,884	32,325
	3,674	3,935	3,853	3,935	4,013	3,803	3,792	3,928	4,024	4,192	4,396
	n.a.	22,977	22,186	22,977	23,450	26,204	29,542	29,403	30,913	36,076	36,786
23 Mobile home	25,143	22,283	22,319	22,283	22,717	22,726	22,426	22,484	22,610	22,644	22,843
	9,025	9,155	9,144	9,155	9,109	9,162	9,142	9,231	9,295	9,296	9,443
	7,191	4,716	4,682	4,716	5,411	5,410	5,178	5,168	5,224	5,266	5,328
26 Other 27 Commercial banks 28 Finance companies 29 Retaillers 30 Pools of securitized assets ²	181,339	206,669	205,643	206,669	206,037	206,153	204,236	205,314	205,441	206,235	207,186
	69,355	77,141	77,302	77,141	77,698	78,286	77,190	77,823	77,544	77,598	78,103
	41,776	53,395	52,395	53,395	53,411	53,478	53,156	53,711	54,233	55,103	55,752
	4,605	4,671	4,474	4,671	4,600	4,526	4,508	4,486	4,490	4,498	4,479
	n.a.	7,020	6,536	7,020	6,894	6,789	6,786	6,812	6,684	6,581	6,464

^{1.} The Board's series cover most short- and intermediate-term credit extended to individuals that is scheduled to be repaid (or has the option of repayment) in two or more installments.

These data also appear in the Board's G.19 (421) release. For address, see inside front cover.

Outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator.
 Totals include estimates for certain holders for which only consumer credit totals are available.

A40 Domestic Financial Statistics □ November 1990

1.56 TERMS OF CONSUMER INSTALLMENT CREDIT¹

Percent unless noted otherwise

10	1987	1988	1989				1990			
Item	1987	1966	1989	Jan.	Feb.	Mar.	Apr.	May	June	July
INTEREST RATES										
Commercial banks ² 1 48-month new car ³ 2 24-month personal 3 120-month mobile home ³ 4 Credit card Auto finance companies 5 New car 6 Used car	10.45	10.85	12.07	n.a.	11.80	n.a.	n.a.	11.82	n.a.	n.a.
	14.22	14.68	15.44	n.a.	15.27	n.a.	n.a.	15.41	n.a.	n.a.
	13.38	13.54	14.11	n.a.	13.91	n.a.	n.a.	14.09	n.a.	n.a.
	17.92	17.78	18.02	n.a.	18.12	n.a.	n.a.	18.14	n.a.	n.a.
	10.73	12.60	12.62	12.64	12.67	12.31	12.21	12.23	12.58	12.68
	14.60	15.11	16.18	15.77	15.91	15.97	16.02	16.03	16.00	15.96
Other Terms ⁴										
Maturity (months) 7 New car 8 Used car Loan-to-value ratio	53.5	56.2	54.2	54.7	54.7	54.3	54.2	54.5	54.8	54.9
	45.2	46.7	46.6	45.5	46.4	46.4	46.5	46.1	46.2	46.2
9 New car	93	94	91	89	88	88	87	87	87	86
	98	98	97	95	96	95	96	96	95	96
11 New car	11,203	11,663	12,001	12,381	12,053	12,216	12,089	12,064	12,108	12,125
	7,420	7,824	7,954	8,040	8,065	8,132	8,105	8,169	8,296	8,401

These data also appear in the Board's G.19 (421) release. For address, see inside front cover.
 Data for midmonth of quarter only.
 Before 1983 the maturity for new car loans was 36 months, and for mobile

home loans was 84 months.
4. At auto finance companies. /sl1.56-bul-tel/btJql! 53.5 56.2 54.2 54.7 54.7 54.3 54.2 54.5 54.8 54.9 45.2 46.7 46.6 45.5 46.4 46.4 46.5 46.1 46.2 46.2 93 94 91 89 88 87 87 87 86 98 98

1.57 FUNDS RAISED IN U.S. CREDIT MARKETS

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

_							1988		19	989		15	990
	Transaction category, sector	1985	1986	1987′	1988′	1989′	Q4 ^r	Ql'	Q2'	Q3'	Q4'	QI'	Q2
						N	Nonfinanc	ial secto	rs				
1	Total net borrowing by domestic nonfinancial sectors	848.1'	836.9	687.0	760.8	676,5	694.9	746.7	666,5	673.3	619.5	749.9	598.1
2 3 4	By sector and instrument U.S. government Treasury securities Agency issues and mortgages	223.6 223.7 1	215.0 214.7 .4	144.9 143.4 1.5	157.5 140.0 17.4	150.2 150.0 .2	144.8 103.2 41.6	147.3 148.5 -1.2	100.1 95.0 5.1	168.4 166.8 1.6	185.0 189.6 -4.6	247.6 218.1 29.6	216.7 211.4 5.4
5 6 7 8 9 10 11 12 13	Debt capital instruments Tax-exempt obligations Corporate bonds Mortgages.	624.5' 451.2' 135.4 73.5' 242.2 156.8 29.8 62.2 -6.6	621.9° 465.8° 22.7 126.8° 316.3 218.7 33.5 73.6 -9.5	542.1 453.2 49.3 79.4 324.5 234.9 24.4 71.6 -6.4	603.3 459.2 49.8 102.9 306.5 231.0 16.7 60.8 -2.1	526.3 379.7 30.4 73.6 275.7 218.0 16.4 42.7 -1.5	550.1 439.0 56.8 87.1 295.1 212.0 19.2 63.9	599.4 412.8 39.7 58.2 314.9 225.5 23.1 68.6 -2.3	566.3 390.1 28.7 86.5 275.0 211.3 21.4 41.5	504.9 369.2 34.1 62.7 272.4 221.0 11.8 40.9 -1.3	434.5 346.8 19.1 87.2 240.5 214.3 9.5 19.9 -3.2	502.3 362.3 13.5 42.3 306.5 238.4 21.5 47.9 -1.4	381.4 284.4 21.6 60.2 202.6 144.1 17.1 42.2 8
14 15 16 17 18	Other debt instruments Consumer credit Bank loans n.e.c. Open market paper. Other	173.3 ^r 82.5 40.6 ^r 14.6 35.6	156.1 ^t 58.0 66.9 ^t 9.3 40.5	88.9 33.5 10.0 2.3 43.2	144.1 50.2 39.8 11.9 42.2	146.6 39.1 39.9 20.4 47.1	111.1 51.2 22.2 39.0 1.3	186,6 38,2 55,9 32,3 60,2	176.2 36.9 45.1 39.5 54.7	135.7 37.1 50.8 16.9 30.9	87.7 44.1 7.7 6.9 42.8	139.9 14.6 21.2 69.7 34.5	97.0 9.8 17.4 -6.0 75.8
19 20 21 22 23 24 25	By borrowing sector State and local governments Households Nonfinancial business Farm Nonfarm noncorporate Corporate	624.5° 90.9 284.5° 249.1° -14.5 129.3 134.3°	621.9° 36.2 293.0° 292.7° -16.3 99.2° 209.7°	542.1 48.8 302.2 191.0 10.6 77.9 123.7	603.3 45.6 314.9 242.8 -7.5 65.7 184.6	526.3 29.6 284.8 211.9 1.6 50.8 159.5	550.1 53.0 288.5 208.6 -14.5 57.3 165.8	599.4 40.1 293.2 266.0 4.7 71.0 190.3	566.3 33.3 263.7 269.4 5.0 56.9 217.4	504.9 28.6 290.8 185.4 -2.1 40.2 147.3	434.5 16.5 291.3 126.7 8.9 35.0 82.9	502.3 9.0 294.8 198.5 4.3 32.5 161.6	381.4 14.9 197.8 168.7 6.2 55.9 106.6
26 27 28 29 30	Bonds Bank loans n.e.c. Open market paper. U.S. government loans	1.2 3.8 -2.8 6.2 -6.0	9.7 3.1 -1.0 11.5 -3.9	4.5 7.4 -3.6 2.1 -1.4	6.3 6.9 -1.8 8.7 -7.5	10.9 5.3 1 13.3 7.5	9.9 5.7 -3.8 14.3 -6.3	3.2 2.5 3.2 16.9 -19.4	-6.9 11.5 -3.2 -6.6 -8.7	30.4 8.1 3.7 20.7 2.1	16.9 -1.0 -4.3 22.2	-3.3 28.3 -6.7 -16.5 -8.3	46.3 27.0 5.2 23.0 1.4
31	Total domestic plus foreign	849.3'	846.6	691.5	767.1	687.4	704,8	749.9	659.6	703.6	636.4	746.6	644.4
22			205.41	200.2	257.6		Financia					204-5	
33 34 35 36	Total net borrowing by financial sectors By instrument U.S. government related. Sponsored credit agency securities. Mortgage pool securities Loans from U.S. government	101.5 20.6 79.9 1.1	154.1' 15.2 139.2' 4	171.8 30.2 142.3 8	119.8 44.9 74.9	151.0 25.2 125.8 .0	149.0 62.8 86.3	194.0 70.0 124.0 .0	128.8 22.5 106.3	123.9 124.8 13.2 111.6 .0	156.4 4.7 161.1	175.5 14.5 161.0	145.2 17.3 127.8
37 38 39 40 41 42	Private financial sectors Corporate bonds Mortgages Bank loans n.e.c. Open market paper Loans from Federal Home Loan Banks	99.7 50.9 .1 2.6 32.0 14.2	131.0 82.9 .1 4.0 24.2 19.8	128.4 78.9 .4 -3.2 27.9 24.4	127.8 51.7 .3 1.4 54.8 19.7	54.5 36.8 .0 1.8 26.9 ~11.0	157.1 45.5 1.2 1.8 74.9 33.7	162.6 52.3 .3 1.0 50.1 58.9	25.3 28.5 .0 1 10.1 -13.1	26.7 .3 2.0 11.0 -41.0	30.9 39.6 4 4.2 36.3 -48.8	26.2 41.6 7 2.2 9.4 -21.8	5.0 69.0 .0 -5.7 -27.7 -30.7
43	By sector Total	201.3	285.1'	300.2	247.6	205.5	306.1	356.6	154,1	123.9	187.3	201.7	150.1
44 45 46 47 48 49 50 51 52 53	Sponsored credit agencies Mortgage pools Private financial sectors Commercial banks Bank affiliates Savings and loan associations Mutual savings banks Finance companies REITS SCO Issuers	21.7 79.9 99.7 -4.9 16.6 17.3 1.5 57.7' 1' 11.5	14.9 139.2' 131.0 -3.6 15.2 20.9 4.2 54.7' .8' 39.0	29.5 142.3 128.4 6.2 14.3 19.6 8.1 40.8 3 39.1	44.9 74.9 127.8 -3.0 5.2 19.9 1.9 67.7 3.5 32.5	25.2 125.8 54.5 -1.4 6.2 -14.1 -1.4 46.3 -1.9 20.8	62.8 86.3 157.1 6.6 1.5 31.3 3.7 67.0 14.5 32.5	70.0 124.0 162.6 -11.1 9.4 60.8 -4.1 68.8 -1.8 40.6	22.5 106.3 25.3 2.5 2.9 - 16.3 .0 40.4 -2.8 -1.4	13.2 111.6 9 3.5 16.5 -44.7 -2.3 23.5 -3.1 5.7	-4.7 161.1 30.9 7 -3.9 -56.2 .7 52.6 .1 38.2	14.5 161.0 26.2 -4.9 -12.8 -15.9 -8.3 33.8 5 34.7	17.3 127.8 5.0 3.3 -32.7 -41.1 4.7 22.6 -2.4 50.5

A42 Domestic Financial Statistics November 1990

1.57—Continued

T	1005	1004	1007/	10007	10001	1988		19	989		19	90
Transaction category, sector	1985	1986	1987′	1988′	1989′	Q4′	Q۱′	Q2 ^r	Q3′	Q4 ^r	Q1'	Q2
						All s	ectors					
54 Total net borrowing	1,050.6	1,131.7	991.7	1,014.7	892.9	1,010.9	1,106.5	813.7	827.5	823.7	948.3	794.5
55 U.S. government securities 56 State and local obligations 57 Corporate and foreign bonds 58 Mortgages. 59 Consumer credit 60 Bank loans n.e.c. 61 Open market paper. 62 Other loans 63 MEMO: U.S. government, cash balance. Totals net of changes in U.S. government cash balances 64 Net borrowing by domestic nonfinancial. 65 Net borrowing by U.S. government.	324.2 135.4 128.2' 242.2 82.5 40.3' 52.8 45.0 14.4	369.5' 22.7 212.8' 316.4 58.0 69.9' 26.4 56.1 .0 836.9' 215.0	317.5 49.3 165.7 324.9 33.5 3.2 32.3 65.5 -7.9 694.9 152.8	277.2 49.8 161.5 306.7 50.2 39.4 75.4 54.4 10.4 750.4 147.1	301.2 30.4 115.7 275.7 39.1 41.5 60.6 28.6 5.9 682.4 156.1	293.8 56.8 138.3 296.2 51.2 20.2 128.2 26.1 -2.8	341.3 39.7 113.0 315.2 38.2 60.2 99.3 99.7 -14.3	228.9 28.7 126.5 275.0 36.9 41.9 42.9 32.9 20.7	293.2 34.1 97.6 272.7 37.1 56.5 48.5 -12.2 -22.7 696.0 191.1	341.4 19.1 125.7 240.1 44.1 7.5 51.6 -6.0 -7.3	423.1 13.5 112.1 305.7 14.6 12.2 62.7 4.3 21.5	361.9 21.6 156.2 202.6 9.8 6.5 -10.7 46.6 -51.0
			E	external o	orporate	equity fi	unds rais	ed in Un	ited State	s		
66 Total net share issues	17.2 ^r	86.8	10.9	-124.2	-60.7	-173.0	-164.7	-38.1	-54.6	14.6	-8.3	55.7
67 Mutual funds 68 All other 69 Nonfinancial corporations 70 Financial corporations 71 Foreign shares purchased in United States	84.4 -67.2' -84.5' 13.6' 3.7	159.0 -72.2 ^r -85.0 ^r 11.6 ^r 1.2	73.9 -63.0 -75.5 14.6 -2.1	1.1 -125.3 -129.5 3.3 .9	41.3 -102.0 -124.2 5.5 16.7	9.8 -182.8 -194.5 5.0 6.8	1.0 -165.7 -172.3 2.1 4.5	34.0 -72.1 -98.7 9.2 17.4	57.9 -112.5 -146.3 6.3 27.5	72.4 -57.8 -79.3 4.3 17.2	53.1 -61.4 -69.0 6.4 1.2	76.5 -20.8 -48.0 5.5 21.7

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

Transportion outcomes are sector	1985	1986 ^r	1987	1988"	1989 ^r	1988		19	89		19	90
Transaction category, or sector	כשעו	1986.	1987	1988.	1989	Q4'	Q1′	Q2'	Q3 ^r	Q4 ^r	Q۱′	Q2
! Total funds advanced in credit markets to domestic nonfinancial sectors	848.1'	836.9	687.0	760.8	676.5	694.9	746.7	666.5	673.3	619.5	749.9	598.1
By public agencies and foreign 2 Total net advances 3 U.S. government securities. 4 Residential mortgages. 5 FHLB advances to thrifts 6 Other loans and securities.	202.0	280.2	248.8	210.7	187.6	230.2	312.8	15.5	218.3	203.8	234.5	284.1
	45.9	69.4	70.1	85.2	30.7	114.5	83.1	-103.3	115.7	27.1	16.9	96.1
	94.6	136.3	139.1	86.3	137.9	97.7	126.0	119.7	127.7	178.3	181.1	178.7
	14.2	19.8	24.4	19.7	-11.0	33.7	58.9	-13.1	-41.0	-48.8	-21.8	-30.7
	47.3	54.7	15.1	19.4	30.0	-15.6	44.8	12.1	15.8	47.1	58.3	39.9
Total advanced, by sector 7 U.S. government. 8 Sponsored credit agencies. 9 Monetary authorities. 10 Foreign. Agency and foreign borrowing not in line 1	17.8	9.7	-7.9	~9.4	-2.4	-28.7	2	-6.0	-9.3	5.7	35.1	53.3
	103.5	153.3	169.3	112.0	125.3	146.8	188.2	28.0	126.4	158.4	183.3	138.5
	18.4	19.4	24.7	10.5	-7.3	13.1	8.1	-1.6	-31.2	-4.6	6.7	39.7
	62.3	97.8	62.7	97.6	72.1	99.0	116.7	-4.9	132.4	44.2	22.8	52.6
11 Sponsored credit agencies and mortgage pools	101.5	154.1	171.8	119.8	151.0	149.0	194.0	128.8	124.8	156.4	175.5	145.2
	1.2	9.7	4.5	6.3	10.9	9.9	3.2	-6.9	30.4	16.9	-3.3	46.3
Private domestic funds advanced 13 Total net advances 14 U.S. government securities. 15 State and local obligations. 16 Corporate and foreign bonds 17 Residential mortgages. 18 Other mortgages and loans 19 Less: Federal Home Loan Bank advances	748.8 ^r	720.5	614.5	676.2	650.8	623.6	631.1	772.9	610.1	589.0	687.6	505.5
	278.2	300.1	247.4	192.1	270.5	179.4	258.2	332.2	177.4	314.3	406.2	265.8
	135.4	22.7	49.3	49.8	30.4	56.8	39.7	28.7	34.1	19.1	13.5	21.6
	40.6 ^r	89.7	66.9	91.3	66.0	68.5	36.8	91.1	65.6	70.4	54.5	70.8
	91.8	115.9	120.2	161.3	96.5	133.5	122.6	113.0	105.1	45.5	78.8	-17.5
	216.9 ^r	212.0	155.2	201.4	176.4	219.2	232.8	194.8	187.0	91.0	112.8	134.2
	14.2	19.8	24.4	19.7	-11.0	33.7	58.9	-13.1	-41.0	~48.8	-21.8	-30.7
Private financial intermediation 20 Credit market funds advanced by private financial institutions 21 Commercial banking 22 Savings institutions 23 Insurance and pension funds 24 Other finance	578.0 ^r	730.0	528.4	562.3	522.5	621.4	517.4	581.5	361.7	629.2	365.6	309.9
	188.4 ^r	198.1	135.4	156.3	177.3	144.5	180.4	160.9	183.7	184.3	187.9	127.4
	87.9	107.6	136.8	120.4	-91.3	96.2	46.1	-71.7	-138.1	-201.6	-26.6	-177.1
	150.1 ^r	160.1	179.7	198.7	189.7	209.7	195.7	198.2	156.9	207.8	146.9	195.1
	151.6	264.2	76.6	86.9	246.8	171.0	95.1	294.2	159.2	438.7	57.3	164.6
25 Sources of funds 26 Private domestic deposits and RPs 27 Credit market borrowing 28 Other sources. 29 Foreign funds 30 Treasury balances 31 Insurance and pension reserves 32 Other, net	578.0°	730.0	528.4	562.3	522.5	621.4	517.4	581.5	361.7	629.2	365.6	309.9
	212.1°	277.1	162.8	229.2	223.7	197.5	136.5	278.1	275.4	204.9	122.2	63.3
	99.7	131.0	128.4	127.8	54.5	157.1	162.6	25.3	9	30.9	26.2	5.0
	266.1°	321.8	237.1	205.3	244.3	266.9	218.3	278.1	87.2	393.5	217.3	241.7
	19.7	12.9	43.7	9.3	-11.7	35.3	-3.8	-43.0	30.5	-30.3	50.0	-18.4
	10.3	1.7	-5.8	7.3	-3.4	.5	-12.6	13.9	-19.9	5.0	11.9	-27.1
	131.7°	119.9	135.4	177.6	143.8	215.7	179.5	119.5	96.9	179.2	131.1	173.4
	104.4°	187.3	63.9	11.0	115.6	15.4	55.2	187.6	-20.2	239.6	24.3	113.8
Private domestic nonfinancial investors 33 Direct lending in credit markets. 34 U.S. government securities. 35 State and local obligations. 36 Corporate and foreign bonds. 37 Open market paper. 38 Other.	270.5 ^r	121.5	214.6	241.7	182.8	159.3	276.4	216.7	247.5	-9.4	348.1	200.5
	157.8	27.0	86.0	129.0	136.0	82.3	195.1	160.2	188.8	.0	290.9	105.1
	37.7	-19.9	61.8	53.5	28.3	57.9	56.7	4.4	39.6	12.3	2.5	3.5
	3.8 ^r	52.9	23.3	-9.4	-12.6	32.5	-27.9	8.8	-32.1	.7	31.2	45.1
	51.6 ^r	9.9	15.8	36.4	4.1	33.8	44.6	7.6	20.8	~56.7	6.3	24.9
	19.6	51.7	27.6	32.2	27.1	17.8	7.8	35.8	30.4	34.3	17.1	21.9
39 Deposits and currency 40 Currency 41 Checkable deposits 42 Small time and savings accounts 43 Money market fund shares 44 Large time deposits 45 Security RPs. 46 Deposits in foreign countries	222.8 ^r	297.5	179.3	232.8	239.8	153.3	177.8	301.3	250.0	230.2	146.8	88.5
	12.4	14.4	19.0	14.7	11.7	7.6	17.8	12.8	6.0	10.1	25.9	22.6
	41.4 ^r	96.4	9	12.9	1.7	20.2	-31.6	~40.3	16.3	62.2	-9.2	-53.6
	138.5	120.6	76.0	122.4	100.5	56.5	20.7	111.6	162.2	107.4	104.6	134.9
	7.2 ^r	43.2	28.9	20.2	85.2	60.9	39.4	119.2	116.7	65.6	72.8	5.8
	7.4	-3.2	37.2	40.8	23.1	37.0	68.5	61.1	-23.8	-13.4	-31.3	-41.2
	17.7	20.2	21.6	32.9	13.3	22.9	39.4	26.6	3.9	-16.9	-14.8	17.4
	-1.7 ^r	5.9	-2.5	11.2	4.4	-51.8	23.5	10.4	-31.3	15.2	-1.3	2.6
47 Total of credit market instruments, deposits, and currency	493.3 ^r	419.0	393.9	474.5	422.7	312.5	454.2	518.1	497.5	220.8	495.0	288.9
48 Public holdings as percent of total	23.8	33.1	36.0	27.5	27.3	32.7	41.7	2.3	31.0	32.0	31.4	44.1
	77.2 ^r	101.3	86.0	83.2	80.3	99.6	82.0	75.2	59.3	106.8	53.2	61.3
	82.0	110.7	106.4	106.9	60.4	134.3	112.9	-47.9	162.9	13.9	72.7	34.2
Мемо: Corporate equities not included above 51 Total net issues.	17.2	86.8	10.9	-124.2	-60.7	-173.0	-164.7	~38.1	-54.6	14.6	-8.3	55.7
52 Mutual fund shares	84.4	159.0	73.9	1.1	41.3	9.8	1.0	34.0	57.9	72.4	53.1	76.5
53 Other equities.	-67.2 ^r	-72.2	-63.0	-125.3	-102.0	182.8	-165.7	~72.1	-112.5	-57.8	-61.4	-20.8
54 Acquisitions by financial institutions.	46.9 ^r	50.9	32.0	-2.9	7.2	17.3	2	~14.1	-17.9	60.9	36.7	71.0
55 Other net purchases	-29.7 ^r	35.9	-21.2	-121.4	-67.9	190.3	-164.5	~24.0	-36.7	-46.3	-45.0	-15.4

Notes by Line Number.

