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

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### **Table of Contents**

### 227 THE ESTABLISHMENT AND EVOLUTION OF THE FEDERAL RESERVE BOARD: 1913–23

In the first decade after the passage of the Federal Reserve Act, the Board evolved under the pressure of circumstances in ways not foreseen by the framers of the act.

### 244 UNDERSTANDING THE BEHAVIOR OF M2 AND V2

This article examines the properties of the M2 aggregate and of its velocity, V2, the ratio of gross national product to M2—particularly over the one- to two-year intervals that are associated with monetary targeting and over which V2 has fluctuated by substantial amounts.

### 255 TRANSFER RISK IN U.S. BANKS

The expansion of international lending has made an analysis of country risk an essential element in the overall evaluation of the financial condition of the largest U.S. banks.

### 259 TREASURY AND FEDERAL RESERVE FOREIGN EXCHANGE OPERATIONS

The dollar, which had moved lower in November, found support at the end of November and recovered through most of December and January to return to levels that had prevailed in the autumn.

### **263 STAFF STUDIES**

In "M2 per Unit of Potential GNP as an Anchor for the Price Level," the authors develop a measure for a long-run equilibrium price level that is proportional to the stock of M2 per unit of potential GNP. Deviations of the actual price level from the

equilibrium price level provide a good forecast of changes in the inflation rate over periods of one year or more.

### 265 INDUSTRIAL PRODUCTION

Industrial production increased an estimated 0.3 percent in January.

### **267 STATEMENTS TO CONGRESS**

Alan Greenspan, Chairman, Board of Governors, discusses corporate restructuring and the need for reducing the federal budget deficit, and says that it would be unwise to restrict arbitrarily corporate restructuring and that the budget deficit must be brought down, before the House Committee on Ways and Means, February 2, 1989.

- 272 Chairman Greenspan discusses recent monetary policy and plans for the future within the framework of the Board's Monetary Policy Report to the Congress, before the Senate Committee on Banking, Housing, and Urban Affairs, February 21, 1989. [Chairman Greenspan presented identical testimony before the House Committee on Banking, Finance and Urban Affairs, February 22, 1989.]
- 278 Chairman Greenspan outlines the views of the Board on the legislation for the reform and recovery of the thrift industry and says that the Board supports this comprehensive package of proposals to strengthen the thrift industry and depository institutions in general, before the Senate Committee on Banking, Housing, and Urban Affairs, February 23, 1989.
- 282 Chairman Greenspan reviews briefly where the economy has been over the past year and where it appears to be going to bring into focus the challenges that face monetary

and fiscal policymakers, before the Senate Committee on the Budget, February 28, 1989. [Chairman Greenspan presented identical testimony before the House Committee on the Budget, March 2, 1989.]

### **287 ANNOUNCEMENTS**

Change in the discount rate.

Expression of support for the reform and recovery program for the thrift industry announced by President Bush.

Amendment to Regulation H (Membership of State Banking Institutions in the Federal Reserve System).

Interpretation to Regulation H.

Comment requested on a series of revised proposals regarding the finality accorded ACH credit and debit transactions processed by Federal Reserve Banks.

Changes in Board staff.

Availability of some Federal Reserve statistical releases through the computerized bulletin board of the Department of Commerce.

Change in the database used in compiling the statistical appendix to the BULLETIN.

## 290 RECORD OF POLICY ACTIONS OF THE FEDERAL OPEN MARKET COMMITTEE

At its meeting on December 13-14, 1988, the Committee approved a directive that called for some immediate firming of reserve conditions, with some further tightening to be implemented at the start of 1989, assuming that economic and financial conditions remained reasonably consistent with current expectations. In keeping with the Committee's usual approach to policy, the conduct of open market operations would be subject to further adjustment during the intermeeting period based on indications of inflationary pressures, the strength of the business expansion, the behavior of the

monetary aggregates, and developments in foreign exchange and domestic financial markets. Depending on such developments, some added reserve restraint would be acceptable, or some slight lessening of reserve pressure might be acceptable. The reserve conditions contemplated at this meeting were expected to be consistent with growth of M2 and M3 at annual rates of around 3 percent and 6½ percent respectively over the four-month period from November 1988 to March 1989. The intermeeting range for the federal funds rate was raised by 1 percentage point to 7 to 11 percent.

### 297 LEGAL DEVELOPMENTS

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

### A1 FINANCIAL AND BUSINESS STATISTICS

These tables reflect data available as of February 24, 1989.

- A3 Domestic Financial Statistics
- A46 Domestic Nonfinancial Statistics
- A55 International Statistics
- A71 GUIDE TO TABULAR PRESENTATION, STATISTICAL RELEASES, AND SPECIAL TABLES
- A76 BOARD OF GOVERNORS AND STAFF
- A78 FEDERAL OPEN MARKET COMMITTEE AND STAFF; ADVISORY COUNCILS
- A80 FEDERAL RESERVE BOARD PUBLICATIONS
- A83 INDEX TO STATISTICAL TABLES
- A85 FEDERAL RESERVE BANKS, BRANCHES, AND OFFICES
- A86 MAP OF FEDERAL RESERVE SYSTEM

# The Establishment and Evolution of the Federal Reserve Board: 1913–23

Sayre Ellen Dykes, of the Division of Research and Statistics at the Board of Governors, and Michael A. Whitehouse, of the Board's Office of the Secretary, prepared this article.

When, on December 23, 1913, Woodrow Wilson signed the act establishing the Federal Reserve System, he felt grateful, he said, for having had a part in "completing a work . . . of lasting benefit to the business of the country." The nation had been without an organization performing central banking functions since the charter of the Second Bank of the United States had expired in 1836. Financial stresses caused by the Civil War and a series of devastating liquidity crises and bank failures, especially the Panic of 1907, had focused public awareness on the need for banking and monetary reform. The Congress passed the Aldrich-Vreeland Act of 1908, which provided for the issuance of currency in an emergency. The act also created the bipartisan National Monetary Commission, headed by Senator Nelson Aldrich, to study banking and currency reform and to develop some recommendations. After making a detailed study of banking in Europe and North America, the commission in 1912 published its findings in 38 massive volumes. Aldrich formalized the commission's recommendations in a bill, generally known as the Aldrich Plan, calling for one central bank and 15 branches.

Although members of the Congress agreed on the need for reform and on its general goals, they differed strongly on its shape. The Aldrich Plan stirred up a deep-seated distrust of the centralization of power and of the banking establishment. Alternative plans, which attempted different balances between public and private interests and between central and regional control, were proposed. The members finally overcame their partisan differences and adopted the

plan forged by President Wilson, Congressman Carter Glass, and Senator Robert Owen, which became the Federal Reserve Act—an act "to furnish an elastic currency, to afford means of rediscounting commercial paper, to establish a more effective supervision of banking in the United States, and for other purposes."

While the process of investigation, discussion, and compromise leading to the act had ended with President Wilson's signature, another long process was beginning: that of organizing and establishing in practice the central banking system of the United States and of developing new policies and tools to meet the changing needs and circumstances of the economy. At the time of the signing, Paul Warburg, one of the members of the first Board, said prophetically that "the Federal Reserve Act as passed should not be considered as a finality, and . . . actual experience in its operation would prove the need of important modifications or amplifications."

The process of modifying and amplifying the act over the next 10 years was far from smooth. H. Parker Willis, the first Secretary of the Board, in a rhetorical flourish implied that it could even be considered a war: "[The struggle that produced the Federal Reserve Act] is not merely a chapter in financial history; it is also an account of the first battle in a campaign for safe and scientific banking that has only just opened." Willis's metaphor was apt. During its first decade, the System struggled to gain acceptance while facing the stresses caused by World War I and its aftermath.

<sup>1.</sup> Paul M. Warburg, The Federal Reserve System: Its Origin and Growth, vol. 1 (Macmillan, 1930), p. 141.

<sup>2.</sup> Henry Parker Willis, The Federal Reserve System: Legislation, Organization and Operation (Ronald Press, 1923), pp. 20-21.

The System was to consist of the Federal Reserve Board in Washington; Federal Reserve Banks, each in its own district and known by the name of the city in which it was located; and member banks, that is, all national banks and those state-chartered banks willing and qualified to join. Initially, all the parts of the interdependent System struggled for acceptance. While separating those parts is often difficult, this article focuses on the struggles of the Board, which was to be, according to President Wilson, the "capstone" of the new Federal Reserve System. During its formative years, the Board had its own problems of establishing its authority, of recognizing the possibilities of its tools, and of developing its role as a policymaker. By the end of 1923, 10 years after the passage of the act, the Board was beginning to resemble the influential policymaking body it is today.

### PROVISIONS OF THE FEDERAL RESERVE ACT

The Federal Reserve Board was established by Section 10 of the Federal Reserve Act. This section carefully spelled out the organizational aspects of the Board, which was to consist of "seven members, including the Secretary of the Treasury and the Comptroller of the Currency, who shall be members ex officio [that is, by virtue of their offices], and five members appointed by the President of the United States, by and with the advice and consent of the Senate."

Making the members presidential appointees was an attempt by the framers of the act, and of President Wilson in particular, to keep the System under a centralized public authority so as to balance the power of private "money interests." The earlier Warburg and Glass plans, while giving the government some voice, had given the banks that were members of the system (by subscription to stock in the regional banks) representation on the Board; and the Aldrich plan had even given the banks essential control (for a comparison of the features of the various proposals, see the box on pages 230 and 231.). But President Wilson, believing that interested, private parties should not sit on a board of control, stated:

[T]he power to direct this system of credits is put into the hands of a public board of disinterested officers of the Government itself who can make no money out of anything they do in connection with it. No group of bankers anywhere can get control; no one part of the country can concentrate the advantages and conveniences of the system upon itself for its own selfish advantage.3

Through presidential appointment of the members of the Board, the framers of the act hoped to avoid a system that had even the appearance of a monopolistic institution likely to fall victim to partisan politics as had the First and Second Banks of the United States.

Section 10 further stipulated that no more than one of the five appointive members was to be selected from any one Federal Reserve District and that the President should have "due regard to a fair representation of the different commercial, industrial and geographical divisions of the country." At least two Board members were to be "persons experienced in banking or finance."

These provisions for membership of the Board were intended to limit the degree to which the Board was subject to partisan pressures and to help ensure that it would not be dominated by any one interest group or region. In particular, a majority of the framers wanted to avoid giving substantial control to New York financial interests. The requirement that two members be knowledgeable in banking and finance was intended to ensure that the System would be governed by sound and "scientific" principles in addressing the commercial and financial needs of the nation.

While the President was to select the members of the Board and to designate one as Governor and another as Vice Governor, no direct line of communication was set up between the Board and the President. The salaries and operating expenses of the Board were to be paid from the earnings of the Reserve Banks rather than from congressional appropriations, but the Board was to make a full report of System operations to the Congress annually.

<sup>3.</sup> Letter, Woodrow Wilson, to Oscar Wilder Underwood, October 17, 1914, in Arthur S. Link (ed.), The Papers of Woodrow Wilson, vol. 31 (Princeton University Press, 1979), p. 172.

These arrangements were intended to help insulate the Board from pressures from the executive and the legislative branches.

In a further attempt to insulate the Board from partisan politics, Section 10 provided for 10-year terms for Board members. These terms were longer than those of any other executive appointees except for those of the federal judiciary, which were lifetime appointments, and that of the Comptroller General, which was for 15 years. The first appointed members were to serve varied terms of 2, 4, 6, 8, and 10 years, so that future appointments would be staggered and any future President would be unlikely to appoint a majority of the Board.

### Powers and Duties of the Board

While the organizational aspects appeared in one section, the powers and duties of the Board were spread throughout the act. Section 11 gave the Board the functions of examining the "accounts, books, and affairs" of the Reserve Banks and of the member banks; of permitting or requiring a Reserve Bank to rediscount the discounted paper of other Reserve Banks and to fix the rate for such rediscounting;4 of regulating the amount of gold reserves held against Federal Reserve notes; of supervising and regulating the issue and retirement of these notes; of changing the number and designation of Federal Reserve cities; and of carrying out various supervisory and regulatory functions concerning the Reserve Banks. But other powers and duties of the Board appeared in sections dealing with additional organizational and functional elements of the System. For example, the Board's power to designate three of the nine directors of each Reserve Bank appeared in Section 4; its duty to determine or define the character of the paper eligible for discounting fell under Section 13; and its power regarding rates of discount fell under Section 14, "Open-Market Operations."

Besides being spread throughout the act, the Board's functions were in some cases presented vaguely and indirectly, almost as an afterthought. For example, each Reserve Bank's

power to establish rates of discount was "subject to review and determination of the Federal Reserve Board." What "determination" meant was not clear, and so the line between the Reserve Banks' power and the Board's power in fixing discount rates was left ill-defined. In other instances, provisions in one part of the act seemed to contradict or overlap provisions in other parts. Thus, Section 11(a) authorized the Board to "examine at its discretion the accounts, books, and affairs of each Federal Reserve bank and of each member bank," and Section 21 empowered the Comptroller of the Currency to "appoint examiners who shall examine every member bank at least twice in each calendar year and oftener if considered necessary" and later referred to the examinations "made and conducted" by the Comptroller of the Currency.

There were two reasons for such lack of precision. First, the act was a political compromise between different conceptions of what the Federal Reserve System as a whole, and the Board as part of that System, was to do and was not to do and what kind of checks and balances were needed. Having a public body oversee a system of privately owned commercial banks raised questions not only about lines of authority but also about what the Board's function was and how the Board was to fulfill it. The attempt to satisfy different interests led at times to vagueness and even to contradiction. Second, the type of system that was set up by the act was new and untried. Thus, even some provisions that were less vague, such as the number and the qualifications of persons to be on the Board and the ability of the Board to alter Reserve Districts and cities, were later reinterpreted and amended as circumstances required.

### Some Unsettled Issues

The issues regarding the Board that the act left unsettled can be grouped into three categories: (1) the Board's relation to the government, primarily the Department of the Treasury; (2) the Board's relation to the rest of the Federal Reserve System; and (3) the Board's specific role or mission within those frameworks. During the first decade of the Board's existence, the need for its independence from the Treasury became

<sup>4.</sup> The term "rediscount" is no longer in use.