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

31. Excludes net investment of these reserves in corporate equities.
32. Mainly retained earnings and net miscellaneous liabilities.
33. Line 13 less line 20 plus line 27.
34-38. Lines 14-18 less amounts acquired by private finance plus amounts borrowed by private finance. Line 38 includes mortgages.
40. Mainly an offset to line 9.
47. Lines 33 plus 39, or line 13 less line 28 plus 40 and 46.
48. Line 2/line 1.
49. Line 20/line 13.
50. Sum of lines 10 and 29.
51, 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.

A44 Domestic Financial Statistics November 1990

1.59 SUMMARY OF CREDIT MARKET DEBT OUTSTANDING

Billions of dollars; period-end levels.

	Transaction category, sector					1988		19	89		19	90			
			1986	1987′	1988′	Q4'	Q1	Q2'	Q3 ^r	Q4'	Q1 ^r	Q2			
		Nonfinancial sectors													
1	Total credit market debt owed by domestic nonfinancial sectors	6,804.5'	7,646.3 ^r	8,343.9	9,096.0	9,096.0	9,267.7'	9,438.6	9,603.6	9,803.5	9,972.6	10,126.6			
2 3 4	By sector and instrument U.S. government Treasury securities Agency issues and mortgages.	1,600.4 1,597.1 3.3	1,815.4 1,811.7 3.6	1,960.3 1,955.2 5.2	2,117.8 2,095.2 22.6	2,117.8 2,095.2 22.6	2,155.7 2,133.4 22.3	2,165.7 2,142.1 23.6	2,204.7 2,180.7 24.0	2,268.0 2,245.2 22.8	2,359.5 2,329.3 30.2	2,397.3 2,365.8 31.6			
5 6 7 8 9 10 11 12 13	Private domestic nonfinancial sectors. Debt capital instruments Tax-exempt obligations Corporate bonds Mortgages Home mortgages Multifamily residential Commercial Farm	5,204.1 ^r 3,485.2 ^r 655.5 542.6 ^r 2,287.1 1,490.2 213.0 478.1 105.9	5,831.0° 3,962.7° 679.1 669.4° 2,614.2 1,720.8 246.2 551.4 95.8	6,383.6 4,427.9 728.4 748.8 2,950.7 1,943.1 270.0 648.7 88.9	6,978,2 4,886,4 790,8 851,7 3,243,8 2,173,9 286,7 696,4 86,8	6,978.2 4,886.4 790.8 851.7 3,243.8 2,173.9 286.7 696.4 86.8	7,111.9° 4,989.1° 798.6' 866.2° 3,324.2° 2,229.0° 293.1° 716.2° 86.0	7,272.9 5,091.4 804.9 887.9 3,398.6 2,287.6 298.3 725.9 86.8	7,398.9 5,189.9 816.4 903.5 3,470.0 2,347.6 301.2 734.9 86.3	7,535.5 5,283.2 821.2 925.3 3,536.6 2,404.3 304.4 742.6 85.3	7,613.1 5,356.3 822.5 935.9 3,597.9 2,450.3 309.2 753.7 84.7	7,729.3 5,432.2 826.8 951.0 3,654.5 2,492.8 313.3 763.3 85.1			
14 15 16 17 18	Other debt instruments Consumer credit Bank loans n.e.c. Open market paper Other	1,718.9 ^r 601.8 602.3 ^r 72.2 442.6	1,868.2 ^r 659.8 666.0 ^r 62.9 479.6	1,955.7 693.2 673.3 73.8 515.3	2,091.9 743.5 713.1 85.7 549.6	2,091.9 743.5 713.1 85.7 549.6	2,122.8 ^r 741.7 725.6 ^r 96.1 559.4	2,181.5 756.7 740.3 110.1 574.4	2,208.9 771.0 750.7 113.3 574.0	2,252.3 790.6 763.0 107.1 591.7	2,256.9 774.3 756.6 126.0 599.9	2,297.1 783.3 764.8 128.7 620.3			
19 20 21 22 23 24 25	By borrowing sector. State and local governments. Households. Nonfinancial business. Farm. Nonfarm noncorporate. Corporate	5,204.1' 473.9 2,296.0' 2,434.2' 173.4 898.3 1,362.4'	5,831,0° 510.1 2,596.1° 2,724.8° 156.6 997.6° 1,570.6°	6,383.6 558.9 2,879.1 2,945.6 145.5 1,075.4 1,724.6	6,978.2 604.5 3,191.5 3,182.2 137.6 1,145.1 1,899.5	6,978.2 604.5 3,191.5 3,182.2 137.6 1,145.1 1,899.5	7,111.9 ^r 612.4 ^r 3,257.9 ^r 3,241.6 ^r 136.7 1,163.9 ^r 1,941.0 ^r	7,272.9 619.9 3,330.5 3,322.5 139.5 1,177.6 2,005.3	7,398.9 629.9 3,411.3 3,357.6 139.2 1,183.0 2,035.4	7,535.5 634.1 3,501.5 3,399.9 139.2 1,195.9 2,064.8	7,613.1 634.3 3,542.8 3,436.0 138.2 1,205.1 2,092.8	7,729.3 636.8 3,600.1 3,492.4 143.8 1,218.6 2,130.0			
26 27 28 29 30	Foreign credit market debt held in United States	236.7' 71.8 27.9 33.9 103.0'	238.3 ^r 74.9 26.9 37.4 99.1 ^r	244.6 82.3 23.3 41.2 97.7	253.9 89.2 21.5 49.9 93.2	253.9 89.2 21.5 49.9 93.2	254.0° 90.4° 21.6 54.4 87.5°	252.2 92.1 21.5 52.7 85.8	257.7 94.2 22.6 57.5 83.4	261.6 94.5 21.4 63.0 82.7	260.5 102.1 19.0 59.3 80.1	273.0 107.5 18.5 65.1 81.9			
31	Total domestic plus foreign	7,041.1	7,884.7	8,588.5	9,349.9	9,349.9	9,521.7	9,690.7	9,861.3	10,065.1	10,233.1	10,399.7			
			l	· · · · · · · · · · · · · · · · · · ·		Fir	nancial sect	ors		[
32	Total credit market debt owed by financial sectors	1,213.2	1,529.8'	1,836.8	2,084.4	2,084.4	2,191.3	2,234.1	2,263.8	2,322.4	2,358.6	2,400.0			
33 34 35 36 37 38 39 40 41 42	By instrument U.S. government related Sponsored credit agency securities Mortgage pool securities Loans from U.S. government Private financial sectors Corporate bonds Mortgages Bank loans n.c.c Open market paper Loans from Federal Home Loan Banks	632.7 257.8 368.9 6.1 580.5 204.5 2.7 32.1 252.4 88.8	810.3' 273.0 531.6' 5.7 719.5 287.4 2.7 36.1 284.6 108.6	978.6 303.2 670.4 5.0 858.2 366.3 3.1 32.8 322.9 133.1	1,098.4 348.1 745.3 5.0 986.1 418.0 3.4 34.2 377.7 152.8	1,098.4 348.1 745.3 5.0 986.1 418.0 3.4 34.2 377.7 152.8	1,140.8 364.3 771.5 5.0 1,050.5 458.6 3.5 32.2 392.5 163.8	1,169.5 369.0 795.6 5.0 1,064.6 466.1 3.5 33.8 399.4 161.9	1,203.6 370.4 828.2 5.0 1,060.2 472.7 3.5 34.1 398.8 151.1	1,249.3 373.3 871.0 5.0 1,073.0 482.7 3.4 36.0 409.1 141.8	1,287.5 376.0 906.5 5.0 1,071.1 492.6 3.2 33.2 409.1 132.9	1,319.7 378.9 935.9 5.0 1,080.3 510.4 3.3 33.5 406.8 126.3			
	Total, by sector	1,213.2	1,529.8	1,836.8	2,084.4	2,084.4	2,191.3	2,234.1	2,263.8	2,322,4	2,358.6	2,400.0			
44 45 46 47 48 49 50 51 52 53	Sponsored credit agencies Mortgage pools Private financial sectors Commercial banks Bank affiliates Savings and loan associations Mutual savings banks Finance companies REITs SCO issuers	263.9 368.9 580.5 79.2 106.2 98.9 4.4 261.2 5.6 25.0	278.7 531.6' 719.5 75.6 116.8 119.8 8.6 328.1 6.5 64.0	308.2 670.4 858.2 81.8 131.1 139.4 16.7 378.8 7.3 103.1	353.1 745.3 986.1 78.8 136.2 159.3 18.6 446.1 11.4 135.7	353.1 745.3 986.1 78.8 136.2 159.3 18.6 446.1 11.4 135.7	369.3 771.5 1,050.5 73.3 140.0 170.1 17.8 464.3 11.1 173.8	374.0 795.6 1,064.6 75.7 141.2 167.9 17.7 478.0 10.6 173.5	375.4 828.2 1,060.2 77.0 144.0 155.7 17.5 481.2 10.0 174.9	378.3 871.0 1,073.0 77.4 142.5 145.2 17.2 496.2 10.1 184.4	381.0 906.5 1,071.1 73.4 140.8 137.0 15.4 501.3 10.1 193.1	383.8 935.9 1,080.3 76.1 133.0 128.7 16.3 510.9 9.7 205.7			
		All sectors													
	Total credit market debt	8,254.4 ^r	9,414.4 ^r	10,425.3	11,434.3	11,434.3	11,712.9	11,924.8	12,125.1	12,387.4	12,591.7	12,799.7			
55 56 57 58 59 60 61 62	U.S. government securities State and local obligations Corporate and foreign bonds Mortgages Consumer credit Bank loans n.e.c. Open market paper Other loans	2,227.0 655.5 818.9' 2,289.8 601.8 662.4' 358.5 640.5'	2,620.0° 679.1 1,031.7° 2,617.0 659.8 729.0° 384.9 693.1°	2,933.9 728.4 1,197.4 2,953.8 693.2 729.5 437.9 751.1	3,211.1 790.8 1,358.9 3,247.2 743.5 768.9 513.4 800.5	3,211.1 790.8 1,358.9 3,247.2 743.5 768.9 513.4 800.5	3,291.5 798.6' 1,415.2' 3,327.7' 741.7 779.5' 543.0' 815.7'	3,330.3 804.9 1,446.1 3,402.1 756.7 795.6 562.2 827.0	3,403.3 816.4 1,470.5 3,473.6 771.0 807.4 569.6 813.4	3,512.4 821.2 1,502.6 3,540.1 790.6 820.3 579.2 821.1	3,642.0 822.5 1,530.7 3,601.1 774.3 808.9 594.5 817.8	3,712.1 826.8 1,568.9 3,657.7 783.3 816.9 600.5 833.6			

1.60 SUMMARY OF CREDIT MARKET CLAIMS, BY HOLDER

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

	.0	4000		40	1988		19	15	990		
Transaction category, or sector	1985′	1986′	1987"	1988′	Q4'	Q1′	Q2'	Q3 ^r	Q4'	Q1'	Q2
1 Total funds advanced in credit markets to domestic nonfinancial sectors.	6,804.5	7,646.3	8,343.9	9,096.0	9,096.0	9,267.7	9,438.6	9,603.6	9,803.5	9,972.6	10,126.6
By public agencies and foreign 2 Total held. 3 U.S. government securities 4 Residential mortgages 5 FHLB advances to thrifts 6 Other loans and securities.	1,474.0	1,779.4	2,006.6	2,199.7	2,199.7	2,257.0	2,266.9	2,323.3	2,386.5	2,428.9	2,504.7
	435.4	509.8	570.9	651.5	651.5	666.1	646.1	674.5	689.4	686.4	714.0
	518.2	678.5	814.1	900.4	900.4	927.2	954.4	991.1	1,038.4	1,078.9	1,120.8
	88.8	108.6	133.1	152.8	152.8	163.8	161.9	151.1	141.8	132.9	126.3
	431.6	482.4	488.6	495.1	495.1	500.0	504.5	506.6	517.0	530.7	543.6
7 Total held, by type of lender 8 U.S. government 9 Sponsored credit agencies and mortgage pools 10 Monetary authority	1,474.0	1,779.4	2,006.6	2,199.7	2,199.7	2,257.0	2,266.9	2,323.3	2,386.5	2,428.9	2,504.7
	248.6	255.3	240.0	217.6	217.6	212.9	211.5	207.8	207.1	216.6	231.1
	659.8	835.9	1,001.0	1,113.0	1,113.0	1,151.1	1,157.8	1,193.5	1,238.2	1,275.4	1,309.5
	186.0	205.5	230.1	240.6	240.6	235.4	238.4	227.6	233.3	224.4	237.8
	379.5	482.8	535.5	628.5	628.5	657.6	659.2	694.5	707.9	712.5	726.3
Agency and foreign debt not in line 1 Sponsored credit agencies and mortgage pools	632,7	810.3	978.6	1,098.4	1,098.4	1,140.8	1,169.5	1,203.6	1,249.3	1,287,5	1,319.7
	236,7	238.3	244.6	253.9	253.9	254.0	252,2	2,57.7	261.6	260,5	273.0
Private domestic holdings 1 Total private holdings 1 Total private holdings 1 U.S. government securities 16 State and local obligations 17 Corporate and foreign bonds 18 Residential mortgages 19 Other mortgages and loans 20 Less: Federal Home Loan Bank advances	6,199.9	6,915.6	7,560.4	8,248.5	8,248.5	8,405.4	8,593.3	8,741.5	8.927.9	9,091.7	9,214.7
	1,791.6	2,110.1	2,363.0	2,559.7	2,559.7	2,625.4	2,684.1	2,728.8	2.823.0	2,955.5	2,998.1
	655.5	679.1	728.4	790.8	790.8	798.6	804.9	816.4	821.2	822.5	826.8
	517.3	606.6	674.3	765.6	765.6	776.5	797.7	814.5	831.6	846.8	862.5
	1,185.1	1,288.5	1,399.0	1,560.2	1,560.2	1,594.9	1,631.5	1,657.7	1.670.4	1,680.6	1,685.2
	2,139.3	2,339.8	2,528.7	2,724.9	2,724.9	2,773.7	2,836.9	2,875.2	2.923.5	2,919.1	2,968.4
	88.8	108.6	133.1	152.8	152.8	163.8	161.9	151.1	141.8	132.9	126.3
Private financial intermediation 11 Credit market claims held by private financial institutions. 12 Commercial banking 13 Savings institutions 14 Insurance and pension funds 15 Other finance.	5,289,4	6,018.0	6,564.5	7,128.6	7,128.6	7,273.3	7,430.5	7,518.2	7,674,1	7,760.9	7,851.6
	1,989,5	2,187.6	2,323.0	2,479.3	2,479.3	2,501.4	2,549.0	2,599.6	2,656,6	2,680.4	2,721.1
	1,191,2	1,297.9	1,445.5	1,567.7	1,567.7	1,570.6	1,561.0	1,530.3	1,480,3	1,461.2	1,425.4
	1,365,3	1,525.4	1,705.1	1,903.8	1,903.8	1,957.8	2,004.9	2,042.7	2,093,4	2,135.7	2,181.4
	743,4	1,007.1	1,091.0	1,177.9	1,177.9	1,243.5	1,315.6	1,345.5	1,443,8	1,483.6	1,523.7
26 Sources of funds	5,289.4	6,018.0	6,564.5	7,128.6	7,128.6	7,273.3	7,430.5	7,518.2	7,674.1	7,760.9	7,851.6
	2,926.1	3,199.0	3,354.2	3,599.1	3,599.1	3,629.1	3,680.0	3,741.3	3,822.8	3,849.8	3,843.9
	580.5	719.5	858.2	986.1	986.1	1,050.5	1,064.6	1,060.2	1,073.0	1,071.1	1,080.3
29 Other sources 30 Foreign funds 31 Treasury balances 32 Insurance and pension reserves. 33 Other, net.	1,782.9	2,099.5	2,352.1	2,543.5	2,543.5	2,593.7	2,685.9	2,716.6	2,778.3	2,840.0	2,927.4
	5.6	18.6	62.3	71.5	71.5	61.8	50.0	55.7	59.9	62.8	58.2
	25.8	27.5	21.6	29.0	29.0	13.5	34.4	30.3	25.6	16.7	29.1
	1,289.3	1,398.5	1,527.8	1,692.5	1,692.5	1,741.8	1,774.0	1,793.2	1,829.9	1,867.1	1,918.3
	462.1	655.0	740.3	750.5	750.5	776.6	827.5	837.4	862.9	893.3	921.8
Private domestic nonlinancial investors 34 Credit market claims 35 U.S. government securities 36 Tax-exempt obligations. 37 Corporate and foreign bonds 38 Open market paper 39 Other.	1,491.0	1,617.0	1,854.1	2,106.0	2,106.0	2,182.6	2,227.4	2,283.6	2,326.8	2,401.9	2,443.4
	803.3	848.7	936.7	1,072.2	1,072.2	1,099.1	1,119.8	1,166.6	1,201.0	1,279.7	1,286.3
	231.5	212.6	274.4	340.9	340.9	348.9	353.6	363.1	369.2	363.0	367.0
	37.1	90.5	114.0	100.4	100.4	123.6	125.1	121.2	117.2	125.4	136.7
	135.2	145.1	178.5	218.0	218.0	225.1	233.5	235.9	227.4	219.0	232.6
	283.8	320.1	350.4	374.4	374.4	386.0	395.3	396.8	412.1	414.7	420.9
40 Deposits and currency. 41 Currency. 42 Checkable deposits. 43 Small time and savings accounts. 44 Money market fund shares. 45 Large time deposits. 46 Security RPs. 47 Deposits in foreign countries.	3,116.8	3,410.1	3,583.9	3,832.3	3,832.3	3,865.5	3,927.1	3,977.2	4,072.1	4,098.1	4,103.5
	171.9	186.3	205.4	220.1	220.1	220.7	226.4	224.4	231.8	234.4	242.6
	420.3	516.6	515.4	527.2	527.2	494.6	495.8	487.2	528.9	501.9	499.0
	1,831.9	1,948.3	2,017.1	2,156.2	2,156.2	2,168.9	2,189.3	2,224.4	2,256.7	2,290.4	2,316.9
	225.6	268.9	297.8	318.0	318.0	342.7	362.1	391.0	403.3	436.7	426.3
	339.9	336.7	373.9	414.7	414.7	430.8	435.7	440.0	437.8	429.2	407.1
	108.3	128.5	150.1	182.9	182.9	192.1	197.1	198.6	196.2	191.6	194.5
	18.8	24.8	24.3	13.1	13.1	15.8	20.7	11.4	17.6	13.9	17.0
48 Total of credit market instruments, deposits, and currency	4,607.8	5,027.2	5,438.0	5,938.2	5,938.2	6,048.1	6,154.5	6,260.8	6,399.0	6,500.0	6,546.9
49 Public holdings as percent of total	20.9	22.6	23.4	23.5	23.5	23.7	23.4	23.6	23.7	23.7	24.1
	85.3	87.0	86.8	86.4	86.4	86.5	86.5	86.0	86.0	85.4	85.2
	385.1	501.3	597.8	700.1	700.1	719.5	709.3	750.2	767.8	775.3	784.5
MEMO: Corporate equities not included above 52 Total market value	2,823.9	3,360.6	3,325.0	3,619.8	3,619.8	3,730.8	4,071.3	4,398.7	4,382.1	4,172.4	4,339.8
53 Mutual fund shares	240.2	413.5	460.1	478.3	478.3	486.3	514.8	543.9	555.1	550.3	587.9
	2,583.7	2,947.1	2,864.9	3,141.6	3,141.6	3,244.5	3,556.5	3,854.8	3,827.0	3,622.1	3,751.9
55 Holdings by financial institutions	800.3	974.6	1,039.5	1,176.1	1,176.1	1,241.6	1,354.4	1,490.5	1,497.8	1,438.4	1,539.8
	2,023.6	2,385.9	2,285.5	2,443.7	2,443.7	2,489.2	2,716.9	2,908.2	2,884.3	2,734.0	2,800.0

Notes by Line Number.

1. Line 1 of table 1.59.
2. Sum of lines 3-6 or 7-10.
6. Includes farm and commercial mortgages.
12. Credit market debt of federally sponsored agencies, and net issues of federally related mortgage pool securities.
14. Line 1 Jess line 2 plus line 12 and 13. Also line 21 less line 28 plus line 34. Also sum of lines 29 and 48 less lines 41 and 47.
19. Includes farm and commercial mortgages.
27. Line 40 less lines 41 and 47.
28. Excludes equity issues and investment company shares. Includes line 20.
30. Foreign deposits at commercial banks plus bank borrowings from foreign affiliates, less claims on foreign affiliates and deposits by banking in foreign banks.
31. Demand deposits and note balances at commercial banks.

32. Excludes net investment of these reserves in corporate equities.
33. Mainly retained earnings and net miscellaneous liabilities.
34. Line 14 less line 21 plus line 28.
35-39. Lines 15-19 less amounts acquired by private finance plus amounts borrowed by private finance. Line 39 includes mortgages.
41. Mainly an offset to line 10.
48. Lines 34 plus 40, or line 14 less line 29 plus 41 and 47.
49. Line 21/line 1 and 13.
50. Line 21/line 14.
51. Sum of lines 11 and 30.
52-54. 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, Stop 95. 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 Measures

1977 = 100; monthly and quarterly data are seasonally adjusted. Exceptions noted.

	1005	1988	1000	1989	1990								
Measure	1987	1988	1989	Dec.	Jan.	Feb.	Mar.	Apr.	May	June'	July'	Aug.	
! Industrial production (1987 = 100) ¹	100.0	105.4	108.1	108.6	107.5	108.5	108.9	108.8	109.4	110.0	110.0	109.8	
Market groupings 2 Products, total (1987 = 100). 3 Final, total (1987 = 100). 4 Consumer goods (1987 = 100). 5 Equipment (1987 = 100). 6 Intermediate (1987 = 100). 7 Materials (1987 = 100).	100.0 100.0 100.0 100.0 100.0 100.0	105.3 105.6 104.0 107.6 104.4 105.6	108.6 109.1 106.7 112.3 106.8 107.4	109.7 110.3 108.3 112.9 107.9 106.9	108.4 108.5 106.0 111.8 108.0 106.2	109.4 109.7 107.0 113.3 108.4 107.1	110.1 110.7 107.5 114.9 108.2 107.1	109.8 110.4 107.2 114.7 108.0 107.3	110.5 111.2 107.4 116.2 108.3 ^r 107.7 ^r	111.0 111.7 108.1 116.5 108.5 108.5	110.7 111.4 107.5 116.4 108.4 109.0	110.6 111.2 107.7 115.8 108.8 108.6	
Industry groupings 8 Manufacturing (1987 = 100)	100.0	105.8	108.9	108.8	108.1	109.6	109.8	109.5	110.3	110.7	110.8	110.6	
Capacity utilization (percent) ² 9 Manufacturing	81.4	83.9	83.9	82.8	82.0	83.0	82.9	82.5	82.8	82.9	82.7	82.4	
10 Construction contracts $(1982 = 100)^3$	164.8	166.4	171.3"	166.0	158.0	154.0	157.0	147.0	155.0	153.0	148.0	146.0	
11 Nonagricultural employment, total ⁴ 12 Goods-producing, total 13 Manufacturing, total 14 Manufacturing, production-worker 15 Service-producing. 16 Personal income, total. 17 Wages and salary disbursements. 18 Manufacturing 19 Disposable personal income ⁵ 20 Retail sales ⁶	123.9 101.5 96.7 91.9 133.3 234.3 226.4 183.8 213.6 213.6	128.0 103.7 98.6 93.9 138.2 253.2 244.6 196.5 228.0 228.0	131.6 105.3 99.6 94.8 142.7 272.7 258.9 203.1 240.6 240.6	132.6' 103.6' 98.0' 92.8' 144.8' 279.7 263.9 202.5 277.2 242.8	133.0° 103.5° 97.4° 92.0° 145.3° 281.9 264.9 201.1 279.9 249.6	133.3' 104.1' 97.8' 92.5' 145.6 283.8 266.9 203.0 281.7 249.7	133.5' 103.8' 97.6' 92.4' 146.0' 285.8 268.6 204.6 283.9 248.7	133.6' 103.4' 97.5' 92.3' 146.2' 286.7 269.9 204.2 283.9 246.3	134.1' 103.5' 97.4' 92.1' 147.0' 287.7 271.0 205.9 284.8 246.1	134.4 103.4 97.3 92.0 147.4 289.0 272.6 206.8 286.5 248.9	134.3 103.1 97.2 92.0 147.3 290.7 274.2 207.3 288.0 249.9	134.2 102.7 96.9 91.7 147.4 n.a. n.a. n.a. 248.5	
Prices ⁷ 21 Consumer (1982–84 = 100)	113.6 105.4	118.3 108.0	124.0 113.6	126.1 115.4	127.4 117.6	128.0 117.4	128.7 117.2	128.9 117.2'	129.2 117.7	129.9 117.9	130.4 118.0	131.6 119.2	

^{1.} A major revision of the industrial production index and the capacity utilization rates was released in April 1990. See "Industrial Production: 1989 Developments and Historical Revision" in the Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187-204.

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.

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.

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

and indexes for series mentioned in notes 3 and 7 may also be found in the Survey of Current Business. Figures for industrial production for the latest month are preliminary and the prior three months have been revised. See "Recent Developments in Industrial Capacity and Utilization," Federal Reserve Bulletin, vol. 76 (June 1990), pp. 411-35.

2.11 LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

Thousands of persons; monthly data are seasonally adjusted. Exceptions noted.

				1990'									
Category	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.		
Household Survey Data													
1 Noninstitutional population ¹	185,010	186,837	188,601	189,506	189,607	189,717	189,844	189,983	190,122	190,275	190,411		
2 Labor force (including Armed Forces) ¹ 3 Civilian labor force	122,122 119,865	123,893 121,669	126,077 123,869	126,610 124,397	126,825 124,630	127,017 124,829	127,061 124,886	127,159 125,004	126,981 124,836	126,906 124,767	126,810 124,660		
4 Nonagricultural industries ²	109,232 3,208	111,800 3,169	114,142 3,199	114,728 3,134	114,957 3,079	115,133 3,200	114,983 3,133	115,045 3,305	115,041 3,348	114,867 3,085	114,521 3,137		
6 Number	7,425 6.2 62,888	6,701 5.5 62,944	6,528 5.3 62,524	6,535 5.3 62,896	6,594 5.3 62,782	6,495 5.2 62,700	6,770 5.4 62,783	6,653 5.3 62,824	6,447 5.2 63,141	6,814 5.5 63,369	7,003 5.6 63,601		
ESTABLISHMENT SURVEY DATA													
9 Nonagricultural payroll employment ³	102,200	105,584	108,573	109,654	109,958	110,122	110,177	110,617	110,829	110,740	110,665		
10 Manufacturing. 11 Mining. 12 Contract construction 13 Transportation and public utilities 14 Trade. 15 Finance 16 Service. 17 Government.	19,024 717 4,967 5,372 24,327 6,547 24,236 17,010	19,403 721 5,125 5,548 25,139 6,676 25,600 17,372	19,611 722 5,302 5,703 25,807 6,814 26,889 17,726	19,171 723 5,294 5,790 26,163 6,794 27,721 17,998	19,244 727 5,368 5,804 26,115 6,817 27,842 18,041	19,217 729 5,313 5,808 26,125 6,821 27,950 18,159	19,190 734 5,256 5,809 26,141 6,823 27,969 18,255	19,167 738 5,286 5,833 26,164 6,838 28,094 18,497	19,148 744 5,270 5,846 26,205 6,844 28,225 18,547	19,126 743 5,231 5,840 26,224 6,843 28,284 18,449	19,081 736 5,191 5,849 26,214 6,852 28,356 18,386		

^{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).

A48 Domestic Nonfinancial Statistics November 1990

2.12 OUTPUT, CAPACITY, AND CAPACITY UTILIZATION¹

Seasonally adjusted

Series			1989		1990		1989		1990		1989		1990	
			Q3	Q4	Q1	Q2′	Q3	Q4	Q1	Q2	Q3	Q4'	Q1	Q2'
		Output (19	087 = 100))	Capac	ity (percer	t of 1987	output)	Utilization rate (percent)					
1 Total industry			108.1	108.1	108.3	109.4	128.8	129.5	130.3	131.2	84.0	83.5	83.1	83.4
2 Mining			100.8 106.2	100.6 110.6	101.3 105.7	102.6 107.6	116.7 125.5	116.1 125.7	115.7 126.0	115.2 126.4	86.4 84.6	86.7 88.0	87.6 83.9	89.0 85.2
4 Manufacturing			108.9	108.7	109.2	110.2	130.2	131.1	132.1	133.2	83.7	82.9	82.6	82.7
5 Primary processing			106.4 110.1	106.1 109.9	106.4 110.5	106.3 112.0	122.7 133.7	123.4 134.7	124.2 135.8	124.9 137.0	86.7 82.4	85.9 81.6	85.7 81.4	85,1 81.8
	Previou	is cycle ²	Latest	cycle ³	19	189	1990							
	High	Low	High	Low	Aug.	Dec.	Jan.	Feb.	Маг.	Apr.	May'	June'	July'	Aug.p
						Capaci	ty utilizat	ty utilization rate (percent)						
7 Total industry	89.2	72.6	87.3	71.8	84.0	83.7	82.7	83.2	83.4	83.1	83.4	83.6	83.5	83.1
8 Mining 9 Utilities	94.4 95.6	88.4 82.5	96.6 88.3	80.6 76.2	86.4 84.7	86.3 92.3	87.8 84.8	87.3 82.5	87.5 84.2	89.2 84.5	88.7 84.7	89.1 86.3	89.7 85.9	87.8 86.9
10 Manufacturing	88.9	70.8	87.3	70.0	83.8	82.8	82.0	83.0	82.9	82.5	82.8	82.9	82.7	82.4
11 Primary processing 12 Advanced processing	92.2 87.5	68.9 72.0	89.7 86.3	66.8 71.4	86.9 82.4	85.2 81.8	85.7 80.5	86.1 81.7	85.2 82.0	85.0 81.5	84.9 82.0	85.5 81.9	85.8 81.5	85.5 81.1

^{1.} These data also appear in the Board's G.17 (419) release. For address, see inside front cover. For a detailed description of the series, see "Recent Developments in Industrial Capacity and Utilization," Federal Reserve Bulletin, vol. 76 (June 1990), pages 411-35.

Monthly high 1973; monthly low 1975.
 Monthly highs 1978 through 1980; monthly lows 1982.

2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value¹ Monthly data are seasonally adjusted

_	Monthly data are seasonary adje	1987 pro-	1989			1989						19	90			
	Groups	por- tion	avg.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May'	June'	July'	Aug.p
									Index	(1987 =	= 100)					
	Major Market															
1	Total index	100.0	108.1	108.2	108.2	107.7	108.1	108.6	107.5	108.5	108.9	108.8	109.4	110.0	110.0	109.8
	Products	60.8	108.6	108.5	108.8	108.1	108.9	109.7	108.4	109.4	110.1	109.8	110.5	111.0	110.7	110,6
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Final products Consumer goods Durable consumer goods Automotive products Autos and trucks Autos, consumer Trucks, consumer Auto parts and allied goods Other Appliances, A/C, and TV. Carpeting and furniture. Miscellaneous home goods Nondurable consumer goods Foods and tobacco Clothing Chemical products Paper products Energy Fuels Residential utilities	46.0 26.0 5.6 2.5 1.5 .9 .6 1.0 3.1 .8 .9 1.4 20.4 9.1 2.5 2.5 2.7 7.7 7.7	109.1 106.7 107.9 106.9 105.7 101.2 113.3 108.7 101.5 104.5 104.4 104.2 101.6 104.2 101.6 104.2 101.6 104.3 106.7	109.1 105.6 105.8 103.2 101.1 95.1 111.3 106.3 107.9 106.5 98.1 114.8 105.6 103.3 100.3 110.1 114.1 104.7	109.6 106.3 107.6 104.9 103.1 102.0 105.0 107.4 109.8 109.3 100.9 115.8 106.0 103.7 101.6 107.8 116.2 106.0	108.5 107.3 106.8 102.9 99.7 100.7 98.2 107.6 109.8 107.6 101.1 116.6 101.4 105.6 101.9 110.3 117.2 106.0	109.4 107.7 102.4 98.4 92.8 108.0 108.2 108.4 102.0 100.4 107.1 107.8 105.8 100.1 111.3 118.1 108.0 109.8	110.3 108.3 106.8 104.5 100.1 92.6 111.2 108.6 101.0 102.0 117.1 108.7 106.4 99.4 110.3 116.9 115.2 100.5	106.5 106.0 99.4 85.2 66.3 62.1 73.3 113.6 110.6 108.4 103.7 116.2 107.8 105.5 100.6 112.7 116.2	109.7 107.0 106.2 99.3 92.7 86.9 102.3 109.4 111.6 107.8 104.7 118.2 106.2 99.6 112.0 117.6 101.5	116.7 107.5 110.8 109.3 107.7 100.5 120.0 111.6 112.0 108.1 105.9 118.0 106.6 105.8 97.0 111.0 116.4 103.1 101.8	110.4 107.2 107.3 102.4 95.8 87.7 109.3 112.2 111.2 104.4 107.5 117.3 105.6 96.0 113.5 118.1 104.1 101.6	111.2 107.4 109.3 107.0 105.6 96.8 120.4 108.9 111.1 103.6 107.6 117.5 106.9 105.2 96.4 113.0 118.6 104.1 98.2	111.7 108.1 112.1 112.2 112.9 103.8 128.3 111.2 107.5 107.8 117.2 104.9 95.8 112.0 104.9	111.4 107.5 109.2 107.4 104.8 98.0 116.2 111.3 110.7 101.9 108.6 116.9 107.0 104.9 107.0 104.1 110.5 120.2 107.8 105.7 108.5	107.7 107.7 105.3 101.5 97.2 108.8 110.9 109.7 100.7 108.3 115.5 107.6 105.4 96.0 110.8 121.4 109.1
23	Equipment, total	20.0	112.3	113.6	113.8	110.1	112.0	112.9	111.8	113.3	114.9	114.7	116.2	116.5	116.4	115.8
24 25 26 27 28 29 30 31 32 33	Business equipment Information processing and related Office and computing Industrial Transit Autos and trucks Other Defense and space equipment Oil and gas well drilling Manufactured homes.	13.9 5.6 1.9 4.0 2.5 1.2 1.9 5.4 .6	119.1 121.7 137.2 113.8 123.8 103.9 116.5 97.4 93.7 92.3	120.4 122.0 139.3 113.8 128.4 101.6 118.6 98.9 95.3 89.5	120.7 123.7 141.8 113.8 127.0 103.1 119.1 98.9 97.3 87.5	116.0 119.9 132.8 112.4 112.9 97.6 116.3 96.6 97.3 87.9	118.7 123.5 141.0 113.4 117.0 98.0 117.8 96.7 99.9 89.4	119.9 124.0 142.7 112.8 123.4 97.6 118.5 96.6 100.3 91.6	118.0 124.0 142.7 113.5 111.4 69.6 118.7 97.5 98.3 91.6	120.1 124.7 144.3 113.4 122.7 91.7 117.4 97.6 100.1 94.3	122.2 126.0 147.2 113.9 130.6 104.5 117.8 97.5 106.0 92.9	121.6 126.4 149.3 114.2 126.2 95.2 117.6 97.3 114.3 89.7	123,5 126,6 148,9 115,8 132,5 105,7 119,4 97,6 118,6 91,3	123.9 125.5 148.1 115.5 136.8 112.3 119.9 97.5 122.7 92.8	123.8 126.0 149.3 116.8 133.7 103.7 119.2 98.0 115.8 90.0	123.6 125.8 149.9 116.2 134.0 118.9 97.4 106.4 92.8
34 35 36	Intermediate products, total Construction supplies Business supplies	14.7 6.0 8.7	106.8 106.1 107.3	106.4 105.5 106.9	106.3 105.2 107.0	106.9 106.3 107.3	107.3 107.0 107.5	107.9 107.4 108.2	108.0 107.9 108.0	108.4 108.2 108.5	108.2 107.3 108.9	108.0 106.4 109.1	108.3 105.5 110.2	108.5 106.0 110.3	108.4 105.4 110.5	108.8 105.3 111.2
37	Materials, total	39.2	107.4	107.8	107.4	107.1	197.0	106.9	106.2	107.1	107.1	107.3	107.7	108.5	109.0	108.6
38 39 40 41 42 43 44 45 46 47 48 49 50	Durable goods materials Durable consumer parts Equipment parts Other Basic metal materials Nondurable goods materials Textile materials. Pulp and paper materials Chemical materials Other Energy materials Primary energy Converted fuel materials	19.4 4.2 7.3 7.9 2.8 9.0 1.2 1.9 3.8 2.1 10.9 7.2 3.7	111.6 109.0 114.7 110.2 112.1 105.3 99.8 103.8 106.4 107.6 101.4 99.9 104.3	112.0 109.2 115.6 110.4 113.0 105.7 102.1 103.6 107.3 107.0 101.7 102.5 100.4	112.0 108.8 115.5 110.6 112.9 104.2 99.6 104.1 104.5 106.5 101.6 100.7 103.6	110.8 106.9 114.4 109.5 111.0 106.1 98.6 107.7 106.8 107.5 101.3 99.8 104.2	110.8 105.7 115.3 109.4 108.6 104.9 96.1 104.6 105.8 108.4 101.9 100.5	110.4 102.5 115.8 109.5 109.3 104.3 95.8 103.7 103.8 110.4 102.7 99.0	109.4 96.5 116.5 109.7 108.5 105.4 94.6 105.0 105.8 110.9 101.2 101.1	110.8 102.8 117.6 108.7 109.9 105.8 96.2 105.3 107.3 108.8 101.7 102.1 100.9	110.9 104.5 117.6 108.1 107.5 105.2 94.9 103.0 107.5 108.7 102.0 101.2 103.4	110.9 103.2 117.4 108.9 110.2 106.1 95.6 106.0 107.4 109.8 101.8 100.3 104.6	112.5 108.5 118.1 109.6 109.2 105.2 97.4 104.5 105.4 109.8 101.1 100.1	113.7 108.5 118.9 111.6 113.4 106.2 99.4 104.8 107.3 109.0 101.3 99.9 104.1	113.9 108.4 119.0 112.0 113.9 107.1 98.5 107.6 107.8 110.0 102.1 101.3	113.9 109.7 118.8 111.6 114.2 106.3 97.7 106.8 107.1 109.2 101.1 99.5 104.1
	SPECIAL AGGREGATES											{	,			
52	Total excluding autos and trucks Total excluding motor vehicles and parts Total excluding office and computing machines	97.3 95.3 97.5	108.2 108.3	108.4 108.5 107.5	108.4 108.5	108.0 108.1 107.1	108,4 108.6	108.9 109.1 107.7	108.6 109.0 106.6	108.9 109.2 107.6	109.0 109.2 108.0	109.2 109.5 107.8	109.5 109.7 108.4	109.9 110.1 109.0	110.2 110.4 109.0	110.0 110.2 108.8
	Consumer goods excluding autos and trucks	24.5	106.8	105.9	106.5	107.7	107.9	108.8	108.4	107.8	107.5	107.9	107.6	107.8	107.7	108.0
56	Consumer goods excluding energy Business equipment excluding autos and trucks	23.3 12.7	106.7 120.6	105.8	106.4	107.4 117.8	107.3 120.7	107.5 122.1	105.8 122.8	107.6	108.0 124.0	107.5	107.8	108.1 125.0	107.5 125.8	107.5
	Business equipment excluding office and computing equipment	12.0 28.4	116.2 109.6	117.4 110.0	117.3 109.5	113.3 109.3	115.0 108.9	116,2 108,4	114.0 108.1	116.2 109.2	118.2 109.1	117.2 109.4	119.4 110.2	119,9 111.3	119.7 111.7	119.3 111.5