### Major twentieth-century plans for a governing body for the central banking system

Plan, bill, or act		Governing body					
Name	Date	Name	Number of members	Term of office (years)	Composition	Function	
Warburg Plan	November 1907; revised April 1908	Board of Managers	42	1, or until their successors qualify	Secretary of Treasury; Comptroller of the Currency; U.S. Treasurer; 6 members of Congress; 20 chairmen of branches; 12 others voted by stockholding member banks; a salaried board governor	Issue notes based on commercial bills and gold; fix the discount rate and rediscount short-term commercial paper; maintain certral cash reserve; establish branches; manage and supervis activities of 20 regional bank associations	
Fowler Plan	February 1908	Court of Finance	17	Serve until age 72, unless majority of Court ex- tends appoint- ment	6 members from Atlantic coast; 6 from Mississippi region; 4 from Pacific coast; all experi- enced in business and bank- ing; one at-large appointee to preside over court; all appointed by the President	Issue notes based on secured ban assets; consider appeals from member banks not satisfied wit rulings from regional associa- tions; manage central gold re- serve	
Aldrich Plan	January 1911	Reserve Association Board	45	3	Secretaries of Treasury, Commerce, Labor, and Agriculture; Comptroller of the Currency; 14 members elected by boards of branches; 12 representing stockholding interests; 12 representing agriculture, commerce, and industry; governor and deputy governor	Act as fiscal agent for government determine discount rate for short-term commercial paper, bills of exchange, and so on; engage in open market purchases	
Owen Bill	May 1913	Board of Governors of the National Currency	7	Serve at the pleasure of the President	Secretaries of Treasury and Agriculture; Comptroller of the Currency; 4 governors appointed by President: 1 knowledgeable in commerce, 1 in manufacturing, 1 in transportation, and 1 in banking and credit	Exercise general supervision over reserve banks and examine accounts of national and reserve banks; act as fiscal ager for government; adjust boundaries and districts of reserve banks if necessary; supervise issuance of national currency; suspend for no more than 30 days reserve requirements specified in bill; approve reserve bank accounts in foreign countries; oversee foreign exchange operations	

Glass Bill	June 1913	Federal Reserve Board	7	8	Secretaries of Treasury and Agriculture; Comptroller of the Currency; 4 board members appointed by the President, at least 1 experienced in banking	Examine accounts of reserve banks; require or permit reserve banks to discount paper of any other reserve bank; establish mandatory weekly discount rates upon each class of paper; suspend for no more than 30 days reserve requirements specified in bill; supervise and regulate the issuance of notes to reserve banks; prescribe rules for reserve banks to engage in open market operations
Vanderlip Plan	November 1913	Governing Board	7	14; staggered expiration	7 members appointed by the President; nonpartisan, government board	Approve rediscounting; oversee clearinghouse operations; issue bank notes
Federal Reserve Act (Glass- Owen Bill)	December 1913	Federal Reserve Board	7	10	Secretary of Treasury; Comptroller of the Currency; 5 members appointed by the President with due regard to commercial, industrial, and geographical representation, with at least 2 members experienced in banking and finance	Supervise and regulate the issuance and retirement of Federal Reserve notes; reclassify Reserve Districts and add Reserve Banks if appropriate; supervise the activities and audit accounts of Reserve Banks; select 3 directors, including chairman, of each Reserve Bank board; require or permit Reserve Banks to rediscount paper of other Reserve Banks; approve discount rates set by Reserve Banks; issue regulations regarding Reserve Bank open market operations
Federal Reserve Act amended	June 1922	Federal Reserve Board	8	10	Secretary of Treasury; Comptroller of the Currency; 6 appointive members; added agricultural representative and eliminated requirement for 2 members to be experienced in banking or finance	Same as above
Federal Reserve Act amended (Banking Act of 1935)	August 1935	Board of Governors of the Federal Reserve System	7	14	7 members appointed by the President, representing financial, agricultural, industrial, and commercial interests, and geographical divisions of the country; removed Secretary of Treasury and Comptroller of the Currency from Board	Exercise authority over national monetary and credit policies and, as part of the Federal Open Market Committee, help set open market policy

clearer; its struggle for power with the regional Reserve Banks, particularly the New York Bank, intensified; and its sense of its own mission and how to carry it out strengthened and solidified.

The Board's Relation to the Treasury. Because the Board was a public body charged with overseeing the nation's financial institutions, those who drafted the act believed that the Board clearly had to have a close relation with the Treasury. That close relation, however, raised the issue of the System's independence from the Treasury, which soon became manifest in three conflicts involving the Board: (1) about the respective responsibilities of the Treasury officials who sat on the Board and of the members appointed by the President; (2) about the Board's financial accountability; and (3) about the division of powers between the Treasury and the Board.

The Secretary of the Treasury and the Comptroller of the Currency (a Treasury Department official) sat on the Board and voted as part of the duties of their respective offices. Thus, the Treasury had a substantial influence on the decisions of the Board. The Secretary of the Treasury was designated by the act as the Chairman of the Board, but the responsibilities of this position were not spelled out. The appointed member designated by the President as Governor was the "active executive officer," but his duties, too, were left unclear. Later, Secretary of the Treasury William McAdoo interpreted "active executive officer" to mean "manager and administrator." But the heavy influence of the Treasury and the lack of a clear definition of roles put some strain on the relations among the Board mem-

The act gave the Board the power to levy an assessment on the Reserve Banks to pay its expenses, including the salaries of members and staff, and thus made the Board independent of the congressional appropriations process, though it required the Board to make a yearly report to the Congress. The Treasury, however, claimed the right to audit the Board's books as the Board's funds were initially construed to be public moneys. As early as December 19, 1914, the U.S. Attorney General ruled on this issue, saying that while the moneys the Board had were public and thus were subject to audit by an agent of the Treasury, the Board was an independent board or government body separate from the Treasury. Despite the ruling, the debate continued for a long time. (The issue of financial independence was settled with the Banking Act of 1933, which stated that the Board's funds were not to be construed as public moneys. But the lingering issue of accountability was not settled until the Federal Banking Agency Audit Act of 1978, which authorized the General Accounting Office to audit the Board.)

The division of powers between the Board and the Treasury also was cloudy. Some of the functions that the act gave to the Board overlapped those of the Treasury, as in the examination of member banks. Also, the Comptroller of the Currency chartered national banks, all of which were required to be members of the System, so the question arose as to who had regulatory power over them. (This confusion over supervisory and regulatory jurisdiction has been settled over the years through informal agreements among the System, the Comptroller, and the Federal Deposit Insurance Corporation. Generally, the System has authority over state member banks and bank holding companies; the Comptroller has authority over nationally chartered banks; and the FDIC oversees state nonmember banks.)

The issue of the Board's, and the System's, independence from the Treasury caused conflicts between the two agencies and among the Board members themselves. (It was defused in part by the Banking Act of 1935, which removed the Secretary of the Treasury and the Comptroller of the Currency from the Board and placed responsibility for monetary policy solely in the hands of the Board and the newly established Federal Open Market Committee.)

The Board's Relation to the Reserve Banks. As established by the act, the Board had an ambiguous position vis-à-vis the Reserve Banks. The Board was a central public body having supervisory and regulatory powers over private commercial banks that were members of the System. To help ensure that commercial bankers' concerns would be heard, the act established the Federal Advisory Council, consisting of one representative from each Reserve District elected by the member banks of that District, who acted as the banks' representatives to the Board. The council was, however, empowered only to receive and provide information and to make recommendations. The Board had its representative at each of the Reserve Banks: one of the three Class C directors it appointed was designated the Federal Reserve Agent. The delineation of powers between the Agent and the Governor (now called the President) of the Reserve Bank was at first unclear. By the end of the first decade, however, the Governors had emerged as the principal leaders of their respective Reserve Banks.

But the Board was more than the government regulatory agency that President Wilson characterized as analogous to the Interstate Commerce Commission. It also had managerial duties and served to direct, coordinate, and guide the System's activities. In his 1914 opinion on the status of the Board, Attorney General T.W. Gregory stated that the Board was "not merely supervisory, but . . . a distinctly administrative board with extensive powers." These powers, however, had to be defined.

According to the act, the Board and the Reserve Banks would exercise jointly the functions of issuing and retiring Federal Reserve notes. But the act assumed that cooperation and coordination between the Board and the Reserve Banks, as well as among the Reserve Banks, would be automatic. One example of the problems arising from this assumption regarded the discount rate, which each Reserve Bank was empowered to set for its own district. Was the rate to be uniform or to vary across the country, and was it to depend on the type of paper that was being discounted? If the rates were to vary geographically, might not money accumulate in one Reserve District while draining away from another, a situation that the act was intended to prevent? Who would then decide when the rate was to change, and what principles were to govern this decision?

Each Reserve Bank could engage in open market operations "at home and abroad" for its own earnings. Who would regulate the competition for funds that might arise among the Reserve Banks? How would the others fare against the New York Bank, the one that was the largest and most influential and likely to do the most business? How were policies regarding the discount rate and those regarding open market operations, which could work against one another, to be coordinated?

In international operations, who would speak for the System, and what body would take the initiative? After the passage of the act and even before the selection of the first Board, J.P. Morgan, Jr., and other bankers and businessmen told the Reserve Bank Organization Committee, a committee established by the act to designate the Federal Reserve cities and districts, that one Reserve Bank, probably in New York, should be of "commanding importance," especially with a view to its recognition by the central banks of Europe. 6 Secretary of the Treasury William McAdoo and Secretary of Agriculture David Houston, both on the committee, put forward the contrary view that the activities of all 12 Reserve Banks should be coordinated through the Board and that the Board should be the entity to which the foreign authorities looked. In practice, however, the New York Reserve Bank became the principal representative in international affairs during the early years of the System. This situation arose because of the superior knowledge and experience in international finance and the close contacts with foreign bankers of that Bank's governor, Benjamin Strong.

The Board's Mission. Much rhetoric surrounded the establishment of the Board. President Wilson called it the "Supreme Court of Finance," and William McAdoo saw it as a "bulwark against financial disaster." But the rhetoric did not fit the reality of the Board's job as outlined in the act.

<sup>5.</sup> Milton Friedman and Anna J. Schwartz, A Monetary History of the United States, 1867-1960 (Princeton University Press, 1963), p. 190.

<sup>6. &</sup>quot;Commanding Bank Most Needed Here," New York Times, January 7, 1914.

<sup>7. &</sup>quot;New Reserve Board Sworn into Office," New York Times, August 11, 1914.

The Board's role and its means for filling it were not well defined because the framers of the act were concerned about limiting the Board's powers and because the System's role in the economy and the tools of monetary control had not been tested and thus were not well understood. Was the Board to be the partly automatic regulator of an organization that was generally passive except when an emergency required it to accommodate commerce and business? Or was the Board to be the central policymaker in a System that actively participated in regulating the economy through managing the availability of money and credit? The discussion in the Congress just before the passage of the act was indicative of the concerns that the legislators had about the powers of an activist central bank. Said Congressman Rufus Hardy of Texas: "A central bank, so much desired by Wall Street . . . [would have powers for evil which the Board does not have.... The Board could not loan, earn, own, or borrow one dollar. It could not finance an enterprise. It could not finance a candidate or a campaign."8 What the Board could or should do was not so clear.

In its First Annual Report, published less than six months after it was sworn in, the Board rejected a passive role for the Reserve Banks and, by extension, for itself: The System's "duty" was "not to await emergencies but, by anticipation, to do what it can to prevent them." But because the Board was unsure of its mandate for setting policy as well as of the tools at its disposal and also because it immediately faced an extraordinary situation—World War I—it could not act according to this principle.

The muddiness in the division of powers between the Board and the Reserve Banks and between the Board and the Treasury, as well as in the conception of the Board's mission, led to floundering and conflict in the early years of the System. How powers were to be divided and duties performed had to be worked out by trial and error in an ever-changing economic milieu. In its first 10 years, the Board began to establish itself within the System and in relation to the

8. Congressional Record, September 13, 1913, p. 4865.

Treasury Department and to learn what tools it had and how to use them in setting and carrying out policy. Under pressure of circumstances, the Board, and the rest of the System, evolved in ways not foreseen by the framers of the act.

### THE FIRST BOARD

The first Federal Reserve Board was sworn into office on August 10, 1914, after a selection process that was long and difficult for several reasons. First, President Wilson had to wait for the Reserve Bank Organization Committee to select Federal Reserve cities and draw District lines because the act specified that not more than one appointive member could come from any one Reserve District.

Second, Wilson was aware of a widespread belief that the success of the Reserve System depended on his selections. Like the First and Second Banks of the United States, the Reserve Banks had been assigned a 20-year charter, and Wilson wanted the System to last. (In the Mc-Fadden Act of 1927, the Congress showed its agreement with Wilson's position by extending the Reserve Banks' charter indefinitely.) While the composition of the Board had been addressed in the act, demands persisted from various quarters that Board members have certain credentials. Some interests, for example, urged that a member of a labor union, a farmer, and a former U.S. President be placed on the Board. Wilson had to consider these requests and weigh their importance.

Third, the confirmation process took time. Two of Wilson's original choices—Richard Olney, a lawyer from Boston and a former Secretary of State, and Harry A. Wheeler, a Chicago businessman and a former president of the U.S. Chamber of Commerce—declined their appointments. A third choice, David D. Jones, a Chicagoan who was a close friend of the President, encountered strong opposition because he had been a director of International Harvester, a trust that in 1914 was under indictment for illegal restraint of trade. Jones was ultimately rejected by the Senate. A fourth choice, Paul M. Warburg, a partner in the Wall Street investment firm of Kuhn, Loeb & Company, met with suspicion

<sup>9.</sup> Board of Governors of the Federal Reserve System, First Annual Report, 1914 (1915), p. 17.

because of his ties to the New York "money interests" and because of his backing of the Aldrich Plan and his original opposition to the Federal Reserve Act. After testifying before the Senate Banking Committee, Warburg, who had protested at being the only nominee besides Jones requested to appear, was finally confirmed.