2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value¹—Continued

	SIC	1987 pro-	1989			1989	-					19	90			
Groups	code	por- tion	avg.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^r	July	Aug. ^p
									Index	(1987 =	: 100)					
Major Industry																
1 Total index		100.0	108.1	108.2	108.2	107.7	108.1	108.6	107.5	108.5	108.9	108.8	109.4	110.0	110.0	109.8
2 Manufacturing		84.4 26.7 57.7	108.9 106.4 110.1	109.1 106.6 110.2	109.1 105.8 110.6	108.4 106.6 109.3	108.9 106.2 110.1	108.8 105.3 110.4	108,1 106.2 109.0	109.6 106.9 110.9	109.8 106.0 111.7	109.5 105.9 111.3	110.3 106.1 112.4	110.7 107.0 112.5	110.8 107.6 112.2	110.6 107.5 112.1
5 Durable	24		110,9 103.0 105.3	111.3 102.4 104.5	111.5 102.6 105.7	109.4 103.2 105.6	110.1 104.8 104.4	110.4 106.4 105.1	108.6 106.0 105.1	110.7 104.3 104.8	111.9 105.0 105.9	111.1 103.3 107.6	112.6 101.7 108.0	113.2 101.6 108.7	112.9 101.1 108.7	112.6 101.3 108.6
products	331,2	3.3 1.9 .1	108.0 109.2 109.3 108.5 109.0	107.8 111.7 109.8 106.8 114.0	106.5 109.9 109.7 102.9 109.8	107.7 108.6 109.2 106.4 107.6	108.2 104.8 104.1 100.6 105.8	108.6 102.6 100.3 97.6 105.8	110.0 105.0 104.6 109.9 105.6	108.0 107.9 110.6 109.0 104.0	107.7 105.4 106.1 105.9 104.3	105.1 106.4 106.7 104.9 105.9	106.4 106.2 105.5 107.6 107.1	106.1 109.6 110.5 111.8 108.3	105.4 109.4 109.7 113.8 108.9	105.1 110.6 112.6 117.1 107.8
13 Fabricated metal products	34 y. 35	5.4	107.2 121.8	106.5 121.8	106.0 123.4	105.9 119.0	106.9 122.9	106.3 123.8	105.1 123.7	105.6 124.2	105.5 125.2	105.0 125.7	107.1 107.1 126.9	106.8 126.6	107.7 127.3	107.4 126.6
15 Office and computing machines	357	8.6	137.2 109.5	139.3 110.6	141.8 110.8	132.8 110.2	141.0 110.1	142.7 110.1	142.7 110.1	144.3 111.0	147.3 112.3	149.3 111.3	149.0 112.4	148.2 112.7	149.3 111.9	149.9 111.8
equipment 18 Motor vehicles and			107.2	107.8	108.0	102.1	102.8 99.0	104.4 98.7	94.7 76.8	103.5 94.1	107.9	95.8	109.0	110.9	109.1	108.6
parts	s	2.3	105.0	100.2	102.9	99.9	97.6	99.0	65.7	91.8	106.7	94.6	104.3	111.6	103.8	100.9
21 Instruments	38	3.3	109.3 116.4 114.9	112.4 116.4 116.5	112.3 116.2 116.2	104.3 116.1 116.9	106.3 115.6 117.0	109.6 114.8 116.4	111.0 116.0 117.0	111.9 116.2 118.1	111.9 115.7 118.6	113.4 115.8 118.6	113.5 116.5 119.1	113.5 115.0 119.6	114.7 115.7 119.9	114.3 115.4 119.7
23 Nondurable	20 21 22 23 26 27 3 28	1.0 1.8 2.4 3.6 6.4 8.6	106.4 105.5 99.7 101.9 104.3 103.2 108.5 108.5	106.2 104.8 95.0 101.5 104.7 103.0 107.8 109.6	106.0 105.4 93.3 101.5 104.5 102.2 109.4 107.5 108.7	107.2 106.8 99.7 101.9 103.9 105.3 109.3 109.4 106.9	107.3 107.4 98.8 99.3 103.7 104.1 109.6 109.8 109.3	106.7 108.0 98.5 99.8 102.6 103.4 109.6 107.6 104.3	107.5 106.8 101.3 100.6 102.4 103.8 110.7 109.9 108.6	108.3 107.4 102.3 103.0 102.1 105.0 112.1 110.5 112.0	107.2 107.1 100.0 99.8 99.8 102.8 111.4 109.5 109.1	107.5 107.0 98.8 100.9 98.7 105.3 112.0 110.3 106.8	107.4 106.8 97.2 102.7 99.2 104.0 112.8 109.2 104.6	107.6 106.6 95.6 103.6 99.3 104.2 112.2 109.9 106.0	108.1 106.8 97.7 103.8 99.7 107.5 112.4 109.4 109.0	108.1 107.2 96.7 103.0 99.3 106.7 113.0 109.5 108.4
products	30 31		108.9 103.7	109.0 103.2	108.5 103.5	108.8 102.2	109.1 99.4	110.1 103.0	110.7 104.3	109.1 102.9	109.8 103.3	109.0 102.6	110.9 103.5	112.8 102.0	113.1 103.4	112.5 102.3
34 Mining 35 Metal 36 Coal 37 Oil and gas extraction 38 Stone and earth minerals	11,12	1.2 5.7	100.5 141.4 105.7 95.5 113.9	100.7 144.3 103.1 96.3 113.3	101.6 145.4 109.6 95.9 114.1	100.7 143.2 109.9 94.3 118.0	101.2 145.9 108.1 95.5 115.8	100.1 155.5 103.5 94.0 119.7	101.7 144.8 114.1 94.4 121.2	101.0 143.4 111.9 94.1 120.0	101.1 141.4 112.9 94.6 116.5	102.9 152.7 114.2 95.7 120.2	102.2 148.7 110.0 96.0 119.9	102.6 155.3 113.5 95.0 122.5	103.2 156.9 118.5 94.8 121.7	100.8 155.1 109.4 93.7 120.0
39 Utilities	491,3PT	7.6 6.0 1.6	107.1 108.1 103.0	106.2 108.1 99.2	105.9 107.1 101.0	107.4 109.7 99.1	108.3 109.5 103.9	116.1 116.3 115.6	106.8 108.3 101.2	104.0 107.1 92.3	106.2 109.7 93.3	106.7 109.7 95.5	107.1 110.3 95.2	109.2 112.5 96.9	108.7 112.0 96.5	110.1 113.7 96.7
Special Aggregates																
42 Manufacturing excluding motor vehicles and parts		79.8	109.2	109.5	109.5	108.9	109.4	109.3	109.9	110.5	110.2	110.3	110.7	110.9	111.2	111.8
office and computing machines		82.0	108.1	108.2	108.1	107.7	107.9	107.7	107.1	108.6	108.7	108.3	109.2	109.6	109.6	109.5
						Gross va	due (billi	ons of 1	982 dolla	ırs, annu	al rates)					
Major Market	•															
44 Products, total		1734.8	1,889.8	1,883.7	1,894.3	1,878.3	1,896.9	1,905.5	1,863.6	1,903.3	1,922.6	1,906.2	1,922.2	1,935.5	1,930.3	1,927.1
45 Final		1350.9 833.4 517.5 384.0	1,480.1 884.6 595.5 409.7	1,475.3 870.1 605.3 408.4	1,486.2 878.8 607.5 408.1	1,465.6 883.2 582.4 412.7	1,482.8 889.0 593.8 414.1	1,492.5 898.6 594.0 413.0	1,447.9 864.3 583.6 415.7	1,488.3 888.6 599.8 415.0	1,507.5 893.4 614.1 415.1	1,493.9 883.9 610.0 412.3	1,506.0 885.9 620.1 416.2	1,522.7 897.8 624.9 412.7	1,517.3 892.5 624.8 413.0	1,513.3 888.3 625.0 413.8

These data also appear in the Board's G.17 (419) release. For requests see address inside front cover.
 A major revision of the industrial production index and the capacity

utilization rates was released in April 1990. See "Industrial Production: 1989 Developments and Historical Revision," *Federal Reserve Bulletin*, vol. 76 (April 1990), pp. 187-204.

2.14 HOUSING AND CONSTRUCTION

Monthly figures are at seasonally adjusted annual rates except as noted.

						1989					1990			
	Item	1987	1988	1989	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
			L	\	Priv	ate reside	ntial real	estate acti	vity (thou	sands of u	ınits)	.	.	.
	New Units													
2 1-fa	ts authorized	1,535 1,024 511	1,456 994 462	1,339 932 407	1,362 959 403	1,364 984 380	1,416 984 432	1,739 985 754	1,297 974 323	1,232 912 320	1,108 813 295	1,065 802 263	1,108 796 312	1,082 780 302
4 Starter 5 1-far 6 2-or	d	1,621 1,146 474	1,488 1,081 407	1,376 1,003 373	1,423 1,023 400	1,347 1,010 337	1,273 931 342	1,568 1,099 469	1,488 1,154 334	1,307 996 311	1,216 898 318	1,206 897 309	1,189 889 300	1,147 868 279
8 1-fai	r construction, end of period!	987 591 397	919 570 350	850 535 315	894 565 329	881 558 323	886 567 319	892 571 321	900 575 325	887 567 320	876 559 317	857' 546' 311	845 540 305	834 532 302
10 Compl 11 1-far 12 2-or	leted mily. more-family	1,669 1,123 546	1,530 1,085 445	1,423 1,026 396	1,317 987 330	1,486 1,078 408	1,302 933 369	1,443 1,031 412	1,351 1,041 310	1,378 1,037 341	1,295 942 353	1,363' 1,008' 355	1,291 943 348	1,280 962 318
13 Mobile	e homes shipped	233	218	198	190	189	189	195	200	193	189	191	191	184
1- 14 Numb	nant builder activity in family units her sold her for sale, end of period	672 366	675 367	650 362	636 363	687 363	633 362	613 365	606 366	558 363	533 363	536 359	561 353	548 349
Media 16 Unit Avera	ts sold	104.7 127.9	113.3	120.4	123.0 147.8	125.0	125.2	125.0	126.9 150.9	119.4	130.0	125.0 150.7	127.0	121.0
	ISTING UNITS (1-family)			,,										
18 Number	er sold	3,530	3,594	3,439	3,490	3,560	3,560	3,520	3,400	3,400	3,330	3,300	3,330	3,330
19 Media	of units sold housands of dollars) ² inge	85.6 106.2	89.2 112.5	93.0 118.0	92.4 116.7	93.1 117.9	92.5 118.1	96.3 120.0	95.2 118,3	96.3 119.5	95.6 117.8	95.6 118.7	97.5 121.1	98.3 122.0
						Value of	new cons	truction ³ (millions o	f dollars)				
	Construction											<u> </u>		
21 Total p	put in place	410,209	422,076	432,068	429,277	433,381	431,995	445,959	455,571	457,272	448,841	444,587	440,407	442,220
23 Resi 24 Non	eidential residential, total	319,641 194,656 124,985	327,102 198,101 129,001	333,514 196,551 136,963	332,131 192,087 140,044	329,847 190,855 138,992	325,011 189,636 135,375	338,078 200,149 137,929	343,118 203,013 140,105	347,366 206,868 140,498	344,324 205,092 139,232	336,596 ^r 198,059 ^r 138,537 ^r	331,614 191,254 140,360	333,621 190,505 143,116
25 26 27	uildings Industrial Commercial Other ublic utilities and other	13,707 55,448 15,464 40,366	14,931 58,104 17,278 38,688	18,506 59,389 17,848 41,220	19,175 61,353 17,868 41,648	19,134 59,627 18,160 42,071	18,863 57,090 16,612 42,810	19,680 57,376 17,706 43,167	21,072 58,748 16,964 43,321	21,086 57,210 17,646 44,556	21,152 55,770 18,290 44,020	21,014 ^r 54,614 ^r 18,423 44,486 ^r	20,464 56,402 19,189 44,305	22,386 56,503 19,998 44,229
30 Milit 31 High 32 Con	tary hway servation and development er	90,566 4,327 26,958 5,519 53,762	94,971 3,579 30,140 4,726 56,526	98,551 3,520 29,502 4,969 60,560	97,146 2,076 28,426 4,953 61,691	103,534 3,664 30,376 4,916 64,578	106,984 3,552 33,450 5,371 64,611	107,881 3,838 31,901 5,192 66,950	112,453 3,886 37,018 5,559 65,990	109,906 5,099 32,374 4,996 67,437	104,517 3,702 29,826 5,014 65,975	107,991' 3,947 30,630' 5,494' 67,920'	108,793 4,133 30,166 3,935 70,559	108,600 4,260 29,103 4,378 70,859

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 previous periods because of changes by the Bureau of the Census in its estimating techniques. For a description of these changes see Construction Reports (C-30-76-5), issued by the Bureau in July 1976.

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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 anni		arlier		Change fi	rom 1 mor	nth earlier		Index
Item	1989	1990	19	89	19	990			1990			level Aug. 1990
	Aug.	Aug.	Sept.	Dec.	Mar.	June	Apr.	May	June	July	Aug.	
CONSUMER PRICES ² (1982–84=100) 1 All items	4.7	5.6	2.3	4.9	8.5	3.5	.2	.2	.5	.4	.8	131.6
2 Food	5.4 5.1 4.4 3.1 5.1	5.6 6.8 5.5 3.7 6.4	3.6 -12.6 3.5 1.3 4.5	5.5 3.9 4.7 3.4 5.7	11.4 14.8 7.5 7.8 7.2	2.1 -2.0 3.9 .7 5.5	2 4 .2 .0 .4	.0 7 .3 .1 .4	.8 .6 .4 .1 .6	.4 7 .6 .3 .7	.3 4.3 .5 .0	132.9 103.6 136.4 123.2 144.0
PRODUCER PRICES (1982=100) 7 Finished goods 8 Consumer foods 9 Consumer energy 10 Other consumer goods. 11 Capital equipment.	4.3 4.5 4.1 4.5 3.9	5.1 5.3 17.0 3.5 3.3	.4 .7 -15.3 2.3 4.4	5.0 12.4 -5.3 4.2 2.0	7.1 10.6 24.7 3.5 4.0	.3 -2.9 -14.3 5.1 1.7	2' 9 7' .2' .1'	.1 ^r .6 -2.2 ^r .4 ^r 1 ^r	.2 4 9 .7	1 .0 5 2 .3	1.3 .8 9.5 .2	119.2 125.0 74.4 128.9 122.9
12 Intermediate materials ³	3.6 3.4	2.1 .7	7 7	$^{4}_{-1.0}$	2.5 1.0	-1.1 .7	.0 .2	1 .1	2 1	1 .1	1.5 .3	114.4 120.8
Crude materials 14 Foods 15 Energy 16 Other	4 11.2 2.0	3.2 18.5 2.4	-2.2 -7.0 .6	19.2 13.2 -15.3	9.1 .5 4.0	-11.5 -38.9 10.9	6' -7.0' 2.5'	-2.8 ^r 1.4 ^r .7 ^r	.4 -6.2 6	1.0 1 .9	9 25.5 1.8	113.5 87.1 139.9

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.

					1989		19	90
Account	1987	1988	1989	Q2	Q3	Q4	Q1	Q2'
Gross National Product				-				
1 Total	4,515.6	4,873.7	5,200.8	5,174.0	5,238.6	5,289.3	5,375.4	5,443.3
By source 2 Personal consumption expenditures 3 Durable goods 4 Nondurable goods 5 Services	3,009.4	3,238.2	3,450.1	3,425.9	3,484.3	3,518.5	3,588.1	3,622.7
	423.4	457.5	474.6	473.6	487.1	471.2	492.1	478.4
	1,001.3	1,060.0	1,130.0	1,127.1	1,137.3	1,148.8	1,174.7	1,179.0
	1,584.7	1,720.7	1,845.5	1,825.1	1,859.8	1,898.5	1,921.3	1,965.3
6 Gross private domestic investment 7 Fixed investment 8 Nonresidential 9 Structures 10 Producers' durable equipment 11 Residential structures	699.5	747.1	771.2	776.7	775.8	762.7	747.2	759.0
	671.2	720.8	742.9	744.0	746.9	737.7	758.9	745.6
	444.9	488.4	511.9	511.4	518.1	511.8	523.1	516.5
	133.7	139.9	146.2	144.2	147.0	147.1	148.8	147.2
	311.2	348.4	365.7	367.2	371.0	364.7	374.3	369.3
	226.3	232.5	231.0	232.7	228.9	225.9	235.9	229.1
12 Change in business inventories	28.3	26.2	28.3	32.7	28.9	25.0	-11.8	13.4
	32.3	29.8	23.3	26.1	26.2	24.1	-17.0	13.0
14 Net exports of goods and services 15 Exports 16 Imports	-114.7	-74.1	-46.1	-51.3	-49.3	-35,3	-30.0	-24.9
	449.6	552.0	626.2	628.8	623.7	642.8	661.3	659.7
	564.3	626.1	672.3	680.0	673.0	678.1	691.3	684.6
17 Government purchases of goods and services 18 Federal	921.4	962.5	1,025.6	1,022.7	1,027.8	1,043.3	1,070.1	1,086.4
	381.3	380.3	400.0	402.5	399.2	399.9	410.6	421.9
	540.2	582.3	625.6	620.2	628.6	643.4	659.6	664.6
By major type of product 20 Final sales, total 21 Goods 22 Durable 23 Nondurable 24 Services 25 Structures	4,487.3	4,847.5	5,172.5	5,141.3	5,209.7	5,264.3	5,387.2	5,429.9
	1,788.4	1,935.1	2,072.7	2,079.4	2,090.2	2,085.9	2,111.0	2,146.6
	780.5	860.2	906.7	904.6	922.1	907.4	919.9	930.1
	1,007.9	1,074.9	1,166.1	1,174.9	1,168.1	1,178.6	1,191.2	1,216.4
	2,292.4	2,488.6	2,671.2	2,639.2	2,693.3	2,747.5	2,791.3	2,834.2
	434.9	450.0	456.9	455.3	455.0	455.9	473.0	462.5
26 Change in business inventories 27 Durable goods 28 Nondurable goods	28.3	26.2	28.3	32.7	28.9	25.0	~11.8	13.4
	22.9	19.9	11.9	8.4	6.6	13.2	-21.6	0.0
	5.4	6.4	16.4	24.3	22.2	11.9	9.8	13.4
MEMO 29 Total GNP in 1982 dollars	3,845.3	4,016.9	4,117.7	4,112.2	4,129.7	4,133.2	4,150.6	4,155.1
National Income								
30 Total 31 Compensation of employees 32 Wages and salaries 33 Government and government enterprises 34 Other 35 Supplement to wages and salaries 36 Employer contributions for social insurance 37 Other labor income	2,686.4	2,905.1	3,079.0	3,062.6	3,095.2	3,128.6	3,180.4	3,232.5
	2,249.7	2,431.1	2,573.2	2,560.0	2,586.6	2,612.7	2,651.6	2,696.3
	419.4	446.6	476.6	473.2	479.9	486.7	497.1	505.7
	1,830.3	1,984.5	2,096.6	2,086.9	2,106.7	2,126.0	2,154.5	2,190.6
	436.6	474.0	505.8	502.6	508.6	515.9	528.8	536.1
	227.2	248.5	263.9	262.6	265.1	268.4	276.0	279.7
	209.4	225.5	241.9	239.9	243.5	247.5	252.8	256.4
38 Proprietors' income ¹ 39 Business and professional ¹ 40 Farm ¹	323.4	354.2	379.3	379.6	368.1	381.7	404.0	401.7
	280.6	310.5	330.7	329.1	329.5	336.0	346.6	350.8
	42.8	43.7	48.6	50.5	38.7	45.7	57.4	51.0
41 Rental income of persons ²	13.7	16.3	8.2	9.7	5.8	4.1	5.5	4.3
42 Corporate profits ¹ 43 Profits before tax ³ 44 Inventory valuation adjustment 45 Capital consumption adjustment	308.3	337.6	311.6	321.4	306.7	290.9	296.8	306.6
	275.3	316.7	307.7	314.6	291.4	289.8	296.9	299.3
	-19.4	-27.0	-21.7	-23.1	-6.1	-14.5	-11.4	-0.5
	52.4	47.8	25.5	29.9	21.4	15.6	11.3	7.7
46 Net interest	328.6	371.8	445.1	443.4	456.2	461.7	463.6	466.2

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

^{3.} For after-tax profits, dividends, and the like, see table 1.48. SOURCE. Survey of Current Business (Department of Commerce).

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2.17 PERSONAL INCOME AND SAVING

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

	1007	tono	1000		1989		19	90
Account	1987	1988	1989	Q2	Q3	Q4	QI	Q2'
Personal Income and Saving								
1 Total personal income	3,766.4	4,070.8	4,384.3	4,362.9	4,402.8	4,469.2	4,562.8	4,622.2
2 Wage and salary disbursements 3 Commodity-producing industries 4 Manufacturing 5 Distributive industries 6 Service industries 7 Government and government enterprises	2,249.7 649.9 490.3 531.8 648.5 419.4	2,431.1 696.4 524.0 572.0 716.2 446.6	2,573.2 720.6 541.8 604.7 771.4 476.6	2,560.0 719.3 541.4 602.6 764.9 473.2	2,586.6 722.3 543.2 607.1 777.4 479.9	2,612.7 721.4 540.9 614.6 790.0 486.7	2,651.6 724.6 541.2 627.0 802.9 497.1	2,696.3 731.1 548.1 637.3 822.2 505.7
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	209.4 323.4 280.6 42.8 13.7 91.8 501.3 549.9 282.9	225.5 354.2 310.5 43.7 16.3 102.2 547.9 587.7 300.5	241.9 379.3 330.7 48.6 8.2 114.4 643.2 636.9 325.3	239,9 379,6 329,1 50,5 9,7 113,2 642,1 630,2 321,9	243.5 368.1 329.5 38.7 5.8 115.7 655.2 641.8 328.3	247.5 381.7 336.0 45.7 4.1 118.2 664.9 655.9 334.1	252.8 404.0 346.6 57.4 5.5 120.5 670.5 680.9 347.2	256.4 401.7 350.8 51.0 4.3 122.9 678.0 686.7 347.6
17 Less: Personal contributions for social insurance	172.9	194.1	212.8	212.0	214.0	215.8	222.9	224.1
18 Equals: Personal income	3,766.4	4,070.8	4,384.3	4,362.9	4,402.8	4,469.2	4,562.8	4,622.2
19 Less: Personal tax and nontax payments	571.6	591.6	658.8	665.5	659,5	669.6	675.1	696.5
20 Equals: Disposable personal income	3,194.7	3,479.2	3,725.5	3,697.3	3,743.4	3,799.6	3,887.7	3,925.7
21 Less: Personal outlays	3,102.2	3,333.6	3,553.7	3,528.5	3,588.8	3,625.5	3,696.4	3,730.6
22 Equals; Personal saving	92.5	145.6	171.8	168.9	154,5	174.1	191.3	195.1
MEMO Per capita (1982 dollars) 23 Gross national product 24 Personal consumption expenditures 25 Disposable personal income 26 Saving rate (percent)	15,759.4 10,310.7 10,946.0 2.9	16,302.4 10,578.3 11,368.0 4.2	16,550.2 10,678.5 11,531.0 4.6	16,554.8 10,649.4 11,492.0 4.6	16,578.5 10,739.9 11,538.0 4.1	16,546.0 10,688.2 11,541.0 4.6	16,575.9 10,692.1 11,586.0 4.9	16,554.2 10,672.5 11,564.0 5.0
Gross Saving								
27 Gross saving	555.5	656.1	691.5	697.9	692.4	674.8	664.8	679,3
28 Gross private saving 29 Personal saving 30 Undistributed corporate profits ¹ 31 Corporate inventory valuation adjustment	662.6 92.5 83.2 -19.4	751.3 145.6 91.4 -27.0	779.3 171.8 53.0 -21.7	770.3 168.9 58.5 -23.1	776.0 154.5 53.9 -6.1	786.4 174.1 39.8 -14.5	795.0 191.3 36.7 -11.4	806.7 195.1 40.5 -0.5
Capital consumption allowances 32 Corporate 33 Noncorporate	303.2 183.8	322.1 192.2	346.4 208.0	341.1 201.8	351.6 215.9	356.5 216.0	356.7 210.3	359.7 211.4
34 Government surplus, or deficit (-), national income and product accounts 35 Federal	-107.1 -158.2 51.0	-95.3 -141.7 46.5	-87.8 -134.3 46.4	-72.4 -122.7 50.3	~83.6 -131.7 48.1	-111.6 150.1 38.5	-130.2 -168.3 38.1	-127.3 -166.0 38.6
37 Gross investment	544.9	627.8	674.4	677.6	676.1	671.8	665.6	676.1
38 Gross private domestic	699.5 -154.6	747.1 119.2	771.2 -96.8	776.7 -99.1	775.8 -99.7	762.7 -90.9	747.2 -81.6	759.0 -82.9
40 Statistical discrepancy	-10.6	-28.2	-17.0	~20.3	-16.2	-3.0	.7	-3.2