Besides Warburg, the appointive members of the first Board were Frederic A. Delano, president of the Monon Railway, from Chicago; Charles S. Hamlin, a lawyer from Boston and a former Assistant Secretary of the Treasury; William P.G. Harding, president of the First National Bank of Birmingham, Alabama; and Adolph C. Miller, a noted economist and former professor at the University of California, who was at that time an Assistant Secretary of the Department of the Interior. President Wilson designated Hamlin as Governor and Delano as Vice Governor. These appointments, particularly those of Warburg and Harding, who were exceedingly knowledgeable about banking, were welcome to the business and banking communities. The Commercial and Financial Chronicle noted at the time that "the sentiment of the financial community as a whole on learning of the president's nominations for the Federal Reserve Board has been one of profound relief."10

Once appointed, the Board members were not directly responsible to the President, who had no formal channel of communication to the Board and no legal power over Board policies. 11 But in practice, the presence of the Secretary of the Treasury and the Comptroller of the Currency on the Board gave the Executive Branch considerable weight; and the differing interests were expressed in quite a bit of friction between the "Treasury" faction, which included Hamlin as well as the ex officio members, and the "non-Treasury" faction, which included Delano, Warburg, and Miller. In 1916, when Hamlin was reappointed to the Board for a 10-year term, some members of the Board objected to his continuing as Governor because his close connection to the Treasury threatened the Board's

11. Donald F. Kettl, Leadership at the Fed (Yale University Press, 1986), p. 4.

independence and because they wanted a rotation of the governorship. So President Wilson appointed Harding as Governor and Warburg as Vice Governor.

### EARLY TASKS AND ISSUES: 1914–17

The first task of the Board was to complete the establishment of the System begun by the Reserve Bank Organization Committee. The Board had a great deal of work to do before November 16, 1914, the date Secretary of the Treasury McAdoo had set for the opening of the Reserve Banks. The Board members selected three Class C directors for each of the 12 Reserve Banks (the Class A and Class B directors were elected by the member banks in each Reserve District); drafted uniform bylaws for the Reserve Banks; dealt with staffing and housing the Reserve Banks; oversaw the design and printing of the new Federal Reserve notes; supervised the transfer of gold reserves to the Reserve Banks from the subtreasuries; set guidelines for the types of paper that were eligible for discounting by the Reserve Banks; and worked out a mechanism for discounting.

On October 20, 1914, soon after announcing the appointment of the Class C directors, the Board called a meeting in Washington of the directors and other officers of the Reserve Banks to deal with practical items that required uniformity and cooperation among the Reserve Banks, such as a check-clearing and -collection system and a method of accounting. Some of the executive officers (or "Governors," as they then were called), especially Benjamin Strong of the New York Bank and Alfred L. Aiken of the Boston Bank, recognized the need to continue such meetings and helped to establish a conference of Governors that met several times a year to discuss common concerns and objectives. The "Governors Conference" began to take on a life of its own, to issue resolutions on System policies, and to criticize rulings and orders from the Board. In January 1916, the Board decided to check the authority of the Governors Conference by refusing to approve its expenses for a secretary and for travel not undertaken at the behest

<sup>10.</sup> In Gerald T. Dunne, "The Federal Reserve: The First Foundations," Business Horizons (Winter 1966), p. 56.

of the Board. The Board also insisted that any meetings of the group take place in Washington at a time designated by the Board. Some Governors complained that the Board was exceeding its mandated authority; but the Board prevailed and, through this early internal contest, began to define and exert its authority within the System.

Some of the tasks of setting up the System, complex in themselves, were made even more difficult because of opposition from various quarters. The establishment of a universal par checkclearance system, for example, was opposed by many member banks, particularly those in small towns, that did not want their "exchange charges," or processing fees, abolished since these were a means of earning income. (This issue actually went into litigation, and the case was not settled until a 1923 Supreme Court decision affirmed the right of a Reserve Bank to collect checks within its District for other Reserve Banks, for member banks, and for affiliated nonmember banks without paying an exchange charge.)

In a further effort to strengthen the System and to unify U.S. banking, the Board issued regulations fixing the conditions under which state banks could join the System (under the terms of the act, national banks were required to become members within a year or forfeit their federal charters). But the state banks, finding those conditions less satisfactory than the ones under which they currently operated, did not rush to join.

At the same time, the Board was developing its own staff and operations. To support its work, the Board hired a staff of 45 from 1,250 applicants, dealing with considerable pressure from various sources for particular appointments; established three divisions—the Correspondence Division, the Division of Reports and Statistics, and the Division of Audit and Examination-and a legal department under the charge of a general counsel; and appointed two administrative officers, the secretary (H. Parker Willis) and the assistant secretary (Sherman P. Allen). In accordance with the act, Treasury Secretary McAdoo provided office space in the Treasury Building for the Board and its staff. This arrangement was disturbing to some of the Board members, who suggested moving the Board's operations to

Chicago to mitigate what seemed at times to be overwhelming Treasury influence.

In May 1915, the Board created the FEDERAL RESERVE BULLETIN as a monthly publication to "afford a general statement concerning business conditions and events in the Federal reserve system that will be of interest to all member banks." The provision of statistical and other information on a consistent basis for all Reserve Districts was another move toward coordination and unity.

Soon after the Board took office, it was asked to review the decisions of the Reserve Bank Organization Committee regarding the designation of Federal Reserve cities and the drawing of District lines. Pittsburgh and Baltimore had requested designation as Federal Reserve cities in place of Cleveland and Richmond respectively. Some areas, such as Fairfield County, Connecticut, had applied to be transferred from one Reserve District to another. A few members of the Board believed that the System would be more efficient with fewer Districts. Since the capital of some of the Reserve Banks was close to the statutory minimum of \$4 million and since transferring territory among Districts could in some cases reduce capital below the limit, the Attorney General was asked for an opinion about the Board's power to readjust the Reserve Districts. On November 22, 1915, the Attorney General said that the Board could not reduce the number of Reserve Districts or Reserve Banks below 12, and on April 14, 1916, he indicated that the Board could not change the location of any Reserve Bank but that it could adjust the boundary lines of the Districts.

### Policy Questions

According to the act, one of the main functions of the System was to "furnish an elastic currency," that is, a currency that would respond to the regional, seasonal, and cyclical needs of the U.S. economy as well as its emergency needs. The discounting of "eligible" paper would be the primary policy tool with which to achieve this elasticity. Each Reserve Bank was to set its own discount rate, subject to "review and determination" by the Board. The act assumed the coordination of discount policy to be automatic,

relying on the gold standard and the "real bills" doctrine. That doctrine held that if credit were issued only on the basis of short-term, selfliquidating paper associated with goods in commercial transactions, money and credit would expand and contract with the volume of goods produced. However, the Board quickly saw the necessity for developing a Systemwide discount policy so that all the Reserve Bank discount rates, even if differing among the Districts, would at least bear a consistent relation to one another. In an effort to standardize Reserve Bank practices, the Board defined the different classes of paper that were eligible for discount and decided on a schedule of graduated rates based on the maturity and character of the paper discounted.

Carrying out such tasks and deciding on such sensitive issues would have been difficult enough in peacetime; but even as the Board was being sworn in and the System was being organized, war erupted in Europe. In the time of uncertainty as to whether the United States would enter the war, the Board adhered to a policy of strengthening the System for preparedness in case of the declaration of war. It attempted to maintain the liquid character of the Reserve Banks' assets, to concentrate and conserve the gold supply within the System, and to discourage excessive expansion of credit. In May 1915, the Board established the Gold Settlement Fund, with each Reserve Bank depositing with the Treasury \$1 million in gold or gold certificates. With the Board acting as a clearinghouse, the fund eliminated the need for shipments of gold in adjusting balances among Reserve Banks. In September 1916, the Federal Reserve Act was amended to permit member banks to carry all required reserves as balances with the Reserve Banks. In June 1917, the act was amended again in accordance with Board recommendations to make membership in the System more attractive to state banks and trust companies, to modify reserve requirements to increase the gold holdings of the Reserve Banks, and to make gold more available as a basis for elastic note issue. Also, the Reserve Banks began to issue Federal Reserve notes against not only gold but a combination of gold and commercial paper. Whereas earlier the centralization of the gold supply had been seen as a way of discouraging excessive expansion of money and credit, now it was seen as a way of encouraging needed expansion. As a result of these changes, the Federal Reserve note was becoming, rather than an occasional emergency currency, the most important constituent of the U.S. "circulating medium."

### **Emergency Measures**

While the declaration of war in Europe in the summer of 1914 served to moderate opposition to the System, it diverted attention from longerterm issues to emergency measures. Although the United States was not yet directly involved in the war, the country's economic and financial systems were from the first affected by the European conflict. Fortunately, the Congress had extended the Aldrich-Vreeland Act of 1908 until June 30, 1915, which helped to prevent a panic by providing for the issuance of notes through national currency associations. This extension enabled the Board to respond to other emergency conditions caused by the war.

At first, the war curtailed ocean transportation and disrupted international trade, creating strains in commodities markets and hardships for U.S. farmers, particularly those growing cotton. The cotton crop in 1914 had been the largest on record, and the collapse of the cotton export market (which took about 60 percent of the cotton farmers' output) and the closing of the cotton exchanges in the United States and England brought pressures from the Congress on the Board to help support the price of cotton and to provide credit assistance to cotton farmers. In January 1915, the Board approved a plan for a Cotton Loan Fund subscribed to by commercial banks to supply long-term loans to farmers.

When hostilities started in Europe, the United States was a debtor nation. Its outstanding obligations to Europe, primarily to England, were large, and a substantial volume of securities payable in Europe were about to mature. To prevent a drain of gold that could endanger the U.S. banking system and to facilitate gold payments between countries, the Board and the Treasury helped set up in September 1914 a \$100 million Gold Exchange Fund from which international payments could be made. Although only a small portion of the fund was used before it was

terminated in March 1915, the existence of the fund did help to prevent panic, restore confidence in the economy, and provide an interim solution to the gold exchange problem until the Reserve Banks were fully operational.

As the war in Europe continued, the financial and monetary situation of the United States changed. Many financial centers in Europe experienced difficulties, and several stock exchanges closed. London gave way to New York as the major world credit market, and large foreign credits were negotiated in the United States. Exports, particularly those of war-related goods, increased dramatically, and gold poured into the country. From August 1914 to April 1917, the gold stock of the United States almost doubled, to \$2.85 billion.

## THE BOARD DURING WORLD WAR I: 1917–18

When the United States declared war on Germany on April 6, 1917, the Board and the Reserve Banks found themselves involved in new duties and subjected to new pressures. Just before the declaration of war, Secretary of the Treasury McAdoo charged the System, which in 1915 had been made a receiver and distributor of government funds, with a new fiscal-agency function: that of issuing and redeeming shortterm Treasury certificates to prepare for the floating of the \$2 billion Liberty Loan of 1917. The Board objected both to the amount of the borrowing and to the low rate of interest for the first certificates, which were for \$50 million at 2 percent. In response, McAdoo threatened to invoke the Overman Act, which would have allowed him to take over the System's funds to gain immediate control of all U.S. banking reserves in the emergency. The Board withdrew its objections. During the war, the System assisted the Treasury in floating four Liberty Bond issues; by October 1918, \$17 billion in bonds had been floated. Because of this heavy borrowing, the federal government debt expanded from roughly \$1 billion in June 1916 to \$21 billion in December 1918.

### Discount Policy

In its discount policy, the Board faced conflicting objectives: (1) facilitating the war-financing, emergency operations of the Treasury, which meant keeping discount rates low, to allow the financing of the government debt at low rates, and (2) preventing the overexpansion of credit to protect business and commerce, which meant raising interest rates and using "moral suasion" to encourage a "policy of common sense practical economy" (that is, appealing to commercial interests to borrow and the banks to lend only for legitimate business needs and not for speculative purposes). 12 Most often, the Board sought to facilitate the Treasury's financing. Thus, the Board urged the Reserve Banks to establish preferential discount rates on loans to member banks secured by government obligations as compared with discounts of commercial paper. By 1918, the Board looked toward the time when "the war obligations of the Government have been digested, and the invested assets of the Federal Reserve Banks have been restored to a commercial basis, [so that] rates can be established with reference to the commercial requirements of the country."13

### Strengthening the System

During the war, the Board continued its efforts to strengthen the System. After the 1915–16 influx, the movement of gold into the United States virtually ceased as European countries went off the gold standard. The Board attempted to conserve the U.S. gold supply by limiting exports of gold to neutral countries. It also attempted to make membership in the System more attractive to state banks. President Wilson supported these efforts, saying that membership in the System was a "solemn obligation," and many banks took heed. During the System's first year of operation, 17 state banks joined; by June 1919, spurred by appeals to patriotism and concerned about possible war emergencies, 1,042 state banks had joined, bringing the total number of

<sup>12.</sup> Fourth Annual Report, 1917 (1918), p. 9.

<sup>13.</sup> Fifth Annual Report, 1918 (1919), p. 87.

System members, including the 7,780 national banks, to 8,822. Responding to the growing complexity of the economic and financial system, the Board in 1918 added the Division of Analysis and Research to its staff with headquarters in Washington and a working office in New York.

The System as a whole gained strength and prestige because it was able to facilitate the mobilization of funds for the war effort and to help bring the country through the collapse of the European financial and commodity markets. The Board itself, however, felt that it was losing control not only to the Treasury but also to the New York Reserve Bank, which operated under the forceful and able leadership of Benjamin Strong. After the first Liberty Loan, the Treasury began to bypass the Board and to deal directly with the Reserve Banks, particularly the New York Reserve Bank. In 1917, in an effort to define its authority, the Board discontinued the regular meetings of the Federal Reserve Agents and those of the Governors of the Reserve Banks. It also took the stand that "in all vital matters of general policy calling for prompt and decisive action concentration of responsibility without division of authority is indispensable."14 But the Board was still hampered in its attempt to assume leadership by its location in Washington with no immediate access to financial markets, with only a limited research staff, and within too easy reach of the Treasury's influence.

#### AFTERMATH OF WORLD WAR I: 1918-23

As a result of the war, the United States became a creditor nation. At first, domestic production surged with the increases in exports and U.S. government expenditures, both of which remained high for some time after the Armistice was signed on November 11, 1918. With the increase in reserves resulting from the inflow of gold and from the use of Treasury bonds as collateral for advances to member banks, credit expanded. The expansion of credit and a surge in demand for consumer goods, which had been pent up during the war years, contributed to

postwar inflation. During 1919, speculation and consumption increased while production began to drop off and, with the lifting of the gold embargo, gold began to flow out. In its *Annual Report* for 1920, the Board described the postwar economy in strong language: the year was "characterized by an unprecedented orgy of extravagance, a mania for speculation, overextended business in nearly all lines and in every section of the country, and general demoralization of the agencies of production and distribution." <sup>15</sup>

### The Discount Rate and Controversy

As early as December 1918, members of the Board were stressing the connection between low discount rates and excessive expansion of credit and inflation. However, the Board, led by Governor Harding, believed that its duty was to cooperate with the Treasury, which wanted to float a Victory Loan in 1919. In April 1919, the Board discussed at length suggestions by several Reserve Banks to raise the discount rate but decided to keep the rate low to discourage competition with the buying of Victory bonds and to assist the Treasury in keeping the government's interest payments low. It did, however, express concern over the unhealthful tendencies in the process and discussed acting after the close of the Victory Loan campaign. During that campaign, the Board attempted to use moral suasion by issuing warnings to member banks to restrict credit except for essential purposes.

By 1920, the wholesale price index was more than twice its 1914 level, and the Board and the Reserve Banks saw clearly that, despite the Treasury's opposition, something had to be done to contain inflation and speculation. In January, with approval from the Board, the discount rate was raised from 4¾ percent to 6 percent. Member bank borrowing from the Reserve Banks still continued to mount: it went from \$1.8 billion in June 1919 to \$2.5 billion in May 1920. In May, the Board approved another increase—to 7 percent—initiated by the New York Reserve Bank and three other Reserve Banks, which went into effect in June.

<sup>14.</sup> Fourth Annual Report, 1917 (1918), p. 29.

<sup>15.</sup> Seventh Annual Report, 1920 (1921), p. 1.

These increases in the discount rate contributed to a brief but severe recession in business activity and to a collapse in prices in 1920–21. There was a precipitous liquidation of discount credits at the Reserve Banks, accompanied by a large-scale contraction of money in circulation. The agricultural sector was particularly affected: farmers who had incurred large mortgage and capital obligations on the basis of high wartime prices found the carrying costs beyond their means when prices dropped. Farm mortgages at many small banks became uncollectable, and in 1921 more than 500 banks failed.

Although the price collapse was international in scope, the System received much of the blame for the situation. Many of the buyers of the Liberty bonds at low interest rates discovered that bond prices fall when market rates rise and were resentful that the System had imposed capital losses on them so soon after they had bought the bonds. Charges were made in the Congress against the System, the Board, and even Governor Harding personally. Some members of the Congress claimed that the System was acting for its own benefit and not for the economy and that the System had discriminated against certain sectors, especially agriculture. Some asserted that the situation showed the misuse of funds by the Board and that some Board members acted for their own gain. Even Comptroller of the Currency John Skelton Williams, who sat on the Board, charged that the Board and the Reserve Banks had conspired to drive up rates to create deflation for the profit of bankers.

In an effort to resolve the controversy, the Board requested a congressional investigation. The Joint Congressional Commission of Agricultural Inquiry started hearings in August 1921 and submitted a report to the Congress in January 1922. The commission concluded that the Federal Reserve System had erred in not acting sooner to raise interest rates. It also established that the charges of discrimination against agriculture or of personal gain had no basis. Most important for the evolution of the Board and the System, the commission noted that the System was in a difficult position vis-à-vis the Treasury, and it emphasized that the Federal Reserve should answer, not to the Treasury, but to the

Congress. Thus, the commission, as had the Attorney General earlier, underscored the principle of the Board's independence from the Treasury.

### Changes in the Board

After the war, the membership of the Board, which had remained intact for nearly four years, underwent repeated changes. One seat changed four times in five years: Delano had resigned in 1918 to serve in the U.S. Army overseas, and in 1919 Henry A. Moehlenpah filled his place, to be followed in 1920 by David C. Wills, in 1921 by John R. Mitchell, and in 1923 by George R. James. From 1918 to 1921, the Vice Governorship had three occupants—Paul Warburg, Albert Strauss, and Edmund Platt—and the office of Secretary of the Treasury and Chairman of the Board had four—William McAdoo, Carter Glass, David Houston, and Andrew W. Mellon.

In 1922, as a result of the congressional investigation, an amendment to Section 10 of the act provided for an additional member of the Board to represent agricultural interests. In 1923, Milo D. Campbell of Michigan was appointed to that new position. But he died suddenly after having served on the Board only eight days, and Edward H. Cunningham of Iowa replaced him.

Governor Harding's term expired in 1922, and Daniel R. Crissinger, who had been Comptroller of the Currency, was appointed to fill the vacancy in 1923. In that year, too, Henry M. Dawes assumed the office of Comptroller and membership on the Board. By the end of the first decade, only two of the original members—Charles S. Hamlin and Adolph C. Miller, both of whom had been reappointed—were still serving (they served until 1936).

By the end of the war, the Treasury could no longer house the staff of the Board, which now numbered 345. While the Board members, the Secretary, the General Counsel, and the Gold Settlement Division still had offices in the Treasury building, the Division of Reports and Statistics and the Division of Operations and Examinations were in two other Washington locations and the Division of Analysis and Research was in New York. Coordination was at best difficult.

Thus, the Board began planning for its own quarters, which would not be completed until 1937.

### The Board and the Reserve Banks

During the postwar period, power in policymaking began to shift from New York to Washington, a process that continued for some years. In May 1922, the Division of Analysis and Research moved from New York to Washington, and in September of that year Walter W. Stewart replaced H. Parker Willis as director of that division. In 1923, the division was combined with the Office of Statistician and renamed the Division of Research and Statistics under the directorship of Stewart.

After the wartime hiatus in their meetings, the Governors of the Reserve Banks, led by Benjamin Strong, again sought the right to consult as a body. In May 1922, the Governors Conference met in Washington with the Board's approval (that group meets today as the Conference of Presidents). At that meeting, the Reserve Bank Governors set up the Committee of Governors on Centralized Execution of Purchases and Sales of Government Securities by Federal Reserve Banks. As originally conceived, this Governors Committee was to coordinate the Reserve Banks' purchases and sales of government securities; however, it soon began to influence policy and, as with the Conference of Governors before the war, it came into conflict with the Board. In March 1923, while Strong was in Colorado recuperating from an episode of tuberculosis, the Board asserted its jurisdiction over Reserve Bank open market operations, disbanded the Governors Committee as it was then composed, and reappointed the same officials to a new committee that would operate under the aegis of the Board. Despite disagreements about the right of the Board to act in such a manner, the Open Market Investment Committee, as it was called, had its first meeting on April 13, 1923. The Board's action brought open market operations under its direction for the first time and reduced the autonomy of the individual Reserve Banks in carrying them out. It also signaled a major change in policy.

### Changes in Policy

The breakdown of the gold standard in several countries during the war and the issuance of government securities to finance the war effort of the United States heralded the beginning of the end of the gold standard and the real bills doctrine as a guide to policy. There was a growing recognition among System officials that the securities transactions had affected bank reserves and thus economic conditions. Also, the large amount of speculation during 1919–20 had showed that regulations, even with the most precise definition of eligibility, could not control the ultimate use of Federal Reserve credit.

These changes in the Board's thinking on policy are indicated in the Tenth Annual Report. First of all, the Board and the System shifted from the sole reliance on changes in discount rates to the inclusion of open market operations in carrying out general credit policy. Thus, the Board stated the principle that Reserve Bank purchases and sales of government securities should be made with reference to prevailing credit conditions and for the accommodation of commerce and business, not just to provide earnings to the individual Reserve Banks or to facilitate Treasury financing operations. This statement put open market operations under the same guiding principle as that prescribed by the act for the discount rate. Second, the Board indicated that the need for coordination and uniformity in pursuing open market operations was the basis for its actions in setting up the Open Market Investment Committee. It also affirmed the need for uniformity in setting discount rates. Third, in recognition that it could not prevent speculation by defining the kinds of paper that were eligible for discounting, the Board asserted the principle that the quantity of paper discounted was as important as the quality in guarding against the overexpansion of credit.

In these statements, the Board demonstrated its growing ability to analyze and adapt to new uses the tools it had and its growing recognition of itself, not merely as a regulator, but as a policymaking body. The questions of the centralization of power within the System, of independence from the Treasury, and of the mission of the Board were not settled, but the process was under way.

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# Understanding the Behavior of M2 and V2

This article was prepared by David H. Small and Richard D. Porter of the Board's Division of Monetary Affairs. Michael V. Vaccaro provided research assistance.

As part of its responsibility of reporting to the U.S. Congress, the Federal Reserve System establishes ranges for the growth of various monetary aggregates over the coming year. These ranges are set so as to foster the ultimate objectives of the Federal Reserve, mainly stable economic growth and stable prices. The relations between these aggregates and income and prices, therefore, bear both upon the appropriate width of the target range set for each aggregate and upon the proper response of policy should one of them deviate from its range.

This article focuses on the properties of the M2 aggregate and of its velocity, V2, the ratio of gross national product to M2. The time frame is the intermediate run—the one- to two-year intervals that are associated with monetary targeting and over which V2 has fluctuated by substantial amounts. The article shows that much of the intermediate-run variability in this velocity measure can be explained by changes in the opportunity cost of holding M2 balances, defined as a market interest rate less the average rate paid on M2 deposits. Those changes, in turn, depend upon the rate-setting behavior of depository institutions: the more quickly and the more fully deposit rates adjust to changes in market rates, the more stable will be the opportunity cost of M2 and, therefore, the more stable will be V2 itself. Empirically, the average rate on M2 deposits tends to respond sluggishly to changes in market rates, so that opportunity costs vary significantly over the intermediate run but vary far less in the long run as deposit rates adjust.

Given the history of market rates, these two relations—between V2 and M2's opportunity cost and between the opportunity cost and market rates—account for much of the past variabil-

ity of V2. Nonetheless, predictions about the relationship of movements in M2 and in gross national product still embody much uncertainty. While the forecasts from models of M2 demand and deposit rates developed by the staff of the Federal Reserve Board are reasonably accurate. the interval since the deregulation of deposits in M2 has not been long enough for confidence to have been built in specific estimates of these relationships. Moreover, even if the links among market rates, deposit rates, GNP, and M2 demand were stable and fully understood, uncertainty about shocks elsewhere in the economy. and about the interest rate changes needed to offset them, would still neccesitate judgment in setting the appropriate path for M2.

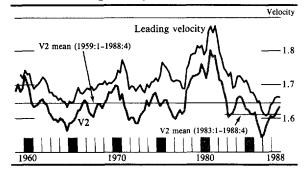
To shed light on these issues, this article first reviews the recent behavior of V2 and its determinants. It then examines the Board's formal model of M2 demand, which explicitly traces the relations between M2 on the one hand and income, prices, interest rates, and its other determinants on the other; and it reports simulations of that model to quantify the importance of the relationships governing the determination of M2 demand and deposit rates and of the uncertainty surrounding them. An appendix provides a brief exposition of the model.

HISTORICAL BEHAVIOR OF V2, OPPORTUNITY COSTS, AND DEPOSIT RATES

The velocity of M2, V2, has fluctuated about a generally flat trend over the last three decades (chart 1). However, some evidence suggests

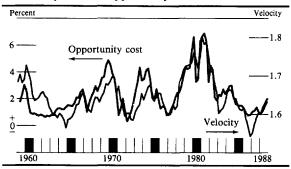
<sup>1.</sup> This observation refers to "contemporaneous velocity"—that is, the current level of GNP divided by the current level of M2. An alternative measure of the link between M2 and the gross national product is "leading velocity," in which current GNP is divided by a past level of M2. Using previous values of M2 allows for lags between changes in M2 and their effect on GNP and thereby potentially provides a more stable

### 1. V2 and leading velocity



that the introduction of money market deposit accounts at the end of 1982 had a once-and-for-all depressing effect on the average level of V2. With their transaction features and attractive offering rates, MMDAs apparently drew in funds that previously had been held outside M2 and thereby lowered V2.

### 2. Velocity and the opportunity cost of M2



Changes in M2's opportunity cost appear to be the main factor causing V2 to deviate from its trend (see chart 2).<sup>2</sup> The relation between V2 and the opportunity cost of M2 seems reasonably stable, even after the extraordinary initial growth

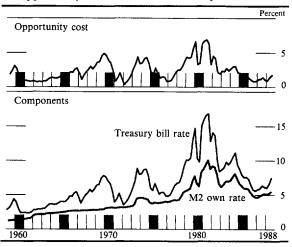
measure of velocity. The use of leading rather than contemporaneous velocity appears to smooth some of the variations in V2, but it does not affect the major swings in velocity, including those of recent years (see chart 1). The mean level of contemporaneous velocity is lower than that of leading velocity because, for any given period, the latter uses a smaller number—that is, an earlier value of M2—in the denominator. Here, M2 is lagged two quarters. Hereafter, the concept of velocity used throughout this article is the contemporaneous measure.

2. The opportunity cost of M2 is the three-month Treasury bill rate less the average rate paid on M2 deposits. These rates and all other rates used in this article are effective annual yields.

of MMDAs.<sup>3</sup> Indeed, the simple correlation between V2 and M2's opportunity cost is 0.78 over the period from 1959:2 to 1988:4.

The opportunity cost of M2, in turn, moves less than market interest rates because the average rate on M2 deposits—the M2 own rate—is adjusted in the wake of changes in the Treasury bill rate; obviously, greater adjustment tends to stabilize opportunity costs more. From 1959:2 to 1988:4, the standard deviation of the Treasury bill rate was 3.23 percentage points while that of the opportunity cost of M2 was only 1.53 percentage points. In the 1960s and 1970s, most of

### 3. Opportunity cost of M2 and its components

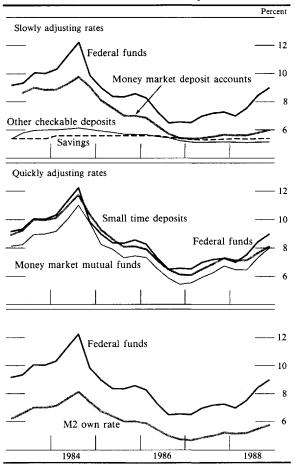


the adjustments made to the M2 deposit rate involved changes in rates that were under Regulation Q; these adjustments were generally made in lagged response to the upward trend in open market rates. However, since the deregulation of deposit rates began in mid-1978, the rate on M2 has generally responded more sensitively to changes in market rates. As a result, the M2

<sup>3.</sup> In view of the relatively attractive rates paid on MMDAs, the introduction of these accounts may have decreased the long-run equilibrium opportunity cost of M2 balances, increasing the demand for this aggregate and lowering its velocity. After their introduction in December 1982, MMDAs (not seasonally adjusted) promptly grew to 13 percent of M2 (seasonally adjusted) on average during 1983:1.