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

b 15 135	4005	4000	1000		19	89		1990
Item credits or debits	1987	1988	1989	Qı	Q2	Q3	Q4	Q1
1 Balance on current account 2 Not seasonally adjusted 3 Merchandise trade balance 4 Merchandise exports 5 Merchandise imports 6 Military transactions, net 7 Investment income, net 8 Other service transactions, net 9 Remittances, pensions, and other transfers 10 U.S. government grants	~162,315 ~159,500 250,266 ~409,766 ~3,530 5,326 9,964 ~4,299 ~10,276	-128,862 -126,986 320,337 -447,323 -5,452 1,610 16,971 -4,261 -10,744	-110,035 -114,864 360,465 -475,329 -6,319 -913 26,783 -3,758 -10,963	-27,104 -22,961 -28,093 88,267 -116,360 -1,763 465 5,842 -999 -2,556	-28,649 -27,528 -28,222 91,111 -119,333 -1,667 -1,957 6,203 -962 -2,044	-27,591 -31,620 -29,803 89,349 -119,152 -1,114 17 6,839 -909 -2,621	-26,692 -27,926 -28,746 91,738 -120,484 -1,776 561 7,900 -889 -3,742	-22,941 -19,164 -26,371 96,044 -122,415 -1,370 608 7,681 -874 -2,615
11 Change in U.S. government assets, other than official reserve assets, net (increase, -)	997	2,969	1,185	962	-303	574	-47	-486
12 Change in U.S. official reserve assets (increase, -). 13 Gold. 14 Special drawing rights (SDRs). 15 Reserve position in International Monetary Fund. 16 Foreign currencies.	9,149 0 -509 2,070 7,588	-3,912 0 127 1,025 -5,064	-25,293 0 -535 471 -25,229	-4,000 0 -188 316 -4,128	-12,095 0 68 -159 -12,004	-5,996 0 -211 337 -6,122	-3,202 0 -204 -23 -2,975	-3,177 0 -247 234 -3,164
17 Change in U.S. private assets abroad (increase, -). 18 Bank-reported claims 19 Nonbank-reported claims 20 U.S. purchase of foreign securities, net 21 U.S. direct investments abroad, net.	-73,092 -42,119 5,324 -5,251 -31,046	-83,232 -56,322 -2,847 -7,846 -16,217	-102,953 -50,684 1,391 -21,938 -31,722	-29,821 -23,586 1,851 -2,062 -6,024	11,017 26,829 -2,384 -6,144 -7,284	~38,654 -21,269 1,877 -9,623 -9,639	-45,496 -32,658 47 -4,109 -8,776	33,172 45,655 0 -4,871 -7,612
22 Change in foreign official assets in United States (increase, +). 23 U.S. Treasury securities. 24 Other U.S. government obligations 25 Other U.S. government liabilities ⁴ . 26 Other U.S. liabilities reported by U.S. banks ³ . 27 Other foreign official assets ⁵ .	45,210 43,238 1,564 -2,503 3,918 -1,007	39,515 41,741 1,309 -710 -319 -2,506	8,823 333 1,383 332 4,940 1,835	7,797 4,630 721 -200 2,191 455	-4,961 -9,726 -97 470 3,820 572	13,003 12,771 190 -350 -251 643	-7,016 -7,342 569 412 -820 165	8,825 5,874 531 368 1,926 126
28 Change in foreign private assets in United States (increase, +). 29 U.S. bank-reported liabilities 3 30 U.S. nonbank-reported liabilities 5 31 Foreign private purchases of U.S. Treasury securities, net 5 32 Foreign direct investments in United States, net	173,260 89,026 2,863 -7,643 42,120 46,894	181,926 70,235 6,664 20,239 26,353 58,435	205,829 61,199 2,867 29,951 39,568 72,244	60,605 17,486 3,717 9,323 8,731 21,348	7,755 -20,806 -407 2,339 9,574 17,055	61,133 27,845 -2,175 12,618 10,470 12,375	76,336 36,674 1,732 5,671 10,793 21,466	-18,665 -28,125 0 -864 2,732 7,592
34 Allocation of SDRs 35 Discrepancy. 36 Owing to seasonal adjustments 37 Statistical discrepancy in recorded data before seasonal adjustment.	6,790 	0 -8,404 	22,443 22,443	0 -8,439 3,093 -11,532	0 27,236 -1,697 28,933	0 -2,469 -4,953 2,484	0 6,117 3,560 2,558	20,922 3,116
MEMO Changes in official assets 38 U.S. official reserve assets (increase, -)	9,149 47,713	-3,912 40,225	-25,293 8,491	-4,000 7,997	-12,095 -5,431	-5,996 13,353	-3,202 -7,428	-3,177 -8,457
official assets in United States (part of line 22 above)	-9,956	-2,996	10,713	7,100	460	4,532	-1,379	2,976

4. Primarily associated with military sales contracts and other transactions arranged with or through foreign official agencies.

5. Consists of investments in U.S. corporate stocks and in debt securities of private corporations and state and local governments.

NOTE. Data are from Bureau of Economic Analysis, Survey of Current Business (Department of Commerce).

^{1.} Seasonal factors are not calculated for lines 6, 10, 12-16, 18-20, 22-34, and 38-41.

2. Data are on an international accounts (1A) 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.

3. Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.

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3.11 U.S. FOREIGN TRADE¹

Millions of dollars; monthly data are seasonally adjusted.

		4005	1000					1990		·	
	ltem	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May	June'	July ^p
1	EXPORTS of domestic and foreign merchandise excluding grant-aid shipments, f.a.s. value	254,073	322,427	363,812	31,372	31,576	33,266	32,058	32,774	34,221	32,026
2	bonded warehouses Customs value	406,241	440,952	473,211	41,570	38,672	41,636	39,364	40,543	39,561	41,357
3	Trade balance Customs value	-152,169	-118,526	109,399	-10,198	-7,096	-8,370	-7,306	-7,770	-5,340	-9,330

^{1.} The Census basis data differ from merchandise trade data shown in table 3.10, U.S. International Transactions Summary, for reasons of coverage and timing. On the export side, the largest adjustment is the exclusion of military sales (which are combined with other military transactions and reported separately in the "service account" in table 3.10, line 6). On the import side, additions are made for gold, ship purchases, imports of electricity from Canada, and other transac-

tions; military payments are excluded and shown separately as indicated above. As of Jan. 1, 1987 census data are released 45 days after the end of the month; the previous month is revised to reflect late documents. Total exports and the trade balance reflect adjustments for undocumented exports to Canada.

Source. FT900 "Summary of U.S. Export and Import Merchandise Trade" (Department of Commerce, Bureau of the Census).

3.12 U.S. RESERVE ASSETS

Millions of dollars, end of period

Ī		1007	1000	1000				1990			
	Туре	1987	1988	1989	Feb.	Mar.	Apr.	May	June	July	Aug. ^p
1	Total	45,798	47,802	74,609	74,173	76,303	76,283	77,028	77,298	77,906	78,909
2	Gold stock, including Exchange Stabilization Fund	11,078	11,057	11,059	11,059	11,060	11,060	11,065	11,065	11,064	11,065
3	Special drawing rights ^{2,3}	10,283	9,637	9,951	10,216	10,092	10,103	10,396	10,490	10,699	10,780
4	Reserve position in International Monetary Fund ²	11,349	9,745	9,048	8,985	8,727	8,687	8,764	8,449	8,686	8,890
5	Foreign currencies ⁴	13,088	17,363	44,551	43,913	46,424	46,433	46,803	47,294	47,457	48,174

^{1.} Gold held under earmark at Federal Reserve Banks for foreign and interna-

3.13 FOREIGN OFFICIAL ASSETS HELD AT FEDERAL RESERVE BANKS¹

	.007	1000	4000				1990			
Assets	1987	1988	1989	Feb.	Mar.	Apr.	May	June	July	Aug.
1 Deposits	244	347	589	309	300	402	309	368	279	337
Assets held in custody 2 U.S. Treasury securities ²	195,126 13,919	232,547 13,636	224,911 13,456	221,798 13,458	250,447 13,458	252,759 13,458	253,691 13,460	255,651 13,433	256,585 13,422	261,051 13,412

Excludes deposits and U.S. Treasury securities held for international and regional organizations.
 Marketable U.S. Treasury bills, notes, and bonds; and nonmarketable U.S.

^{1.} Odd lited under earman at receive a Reserve Bains to inclight and interna-tional accounts is not included in the gold stock of the United States; see table 3.13. Gold stock is valued at \$42.22 per fine troy ounce. 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.

Treasury securities payable in dollars and in foreign currencies at face value.

^{3.} Earmarked gold and the gold stock are valued at \$42.22 per fine troy ounce. Earmarked gold is gold held for foreign and international accounts and is not included in the gold stock of the United States.

3.14 FOREIGN BRANCHES OF U.S. BANKS Balance Sheet Data¹

Millions of dollars, end of period

	.000	1000	1000				1990			
Asset account	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May	June	July
		•			All foreign	countries	.		· · · · · · · · · · · · · · · · · · ·	
1 Total, all currencies	518,618	505,595	545,366	549,368	553,815	535,059	535,886	541,439	524,010	531,421
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 10 Nonbank foreigners	138,034 105,845 16,416 15,773 342,520 122,155 108,859 21,832 89,674	169,111 129,856 14,918 24,337 299,728 107,179 96,932 17,163 78,454	198,835 157,092 17,042 24,701 300,575 113,810 90,703 16,456 79,606	192,688 149,285 17,840 25,563 307,937 120,359 91,712 15,392 80,474	188,700 145,156 18,064 25,480 313,934 122,457 94,065 15,148 82,264	176,096 135,172 15,511 25,413 308,117 120,488 89,837 15,973 81,819	177,104 133,573 17,965 25,566 307,470 118,835 90,812 16,217 81,606	182,224 140,751 15,647 25,826 306,058 116,640 90,422 16,172 82,824	179,258' 138,384' 15,166 25,708' 293,730' 108,464' 85,780' 16,323' 83,163'	174,583 133,682 15,239 25,662 305,010 115,525 86,007 16,703 86,775
11 Other assets	38,064	36,756	45,956	48,743	51,181	50,846	51,312	53,157	51,022	51,828
12 Total payable in U.S. dollars	350,107	357,573	382,717	375,315	375,511	358,543	360,224	363,128	350,310 ^r	346,338
13 Claims on United States 14 Parent bank 15 Other banks in United States 16 Nonbanks 17 Claims on foreigners 18 Other branches of parent bank 19 Banks 20 Public borrowers 21 Nonbank foreigners	132,023 103,251 14,657 14,115 202,428 88,284 63,707 14,730 35,707	163,456 126,929 14,167 22,360 177,685 80,736 54,884 12,131 29,934	191,184 152,294 16,386 22,504 169,690 82,949 48,396 10,961 27,384	184,782 144,055 17,018 23,709 167,722 86,114 45,385 10,332 25,891	180,738 139,920 17,187 23,631 172,132 87,403 46,582 10,529 27,618	168,833 130,350 14,992 23,491 167,616 85,028 43,408 11,110 28,070	169,996 129,162 17,209 23,625 168,419 84,930 43,814 11,191 28,484	173,887 135,211 14,818 23,858 167,630 83,381 44,449 10,912 28,888	171,551' 133,167' 14,575 23,809 158,652 76,410' 42,918' 10,956' 28,368'	166,294 128,066 14,375 23,853 157,915 79,413 39,019 10,652 28,831
22 Other assets	15,656	16,432	21,843′	22,811	22,641	22,094	21,809	21,611	20,107	22,129
				L	United K	ingdom		· · · · · · · · · · · · · · · · · · ·		
23 Total, all currencies	158,695	156,835	161,947	166,915	169,727	167,162	173,127	177,947	167,885	175,257
24 Claims on United States 25 Parent bank 26 Other banks in United States 27 Nonbanks 28 Claims on foreigners 29 Other branches of parent bank 30 Banks 31 Public borrowers 32 Nonbank foreigners	32,518 27,350 1,259 3,909 115,700 39,903 36,735 4,752 34,310	40,089 34,243 1,123 4,723 106,388 35,625 36,765 4,019 29,979	39,212 35,847 1,058 2,307 107,657 37,728 36,159 3,293 30,477	41,208 37,292 1,441 2,475 109,837 37,701 37,668 3,128 31,340	40,161 36,311 1,365 2,485 110,911 38,410 36,488 3,076 32,937	38,809 34,648 1,301 2,860 109,227 39,636 34,803 3,857 30,931	42,366 37,572 1,262 3,532 111,175 41,613 35,224 3,980 30,358	43,247 39,089 747 3,411 114,800 43,358 35,730 3,943 31,769	39,904 ^r 35,924 730 3,250 ^r 108,080 ^r 38,068 34,194 3,740 32,078 ^r	40,418 36,564 894 2,960 114,259 41,186 35,085 3,619 34,369
33 Other assets	10,477	10,358	15,078	15,870	18,655	19,126	19,586	19,900	19,901	20,580
34 Total payable in U.S. dollars	100,574	103,503	103,427	103,038	103,752	101,024	107,483	110,186	100,887	103,050
35 Claims on United States 36 Parent bank 37 Other banks in United States 38 Nonbanks 39 Claims on foreigners 40 Other branches of parent bank 41 Banks 42 Public borrowers 43 Nonbank foreigners 44 Other assets	30,439 26,304 1,044 3,091 64,560 28,635 19,188 3,313 13,424 5,575	38,012 33,252 964 3,796 60,472 28,474 18,494 2,840 10,664 5,019	36,404 34,329 843 1,232 59,062 29,872 16,579 2,371 10,240 7,961	38,261 35,731 1,118 1,412 56,939 28,655 16,399 2,321 9,564 7,838	37,006 34,462 1,036 1,508 58,763 30,224 15,984 2,266 10,289 7,983	35,752 32,697 1,122 1,933 57,166 30,421 13,748 3,074 9,923 8,106	39,091 35,663 1,041 2,387 60,165 32,885 14,141 3,131 10,008 8,227	39,374 36,712 521 2,141 63,025 34,441 14,635 3,114 10,835 7,787	36,158 33,509 552 2,997 57,802 30,050 14,625 2,942 10,185 6,927	36,230 33,716 681 1,833 58,283 31,225 13,621 2,839 10,598 8,537
				1	Bahamas and	d Caymans				
45 Total, all currencies	160,321	170,639	176,006	167,385	164,908	155,145	150,767	154,851	154,354	145,813
46 Claims on United States 47 Parent bank 48 Other banks in United States 49 Nonbanks 50 Claims on foreigners 51 Other branches of parent bank 52 Banks 53 Public borrowers 54 Nonbank foreigners	85,318 60,048 14,277 10,993 70,162 21,277 33,751 7,428 7,706	105,320 73,409 13,145 18,766 58,393 17,954 28,268 5,830 6,341	124,205 87,882 15,071 21,252 44,168 11,309 22,611 5,217 5,031	117,177 79,525 15,403 22,249 42,610 13,371 20,119 4,764 4,356	114,263 76,475 15,827 21,961 43,162 14,409 19,595 4,753 4,405	105.466 70.535 13.564 21.367 42.393 13.171 19.370 4.684 5.168	102,184 65,084 15,902 21,198 41,467 13,306 18,499 4,490 5,172	105,617 69,807 14,079 21,731 42,147 12,917 19,947 4,350 4,933	107,244 72,115 13,603 21,526 39,812 11,906 18,492 4,393 5,021	99,918 64,748 13,412 21,758 38,393 11,947 16,761 4,307 5,378
55 Other assets	4,841	6,926	7,633	7,598	7,483	7,286	7,116	7,087	7,298	7,502
56 Total payable in U.S. dollars	151,434	163,518	170,780	160,832	159,484	150,061	145,994	149,467	149,943	140,966

^{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

	long	1000	1000				1990			
Liability account	1987	1988	1989	Jan.	Feb.	Маг.	Apr.	May	June	July
				-	All foreign	countries				
57 Total, all currencies	518,618	505,595	545,366	549,368	553,815	535,059	535,886	541,439	524,010	531,421
58 Negotiable CDs 59 To United States 60 Parent bank 61 Other banks in United States 62 Nonbanks	30,929 161,390 87,606 20,355 53,429	28,511 185,577 114,720 14,737 56,120	23,500 197,239 138,412' 11,704 47,123'	23,510 178,452 117,318 11,850 49,284	23,620 181,164 119,967 11,990 49,207	21,767 173,675 114,170 10,799 48,706	24,113 168,669 109,642 11,782 47,245	25,452 169,791 109,831 10,272 49,688	23,504 169,769' 113,151' 9,092 47,526	21,810 163,117 105,243 9,454 48,420
63 To foreigners 64 Other branches of parent bank 65 Banks 66 Official institutions 67 Nonbank foreigners 68 Other liabilities	304,803 124,601 87,274 19,564 73,364 21,496	270,923 111,267 72,842 15,183 71,631 20,584	296,850 119,591 76,452 16,750 84,057 27,777	315,991 126,965 82,042 19,004 87,980 31,415	317,318 126,786 77,449 20,637 92,446 31,713	309,756 124,084 75,017 17,704 92,951 29,861	313,446 120,405 77,875 20,683 94,483 29,658	315,058 120,722 78,681 19,710 95,945 31,138	299,951' 113,653' 73,896' 17,637' 94,765' 30,786'	314,503 119,476 77,940 19,718 97,369 31,991
69 Total payable in U.S. dollars	361,438	367,483	396,613 ^r	385,010	385,634	369,306	368,626	369,505	358,681	355,785
70 Negotiable CDs 71 To United States 72 Parent bank 73 Other banks in United States 74 Nonbanks	26,768 148,442 81,783 18,951 47,708	24,045 173,190 107,150 13,468 52,572	19,619 187,286 132,563 ^r 10,519 44,204 ^r	18,512 167,754 111,328 10,560 45,866	18,783 169,669 113,487 10,684 45,498	17,084 162,606 108,128 9,296 45,182	19,601 157,579 103,252 10,415 43,912	20,579 157,851 103,389 8,855 45,607	18,928 158,173 ^r 106,818 ^r 7,741 43,614	16,524 150,785 98,770 7,884 44,131
75 To foreigners 76 Other branches of parent bank 77 Banks 78 Official institutions 79 Nonbank foreigners 80 Other liabilities	177,711 90,469 35,065 12,409 39,768 8,517	160,766 84,021 28,493 8,224 40,028 9,482	176,460 87,636 30,537 9,873 48,414 13,248'	185,192 91,736 32,551 11,063 49,842 13,552	183,378 90,360 28,741 11,740 52,537 13,804	176,939 86,908 27,639 9,248 53,144 12,677	178,035 84,090 29,207 11,909 52,829 13,411	177,888 84,415 28,265 11,480 53,728 13,187	168,642 ^r 78,646 ^r 27,434 ^r 9,066 ^r 53,496 ^r 12,938 ^r	174,616 81,332 28,045 10,613 54,626 13,860
					United K	ingdom				
81 Total, all currencies	158,695	156,835	161,947	166,915	169,727	167,162	173,127	177,947	167,885	175,257
82 Negotiable CDs 83 To United States 84 Parent bank 50 Other banks in United States 86 Nonbanks	26,988 23,470 13,223 1,536 8,711	24,528 36,784 27,849 2,037 6,898	20,056 36,036 29,726 1,256 5,054	19,791 31,893 23,256 1,545 7,092	19,656 32,686 23,752 2,115 6,819	18,266 32,780 22,970 1,827 7,983	20,535 33,931 23,339 1,841 8,751	21,846 33,755 23,179 1,847 8,729	19,672 32,291' 23,158' 1,615 7,518	17,800 32,320 21,952 1,626 8,742
87 To foreigners 88 Other branches of parent bank 89 Banks 90 Official institutions 91 Nonbank foreigners 92 Other liabilities	98,689 33,078 34,290 11,015 20,306 9,548	86,026 26,812 30,609 7,873 20,732 9,497	92,307 27,397 29,780 8,551 26,579 13,548	99,720 29,216 33,568 9,368 27,568 15,511	101,565 28,074 32,110 10,758 30,623 15,820	101,160 29,848 29,116 9,184 33,012 14,956	103,362 28,581 31,026 10,829 32,926 15,299	106,138 29,193 31,580 11,409 33,956 16,208	99,279' 26,506' 28,575' 10,263' 33,935' 16,643'	107,533 28,944 32,420 11,314 34,855 17,604
93 Total payable in U.S. dollars	102,550	105,907	108,178	106,676	106,416	103,544	109,708	110,595	101,530	104,375
94 Negotiable CDs 95 To United States 96 Parent bank 97 Other banks in United States 98 Nonbanks	24,926 17,752 12,026 1,308 4,418	22,063 32,588 26,404 1,752 4,432	18,143 33,056 28,812 1,065 3,179	16,931 28,542 22,428 1,217 4,897	16,910 28,817 22,513 1,807 4,497	15,660 29,383 22,219 1,552 5,612	17,936 30,386 22,446 1,553 6,387	19,012 29,666 22,339 1,456 5,871	17,233 28,160° 22,190° 1,325 4,645	14,836 27,967 21,208 1,175 5,584
99 To foreigners 100 Other branches of parent bank 101 Banks 102 Official institutions 103 Nonbank foreigners 104 Other liabilities	55,919 22,334 15,580 7,530 10,475 3,953	47,083 18,561 13,407 4,348 10,767 4,173	50,517 18,384 12,244 5,454 14,435 6,462	54,574 19,660 14,701 5,649 14,564 6,629	53,751 18,556 11,920 6,717 16,558 6,938	52,095 19,182 9,976 5,192 17,745 6,406	54,371 18,799 11,233 6,703 17,636 7,015	55,163 18,589 11,007 7,264 18,303 6,754	49,672' 16,199' 9,911' 5,305' 18,257' 6,465'	54,591 17,408 11,251 6,515 19,417 6,981
				:	Bahamas and	d Caymans				
105 Total, all currencies	160,321	170,639	176,006	167,385	164,908	155,145	150,767	154,851	154,354	145,813
106 Negotiable CDs	885 113,950 53,239 17,224 43,487	953 122,332 62,894 11,494 47,944	678 124,859 75,188' 8,883 40,788'	681 114,829 65,380 8,677 40,772	671 113,137 64,085 8,198 40,854	522 108,003 61,528 7,310 39,165	524 101,024 55,311 8,544 37,169	528 103,655 57,136 6,991 39,528	535 103,592 58,880 5,984 38,728	548 95,746 51,257 6,228 38,261
111 To foreigners 112 Other branches of parent bank 113 Banks 114 Official institutions 115 Nonbank foreigners 116 Other liabilities	43,815 19,185 10,769 1,504 12,357 1,671	45,161 23,686 8,336 1,074 12,065 2,193	47,382 23,414 8,823 1,097 14,048 3,087	48,974 24,911 8,439 1,528 14,096 2,901	48,726 25,110 8,059 1,290 14,267 2,374	44,314 20,778 7,983 1,078 14,475 2,306	46,741 22,446 8,617 1,247 14,431 2,478	48,410 25,535 8,154 962 13,759 2,258	47,613 24,184 8,969 960 13,500 2,614	47,010 24,560 8,120 999 13,331 2,509
117 Total payable in U.S. dollars	152,927	162,950	171,250	162,141	160,212	150,758	146,259	149,707	149,680	140,377

3.15 SELECTED U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS

Millions of dollars, end of period

	4000	1000	1990								
ltem	1988	1989	Jan.	Feb.	Mar.	Apr.	May	June	July ^p		
1 Total ¹	299,782	308,303	305,433	300,030	297,493	303,790	303,830′	305,803'	308,143		
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	149,056	36,486 76,985 176,084 568 18,180	34,303 76,157 176,411 572 17,990	33,633 73,099 174,986 576 17,736	35,208 73,039 171,130 580 17,536	36,372 69,454 176,694 3,596 17,674	36,413' 72,322 173,837 3,620 17,638	37,341' 71,804 175,385 3,644 17,629	38,086 72,694 176,066 3,668 17,629		
By area 7 Western Europe ¹ 8 Canada 9 Latin America and Caribbean 10 Asia. 11 Africa 12 Other countries ⁶	125,620 ^r 9,584 10,099 145,608 1,369 7,501	135,475 9,553 8,809 147,064 995 6,406	136,260' 9,368 7,943 143,966 817 7,077	134,626 ⁷ 7,976 8,327 140,924 990 7,187	137,387' 8,386 9,229 134,700 902 6,889	143,392' 7,880 9,137 136,519 861 6,000	144,158' 6,621 9,217 135,108 1,040 7,685	149,624 ⁷ 7,036 10,280 ⁹ 129,910 904 8,050	151,665 8,486 9,750 129,332 883 8,029		

Includes the Bank for International Settlements.