<sup>4.</sup> The M2 own rate is defined as the deposit-weighted average of the observed rates paid on M2 deposits; each type of deposit is weighted by the value of its ratio to M2, lagged one quarter. Currency and demand deposits are assumed to earn no explicit interest.





opportunity cost has been considerably more stable since 1983 than it was during the late 1960s and most of the 1970s, even though the variability of market rates was roughly the same in the two periods (see chart 3). The standard deviation of the M2 opportunity cost over the four years ending in 1988:4 was 48 basis points, the lowest value for any four-year interval in two decades.

Chart 4 shows the recent historical relations between the individual M2 deposit rates and the federal funds rate, which serves as a proxy for short-term open market rates. The first panel relates the funds rate to the more slowly adjusting M2 deposit rates—the rates on other checkable deposits, savings deposits, and MMDAs; the second panel shows the relation with the more quickly adjusting rates on small time deposits and on money market mutual funds; and the last shows the M2 own rate. Much of the recent responsiveness of the M2 own rate to changes in market rates, and therefore much of the increase in the stability of the M2 opportunity cost, stems from the closeness with which the rates on small time deposits and on money market mutual funds have followed short-term open market rates. When short-term market rates have risen, that closeness has promoted the stability of V2 in two ways: first, by permitting those instruments to retain deposits; and, second, by making them attractive to funds in other components of M2 that might otherwise have left the aggregate altogether.

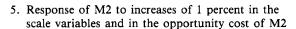
### MODELING M2 DEMAND AND DEPOSIT RATES

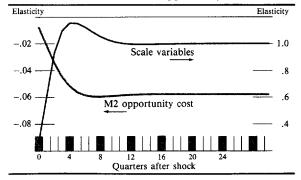
To explore the implications of these relationships for setting the target range for M2 and for dealing with deviations from that range, the Federal Reserve staff has developed an econometric model of the relationship of M2 to GNP and to market interest rates. The model has two components: the demand for M2 by the public and the rate-setting behavior of depository institutions.<sup>5</sup>

The relation between V2 and the opportunity cost of holding M2 balances, which is exhibited in chart 2, forms the basis of the staff econometric model of the demand for M2. In the model, the ratio of M2 demand to GNP (that is, the reciprocal of V2) is affected primarily by the opportunity cost of M2.6 The model also specifies the short-run dynamics by which M2 demand, and hence V2, adjusts toward its long-run level; these adjustments include, among other things, current and lagged responses to changes in nominal GNP, personal consumption expendi-

<sup>5.</sup> For a full discussion of this and other models, see George R. Moore, Richard D. Porter, and David H. Small, "Modeling the Disaggregated Demands for M2 and M1 in the 1980s: The U.S. Experience," in Board of Governors of the Federal Reserve System, Financial Sectors in Open Economies: Empirical Analysis and Policy Issues (the Board, forthcoming, 1989).

<sup>6.</sup> The long-run demand for M2 also includes a time trend and a dummy variable to account for the introduction of MMDAs. These variables are only marginally significant and drop out altogether when the sample period starts in 1960:1 rather than in 1964:1, for example.





tures, and the M2 opportunity cost, and to previous changes in M2 itself.

The estimated behavioral responses of M2 demand to increases in the scale variables, nominal GNP and personal consumption expenditures, and in the M2 opportunity cost unfold fairly smoothly and nearly monotonically over time, although they exhibit some overshooting of their long-run values (see chart 5). As estimated, the demand for M2 takes slightly less than a year to respond fully to shocks to GNP, but needs about a year and a half to respond fully to shocks to opportunity costs. The long-run elasticity with respect to changes in opportunity costs is estimated to be -0.057; that is, a 1 percent increase in opportunity costs induces a 0.057 percent decrease in the level of M2.

The response of M2 demand to a change in market rates is more complex because the lagged adjustments of offering rates result in changes in opportunity costs long after the initial movement in market rates. The staff model links deposit rates to the federal funds rate. After allowing for costs of servicing accounts, deposit rates are assumed to adjust one for one with the funds rate in the long run.<sup>8</sup> The speed of this adjustment varies significantly across the different types of M2 deposits; the rates on the more liquid ac-

6. Response of M2 own rate and opportunity cost to increases and decreases in the federal funds rate

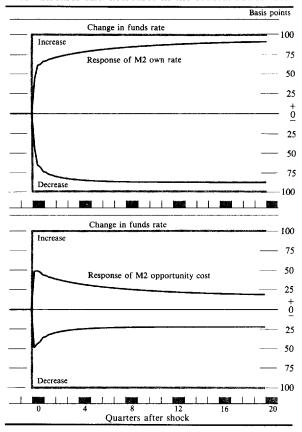


Chart 6 shows the estimated responses of the M2 own rate and the M2 opportunity cost to changes of plus and minus 100 basis points in the federal funds rate. During the first quarter following the rise in the funds rate, the Treasury bill rate is estimated to increase about 90 basis

equaling the marginal reserve ratio for OCD balances in excess of the low-reserve tranche. For the other non-M1A deposit rates, the reserve tax should reflect the 3 percent marginal reserve ratio applicable to nonpersonal time and savings accounts at institutions with too little vault cash to avoid being bound by reserve requirements. But since this requirement is not applied to all nontransaction accounts, the average tax is generally considerably less than 3 percent. For simplicity, the model assumes it is zero.

counts adjust more slowly, as chart 4 makes evident. In addition, as tests conducted with the staff model indicate, apart from rates on small time deposits, offering rates adjust downward faster than they adjust upward.

<sup>7.</sup> In computing the scale variable elasticity, the two scale variables entering the M2 demand model are changed in tandem by the same percentage amounts.

<sup>8.</sup> In "Modeling the Disaggregated Demands," Moore and his colleagues provide some evidence that this assumption is warranted.

An exception to the one-for-one adjustment is the rate on other checkable deposits, which is subject to a "reserve tax" on the margin. The reserve tax is assumed to be 12 percent,

points. But, because rates on small time deposits and on money market mutual funds respond relatively quickly, the average M2 offering rate moves up about 40 basis points (top panel), leaving a net increase in the opportunity cost of about 50 basis points (lower panel). After two quarters, the Treasury bill rate has completed its adjustment and the opportunity cost starts to decline as M2 deposit rates continue to adjust upward, albeit sluggishly.

Combining the model of M2 demand with that of deposit rate setting produces a model of the monetary sector in which M2 demand is tied to GNP and the federal funds rate. The response of M2 demand to a change in the funds rate follows a humped profile, as shown by the black lines in chart 7. The opportunity cost initially falls after a decrease in the funds rate (as in chart 6), working to increase M2 demand. However, as the deposit rates continue to decline, the opportunity cost begins to rise and the demand for M2 weakens, though remaining above its original value. As

### 7. Response of M2 with respect to an increase of 1 percent in the federal funds rate

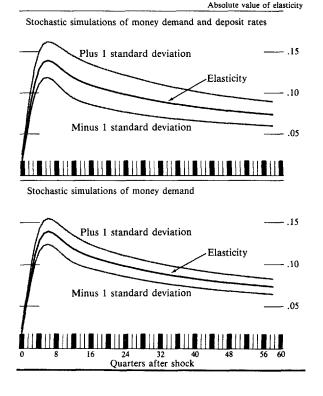


chart 7 shows, the short-run elasticity peaks seven quarters after the shock in the funds rate at -0.14, about twice the absolute value of the long-run elasticity of -0.073.9

### STABILITY OF THE DEMAND FOR M2 AND ASSOCIATED TARGETING ISSUES

The usefulness of M2 as a guide to monetary policy depends not only on the strength of M2's relationships to income and interest rates, but also on the stability and predictability of those relationships. An impression of the stability of the equation for M2 demand can be gleaned from the forecasts of the annual growth rates of M2 shown in table 1. These forecasts are mainly within the model's estimation period—1964:1 to 1986:2; they represent dynamic simulations of the model, in which past values of GNP and the M2 opportunity cost are exogenous.<sup>10</sup>

As indicated by the correlation of 0.907 between the actual and forecasted growth rates, the model captures the swings in M2 growth reasonably well. The table also shows that changes in the M2 opportunity cost make the more significant contributions to short-run swings in M2 growth (column 4), while changes in GNP and personal consumption expenditures account for more of the slowly evolving changes in trend M2 growth (column 5).

The implied forecasts of V2 using the forecasted levels of M2 and historical values of GNP that are shown in chart 8 indicate the model's ability to track the relation between V2 and opportunity costs. However, the divergence of the actual and simulated values starting in 1987 is as pronounced as any in the estimation period and largely reflects the overprediction by 1.8 points of M2 growth in 1987 (see table 1). This

<sup>9.</sup> Strictly speaking, this elasticity depends both upon the level of interest rates at which it is evaluated and upon the associated magnitude of the change in interest rates. However, in experiments testing federal funds rates of 4 percent to 16 percent, the elasticity varied by only 0.002.

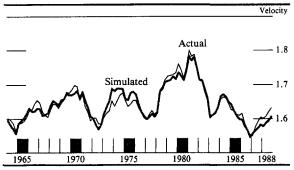
<sup>10.</sup> Whether to use dynamic or static simulations is an issue in models such as the staff's model of M2 demand, in which there are lagged dependent variables. Static simulations use historical values for the lagged dependent variables, while dynamic simulations use model forecasts of the variables.

### Forecasts of annual growth in M2, 1964-88 Percent change, fourth quarter to fourth quarter, except as noted

			Forecast error	Contribution to forecasted M2 growth (percentage points)	
Year	Actual (1)	Forecast (2)	(percentage points) (3)	Opportunity costs (4)	Scale variables (5)
1964	7.9	8.6	6	.0	5.8
	8.0	6.8	1.3	9	8.4
	4.8	7.1	-2.3	-2.3	9.5
	9.1	6.8	2.3	1.0	5.9
	7.8	8.1	3	-1.9	10.0
	4.4	5.2	8	-2.6	7.8
1970	6.1	5.4	.7	.0	5.6
	13.5	13.0	.5	5.6	7.9
	12.8	13.7	9	3.6	10.6
	7.2	4.8	2.4	-6.7	11.0
	5.9	7.4	-1.5	-2.6	9.9
1975	12.1	11.2	.9	2.8	8.7
	13.3	14.7	-1.4	3.8	11.5
	11.2	12.1	9	1.2	11.2
	8.0	7.9	.1	-4.7	12.2
	8.2	8.9	7	-3.7	12.4
1980	8.9	8.2	.7	7	8.9
1981	9.3	8.8	.4	-1.3	10.1
1982	9.1	8.7	.4	3.4	5.9
1983	12.1	12.2	1	2.4	6.4
1984	7.7	7.7	.0	6	9.4
1985	8.9	10.0	-1.1	2.3	8.2
1986	9.3	8.1	1.2	3.0	5.5
1987	4.2	6.0	-1.8	.3	5.9
1988	5.3	5.5	3	-1.7	7.3
Summary statistic Root mean squared error Mean absolute error Mean error (bias) Correlation of actual and forecasted annual growth.		  	1.2 1.0 .0		

forecast error is relatively large, and it is somewhat disturbing, coming as it does in the first full out-of-sample year. However, the forecast of M2 growth in 1988 was quite accurate; therefore, the simulated and actual velocities plotted in chart 8 parallel one another in 1988.

### 8. Actual and simulated velocity of M2



These results lend some credence to future forecasts of the M2 demand model, at least to forecasts over such annual intervals and conditional on actual values of income and opportunity costs; but they fail to incorporate any uncertainty associated with forecasting opportunity costs. This issue is addressed in forecasts of M2 growth based on endogenous deposit rates (table 2, column 2). These forecasts start in 1984:1, about the earliest these deposit-rate equations are applicable. For comparison, the forecasts

<sup>11.</sup> The deposit-rate models use the historical values of the rates on federal funds and on Treasury bills.

<sup>12.</sup> Rates on all deposit categories except passbook savings accounts were deregulated by this period. Rates on passbook accounts were deregulated in 1986:2, but they move so sluggishly in response to changes in market rates that using simulated rather than historical values would not substantially affect the forecasts.

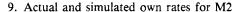
		Forecasted de	eposit rates	Actual deposit rates	
Year and quarter	Actual growth (1)	Forecasted growth (2)	Error (3)	Forecasted growth (4)	Еггог (5)
1984:1	7.5	6.9	.6	6.9	.6
2	7.3	7.3	1	7.3	1
3	6.3	7.1	8	7.1	8
4	8.9	8.2	.7	8.3	.7
1985:1	12.0	9.2	2.9	9.3	2.8
2	6.1	9.7	-3.6	9.8	-3.7
3	9.7	10.5	8	10.2	5
4	6.7	9.2	-2.5	8.6	-1.9
1986:1	5.5	8.0	-2.5	7.4	-1.9
2	9.9	7.8	2.1	7.1	2.8
3	11.0	9.3	1.7	9.0	2.1
4	9.6	8.5	1.0	8.2	1.4
1987:1	6.1	6.4	3	6.3	2
2	2.1	5.7	-3.5	5.8	-3.7
3	3.4	5.4	-2.0	5.8	-2.4
4	4.9	4.7	2	5.6	7
1988:1	6.2	5.4	.7	6,5	_ 4
2	6.9	5.7	1.2	6.2	7
3	3.8	5.5	-1.7	5.1	-1.4
4	3.8	4.5	7	3.8	0.

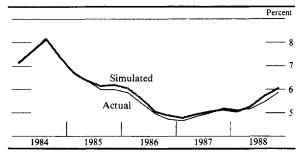
### 2. Alternative forecasts of quarterly growth in M2, 1984:1-1988:4, based on forecasted and actual deposit rates

in column 4 also start in 1984:1, but they take past opportunity costs as given.

Root mean squared error .....

Although the summary statistics in columns 3 and 5 suggest that the use of forecasted rather than historical deposit rates has no appreciable effect on the forecasts of M2 growth, behind these statistics there is a noticeable difference between the two sets of forecasts for the period from 1987:4 to 1988:2. Over this period, the simulated deposit rates result in M2 growth rates that are around 1 percentage point lower than those based on historical rates. In 1987 and early 1988, the actual M2 own rate rose





more than the simulated rate (chart 9), producing higher M2 growth for the forecast using historical deposit rates.

1.8 1.5

Table 2 also shows that the relatively accurate annual forecasts reported in table 1 mask relatively large quarterly errors that tend to offset one another over the course of a year. These annual and quarterly forecast results reflect all errors in the various aspects of the model: possibly omitted variables and other misspecifications of the model, as well as uncertainties about the estimated values of the coefficients and about the behavior of the additive residuals in the model. These last uncertainties are especially important in evaluating the M2 growth rates that are likely to be associated with alternative paths for GNP or interest rates.

Table 3 and chart 7 cast light on this issue. Table 3 displays confidence intervals for the elasticity of M2 with respect to the federal funds rate. <sup>13</sup> It provides estimated standard deviations

In principle, these confidence intervals can be computed directly from the model's underlying estimated coeffi-

Quarters after change		ertainty in nd and rate models	Uncertainty in money-demand model only		
	Estimate	Standard deviation	Estimate	Standard deviation	
		ı			
0	020 054 087 113 129	.005 .009 .013 .017 .019	020 054 087 113 129	.004 .006 .008 .011 .013	
5	138 140 138 134	.021 .022 .023 .023	138 140 138 134	.015 .015 .015 .016	
9 1 2	130 126 122 118	.024 .025 .026 .026	130 126 122 118	.016 .016 .016 .016	
4	098 086 078 073	.022 .019 .016 .015	098 086 078 073	.012 .011 .010 .009	
	Change in	annualized quarterly growth rates in the federal funds rate		100 basis points	
2	86 -1.37 30 .20	.19 .18 .15 .11			
14	.05 .03	.02 .01	• • •		

### 3. Responses of M2 to changes in the federal funds rate

60 (long run) .....

for the elasticity of M2 with respect to the funds rate, after allowing for uncertainties in coefficients and error terms in the equations for both M2 demand and the deposit rates; and chart 7 shows the confidence intervals around the estimated elasticity of M2 in terms of a band of one standard deviation about the estimated values. The elasticity follows the humped pattern discussed earlier, reaching its largest values after six quarters. The standard deviation around the elasticity peaks somewhat later, about twelve quarters after the shock, but then it too begins a

cients, after some distributional assumptions concerning the estimated coefficients have been made. In practice, direct computation is fairly difficult when the model is viewed as a dynamic system and because of the way we have estimated it. Thus, we have used a stochastic simulation technique to construct the confidence intervals, where random parameter values are drawn from multivariate normal distributions using the estimated variance—covariance matrixes of the parameters.

steady decline. Table 3 also lists the implied estimated changes in quarterly M2 growth rates, and their standard deviations, following an increase of 100 basis points in the federal funds rate.

In light of the degree of uncertainty that table 3 and chart 7 reveal, the separate contributions of the equations for M2 demand and the deposit rates are especially interesting. When we allow for uncertainty only in the equation for M2 demand, the standard deviation of M2's elasticity with respect to the funds rate falls approximately 40 percent from its level when uncertainty is allowed for in the equations for both M2 demand and the deposit rates.

The remaining coefficient uncertainty involves the elasticity of M2 demand with respect to GNP. Here, our measures of uncertainty are necessarily biased downward because, in formulating the model, a long-run elasticity of unity was imposed

<sup>1.</sup> Evaluated for a 1 percent increase in the federal funds rate.

and thus no uncertainty arises in this regard. Nonetheless, the speed with which the model converges to this long-run elasticity is a function of freely estimated parameters, and the associated uncertainty can be computed. One standard deviation of the estimated elasticity is about one-sixth of the estimated value during the first few quarters following a change in GNP (see table 4). Over longer horizons, the standard deviation falls, reflecting the long-run constraint of a unitary elasticity and the implied convergence of the standard error to zero.

### 4. Elasticity of M2 with respect to scale variables<sup>1</sup>

Quarters after change	Estimate	Standard deviation
0 1 2 3	.272 .607 .933 1.097	.067 .089 .059 .035
5 6	1.155 1.153 1.124	.042 .054 .055
7 8 9	1.087 1.054 1.029	.047 .035
10	1.012 1.002 .997	.017 .016 .015
24	1.000 1.000 1.000 1.000	.001 .000 .000 .000

<sup>1.</sup> The scale variables are nominal GNP and personal consumption expenditures.

### CONCLUSION

This article examines the empirical linkages among M2, nominal GNP, and the opportunity cost of M2 balances. M2 is apparently rather closely tied to nominal GNP in the long run, as indicated by the long-run stability of V2; but changes in market rates can have significant short-run effects on M2 and V2 through their effects on the opportunity cost of holding M2 balances. The equation for M2 that was used to characterize the behavior of that aggregate is rather standard in terms of variables used to explain M2—mainly, income and opportunity costs. But the resulting behavior that is imparted to M2 by the sluggish adjustment of deposit rates to changes in market rates is not always recognized.

This sluggish adjustment process for deposit rates produces swings in the opportunity cost for M2 deposits that initially widen when market rates increase but that gradually narrow as deposit rates adjust upward. M2 has, therefore, a greater response to changes in market rates in the short run than in the long run. However, the experience with deregulated rates for most M2 deposits is limited to the 1980s, and therefore the uncertainty concerning their behavior and effects on M2 is probably greater than is conveyed in the model presented here.

### APPENDIX: MODEL OF M2 DEMAND

The staff model of M2 demand is an errorcorrection specification, composed of two parts. The first is a long-run equilibrium money demand function:

$$(A.1) m_t = \alpha + y_t + \beta s_t + \gamma T_t + e_t,$$

where  $m_t = \log(M2)$ ,  $y_t = \log(\text{nominal GNP})$ ,  $s_t = \log(Opp_t)$ , Opp is the opportunity cost of M2, and T is an index for time. 14 The unitary coefficient on y, assures that this is a velocity relationship, with the long-run elasticity with respect to nominal GNP equal to unity.

The second part of the model is a dynamic error-correction equation of the form

(A.2) 
$$\triangle m_t = a + be_{t-1} + \sum_{i=1}^{u} c_i \triangle m_{t-i} + \sum_{i=0}^{v} d_i \triangle s_{t-i} + \sum_{i=0}^{w} f_i \triangle y_{t-i} + \epsilon_t,$$

where  $\epsilon_i$  is a white-noise error term. Here  $e_{i-1}$  is derived from A.1; it is the lagged difference between the actual and long-run demand for M2, where the lags avoid problems of simultaneity.

The coefficient b on  $e_{t-1}$  in A.2 is negative and ensures that the short-run demand for M2 will converge to its long-run demand as expressed in equation A.1. The first-difference terms influence the short-run adjustment of M2 toward its longrun equilibrium. To guarantee that these terms are logically consistent with the convergence to and the stability of the long-run equilibrium, an

<sup>14.</sup> The logarithm of the opportunity cost cannot be used for all historical periods because at times the opportunity cost turns negative. In specifying the models, we have used logarithms for levels of opportunity cost greater than 50 basis points. Below this level, the logarithm is replaced by its first-order Taylor series expansion.

additional "convergence" restriction is imposed. This restriction is noted below.

Using A.1 to substitute for  $e_{t-1}$  in A.2 yields the following form of the model:

(A.3) 
$$\triangle m_{t} = a - b\alpha - b\gamma T_{t-1} - b\beta s_{t-1} + b(m_{t-1} - y_{t-1}) + \sum_{i=1}^{u} c_{i} \triangle m_{t-i} + \sum_{i=0}^{v} d_{i} \triangle s_{t-i} + \sum_{i=0}^{w} f_{i} \triangle y_{t-i} + \epsilon_{t}.$$

The staff model takes this form, but in  $\Delta y$  we use personal consumption expenditures rather than GNP.<sup>15</sup> The estimated model for the sample period from 1964:1 to 1986:2 is shown below; the absolute values of the t statistics are shown in parentheses beneath the estimated coefficients.

$$\Delta \log(M2)_{t} = -.074 - .00008 \ Time \\ (6.05) \quad (2.49) \\ + .0045 \ MMDA \\ (2.15) \\ - .011 \ Taylog(Opp_{t-1}) \\ (6.78) \\ - .185 \ [log(M2_{t-1}) - log(GNP_{t-1})] \\ (6.17) \\ + .273 \ \Delta \ log \ (Consump_{t}) \\ (3.92) \\ + .166 \ \Delta \ log(Consump_{t-1}) \\ (2.33) \\ + .098 \ \Delta \ log(Consump_{t-2}) \\ (1.67) \\ - .008 \ \Delta \ Taylog \ (Opp_{t}) \\ (5.50) \\ - .012\Delta \ C. \ Control \\ (3.29) \\ + .026 \ DUM83Q1 \\ (5.55) \\ - .006 \ DUM83Q2 \ + .462 \ \Delta \log(M2_{t-1}). \\ (1.08) \qquad (5.67)$$

 $R^2 = .71$ ; Durbin's h statistic = 1.26; standard error of the regression = .0043.

The short-run "convergence" restriction that is imposed on the coefficients is that the coefficients on the changes in consumption and on  $\Delta \log (M2_{t-1})$  sum to one.

In this equation, the terms are defined as follows:

C. Control	Dummy variable for credit con-
	trols: 1 in 1980:2 and 0 otherwise.
Consump	Personal consumption expendi-
	tures.
DUM83Q1	Short-run dummy variable for the
~	introduction of MMDAs; 1 in
	1983:1 and 0 otherwise.
DUM83Q2	Short-run dummy variable for the
	introduction of MMDAs; 1 in
	1983:2 and 0 otherwise.
GNP	Nominal GNP (two-quarter mov-
UNI	· · · · · · · · · · · · · · · · · · ·
	ing average).
MMDA	Dummy variable for the introduc-
	tion of MMDAs; 0 through 1982:4
	and 1 thereafter.
Opp	Opportunity cost of M2.
Taylog	The natural logarithm for values
. 0	of the opportunity cost (Opp)
	greater than 50 basis points; the
	linear approximation of this func-
	tion for values of the opportunity
	cost less than 50 basis points.
Time	Time-trend variable, with incre-
	ments of 1 in each quarter.

### Deposit-Rate Equations

The deposit-rate equations, like the M2-demand model, are formulated within an error-correction framework. The long-run equilibrium relation between a deposit rate and the federal funds rate is specified as

$$(A.4) R_t^e = \alpha_0 + \alpha_1 F,$$

where  $R^e$  is the equilibrium deposit rate and F is the rate on federal funds. This specification im-

some moderate improvement in the fit. The improved fit may arise because short-run changes of some components of GNP, such as business fixed investment and inventories, may not generate a significant increase in the transactions demand for money balances in the short run.

<sup>15.</sup> Personal consumption was used in the short-run components of the model since, in comparison to GNP, it led to

	Model									
Coefficient	Small time deposits	MMMFs (2)	MMDAs (3)	Savings deposits <sup>2</sup> (4)	OCD (5)					
	Long-run relation (equation A.4) <sup>3</sup>									
x <sub>0</sub>	1628	-1.1565	-1.3024	-1.4274	-1.2499					
κ <sub>1</sub>	1.00	1.00	1.00	1.00	.88					
	Short-run relation (equation A.6)									
3 <sup>a</sup>	6699 (4.4)	71845 (2.6)	34572 (2.3)	08643	20895					
3 <sup>b</sup>	6699 (4.4)	49937 (2.5)	11524 (2.3)	02881	035132					
to · · · · · · · · · · · · · · · · · · ·	.72711 (14.5)	.58908 (15.8)	.42849 (9.7)	.10712	12112					
/1		.51081 (3.8)	.16294 (2.8)	.040736						
3		4104 (4.3)								

### A.1. Estimated coefficients for alternative deposit-rate models<sup>1</sup>

the values of the corresponding parameters of the MMDA rate equations. The intercept,  $\alpha_0$ , was set about 25 basis points below the MMDA intercept.

plicitly assumes that competitive forces will drive the slope coefficient  $\alpha_1$  to one minus the marginal reserve ratio, while the intercept  $\alpha_0$  will be negative, reflecting transaction costs associated with deposit activity that are not recovered by fees assessed on the depositor. Of course, deposit rates need not always be in equilibrium, and a short-run disequilibrium term,  $e_t$ , is introduced to model the data:

(A.5) 
$$R_t = R_t^e + e_t = \alpha_0 + \alpha_1 F_t + e_t$$
.

When  $e_t$  is positive we expect  $R_t$  to fall because  $R_t$  is then above its long-run equilibrium level; conversely, when  $e_t$  is negative we expect  $R_t$  to rise because  $R_t$  is then below its equilibrium level.

The second fundamental component of the model is an error-correction equation that describes how the deposit rate adjusts toward its long-run equilibrium in response to the existing disequilibrium and to lagged changes in the deposit rate and the funds rate. To allow for the

asymmetric upward and downward short-run responses that are evident in the data, we let  $e_t^a$  equal  $e_t$  when  $e_t$  is positive (that is,  $R_t$  is above its long-run equilibrium) and zero otherwise; similarly, we let  $e_t^b$  equal  $e_t$  when  $e_t$  is negative (that is,  $R_t$  is below its long-run equilibrium) and zero otherwise. Then the asymmetric error-correction equation with a lag structure adequate to fit the data is

(A.6) 
$$\triangle R_{t} = \beta^{a} e_{t-1}^{a} + \beta^{b} e_{t-1}^{b} + \gamma_{0} \triangle F_{t} + \gamma_{1} \triangle F_{t-1} + \delta \triangle R_{t-1} + u_{t},$$

where the disturbance term  $u_t$  is assumed to be uncorrelated over time. We expect, other things equal, the fall in R induced by an  $e^a$  to be larger than the rise in R induced by an  $e^b$  of the same magnitude, so that  $\beta^a < \beta^b < 0$ .

Table A.1 reports the estimates of the parameters in equations A.5 and A.6 for the models of rates paid on small time deposits, MMMFs, MMDAs, savings deposits, and other checkable deposits.

<sup>1.</sup> The numbers in parentheses are the absolute values of the t statistics. Where no number appears, the t statistic was not available.