3.16 LIABILITIES TO AND CLAIMS ON FOREIGNERS Reported by Banks in the United States Payable in Foreign Currencies¹

Item	1986	1987	1988	19	89	1990	
Item	1980	1987	1988	Sept.	Dec.	Mar.	June
Banks' own liabilities 2 Banks' own claims 3 Deposits 4 Other claims 5 Claims of banks' domestic customers ²	29,702 26,180 14,129 12,052 2,507	55,438 51,271 18,861 32,410 551	74,980 68,983 25,100 43,884 364	73,755 70,328 22,960 47,368 2,558	67,805 65,127 20,489 44,638 3,102	63,105 60,999 21,456 39,543 1,190	68,140 66,626 21,046 45,580 928

Data on claims exclude foreign currencies held by U.S. monetary authorities.

Includes the Bank for international settlements.
 Principally demand deposits, time deposits, bankers acceptances, commercial paper, negotiable time certificates of deposit, and borrowings under repurchase agreements.
 Includes nonmarketable certificates of indebtedness (including those payable in foreign currencies through 1974) and Treasury bills issued to official institutions of foreign countries.

of foreign countries.

4. Excludes notes issued to foreign official nonreserve agencies. Includes

bonds and notes payable in foreign currencies.

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.

^{2.} Assets owned by customers of the reporting bank located in the United States that represent claims on foreigners held by reporting banks for the accounts of the domestic customers.

3.17 LIABILITIES TO FOREIGNERS Reported by Banks in the United States¹ Payable in U.S. dollars

							1990			
Holder and type of liability	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May ^r	June'	July ^p
1 All foreigners	618,874	685,339	736,112	705,383	696,813	704,185	702,299	715,313	706,022	719,881
2 Banks' own liabilities 3 Demand deposits 4 Time deposits 5 Other 6 Own foreign offices ⁴	470,070	514,532	576,732	544,172	538,567	541,694	546,652	552,138	542,754	554,527
	22,383	21,863	22,090	19,982	20,894	20,518	21,143	20,578	20,413	19,813
	148,374	152,164	168,744	159,144	156,304	154,725	148,779	150,972	150,820	154,203
	51,677	51,366	67,569	62,807	58,484	60,433	66,017	65,233	65,004	66,286
	247,635	289,138	318,330	302,238	302,884	306,017	310,713	315,356	306,518	314,225
7 Banks' custody liabilities ⁵	148,804	170,807	159,380	161,211	158,246	162,492	155,647	163,175	163,267	165,354
	101,743	115,056	91,100	90,703	88,032	88,015	83,644	88,908	90,082	91,975
instruments ⁷	16,776	16,426	19,526	18,658	18,655	21,031	18,055	18,531	17,865	17,519
	30,285	39,325	48,754	51,851	51,560	53,446	53,948	55,737	55,320	55,860
Nonmonetary international and regional organizations	4,464	3,224	4,772	4,671	3,765	4,896	5,727	4,558	4,997	4,112
12 Banks' own liabilities 13 Demand deposits 14 Time deposits* 15 Other*	2,702	2,527	3,156	3,071	2,218	3,334	3,781	2,913	3,598	2,790
	124	71	96	36	55	156	52	28	29	64
	1,538	1,183	927	1,042	624	1,137	2,025	773	1,416	1,038
	1,040	1,272	2,133	1,993	1,539	2,041	1,704	2,112	2,154	1,689
16 Banks' custody liabilities ⁵	1,761	698	1,616	1,599	1,547	1,562	1,947	1,645	1,399	1,322
	265	57	197	102	160	191	190	174	147	148
instruments ⁷	1,497	641	1,417	1,497	1,387	1,371	1, 74 0	1,463	1,253	1,159
	0	0	2	0	0	0	17	8	0	15
20 Official institutions ⁹	120,667	135,241	113,471	110,459	106,732	108,247	105,826	108,735	109,145	110,780
21 Banks' own liabilities 22 Demand deposits 23 Time deposits ² 24 Other ³	28,703	27,109	31,098	30,755	30,443	31,366	33,594	33,061	33,249	34,339
	1,757	1,917	2,196	1,601	1,654	1,826	2,066	1,644	1,613	1,610
	12,843	9,767	10,550	9,769	10,658	9,704	10,889	11,178	10,102	11,199
	14,103	15,425	18,351	19,385	18,132	19,836	20,639	20,238	21,533	21,530
25 Banks' custody liabilities ⁵ 26 U.S. Treasury bills and certificates ⁶ 27 Other negotiable and readily transferable instruments ⁷ 28 Other	91,965	108,132	82,373	79,704	76,289	76,881	72,231	75,674	75,896	76,440
	88,829	103,722	76,985	76,157	73,099	73,039	69,454	72,322	71,804	72,694
instruments'	2,990	4,130	5,028	3,459	2,892	3,671	2,605	3,158	3,650	3,596
	146	280	361	88	298	171	173	195	443	150
29 Banks ¹⁰	414,280	459,523	514,251	491,782	484,881	490,793	492,534	503,103	495,599	508,150
30 Banks' own liabilities 31 Unaffiliated foreign banks 32 Demand deposits 33 Time deposits* 34 Other* 35 Own foreign offices*	371,665	409,501	453,737	427,414	421,392	422,578	425,874	432,404	423,508	434,729
	124,030	120,362	135,407	125,175	118,508	116,561	115,161	117,048	116,990	120,504
	10,898	9,948	10,339	9,523	10,072	9,625	9,864	9,673	9,503	9,236
	79,717	80,189	90,557	79,518	74,873	75,296	68,692	70,999	72,819	75,043
	33,415	30,226	34,511	36,133	33,563	31,640	36,605	36,377	34,668	36,224
	247,635	289,138	318,330	302,238	302,884	306,017	310,713	315,356	306,518	314,225
36 Banks' custody liabilities ⁵ 37 U.S. Treasury bills and certificates ⁶ 38 Other negotiable and readily transferable instruments ⁷ 39 Other	42,615	50,022	60,514	64,369	63,489	68,215	66,660	70,699	72,091	73,421
	9,134	7,602	9,367	9,614	9,342	9,359	9,374	11,578	13,501	13,961
instruments ⁷	5,392	5,725	5,124	5,090	4,918	7,611	5,437	5,616	5,757	5,770
	28,089	36,694	46,023	49,665	49,229	51,244	51,850	53,504	52,833	53,690
40 Other foreigners	79,463	87,351	103,618	98,471	101,434	100,248	98,212	98,917	96,281	96,839
41 Banks' own liabilities 42 Demand deposits 43 Time deposits ² 44 Other ³	67,000	75,396	88,742	82,932	84,513	84,415	83,404	83,760	82,400	82,668
	9,604	9,928	9,458	8,821	9,114	8,911	9,160	9,232	9,268	8,902
	54,277	61,025	66,711	68,815	70,148	68,588	67,174	68,022	66,484	66,923
	3,119	4,443	12,573	5,295	5,251	6,915	7,069	6,506	6,648	6,843
45 Banks' custody liabilities ⁵ 46 U.S. Treasury bills and certificates ⁶ 47 Other negotiable and readily transferable instruments ⁶	12,463	11,956	14,877	15,539	16,921	15,834	14,809	15,157	13,881	14,170
	3,515	3,675	4,551	4,830	5,431	5,425	4,627	4,834	4,631	5,173
	6,898	5,929	7,958	8,612	9,457	8,378	8,273	8,293	7,205	6,993
48 Other	2,050	2,351	2,368	2,098	2,033	2,031	1,909	2,030	2,044	2,004
custody for foreigners	7,314	6,425	7,203	8,576	8,457	7,634	7,183	7,282	6,429	5,911

^{1.} Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.
2. Excludes negotiable time certificates of deposit, which are included in "Other negotiable and readily transferable instruments."
3. Includes borrowing under repurchase agreements.
4. 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.

^{5.} Financial claims on residents of the United States, other than long-term securities, held by or through reporting banks.

6. Includes nonmarketable certificates of indebtedness and Treasury bills issued to official institutions of foreign countries.

7. Principally bankers acceptances, commercial paper, and negotiable time certificates of deposit.

8. Principally the International Bank for Reconstruction and Development, and the Inter-American and Asian Development Banks. Data exclude "holdings of dollars" of the International Monetary Fund.

9. Foreign central banks, foreign central governments, and the Bank for International Settlements.

10. Excludes central banks, which are included in "Official institutions."

		1000	1000	1000				1990		<u> </u>	
	Area and country	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May	June	July ^p
-1	Total	618,874	685,339	736,112	705,383	696,813	704,185	702,299	715,313′	706,022	719,881
2	Foreign countries	614,411	682,115	731,340	700,713	693,048	699,289	696,572	710,755′	701,024	715,768
	Europe	234,641	231,912	237,453	231,067	224,715	224,907	229,675	236,417 ^r	233,138	235,818
4 5	Austria Belgium-Luxembourg	920 9,347	1,155	1,233 10,611	1,422	1,817 11,400	1,764	1,549	1,373 9,507	1,531 9,276 ^r	1,527
6	Denmark	760	2,200	1,415	1,240	1,244	1,760	2,271	2,152	2,411	2,552
7	Finland	377	285	570	684	614	431	464	314	387	485
8	France	29,835 7,022	24,777 6,772	26,903 7,578	22,992 7,584	21,850 8,718	21,921 7,488	24,263 8,763	23,103 8,030'	23,569 ^r 8,071 ^r	23,139 7,334
10	Greece	689	672	1,017	1,092	1,024	906	879	860	833	873
11	Italy	12,073	14,599	16,169	13,051	11,977	12,728	14,138	16,347	16,790	17,096
12 13	Netherlands	5,014 1,362	5,316 1,559	6,613 2,401	7,733 1,256	8,226 997	9,454 2,619	7,731 1,454	8,166 1,582	7,624 2,443	5,967 1,792
14	Portugal	801	903	2,407	2,381	2,285	2,385	2,354	2,359	3,082	3,073
15	Spain	2,621	5,494	4,364	5,424	4,280	4,911	4,230	4,535	4,427	4,913
16 17	Sweden	1,379 33,766	1,284 34,199	1,491 34,496	2,303 33,283	1,468 33,036	1,574 33,964	1,889 33,244	1,855' 35,260'	1,769 35,283'	1,586 34,387
18	Turkey	703	1,012	1,818	1,048	886	1,039	1,432	1,641	1,596	1,654
19	United Kingdom	116,852	111,811	102,362	102,282	99,749	96,718	99,376	104,624 ^r	98,320 ^r	100,856
20	YugoslaviaOther Western Europe	710	529	1,474	1,349	1,402	1,613	1,599	1,934	2,169	2,435
21	Unter Western Europe*	9,798 32	8,598 138	13,563 350	13,220	12,088 376	10,214	12,039 446	11,089	11,822 ^r 75 ^r	13,783
22 23	U.S.S.R. Other Eastern Europe ² .	582	591	619	1,138	1,277	1,299	1,427	1,529r	1,661	1,576
24	Canada	30,095	21,062	18,864	19,246	21,329	18,536	19,483	19,880	19,939	20,029
25	Latin America and Caribbean	220,372	271,146	310,514	300,601	305,620	314,575	308,616	315.664 ^r	312,612 ^r	317,406
26	Argentina	5,006	7,804	7,304	7,380	7,496	8,036	8,235	8,346	8,004	8,160
27	Bahamas	74,767	86,863	98,932	95,513	94,627	98,003	89,895	98,648	99,166′	99,237
28 29	Bermuda	2,344 4,005	2,621 5,314	2,884 6,334	2,539 6,679	2,239 7,128	2,308 7,280	2,807 6,729	2,514 6,088'	3,110 ^r 6,096 ^r	2,825 6,128
30	British West Indies	81,494	113,840	138,263	131,959	135,940	141,075	143,264	142,127	136,974	142,187
31	Chile	2,210	2,936	3,212	3,052	3,134	3,261	3,418	3,517	3,462 ^r	3,538
32 33	Colombia	4,204	4,374	4,653	4,435	4,610	4,510	4,404	4,471	4,507	4,470
33 34	Cuba	12 1,082	1,379	1.391	1,232	1,325	1,337	1,334	1,367	1,372	1,348
35	Guatemala	1,082	1,195	1,312	1,338	1,362	1,403	1,451	1,473	1,473	1,522
36	Jamaica	160	269	209	204	217	245	224	215	224	220
37 38	Mexico	14,480 4,975	15,185	15,399 6,310	6,192	15,802	15,246	15,066	15,116' 6,806	16,159 6,649	15,966 7,023
39	Panama	7,414	4,353	4,361	4,543	4,743	4,766	4,749	4,539	4,507	4,383
40	Peru	1,275	1,671	1,984	1,927	1,975	1,836	1,703	1,533	1,474	1,404
41	Uruguay	1,582	1,898	2,284	2,419	2,397	2,513	2,575	2,560	2,520	2,559
42 43	Venezuela Other	9,048 5,234	9,147 5,868	9,468 6,205	9,832 6,554	9,615 6,530	9,871 6,464	9,636 6,657	9,717 6,617'	10,240 6,664	9,610 6,798
44	AsiaChina	121,288	147,838	156,128	141,600	132,085	132,744	130,903	129,015'	125,976 ^r	133,625
45	Mainland	1,162	1,895	1,772	1,681	1,470	1,573	1,840	1,781	1,868	1,821
46	Taiwan	21,503	26,058	19,565	19,151	17,901	15,552	15,413	15,173 ^r 12,858 ^r	10,969	12,610
47 48	Hong Kong India	10,180 582	12,248	12,395 780	11,824	11,115	11,569	1,013	1,148	12,303' 966	13,244 908
49	Indonesia	1,404	1,180	1,281	1,061	1,174	1,545	1,560	1,192	1,522	1,367
50	Israel	1,292	1,461	1,243	1,039	894	1,497	1,310	1,226	1,202	1,112
51 52	Japan	54,322 1,637	74,015	81,183 3,214	70,223	65,127	66,078	65,549	62,056′	62,334' 2,063	65,979
53	Philippines	1,085	1,163	1.764	1,150	1,263	1,198	1,191	1,187	1,332	1,314
54	Thailand	1,345	1,236	2,093	2,381	2,524	1,930	1,595	1,973	2,125	2,745
55 56	Middle-East oil-exporting countries'Other	13,988 12,788	12,083 13,260	13,369 17,468	13,262 16,305	12,558 14,735	12,450 15,999	11,626 15,466	13,048 15,362	13,034 ^r 16,258 ^r	14,062 16,352
57	Africa	3,945	3,991	3,823	3,627	3,778	3,644	3,722	3,778	3,660	3,411
58	Egypt	1,151	911	686	640	722	601	595	646	593	583
59 60	Morocco. South Africa	194 202	68	78 205	86 257	95 261	80 277	111 236	86 241	318	239
61	Zaire	67	85	86	82	77	74	70	66	41'	38
62 63	Zaire Oil-exporting countries ⁴ Other	1,014 1,316	1,017 1,474	1,120 1,648	993 1,570	1,110 1,513	1,048 1,563	936 1,775	1,016 1,722	889' 1,737'	874 1,583
64	Other countries	4,070	6,165	4,559	4,571	5,521	4,883	4,173	6,002	5,699	5,479
65	Australia	3,327	5,293	3,867	3,891	4,798	3,994	3,469	5,250 751	5,052	4,891
66	All other	744	872	692	680	723	889	703	751	647	588
67	Nonmonetary international and regional				1	{	{		1		1
	organizations	4,464	3,224	4,772	4,671	3,765	4,896	5,727	4,558	4,997	4,112
68 69	International ³ Latin American regional	2,830 1,272	2,503 589	3,825 684	3,599 857	2,765 655	3,634 949	4,147 1,123	3,393 912	3,862 920	2,981 812
70	Other regional ⁶	362	133	263	214	345	313	457	253	215	319
	Carol toglorina					1 77	1 212			1	

^{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).

^{4.} Comprises Algeria, Gabon, Libya, and Nigeria.
5. Excludes "holdings of dollars" of the International Monetary Fund.
6. 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 States¹ Payable in U.S. Dollars

	1007	1000	1000		•	_	1990	<u>-</u>		
Area and country	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May'	June'	July ^p
1 Total	459,877	491,165	533,763	511,739	499,176	489,951	490,778	490,276	490,169	490,297
2 Foreign countries	456,472	489,094	530,324	507,246	495,102	486,158	486,385	485,691	486,175	486,007
3 Europe 4 Austria 5 Belgium—Luxembourg 6 Denmark 7 Finland 8 France 9 Germany 10 Greece	102,348 793 9,397 717 1,010 13,548 2,039 462 7,460	116,928 483 8,515 483 1,065 13,243 2,329 433 7,936	118,885 415 6,478 582 1,027 16,146 2,865 788 6,662	105,603 658 6,668 664 1,224 15,839 1,990 735 4,934	104,162 429 7,063 635 1,218 16,392 2,762 773 5,377	104,191 500 6,358 608 1,153 15,631 2,783 664 5,010	104,989 592 6,330 750 1,025 16,087 2,476 622 4,230	103,415 420' 6,765' 1,004 931 16,224 3,045 597 4,758	102,232 537 5,411 590 1,035 14,794 2,943 514 5,126	102,114 399 6,744 503 1,120 13,746 2,591 529 4,618
Netherlands	2,619 934 477 1,853 2,254 2,718 1,680 50,823 1,700 619 389 852	2,541 455 261 1,823 1,977 3,895 1,233 65,706 1,390 1,152 1,255 754	1,904 609 376 1,930 1,773 6,141 1,071 65,388 1,329 1,302 1,179 921	1,659 600 2,790 2,718 4,835 1,087 54,462 1,243 1,133 1,192 864	1,567 672 288 2,040 2,158 4,922 1,088 52,121 1,158 1,271 1,322 905	2,182 777 273 2,240 2,236 5,056 1,123 52,993 1,157 1,183 1,356 907	2,027 918 381 1,726 2,206 4,826 1,120 55,439 1,121 970 1,322 820	1,968 741 407 1,887 2,711 4,999 1,138 52,163 1,128 786 945 800	2,041 725 540 2,074 2,609 5,249 1,230 53,379 1,095 804 754	1,762 657 543 2,115 3,351 4,297 1,186 54,588 1,070 960 565 769
24 Canada	25,368	18,889	15,427	16,694	16,768	15,082	15,199	16,320	16,482	16,391
25 Latin America and Caribbean 26 Argentina 27 Bahamas 28 Bermuda 29 Brazil 30 British West Indies 31 Chile 32 Colombia 33 Cuba 34 Ecuador 35 Guatemala 36 Jamaica 37 Mexico 38 Netherlands Antilles 39 Panama 40 Peru 41 Uruguay 42 Venezuela 43 Other Latin America and Caribbean	214,789 11,996 64,587 750,042 6,308 2,740 1 2,286 144 148 29,532 980 4,744 1,329 963 10,843 1,738	214,264 11,826 66,954 483 25,735 55,888 5,217 2,944 12,075 198 212 24,637 1,306 2,521 1,013 9,010 10,733 1,612	230,353 9,270 77,921 1,315 23,749 68,664 4,353 2,784 1,688 197 297 23,381 1,921 1,740 771 928 9,647 1,726	224,116 12,117 70,102 485 23,503 70,889 4,212 2,530 0,1,588 213 22,027 1,764 1,748 750 932 9,289 1,682	220,258 8,718 71,891 401 23,210 70,048 4,208 2,610 0 1,570 200 274 21,400 1,702 1,688 752 935 8,956 1,695	212,902 8,189 69,095 425 21,884 72,329 4,079 2,720 0 1,536 208 265 16,798 1,692 1,732 926 8,528	202,614 8,025 63,927 443 21,848 67,610 0 1,527 207 260 17,080 1,759 1,743 8,423 1,790	207,467' 7,689 70,296 774 21,793' 67,554' 3,630' 2,624 0 1,503 206 260 16,360' 1,630 1,643' 679 876 8,251' 1,697'	210,288 7,599 66,538 1,830 20,699 74,564 3,453 2,596 0 1,523 188 258 16,507 1,722 1,598 683 842 8,139 1,547	202,059 7,165 66,885 2,047 20,412 66,198 3,488 2,541 1,515 197 262 26,16,963 1,873 1,491 843 8,065 1,484
44 Asia	106,096	130,881	157,416	152,452	145,033	145,675	155,435	150,042	148,799	158,008
Mainland Taiwan 47 Hong Kong 48 India 49 Indonesia 50 Israel 51 Japan 52 Korea 53 Philippines 54 Thailand 55 Middle East oil-exporting countries 56 Other Asia	968 4,592 8,218 510 580 1,363 68,658 5,148 2,071 496 4,858 8,635	762 4,184 10,143 560 674 1,136 90,149 5,213 1,876 848 6,213 9,122	634 2,776 11,128 621 651 813 111,270 5,296 1,344 1,140 10,149 11,594	620 2,157 7,696 625 641 749 113,387 5,156 1,297 1,172 8,663 10,290	619 1,824 6,605 892 611 752 108,352 4,880 1,163 1,052 9,250 9,035	599 2,016 7,418 721 604 737 108,527 5,016 1,204 992 8,774 9,066	674 1,890 8,965 588 560 721 117,487 4,991 1,221 1,070 8,376 8,894	517 1,941 9,553 579 599 738' 108,170' 5,141 1,351 1,202 9,577 10,674	519 1,946 9,271 802 801 775 107,598 5,057 1,357 1,279 10,816 8,576	620 1,580 9,375 849 831 932 114,439 5,445 1,342 1,267 12,347 8,981
57 Africa 58 Egypt 59 Morocco 60 South Africa 61 Zaire 62 Oil-exporting countries ⁶ 63 Other	4,742 521 542 1,507 15 1,003 1,153	5,718 507 511 1,681 17 1,523 1,479	5,890 502 559 1,628 16 1,648 1,537	5,935 470 575 1,619 16 1,667 1,588	5,967 493 588 1,629 17 1,749 1,491	5,984 474 581 1,648 25 1,749 1,507	5,953 491 596 1,632 19 1,705 1,509	5,913' 488 587' 1,639 20 1,665 1,515	5,785 469 565 1,568 21 1,653 1,510	5,557 421 544 1,560 20 1,604 1,408
64 Other countries 65 Australia 66 All other	3,129 2,100 1,029	2,413 1,520 894	2,354 1,781 573	2,446 1,815 631	2,914 2,015 900	2,324 1,632 692	2,195 1,551 644	2,535 1,657 878	2,590 1,712 878	1,878 1,422 456
67 Nonmonetary international and regional organizations	3,404	2,071	3,439	4,493	4,074	3,794	4,393	4,585	3,994	4,291

Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.
 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.

Included in "Other Latin America and Caribbean" through March 1978.
 Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
 Comprises Algeria, Gabon, Libya, and Nigeria.
 Excludes the Bank for International Settlements, which is included in "Other Western Europe."

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

m	1007	1000	1000				1990			
Type of claim	1987	1988	1989	Jan.	Feb.	Mar.	Apr.	May'	June'	July ^p
1 Total	497,635	538,689	590,251			543,114		,	549,059	
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	459,877 64,605 224,727 127,609 60,687 66,922 42,936	491,165 62,658 257,436 129,425 65,898 63,527 41,646	533,763 59,877 295,948 134,848 78,005 56,843 43,090	511,739 58,969 289,826 123,647 69,522 54,125 39,297	499,176 56,909 283,970 120,114 67,121 52,993 38,184	489,951 53,920 274,861 123,003 69,977 53,027 38,167	490,778 53,497 274,326 125,138 71,770 53,368 37,817	490,276 52,490 274,931 125,567 71,993 53,575 37,288	490,169 50,788 279,652 121,182 67,998 53,183 38,548	490,297 49,340 274,632 128,779 72,761 56,017 37,547
9 Claims of banks' domestic customers ³ 10 Deposits	37,758 3,692 26,696	47,524 8,289 25,700	56,488 12,834 29,063			53,163 16,788 22,020			58,890 15,499 27,451	
12 Outstanding collections and other claims	7,370	13,535	14,591			14,354			15,940	1.,,,,,,
13 Мемо: Customer liability on acceptances	23,107	19,596	12,753			13,563	,,,,,,,		12,943	,.,
Dollar deposits in banks abroad, reported by nonbanking business enterprises in the United States ³	40,909	45,502	45,309	43,932	45,263	41,809	38,923′	41,071	39,657	n.a.

^{1.} Data for banks' own claims are given on a monthly basis, but the data for

parent foreign bank

3.20 BANKS' OWN CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Banks in the United States¹ Payable in U.S. Dollars

Mark to the state of the state	1986	1987	1988	19	89	19	90
Maturity; by borrower and area	1980	1987	1988	Sept.	Dec.	Mar.	June ^p
1 Total	232,295	235,130	233,184	234,112	237,474	213,670	211,062
By borrower 2 Maturity of 1 year or less ² . 3 Foreign public borrowers. 4 All other foreigners. 5 Maturity over 1 year 6 Foreign public borrowers. 7 All other foreigners.	160,555 24,842 135,714 71,740 39,103 32,637	163,997 25,889 138,108 71,133 38,625 32,507	172,634 26,562 146,071 60,550 35,291 25,259	169,279 24,102 145,178 64,832 39,537 25,295	177,223 23,483 153,741 60,251 35,822 24,429	160,087 22,725 137,362 53,584 30,050 23,533	157,458 19,421 138,037 53,603 31,069 22,534
By area Maturity of 1 year or less² 8 Europe 9 Canada 10 Latin America and Caribbean 11 Asia . 12 Africa . 13 All other³ Maturity of over year² 14 Europe 15 Canada	61,784 5,895 56,271 29,457 2,882 4,267 6,737 1,925	59,027 5,680 56,535 35,919 2,833 4,003	55,909 6,282 57,991 46,224 3,337 2,891 4,666 1,922	53,122 6,236 52,227 50,445 3,514 3,735 6,065 2,459	53,300 5,886 52,929 57,766 3,225 4,118 4,595 2,353	48,368 5,694 46,719 51,744 3,165 4,396 4,407 2,702	49,101 5,579 44,323 50,729 2,991 4,734 4,326 2,860
Latina America and Caribbean Asia Safrica All other ³	56,719 4,043 1,539 777	53,817 3,830 1,747 2,381	47,547 3,613 2,301 501	49,046 4,203 2,475 584	45,844 4,142 2,633 684	37,668 5,479 2,764 564	35,924 7,036 2,739 718

^{1.} Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.

I. Data for banks' own claims are given on a monthly basis, but the data for claims of banks' own domestic customers are available on a quarterly basis only. Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.
2. U.S. banks: includes amounts due from own foreign branches and foreign subsidiaries consolidated in "Consolidated Report of Condition" filed with bank regulatory agencies. Agencies, branches, and majority-owned subsidiaries of 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.

Principally negotiable time certificates of deposit and bankers acceptances.
 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.

Remaining time to maturity.
 Includes nonmonetary international and regional organizations.

3.21 CLAIMS ON FOREIGN COUNTRIES Held by U.S. Offices and Foreign Branches of U.S.-Chartered Banks^{1,2} Billions of dollars, end of period

	1001			1988			19	89		19	990
Area or country	1986	1987	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June ^p
1 Total	386.5 156.6	382.4 159.7	351.9 150.7	354.0 148.7	346.3 152.7	346.1 145.4	340.0 145.1	346.2 ′	338.2 ^r	336.2 ^r	324.3 139.4
3 Belgium-Luxembourg	8.4 13.6 11.6 9.0 4.6 2.4 5.8 70.9 5.2 25.1	10.0 13.7 12.6 7.5 4.1 2.1 5.6 68.8 5.5 29.8	9.2 10.9 10.6 6.3 3.2 1.9 5.6 70.4 5.3 27.3	9.5 10.3 9.2 5.6 2.9 1.9 5.2 67.6 4.9 31.6	9.0 10.5 10.3 6.8 2.7 1.8 5.4 66.2 5.0 34.9	8.6 11.2 10.2 5.2 2.8 2.3 5.1 65.6 4.0 30.5	7.8 10.8 10.6 6.1 2.8 1.8 5.4 64.5 5.1 30.2	6.9 11.1 10.4 6.8 2.4 2.0 6.1 63.7 5.9 31.0	132.7 6.3 11.7 10.5 7.4 3.1 2.0 7.1 67.0 5.4 32.2	6.6 10.5 11.2 6.0 3.1 2.1 6.3 63.8 4.8 32.5	6.2 10.3 11.2 5.5 2.7 2.3 6.4 59.7 5.1 29.9
13 Other developed countries 14 Austria 15 Denmark 16 Finland 17 Greece 18 Norway 19 Portugal 20 Spain 21 Turkey 22 Other Western Europe 23 South Africa 24 Australia	26.1 1.7 1.7 1.4 2.3 2.4 9 5.8 2.0 1.5 3.0 3.4	26.4 1.9 1.7 1.2 2.0 2.2 .6 8.0 2.0 1.6 2.9 2.4	24.0 1.6 1.1 1.2 2.1 1.9 .4 7.2 1.8 1.7 2.8 2.2	23.0 1.6 1.2 1.3 2.1 2.0 .4 6.3 1.6 1.9 2.7 1.8	21.0 1.5 1.1 1.1 1.8 1.8 4 6.2 1.5 1.3 2.4 1.8	21.1 1.4 1.1 1.0 2.1 1.6 .4 6.6 1.3 1.1 2.2 2.4	21.2 1.7 1.4 1.0 2.3 1.8 6.2 1.1 1.1 2.1	21.0 1.5 1.1 1.1 2.4 1.4 6.9 1.2 1.0 2.1	20.7 1.5 1.1 1.0 2.5 1.4 7.1 1.2 .7 2.0 1.6	23.1 1.5 1.1 1.1 2.6 1.7 4 8.3 1.3 1.0 ^r 2.0 2.1	22.6 1.5 1.1 .9 2.7 1.4 .8 7.9 1.4 1.1
25 OPEC countries ³ . 26 Ecuador	19.4 2.2 8.7 2.5 4.3 1.8	17.4 1.9 8.1 1.9 3.6 1.9	17.0 1.8 8.0 1.8 3.5 1.9	17.9 1.8 7.9 1.8 4.6 1.9	16.6 1.7 7.9 1.7 3.4 1.9	16.2 1.6 7.9 1.7 3.3 1.7	16.1 1.5 7.5 1.9 3.4 1.6	16.2 1.5 7.4 2.0 3.5 1.9	17.1 1.3 7.0 2.0 5.0 1.7	15.3 ^r 1.2 6.1 2.1 4.1 ^r 1.8	15.4 1.2 6.0 2.0 4.4 1.8
31 Non-OPEC developing countries	99.6	97.8	91.8	87.2	85.3	85.9	83.4	81.2	77.5	71.1	69.5
Latin America 32 Argentina 33 Brazil. 34 Chile 35 Colombia 36 Mexico 37 Peru. 38 Other Latin America	9.5 25.3 7.1 2.1 24.0 1.4 3.1	9.5 24.7 6.9 2.0 23.5 1.1 2.8	9.5 23.7 6.4 2.2 21.1 .9 2.6	9.3 22.4 6.3 2.1 20.4 .8 2.5	9.0 22.4 5.6 2.1 18.8 .8 2.6	8.5 22.8 5.7 1.9 18.3 .7 2.7	7.9 22.1 5.2 1.7 17.7 .6 2.6	7.6 20.9 4.9 1.6 17.2 .6 2.9	6.3 19.0 4.6 1.8 17.7 .6 2.8	5.5 17.5 4.3 1.8 15.2 .5 2.7	5.1 17.2 3.7 1.7 14.8 .5 2.4
Asia China 39 Mainland. 40 Taiwan 41 India 42 Israel. 43 Korea (South) 44 Malaysia 45 Philippines 46 Thailand 47 Other Asia	.4 4.9 1.2 1.5 6.7 2.1 5.4 .9	3.3 8.2 1.9 1.0 5.0 1.5 5.2 .7	.4 4.9 2.3 1.0 5.9 1.5 4.9 1.1	3.2 2.0 1.0 6.0 1.7 4.7 1.2	.3 3.7 2.1 1.2 6.1 1.6 4.5 1.1	.5 4.9 2.6 .9 6.1 1.7 4.4 1.0	.3 5.2 2.4 .8 6.6 1.6 4.4 1.0	.3 5.0 2.7 .7 6.5 1.7 4.0 1.3	3.1 3.1 .7 5.9 1.7 4.1 1.3 1.0	.3 3.8 3.5 .6 5.3 1.8 3.7 1.1	.2 3.6 3.6 .6 5.6 1.8 3.9 1.3
Africa 48 Egypt	.7 .9 .1 1.6	.6 .9 .0 1.3	.6 .9 .1 1.2	.5 .8 .0 1.2	.4 .9 .0 1.1	.5 .9 .0 1.1	.6 .9 .0 1.1	.5 .8 .0 1.0	.4 .9 .0 1.0	.4 .9 .0 .9	.5 .9 .0
52 Eastern Europe	3.5 .1 2.0 1.4	3.2 .3 1.8 1.1	3.3 .4 1.9 1.0	3.1 .4 1.8 1.0	3.6 .7 1.8 1.1	3.5 .7 1.7 1.1	3.4 .6 1.7 1.1	3.5 .8 1.7 1.1	3.5 .7 1.6 1.3	3.4 .8 1.4 1.3	3.0 .4 1.4 1.2
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 66 Miscellaneous and unallocated ⁷ .	61.5 22.4 .6 12.3 1.8 4.0 .1 11.1 9.2 .0	54.5 17.3 .6 13.5 1.2 3.7 .1 11.2 7.0 .0	43.0 8.9 1.0 10.3 1.2 3.0 .1 11.6 6.9 .0	47.3 12.9 .9 11.9 1.2 2.6 .1 10.5 7.0 .0	44.2 11.0 .9 12.9 1.0 2.5 .1 9.6 6.1 .0	48.5 15.8 1.1 12.0 .9 2.2 .1 9.6 6.8 .0	43.1 11.0 .7 10.8 1.0 1.9 .1 10.4 7.3 .0	49.2 ^r 11.4 ^r 1.3 15.3 1.1 1.5 .1 10.7 7.8 .0	36.6° 5.5° 1.7 8.9 2.3 1.4 .1 9.7 7.0 .0	43.0 9.3 .9 10.9 2.6 1.3 .1 9.8 8.0 .0	38.9 8.5 2.2 7.3 2.3 1.4 .1 10.0 7.0 .0

^{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

from \$30 million to \$130 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.

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3.22 LIABILITIES TO UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States¹

		Ţ		1988		19	989	·	1990
Type, and area or country	1986	1987	1988	Dec.	Mar.	June	Sept.	Dec.	Mar.
1 Total	25,587	28,302	33,646	33,646	37,384	36,998	35,584	37,406	37,306 ^r
Payable in dollars Payable in foreign currencies	21,749 3,838	22,785 5,517	28,040 5,606	28,040 5,606	31,594 5,790	31,925 5,073	30,746 4,838	32,588 4,819	33,004' 4,303'
By type 4 Financial liabilities 5 Payable in dollars 6 Payable in foreign currencies	12,133 9,609 2,524	12,424 8,643 3,781	15,130 11,243 3,888	15,130 11,243 3,888	17,453 13,373 4,080	17,124 13,265 3,860	16,268 12,440 3,829	17,524 13,631 3,893	16,749' 13,523' 3,226'
7 Commercial liabilities 8 Trade payables 9 Advance receipts and other liabilities 10 Payable in dollars 11 Payable in foreign currencies	13,454 6,450 7,004 12,140 1,314	15,878 7,305 8,573 14,142 1,737	18,516 6,466 12,050 16,797 1,719	18,516 6,466 12,050 16,797 1,719	19,931 7,030 12,901 18,220 1,711	19,874 6,350 13,524 18,661 1,213	19,315 6,812 12,503 18,306 1,009	19,882 7,206 12,676 18,957 925	20,557' 7,117' 13,440 19,481' 1,076
By area or country Financial liabilities 12 Europe 13 Belgium-Luxembourg 14 France 15 Germany 16 Netherlands 17 Switzerland 18 United Kingdom	7,917 270 661 368 542 646 5,140	8,320 213 382 551 866 558 5,557	9,918 289 319 699 879 1,033 6,533	9,918 289 319 699 879 1,033 6,533	12,571 320 224 741 873 954 9,266	11,404 357 278 838 834 978 7,939	10,374 308 262 809 853 839 7,087	10,697 340 243 736 946 578 7,582	9,897' 333 208' 532' 865 595 7,021'
19 Canada	399	360	663	663	616	544	599	583	481
20 Latin America and Caribbean 21 Bahamas 22 Bermuda 23 Brazil 24 British West Indies 25 Mexico 26 Venezuela	1,944 614 4 32 1,146 22 0	1,189 318 0 25 778 13 0	1,239 184 0 0 645 1 0	1,239 184 0 0 645 1	677 189 0 0 471 15 0	1,216 165 0 0 621 17 0	1,315 186 0 0 698 4 0	1,226 157 17 0 594 6 0	1,764 237 0 0 1,046 5
27 Asia	1,805 1,398 8	2,451 2,042 8	3,306 2,563 3	3,306 2,563 3	3,583 2,825 1	3,860 3,100 12	3,878 3,130 2	4,916 4,064 2	4,503 3,445 3
30 Africa	1	1	1 0	0	5 3	3 2	4 2	2 0	3 0
32 All other ⁴	67	100	2	2	2	97	97	100	102
Commercial liabilities 33	4,446 101 352 715 424 385 1,341	5,516 132 426 909 423 559 1,599	7,351 170 455 1,699 591 417 2,065	7,351 170 455 1,699 591 417 2,065	7,965 134 579 1,373 670 459 2,585	7,778 114 535 1,190 688 447 2,709	8,319 137 806 1,183 548 531 2,703	8,867 178 872 1,362 699 621 2,599	9,096 ^r 233 881 ^r 1,143 688 583 2,906
40 Canada	1,405	1,301	1,217	1,217	1,163	1,133	1,189	1,066	1,124
41 Latin America and Caribbean 42 Bahamas 43 Bermuda 44 Brazil 45 British West Indies 46 Mexico 47 Venezuela	924 32 156 61 49 217 216	864 18 168 46 19 189 162	1,118 49 286 95 34 179 177	1,118 49 286 95 34 179 177	1,267 35 426 103 31 198 179	1,611 34 388 541 42 179 131	1,053 27 305 113 30 187 107	1,127 41 308 100 27 243 154	1,263' 37 516 116' 18 208 85'
48 Asia	5,080 2,042 1,679	6,565 2,578 1,964	6,923 3,097 1,386	6,923 3,097 1,386	7,330 3,059 1,526	6,957 2,708 1,431	7,038 2,674 1,406	6,953 2,772 1,346	6,819 ^r 2,624 1,340 ^r
51 Africa	619 197	574 135	578 202	578 202	706 272	752 253	639 246	838 300	738 ^r 248
53 All other ⁴	980	1,057	1,328	1,328	1,500	1,642	1,077	1,031	1,517

^{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).

^{3.} Comprises Algeria, Gabon, Libya, and Nigeria.
4. Includes nonmonetary international and regional organizations.
5. Revisions include a reclassification of transactions, which also affects the totals for Asia and the grand totals.