<sup>2.</sup> Savings deposit rates have been deregulated only since 1986:2 so that there are too few observations to estimate the short-run relation. The short-run parameters were judgmentally set equal to one-fourth of

<sup>3.</sup> The slope coefficients,  $\alpha_1$ , are imposed to reflect the marginal reserve requirements on these accounts.

### Transfer Risk in U.S. Banks

Michael G. Martinson and James V. Houpt of the Board's Division of Banking Supervision and Regulation prepared this article.

The growth of international lending by U.S. banking organizations, especially during the last decade, has added new dimensions to the responsibilities of the federal regulatory agencies that supervise the operations of U.S. banking organizations. As a matter of general approach and philosophy, the agencies seek to apply the same criteria to evaluate both the domestic and the international activities of banking organizations. Evaluating international transactions, however, demands special procedures that take account of "country exposure"—that is, the amount of lending to a country—and of "country risk"—that is, the possibility that adverse economic, social, or political developments in a country may prevent that country, its businesses, and other local borrowers from making timely payment of interest or principal to creditors in other countries. The expansion of international lending has made an analysis of country risk an essential element in the overall evaluation of the financial condition of the largest U.S. banks.

A component of country risk is "transfer risk," which arises when borrowers incur debts denominated in the currencies of other countries. Specific government policies, general economic conditions in a borrower's country, or changes in the international environment may prevent that borrower from obtaining the foreign currencies needed to service its debt. Whatever the cause, foreign currency may not be sufficiently available to permit the government and other entities of the country to service all their foreign debt. In such circumstances, the condition of the lending banks suffers.

### THE SUPERVISORY SYSTEM

In 1978, the three regulatory agencies—the Federal Reserve System, the Office of the Comptrol-

ler of the Currency, and the Federal Deposit Insurance Corporation—jointly developed an approach to improving their supervision of the transfer risks inherent in foreign lending by U.S. banks. The new system was designed to address transfer risks separately in the bank examination process, rather than attempt to analyze them in the supervisory framework that is used for evaluating commercial risks. A common supervisory approach was needed for two other purposes: to ensure that the bank regulatory agencies treated transfer risks uniformly; and to improve the quality and efficiency of regulatory review by drawing on and coordinating the best available expertise. The system was built around a process for reporting country exposure that had been adopted a few years earlier. This supervisory system has four parts:

- 1. The identification in examination reports of significant country exposures to bring to the attention of bank management exposures that are large relative to an institution's own capital.
- 2. Comments by the agency on large exposures to individual countries based on a country's economic condition and on the relation of the bank's exposure to its capital funds or to the exposures of its competitors.
- 3. The identification, or "classification," of exposures to countries with debt-servicing problems.
- 4. A review of the bank's policies, practices, procedures, and controls for managing country risk.

Like domestic lending, loans to individual foreign borrowers are subject to legal lending limits, but otherwise the agencies do not prohibit lending to any country per se. Bank regulators want assurance, however, that the bank's management and directors are aware of significant exposures and that reasonable procedures are in place to evaluate the risks.

### Reporting

As the volume of international lending grew during the 1970s, the regulatory agencies needed more complete and accurate data about the level of bank exposures. They also needed to ensure that all banks that engaged in lending to foreign borrowers had sufficient information on aggregate lending to make informed decisions about portfolio diversification. The Country Exposure Report (form 009 of the Federal Financial Institutions Examination Council) was developed in 1976 to provide that information; it has become a key source of data on country exposure for the agencies, as well as for many commercial banks and other interested parties. Initially, banks reported on a semiannual basis, but they began to file quarterly reports in 1984, as required by the International Lending Supervision Act of 1983. As a general rule, a U.S. commercial bank that has \$30 million or more in foreign lending must file the report.

The report currently consists of 24 different items of information on lending and covers almost 190 countries. A bank first lists the amount of credit it has extended to borrowers in a country and then provides information on any guarantees by parties in other countries. The report also categorizes the loans by their remaining maturity and by the sector of the borrower (bank, public, other). It lists the amount of lending in the local currency provided by the bank's local offices and the amount and nature of certain contingent liabilities. The focus of the report is the "adjusted" exposure, the result of transferring the bank's claims from the country of the "initial" borrower to the country of the guarantor (if any) and, in the case of claims on foreign branches of banks, to the home countries of those banks. Analysis of the various items reported and of the results of these adjustments indicates the location of the country risk in a bank's portfolio.

These individual reports are used to evaluate the exposure of the reporting institutions. The agencies hold them in confidence, but much information about foreign exposure remains available to the public. Specifically, banks must disclose their large exposures in annual reports to their shareholders and in other regulatory reports. For this purpose, large exposures are defined as those representing more than 1 percent of the bank's assets or more than 20 percent of its primary capital. Moreover, each quarter, the Federal Reserve Board's statistical release, "Country Exposure Lending Survey" (E.16), makes available to the public a substantial amount of information about the foreign exposure of U.S. banks to individual countries. It provides the information for all reporters combined and also for three subgroups separately: the nine money-center banks, a group of large regional banks, and all other reporting banks.

Aggregate data are used principally in making supervisory and regulatory policy, but they are also used for identifying the aggregate borrowings of foreign countries from U.S. banks. In addition, the Federal Reserve submits total figures on U.S. bank lending to each country to the Bank for International Settlements in Basle, Switzerland, where they are combined with similar data from banks in other major countries. These BIS statistics, in turn, provide the public with information about worldwide lending and borrowing trends.

#### Evaluation Process

In connection with the country-risk procedures adopted in 1978, the agencies established the Interagency Country Exposure Review Committee to assess transfer risk and to ensure uniform treatment of the risks during examinations. The committee consists of three voting members from each agency: a staff member from the agency's Washington office and two of its senior field examiners who have broad experience in international banking.

The committee meets three times each year to review conditions in countries where transfer risk to U.S. banks is significant. Formal economic analyses of each country are presented to the members by economists from the U.S. Treasury, the Federal Reserve Bank of New York, and the Board of Governors. In addition, the examiners recount views expressed and actions taken by major money-center and regional U.S. bank lenders with whom they met prior to the meeting. Drawing upon this information and using standards promulgated by the agencies, the members evaluate the transfer risk inherent in U.S. bank loans to borrowers as a group in each country discussed.

#### CATEGORIES OF RISK

A number of broad categories are used to evaluate transfer risk. The first three apply to loans in countries that do not have current or imminent debt-service problems, according to the evidence available at the meeting. These categories divide the countries according to potential risk. The remaining categories apply to countries that already pose transfer risk.

### Categories of Potential Problems

Countries that are evaluated according to their potential for transfer risk can range from developed countries and countries with strong balance of payments positions to countries with relatively weak balance of payment positions or other problems that could, unless addressed properly, lead to debt-servicing problems. The categories characterize the country as "strong," "moderately strong," and "weak" according to the degree of transfer risk it poses. These three categories are used only for determining whether a particular concentration of exposure warrants comment in the examination report.

### Categories of Current Problems

Four other categories are used to identify credits that currently exhibit transfer-risk problems. However, for borrowers in these categories the committee often distinguishes between credit related to trade financing and credit for other purposes because even countries in severe economic difficulty usually give priority to servicing their international trade. Once credits are placed in one of these categories, a more favorable evaluation is not applied until the country has demonstrated a sustained ability to service its debts in an orderly manner. Its economic position, especially with respect to its external accounts, must also show improvement.

The first three categories are various levels of "classification," and they cover the loans subject to the more serious transfer risks.

The first category of classification, "losses," applies to loans to borrowers in countries that have repudiated their obligations to banks, the International Monetary Fund, or other lenders,

or in countries whose payment records and economic conditions have deteriorated to the point that any payment is unlikely. The net carrying value of such loans must be reduced to zero.

The second category of classification, "value impaired," covers loans that the lender should not carry at face value. Loans to borrowers in a country with protracted arrearages, as indicated by at least two of the following conditions, receive this evaluation: the country of the borrower has not paid full interest for at least six months; it has not complied with an IMF-supported or similar program and has no immediate prospects for doing so; it has not met its obligations on rescheduled debt for one year or more; or it has no definite prospect for an orderly restoration of debt service.

When an asset receives this classification, the agencies require the lender either to charge off a certain percentage of the original claim or to establish an equivalent specific reserve, called an allocated transfer-risk reserve, that is not considered part of bank capital when measuring capital adequacy. The ratio of this reserve has ranged from 10 percent to 100 percent.

The least serious of the classifications is "substandard." It applies to loans to borrowers in countries that have not complied fully with their external debt obligations, have not adopted satisfactory reform programs, and have not negotiated a viable rescheduling agreement with their lending banks and appear unlikely to do so.

A final category of transfer-risk problems is labeled "other transfer-risk problems." Credits are placed in this category when transfer-risk problems have prevented borrowers in the country from fulfilling their obligations to service external debt, as evidenced by arrearages, forced restructurings, or rollovers. The country is, however, taking steps to restore debt service through economic reforms, which are usually part of an IMF-supported program. Two other kinds of credits fall into this category: those that are being serviced as scheduled but on which an interruption is deemed imminent; and those that have previously been categorized in one of the three classifications just described but for which classification is no longer warranted in light of recent improvements in debt-service performance. Such loans are ones that are viewed as subject to more than normal risks, but not enough to be "classified."

### *Implementation*

Examiners use the evaluations of transfer risk by the Interagency Country Exposure Review Committee in judging the overall quality of a bank's assets. They must also consider commercial risk factors. If the examiner believes that the business risks a commercial borrower poses dictate a classification more severe than the transfer risk does, then that more severe classification is applied. After this adjustment, classified foreign loans are added to classified domestic loans as part of the process of determining the overall quality of the bank's assets and the adequacy of its capital and reserves.

Examiners may also comment in their reports about a bank's concentration of exposure to a particular country relative to the bank's capital funds. They are required to do so if lending to a country designated as "weak" for transfer-risk purposes exceeds 10 percent of the bank's total capital or if, for a "moderately strong country," the exposure exceeds 15 percent of capital. They do not ordinarily comment on exposures to borrowers in "strong" countries.

These examination comments consist of two paragraphs. The first contains a brief statement on conditions prevailing in the country and on the country's performance under any IMF-supported program. The interagency committee prepares this paragraph. The examiner prepares the second paragraph. It describes the nature of the bank's exposure (such as maturities and types of borrowers) and identifies trends in that exposure. When it is relevant to do so, the examiner may compare the bank's exposure with that of other banks (without revealing identities) and may also discuss the bank's plans for lending to the country.

Identifying and commenting on concentrations of credit to borrowers in any one country are

important elements of bank supervision in the United States. When appropriate, the comments should prompt senior management and the bank's board of directors to review their lending policies and exposures. In some cases, the bank may revise its strategy about the nature and amount of lending to borrowers in such a country. If an examiner determines that the exposure is particularly high (relative to risk factors), or that the management of international risk poses other problems, he or she may call attention to those findings in the summary of the examination and also in the letter transmitting the examination report. In that case, the bank's board of directors is required to review and formally respond to the examiner's concerns.

Examiners also evaluate the procedures the bank uses to manage and control its international lending program. Specifically, they review three aspects of the bank's systems: (1) the measurement and monitoring of country risk; (2) the procedures for establishing and changing limits on lending to any one country; and (3) the procedures for evaluating overall country risk. Any material deficiencies in these areas are also criticized.

### **CONCLUSION**

The approach the federal bank regulatory agencies take to evaluating international lending integrates concerns about transfer risks into the overall evaluation of a bank. The Interagency Country Exposure Review Committee enables the agencies to centralize decisionmaking, ensure uniform treatment of foreign lending, and conduct an efficient supervisory review of transfer risks. The related examination procedures ensure that both the supervisory agencies and bank management recognize significant transfer risks when evaluating concentrations and the overall condition of the bank.

# Treasury and Federal Reserve Foreign Exchange Operations

This quarterly report, covering the period November 1988 through January 1989, provides information on Treasury and System foreign exchange operations. It was presented by Sam Y. Cross, Manager of Foreign Operations of the System Open Market Account and Executive Vice President in charge of the Foreign Group of the Federal Reserve Bank of New York. Christopher Rude was primarily responsible for preparation of the report.<sup>1</sup>

The dollar moved lower in November, continuing the decline against most major currencies that had begun in late September. The dollar then gradually found support at the end of November and recovered through most of December and January to return to levels that had prevailed in the autumn. The U.S. monetary authorities intervened to resist the dollar's decline in November and early December and to resist the dollar's rise in January.

The reversal of the dollar's downward momentum during the period reflected shifts in the market's assessment of the strength of the U.S. economy, of the prospects for exchange rate and monetary policies in the United States and elsewhere, and of the effectiveness of the U.S. administration in dealing promptly with pressing economic issues.

#### THE DOLLAR'S DECLINE IN NOVEMBER

When the three-month period opened in November, market sentiment toward the dollar was decidedly negative. With statistics released in October suggesting that U.S. economic expan-

sion might be moderating, market participants assumed that U.S. monetary policy would not be tightened further. They expected that the interest differentials that had attracted inflows into dollardenominated assets might not continue to be so favorable. Moreover, concerns about the pace of international adjustment had been aroused by recent trade figures. Not only had the trade surpluses of Germany and Japan showed renewed strength, but also the U.S. trade figures released in mid-October showed that the U.S. trade deficit had widened in August. Market participants began to doubt that the substantial trade improvement the United States had experienced during early 1988 would continue. In addition, market participants expressed growing impatience with the lack of progress being made in reducing the U.S. fiscal deficit and with what seemed to be a lack of urgency given to the issue during the 1988 election campaign.

The dollar's decline through October gained momentum late in the month, especially against the yen. Some Japanese investors sold dollars to protect the yen value of their assets against a further drop in the dollar, and many Japanese exporters hedged their dollar receivables well into 1989. The Japanese currency benefited, too, from a favorable market assessment of the ease with which the Japanese economy had shifted from an emphasis on external demand to one on domestic demand, as well as from Japan's ability, as a major oil importer, to benefit from declining oil prices.

By the beginning of November, the dollar had given up most of its midyear gain against the yen to trade at ¥125.65. The U.S. monetary authorities continued the intervention operations started at the end of October to counter downward pressure on the dollar. These operations involved purchases totaling \$350 million against yen during the first two days of November.