A66 International Statistics □ November 1990

3.23 CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States¹

	4004	1007		1988		19	89		1990
Type, and area or country	1986	1987	1988	Dec.	Mar.	June	Sept.	Dec.	Mar.
1 Total	36,265	30,964	33,842	33,842	31,608	34,282	32,022	31,011	29,927'
2 Payable in dollars	33,867	28,502	31,507	31,507	29,293	32,088	29,797	28,683	27,269 ^r
	2,399	2,462	2,335	2,335	2,315	2,193	2,225	2,328	2,657 ^r
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	26,273	20,363	21,843	21,843	19,616	21,808	19,116	17,326	16,732'
	19,916	14,894	15,792	15,792	14,456	16,734	12,442	10,360	10,452'
	19,331	13,765	14,693	14,693	13,542	15,814	11,577	9,434	9,609'
	585	1,128	1,099	1,099	914	921	865	926	843'
	6,357	5,470	6,051	6,051	5,160	5,074	6,673	6,966	6,280'
	5,005	4,656	5,320	5,320	4,267	4,362	5,812	6,170	5,039'
	1,352	814	731	731	893	713	862	796	1,241
11 Commercial claims 12 Trade receivables 13 Advance payments and other claims	9,992	10,600	11,999	11,999	11,992	12,473	12,906	13,685	13,194'
	8,783	9,535	10,924	10,924	10,730	11,042	11,421	12,073	11,602'
	1,209	1,065	1,075	1,075	1,262	1,432	1,485	1,612	1,593
14 Payable in dollars	9,530	10,081	11,494	11,494	11,485	11,913	12,408	13,079	12,622'
	462	519	505	505	507	560	498	606	573
By area or country Financial claims 16 Europe 17 Belgium-Luxembourg 18 France 19 Germany 20 Netherlands 21 Switzerland 22 United Kingdom	10,744 41 138 116 151 185 9,855	9,531 7 332 102 350 65 8,467	10,276 18 226 138 348 217 8,977	10,276 18 226 138 348 217 8,977	8,848 22 233 171 384 260 7,469	8,614 161 198 199 297 67 7,378	7,507 166 209 147 292 111 6,340	6,830 13 153 194 303 90 5,848	7,139 ^r 22 200 ^r 501 315 ^r 124 5,262
23 Canada	4,808	2,844	2,339	2,339	2,210	2,617	2,428	1,916	1,807
24 Latin America and Caribbean 25 Bahamas 26 Bermuda 27 Brazil 28 British West Indies 29 Mexico 30 Venezuela	9,291	7,012	8,122	8,122	7,465	9,351	8,278	7,428	6,935'
	2,628	1,994	1,838	1,838	2,171	1,881	1,707	1,513	1,616'
	6	7	19	19	25	33	33	7	4
	86	63	47	47	49	78	70	224	79
	6,078	4,433	5,733	5,733	4,799	6,949	6,080	5,273	4,822'
	174	172	151	151	117	114	105	94	152
	21	19	21	21	25	31	36	20	21
31 Asia 32 Japan	1,317	879	830	830	951	1,109	801	829	763 ^r
	999	605	561	561	627	640	440	439	416
	7	8	5	5	8	8	7	8	7
34 Africa	85 28	65	106 10	106 10	89 8	80 8	75 8	140 12	67 11
36 All other ⁴	28	33	170	170	52	37	27	183	21'
Commercial claims 37	3,725	4,180	5,051	5,051	4,984	5,290	5,423	6,140	6,018
	133	178	178	178	202	205	220	241	219
	431	650	661	661	760	770	824	948	952'
	444	562	623	623	657	675	688	666	690
	164	133	208	208	161	413	396	478	450'
	217	185	327	327	251	231	222	305	270
	999	1,073	1,323	1,323	1,300	1,371	1,396	1,550	1,689
44 Canada	934	936	974	974	1,114	1,181	1,278	1,045	1,091
45 Latin America and Caribbean 46 Bahamas 47 Bermuda 48 Brazii 49 British West Indies 50 Mexico 51 Venezuela	1,857	1,930	2,237	2,237	2,114	2,100	2,131	2,163	2,043 ^r
	28	19	36	36	34	13	10	57	22
	193	170	230	230	234	238	270	323	242
	234	226	298	298	277	314	232	285	225 ^r
	39	26	22	22	23	30	33	36	38
	412	368	460	460	482	438	508	507	523 ^r
	237	283	226	226	213	229	188	148	187 ^r
52 Asia	2,755	2,915	2,973	2,973	3,097	3,145	3,301	3,532	3,254 ^r
	881	1,158	943	943	1,042	998	1,177	1,184	1,060 ^r
	563	450	445	445	428	430	406	509	420 ^r
55 Africa	500	401	434	434	386	407	390	419	425'
	139	144	122	122	95	111	80	108	89
57 All other ⁴	222	238	331	331	297	350	381	386	365'

^{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

			1990				1990	rant 11, 11 to		
Transactions, and area or country	1988	1989	Jan, July	Jan.	Feb.	Mar.	Apr.	May	June	July ^p
				ι	J.S. corpora	ite securitie	:s			
Stocks										
1 Foreign purchases	181,185 183,185	213,160 203,537	106,345 111,771	13,747 14,130	13,463 13,692	16,430 19,117	11,457 12,356	15,231 17,717	18,511' 18,584'	17,505 16,175
3 Net purchases, or sales (~)	-2,000	9,623	-5,426	-383	-229	-2,687	-899	-2,486	-72 ^r	1,330
4 Foreign countries	-1,825	9,857	~5,553	-353	~230	-2,733	-937	-2,543	-36 ^r	1,278
5 Europe 6 France 7 Germany 8 Netherlands 9 Switzerland 10 United Kingdom 11 Canada 12 Latin America and Caribbean 13 Middle East 14 Other Asia 15 Japan 16 Africa 17 Other countries	-3,350 -281 218 -535 -2,243 -954 1,087 1,238 -2,474 1,365 1,922 188 121	278 -708 -830 167 -3,468 3,729 -845 3,089 3,531 3,405 3,340 131 268	-3,633 -572 -9 -167 -1,859 -969 -339 -539 -539 -957 -80 -180 -28	-183 -155 41 -18 -240 -275 -140 -111 -27 231 166 2 -125	-144 -157 3 -38 -242 183 51 -178 93 -30 -104 -34	-990 7 105 48 -441 -720 -163 -208 -425 -921 -764 1 -27	-666 -85 6 -25 -221 -99 -212 -27 116 -55 -92 -2	-1,048 -189 -57 -20 -347 -200 -101 90 -593 -904 -750 0	-590' 32 -66 -83 -198' -114' 88' -14 -85 543 512 -7 30	-12 -25 -41 -30 -170 255 137 -90 -36 1,056 851 13 211
18 Nonmonetary international and regional organizations	~176	-234	127	-30	1	46	38	57	-37	52
Bonds ²	96 201	120 540	60.200	0.464	10.207	0.240	0.255	0.467	12 572/	10 005
19 Foreign purchases	86,381 58,417	120,540 86,510	69,208 53,432	9,464 7,810	10,297 7,780	9,248 8,061	8,355 7,499	8,467 6,347	12,572 ^r 8,456 ^r	10,805 7,480
21 Net purchases, or sales (-)	27,964	34,031	15,776	1,654	2,517	1,186	856	2,120	4,116	3,326
22 Foreign countries	28,506	33,678	16,067	2,054	2,491	1,026	850	2,195	4,084	3,368
23 Europe 24 France 25 Germany 26 Netherlands 27 Switzerland 28 United Kingdom 29 Canada 30 Latin America and Caribbean 31 Middle East' 32 Other Asia 33 Japan 34 Africa 35 Other countries	17,239 143 1,344 1,514 505 13,084 711 1,931 -178 8,900 7,686 -8	19,848 372 -238 850 -165 18,459 1,116 3,686 -182 9,063 6,331 56 91	9,462 528 -345 67 1,044 8,175 1,749 3,459 370 944 940 83	1,135 118 -114 -43 157 1,132 178 493 87 152 170 3 5	245 9 -253 15 58 475 474 883 100 796 1,103 36 -43	915 5 -15 -11 -69 1,009 183 313 36 -461 -419 -8 48	1,008 -58 -40 -2 -59 1,158 353 411 -2 -993 -1,044 48 24	781 108 -39 33 83 495 198 508 251 440 331 8	3,380' 293 82 37 186 2,761' 292 578 -120 11 -131 2 -59	1,998 33 37 570 1,145 70 273 17 999 930 -4 15
36 Nonmonetary international and regional organizations	-542	353	-291	-399	27	160	6	-76	32	-42
			l———-I		Foreign s	securities	L			
37 Stocks, net purchases, or sales (-) ³	-1,959	-12,832	~7,468	772	-981	-90	-872	-2,421	-2,759°	-1,117
38 Foreign purchases	75,356 77,315	109,789 122,621	75,756 83,224	12,983 12,211	10,481 11,461	11,765 11,855	8,360 9,233	9,772 12,193	11,020 13,779°	11,375 12,492
40 Bonds, net purchases, or sales (-)	-7,434 218,521 225,955	-6,049 234,215 240,264	-15,215 156,707 171,922	556 18,512 17,955	-159 20,671 20,830	-9,605 22,375 31,981	-1,830 20,184 22,015	-1,837 25,879 27,716	-2,030° 25,658 27,688°	-310 23,428 23,738
43 Net purchases, or sales (-), of stocks and bonds	~9,393	18,881	-22,683	1,328	-1,139	-9,695	-2,702	-4,259	-4,789	-1,426
44 Foreign countries	-9,873	~18,914	-20,800	1,220	-1,229	-8,094	-2,852	-4,054	-4,336 ^r	-1,456
45 Europe 46 Canada 47 Latin America and Caribbean 48 Asia 49 Africa 50 Other countries	-7,864 -3,747 1,384 979 -54 -571	-17,728 -4,180 426 2,722 93 -246	-6,706 -4,591 -6,146 -2,445 -103 -810	1,398 -58 33 111 -14 -249	-1,226 -144 161 -307 9 277	-305 -1,323 -6,648 693 -1 -511	-669 -1,797 -171 -341 -28 154	-1,888 -721 282 -1,403 6 -331	-3,649' -219' 418 -1,073' 8 180	-368 -329 -222 -124 -83 -330
51 Nonmonetary international and regional organizations	480	33	-1,883	108	89	~1,601	150	-205	-453	30

^{1.} Comprises oil—exporting countries as follows: Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
2. Includes state and local government securities, and securities of U.S. government agencies and corporations. Also includes issues of new debt securi-

ties sold abroad by U.S. corporations organized to finance direct investments abroad.

3. As a result of the merger of a U.S. and U.K. company in July 1989, the former stockholders of the U.S. company received \$5,453 million in shares of the new combined U.K. company. This transaction is not reflected in the data above.

International Statistics □ November 1990

3.25 MARKETABLE U.S. TREASURY BONDS AND NOTES Foreign Transactions

Millions of dollars

			1990		-		1990			
Country or area	1988 1989	Jan. – July	Jan.	Feb.	Mar.	Apr.	May	June	July ^p	
			Transac	ctions, net	purchases	or sales ((–) during	period ¹		
1 Estimated total ²	48,832	54,607	2,384	819	1,454	-8,793	3,081	-2,505	3,394	4,936
2 Foreign countries ²	48,170	52,705	3,871	1,090	1,795	-8,597	4,071	-2,915	3,088	5,338
3 Europe ² 4 Belgium-Luxembourg 5 Germany ² 6 Netherlands 7 Sweden 8 Switzerland ² 9 United Kingdom 10 Other Western Europe 11 Eastern Europe 12 Canada	14,319 923 -5,268 -356 -323 -1,074 9,640 10,786 -10 3,761	35,939 1,048 7,904 -1,141 886 1,097 20,198 5,968 -21 701	9,639 575 859 -1,145 311 -499 3,109 6,420 6 -3,920	1,238 144 -216 -330 -71 -284 150 1,845 0 -542	2,191 -337 1,672 -1,400 270 -5 1,627 363 0 -2,137	-2,374 -256 -475 -411 -22 -251 -298 -664 0 -1,383	5,998 458 633 749 763 422 2,250 714 6	-4,247 115 306 -263 -727 -189 -3,533 43 0 -1,752	3,178 270 -1,061 313 -34 606 1,862 1,223 0 367	3,656 180 -1 196 133 -799 1,051 2,896 0 1,418
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	713 -109 1,130 -308 27,603 21,750 -13 1,786	490 311 -297 475 14,021 2,404 116 1,439	5,889 -49 3,204 2,735 -7,048 -8,170 36 -726	-333 -107 262 -488 447 837 9 273	91 -48 16 123 2,287 852 13 -650	672 38 270 365 -5,119 -5,630 -43 -351	2,134 -49 -35 2,218 -3,872 -6,102 -4 -294	478 71 610 -204 2,725 2,933 -8 -110	914 48 1,021 -154 -1,838 -1,221 52 416	1,934 -1 1,060 874 -1,677 161 17 -9
21 Nonmonetary international and regional organizations	661 1,106 -31	1,902 1,473 231	-1,486 -986 16	-272 -360 38	-341 -286 -11	-196 -92 -26	-991 -528 74	410 403 25	305 462 -109	-402 -585 25
Memo 24 Foreign countries ² 25 Official institutions 26 Other foreign ²	48,170 26,624 21,546	52,705 27,028 25,677	3,871 -17 3,888	1,090 328 763	1,795 -1,425 3,220	-8,597 -3,856 -4,741	4,071 5,564 -1,493	-2,915 -2,857 -58	3,088 1,548 1,540	5,338 681 4,658
Oil-exporting countries 27 Middle East ³	1,963 1	8,148 - I	852 -0	916 -1	970 0	1,020	668 0	-188 0	- 439 0	-2,095 0

^{1.} Estimated official and private transactions in marketable U.S. Treasury securities with an original maturity of more than 1 year. Data are based on monthly transactions reports. Excludes nonmarketable U.S. Treasury bonds and notes held by official institutions of foreign countries.

2. Includes U.S. Treasury notes publicly issued to private foreign residents denominated in foreign currencies.

Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
 Comprises Algeria, Gabon, Libya, and Nigeria.

3.26 DISCOUNT RATES OF FOREIGN CENTRAL BANKS

Percent per year

	Rate on Sept. 30, 1990			Rate on S	Sept. 30, 1990		Rate on Sept. 30, 1990	
Country	Percent	Month effective	Country	Percent	Month effective	Country	Percent	Month effective
Austria Belgium Canada Denmark	6.5 10.25 12.65 10.5	Oct. 1989 Oct. 1989 Sept. 1990 Oct. 1989	France ¹ Germany, Fed. Rep. of	9.5 6.0 12.5 6.0 7.0	Apr. 1990 Oct. 1989 May 1990 Aug. 1990 Oct. 1989	Norway Switzerland United Kingdom ²	8.0 6.0	June 1983 Oct. 1989

As of the end of February 1981, the rate is that at which the Bank of France discounts Treasury bills for 7 to 10 days.
 Minimum lending rate suspended as of Aug. 20, 1981.
 NOTE. Rates shown are mainly those at which the central bank either discounts

or makes advances against eligible commercial paper and/or government 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

	1987	(988	1989	1990						
Country, or type				Mar.	Apr.	May	June	July	Aug."	Sept.
1 Eurodollars 2 United Kingdom 3 Canada 4 Germany 5 Switzerland 6 Netherlands 7 France 8 Italy 9 Belgium 10 Japan	7.07 9.65 8.38 3.97 3.67 5.24 8.14 11.15 7.01 3.87	7.85 10.28 9.63 4.28 2.94 4.72 7.80 11.04 6.69 3.96	9.16 13.87 12.20 7.04 6.83 7.28 9.27 12.44 8.65 4.73	8.37 15.23 13.35 8.42 8.88 8.70 10.56 13.03 10.39 6.33	8.44 15.17 13.59 8.20 9.01 8.46 9.92 12.11 10.19 6.62	8.35 15.11 13.77 8.27 8.78 8.37 9.70 12.09 9.90 6.84	8.23 14.95 13.76 8.24 8.71 8.26 9.94 11.33 9.63 6.86	8.09 14.92 13.58 8.17 8.81 8.16 9.91 11.38 9.30 7.02	7.99 14.95 13.13 8.36 8.71 8.44 10.03 11.49 9.30 7.15	8.05 14.88 12.64 8.37 8.12 8.42 10.24 10.69 9.05 7.41

NOTE. Rates are for 3-month interbank loans except for Canada, finance company paper; Belgium, 3-month Treasury bills; and Japan, Gensaki rate.

A70 International Statistics □ November 1990

3.28 FOREIGN EXCHANGE RATES¹

Currency units per dollar

	1007	1988	1989	1990					
Country/currency	1987			Apr.	May	June	July	Aug."	Sept.
1 Australia/dollar ² 2 Austria/schilling 3 Belgium/franc 4 Canada/dollar 5 China, P.R./yuan 6 Denmark/krone	70.137	78.409	79.186	76.366	76.106	77.903	79.076	80.871	82.463
	12.649	12.357	13.236	11.862	11.699	11.843	11.520	11.044	11.044
	37.358	36.785	39.409	34.868	34.325	34.602	33.715	32.280	32.274
	1.3259	1.2306	1.1842	1.1641	1.1747	1.1730	1.1570	1.1448	1.1590
	3.7314	3.7314	3.7673	4.7339	4.7339	4.7339	4.7339	4.7339	4.7343
	6.8478	6.7412	7.3210	6.4305	6.3349	6.4080	6.2339	6.0033	5.9959
7 Finland/markka. 8 France/franc 9 Germany/deutsche mark. 10 Greece/drachma 11 Hong Kong/dollar 12 India/rupee 13 Ireland/punt ² .	4.4037	4.1933	4.2963	3.9923	3.9270	3.9561	3.8386	3.7051	3.7091
	6.0122	5.9595	6.3802	5.6638	5.5989	5.6613	5.4924	5.2680	5.2583
	1.7981	1.7570	1.8808	1.6863	1.6630	1.6832	1.6375	1.5702	1.5702
	135.47	142.00	162.60	163.77	163.82	164.78	160.59	154.82	154.83
	7.7986	7.8072	7.8008	7.7966	7.7877	7.7855	7.7704	7.7707	7.7653
	12.943	13.900	16.213	17.294	17.325	17.421	17.412	17.347	17.823
	148.79	152.49	141.80	158.97	161.21	159.28	163.75	170.86	170.89
14 Italy/lira 15 Japan/yen 16 Malaysia/ringgit 17 Netherlands/guilder 18 New Zealand/dollar 19 Norway/krone. 20 Portugal/escudo	1,297.03	1,302.39	1,372.28	1,238.38	1,221.93	1,235.60	1,199.65	1,157.07	1,172.41
	144.60	128.17	138.07	158.46	154.04	153.70	149.04	147.46	138.53
	2.5186	2.6190	2,7079	2,7264	2,7024	2,7104	2,7051	2.6956	2.6949
	2.0264	1.9778	2,1219	1.8984	1.8704	1.8946	1,8452	1.7692	1.7698
	59.328	65.560	59.354	57.883	57.293	58.254	59.147	61.294	62.159
	6.7409	6.5243	6,9131	6.5457	6.4477	6.4700	6,2925	6.0810	6.0725
	141.20	144.27	157.53	149.29	147.08	147.90	143.93	138.71	139.09
21 Singapore/dollar . 22 South Africa/rand. 23 South Korea/won . 24 Spain/peseta . 25 Sri Lanka/rupee . 26 Sweden/krona . 27 Switzerland/franc . 28 Taiwan/dollar . 29 Thailand/baht . 30 United Kingdom/pound ² .	2.1059	2.0133	1.9511	1.8783	1.8589	1.8471	1.8193	1.7905	1.7675
	2.0385	2.2770	2.6214	2.6552	2.6468	2.6592	2.6253	2.5734	2.5718
	825.94	734.52	674.29	708.76	711.85	718.07	718.75	718.26	718.18
	123.54	116.53	118.44	107.00	103.98	103.91	100.41	96.90	98.54
	29.472	31.820	35.947	40.018	40.023	40.018	40.018	40.007	39.947
	6.3469	6.1370	6.4559	6.1160	6.0560	6.0896	5.9470	5.7754	5.7643
	1.4918	1.4643	1.6369	1.4866	1.4198	1.4250	1.3924	1.3076	1.3070
	31.753	28.636	26.407	26.369	26.961	27.391	27.163	27.291	27.302
	25.775	25.312	25.725	26.024	25.928	25.876	25.706	25.579	25.381
	163.98	178.13	163.82	163.72	167.74	171.03	180.98	190.13	188.13
MEMO 31 United States/dollar ³	96.94	92.72	98.60	93.51	92.04	92.43	89.68	86.55	86.10

Averages of certified noon buying rates in New York for cable transfers.
 Data in this table also appear in the Board's G.5 (405) release. For address, see inside front cover.

 Value in U.S. cents.
 Index of weighted-average exchange value of U.S. dollar against the

currencies of 10 industrial countries. The weight for each of the 10 countries is the 1972–76 average world trade of that country divided by the average world trade of all 10 countries combined. Series revised as of August 1978 (see Federal Reserve Bulletin, vol. 64, August 1978, p. 700).

Guide to Tabular Presentation, Statistical Releases, and Special Tables

GUIDE TO TABULAR PRESENTATION

Symbols and Abbreviations

c	Corrected	0	Calculated to be zero
e	Estimated	n.a.	Not available
р	Preliminary	n.e.c.	Not elsewhere classified
r	Revised (Notation appears on column heading when	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

Anticipated schedule of release dates for periodic releases	<i>Issue</i> June 1990	Page A88
SPECIAL TABLES—Published Irregularly, with Latest BULLETIN Reference		
Title and Date	Issue	Page
Assets and liabilities of commercial banks March 31, 1989 June 30, 1989 September 30, 1989 December 31, 1989	December 1989 January 1990 February 1990 June 1990	A72 A72 A72 A72
Terms of lending at commercial banks May 1989 August 1989 November 1989 February 1990	March 1990 November 1989 March 1990 September 1990	A73 A73 A79 A73
Assets and liabilities of U.S. branches and agencies of foreign banks June 30, 1989 September 30, 1989 December 31, 1989 March 31, 1990	November 1989 March 1990 August 1990 September 1990	A78 A84 A72 A78
Pro forma balance sheet and income statements for priced service operations June 30, 1989 September 30, 1989 March 31, 1990 June 30, 1990	February 1990 March 1990 September 1990 October 1990	A78 A88 A82 A72

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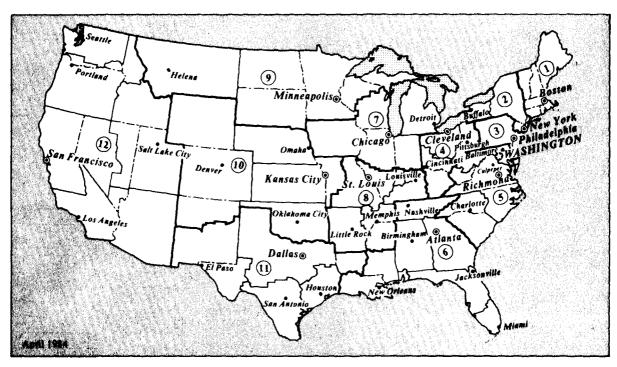
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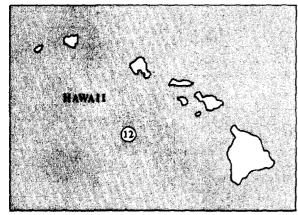
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