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

i.	Federal	Reserve	reciprocal	currency	arrangements
	Millions of	f dollars			

Institution	Amount of facility, January 31, 1989
Austrian National Bank National Bank of Belgium Bank of Canada National Bank of Denmark Bank of England Bank of France German Federal Bank Bank of Italy Bank of Japan	250 1,000 2,000 250 3,000 2,000 6,000 3,000 5,000
Bank of Mexico Netherlands Bank Bank of Norway Bank of Sweden Swiss National Bank	700 500 250 300 4,000
Bank for International Settlements Dollars against Swiss francs Dollars against other authorized European currencies	600 1,250
Total	30,100

At the time of the presidential election in the United States, sentiment toward the dollar became even more negative after comments by foreign officials brought the U.S. budget deficit issue back onto center stage. Market participants questioned whether a new administration could successfully negotiate a budget compromise with a Congress controlled even more than before by the opposition party. Market participants were also skeptical that the Group of Seven (G-7) countries would remain committed to exchange rate stability after additional comments from abroad indicated that other countries' intervention operations to support the dollar might come into conflict with the efforts of the G-7 to keep their own domestic inflation rates under control. The dollar continued to come under selling pressure, and, in the period from November 9 through November 16, the U.S. monetary authorities purchased another \$625 million against yen in coordination with the Bank of Japan. U.S. and other G-7 officials also made statements expressing continuing official commitment to exchange rate stability.

Although the dollar benefited temporarily from these actions, it remained under pressure during the rest of November. The release of October U.S. retail sales and industrial production figures indicating that economic growth in the United States continued to be strong, as well as a rise in

short-term dollar interest rates, had little positive impact on market sentiment. The U.S. trade report on November 16, showing that the trade deficit had narrowed in September and suggesting that the market's earlier concerns about the pace of international adjustment might have been exaggerated, was also largely ignored.

Near the middle of the month, the selling pressure on the dollar intensified, and the U.S. monetary authorities broadened their intervention operations to include the mark. Between November 17 and December 2, the U.S. authorities purchased a total of \$630 million against marks and a further \$795 million against yen in a series of intervention operations that were conducted in cooperation with the Bank of Japan, the Bundesbank, and other foreign central banks. The dollar reached its lows of the reporting period on November 25 at ¥120.65 against the yen and DM1.7085 against the mark. At these levels, the dollar was more than 4 percent lower against the yen and the mark from its level at the beginning of November and roughly 11½ percent lower than its autumn highs. Although the dollar had declined by comparable amounts against both currencies, against the yen it was only marginally higher than its record low of ¥120.20, reached on January 4, 1988.

### STABILIZATION AND RECOVERY IN DECEMBER

Market participants gradually came to believe that the G-7 monetary authorities were still committed to exchange rate stability. The authorities were seen as showing a consistent presence in the exchange market.

At the same time, market participants sensed from policy decisions taken by foreign central banks—including an increase of 1 percentage point in base lending rates in the United Kingdom on November 25—that containing potential inflationary pressures worldwide was a policy priority. Against this background, U.S. economic statistics that had been released earlier and that revealed unexpected strength in the economy were seen in a different light. Market participants were also impressed by the strong labor market statistics for November released in

Central bank drawing on the U.S. Treasury	Amount of facility	Outstanding, October 31, 1988	November	December	January	Outstanding, January 31, 1989
Central Bank of the Argentine Republic National Bank of Yugoslavia Central Bank of Brazil	265.0 50.0 250.0	0 0 0	47.7 *	0 	-46.9 · · ·	.8 

# 2. Drawings and repayments by foreign central banks under special swap arrangement with the U.S. Treasury<sup>1</sup> Millions of dollars; drawings or repayments (-)

early December. Noting that short-term dollar interest rates had firmed during November, they came to believe that the Federal Reserve might soon tighten its stance again, either via money market operations or by raising the discount rate.

In addition, market participants were impressed with the extent to which the dollar rallied when a speech by Soviet General Secretary Gorbachev, at the United Nations on December 7, proposing Soviet arms reductions, was temporarily seen as providing scope for the United States to reduce its budget deficit through defense spending cuts. Even though the euphoria of the moment quickly passed, the episode created a renewed sense of two-way market risk.

Under these circumstances, the foreign exchange market slowly shed its negative view of the dollar during the rest of December. Many market participants, who during October and November had postponed purchasing dollars for commercial and investment purposes, began to reenter the market. At the same time, investors who had previously increased their hedging of dollar exposures now lowered their hedge ratios, taking note of the widening of interest rate differentials favoring dollar assets and the increased costs of hedging. The dollar's gradual recovery did not waiver in mid-December when the Bundesbank increased its Lombard rate by ½ percentage point, and several other European central banks also announced increases in their key lending rates. Instead, with the year-end approaching, demand for dollars from bank customers and by bank dealers themselves, who moved to square positions in increasingly thin markets, kept the dollar relatively well bid. Although dealers were skeptical that the dollar's firmer tone would carry over into the new year, the dollar closed the year at DM1.7725 against

the mark and ¥124.85 against the yen, 3½ percent higher than its lows of late November.

#### THE DOLLAR'S RISE IN JANUARY

In January, sentiment toward the dollar grew bullish. Actions and statements in the political sphere contributed to a sense of optimism about the new administration. Signs of Federal Reserve tightening early in the month added to the dollar's upward momentum. As January progressed, several reports showing continued strength in the U.S. economy, together with Chairman Greenspan's reiteration in congressional testimony of the Federal Reserve's concern about the dangers of inflation, supported expectations that dollar interest rates would continue to firm. Also, the market interpreted certain statements by foreign officials as implying a readiness of the G-7 industrial nations to tolerate a further appreciation of the dollar. In this atmosphere, market participants shrugged off the report on January 18 of a sharp rise in the U.S. trade deficit in November.

As the dollar moved up through levels not seen for several months, market participants continued to reduce their dollar hedges and reverse commercial leads and lags. Moreover, investors noted the relatively good performance of the dollar through 1988, and reports circulated of widespread Japanese and European interest in buying dollar-denominated securities. In the process, bidding for dollars became at times quite strong. The force of the dollar's rise was directed particularly against the German mark and other European currencies.

By mid-January the dollar had moved up to DM1.8713 against the mark and ¥128.52 against the yen. On January 19, the Bundesbank an-

<sup>1.</sup> Data are on a value-date basis.

<sup>\*</sup>No facility.

3. Net profits or losses (-) on U.S. Treasury and Federal Reserve current foreign exchange operations, November 1, 1988–January 31, 1989<sup>1</sup>

Millions of dollars

Item	Federal Reserve	U.S. Treasury Exchange Stabilization Fund
Realized	155.3	155.4
on outstanding assets and liabilities as of January 31, 1989	1,004.8	789.4

1. Data are on a value-date basis.

nounced a further increase of ½ percentage point in its Lombard rate and a similar increase in its discount rate. Several other European central banks also raised key lending rates. The rate increases, supported by coordinated intervention, injected a note of caution in the market, and, for a time, the dollar's upward momentum stalled. But the dollar soon resumed its rise to reach its period highs of DM1.8795 against the mark and ¥130.55 against the yen on January 31. It thus closed the three-month reporting period 5 percent higher against the mark and 3½ percent higher against the yen relative to its levels at the start of November. On a trade-weighted basis, as measured by the staff of the Federal Reserve Board, it was 4 percent higher on balance.

As the dollar moved up in January, the U.S. monetary authorities intervened to counter the rise. From January 6 to January 27, the U.S. authorities intervened on 12 days to sell a total of \$1,880 million against marks in coordination with the Bundesbank and other foreign central banks.

In summary, for the period as a whole, the U.S. monetary authorities purchased a total of \$2,400 million during November and December—\$1,770 million against Japanese yen and \$630 million against German marks—and sold \$1,880 million against German marks during January. The U.S. Treasury, through the Exchange Stabilization Fund (ESF), and the Federal Reserve participated equally in the financing of all intervention operations.

The ESF also received \$62.2 million equivalent of Japanese yen in principal repayments and interest payments under the Supplementary Financing Facility of the International Monetary Fund.

For the November-January period, the Federal Reserve and the Treasury realized profits of \$155.3 million and \$155.4 million respectively. As of the end of January 1989, cumulative bookkeeping or valuation gains on outstanding foreign currency balances were \$1,004.8 million for the Federal Reserve and \$789.4 million for the ESF. These valuation gains represent the increase in the dollar value of outstanding currency assets valued at end-of-period exchange rates, compared with the rates prevailing at the time the foreign currencies were acquired.

The Federal Reserve and the ESF regularly invest their foreign currency balances in a variety of instruments that yield market-related rates of return and that have a high degree of quality and liquidity. A portion of the balances is invested in securities issued by foreign governments. As of the end of January 1989, holdings of such securities by the Federal Reserve amounted to \$1,457.9 million equivalent, and holdings by the ESF amounted to the equivalent of \$1,821.3 million.

In other operations, on November 22, 1988, the Central Bank of the Argentine Republic drew \$79.5 million from a \$265 million swap facility with the ESF. This facility was provided as part of a \$500 million short-term financing package arranged in October 1988 by a number of monetary institutions. Argentina repaid \$31.8 million on November 23, 1988, and \$46.9 million on January 26, 1989.

ESF short-term facilities with the Central Bank of Brazil and the National Bank of Yugoslavia expired in November 1988. There was no activity in either facility during the period.

### Staff Studies

The staff members of the Board of Governors of the Federal Reserve System and of the Federal Reserve Banks undertake studies that cover a wide range of economic and financial subjects. From time to time the results of studies that are of general interest to the professions and to others are summarized in the FEDERAL RESERVE BULLETIN.

The analyses and conclusions set forth are those of the authors and do not necessarily indicate concurrence by the Board of Governors, by the Federal Reserve Banks, or by the members of their staffs.

Single copies of the full text of each of the studies or papers summarized in the BULLETIN are available without charge. The list of Federal Reserve Board publications at the back of each BULLETIN includes a separate section entitled "Staff Studies" that lists the studies that are currently available.

#### STUDY SUMMARY

M2 PER UNIT OF POTENTIAL GNP AS AN ANCHOR FOR THE PRICE LEVEL

Jeffrey J. Hallman, Richard D. Porter, and David H. Small-Staff, Board of Governors

Prepared as a staff study in the winter of 1988-89

The velocities of the monetary aggregates have been quite variable during the current decade, leading some economists to conclude that the monetary authority cannot use any of the aggregates as a reliable anchor for the price level. This study questions that conclusion as it applies to M2: its velocity relative to the gross national product, while somewhat variable in the short run, has shown a flat trend over most of the twentieth century. This stability has likely stemmed in recent years from the flexibility of most rates paid on M2 deposits and, in earlier decades, from the flexible administration of Regulation Q and the introduction of new instruments. As a consequence of this stability, a comparatively reliable long-run link between M2 and the price level exists.

The study's analysis of M2 and prices starts with the question, What long-run price level will current holdings of M2 support? The long-run equilibrium price level,  $P^*$ , is defined as being consistent with the current value of M2 when V2

is at its long-run level,  $V^*$ , and when real GNP is at its long-run potential level,  $Q^*$ . Algebraically,

$$P^* = \frac{M2 \cdot V^*}{Q^*} \, .$$

Thus,  $P^*$  is proportional to M2 per unit of potential output. Operationally, the mean of V2 since 1955:1 is used as the estimate of  $V^*$ .

Discrepancies between the long-run equilibrium price level,  $P^*$ , and the actual price level, P, drive the inflation process. The relationship is best modeled as an equation in which, with a lag,  $P - P^*$  determines the change in the inflation rate (the acceleration or deceleration of the price level). If  $P^*$  is greater than P, then the current level of M2, if maintained, will eventually yield an acceleration of prices. If  $P^*$  is below P, then maintaining the current level of M2 will eventually yield a deceleration.

This approach to forecasting inflation allows one to disregard forecasts of interest rates, exchange rates, fiscal policy, real output, and the like. It requires estimates of the future courses of only M2, potential real GNP, and long-run velocity and thus provides a framework in which the future price level is determined by the level of M2.

The model forecasts well over periods of one year or longer, even outside various periods over which it has been estimated. In particular, the model outperforms a simple version of the more traditional approach that relates changes in inflation to the "output gap." Moreover, the model's coefficients are stable over a 33-year period.

Over periods of less than one year, factors outside the model—wage trends, interest rates, foreign exchange movements, and the gap between real and potential output—are of great importance in the inflation process and remain

essential to the assessment of short-run inflationary developments. Another limitation of the approach concerns the future long-run value of V2; permanent shifts in V2 are always a possibility, especially if significant progress is made toward price stability and, correspondingly, nominal interest rates decline markedly.

But the potential shortcomings of M2 should not deflect attention from the need for an analytic framework within which to formulate a long-term policy strategy and evaluate progress toward long-run price stability. In this regard,  $P^*$  appears to be a simple empirical guidepost that can help the monetary authorities track the implications of short- and intermediate-term policies for achieving the long-term objective of stable prices.

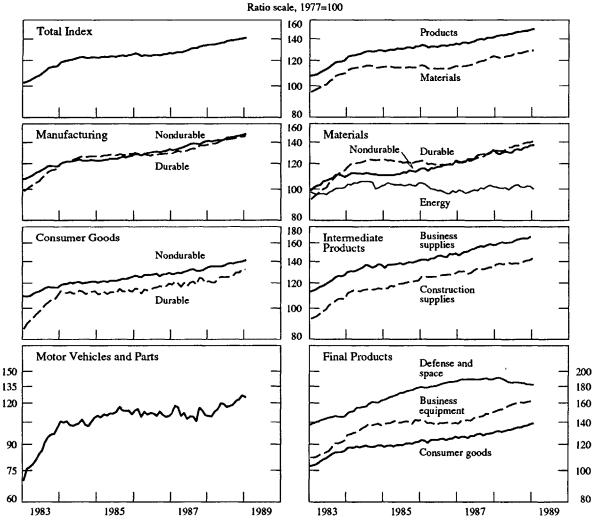
### **Industrial Production**

#### Released for publication February 15

Industrial production increased 0.3 percent in January, after having risen a revised 0.5 percent in December. Total manufacturing output posted another gain of 0.5 percent in January, while production at mines and utilities declined. Among market groups, the most significant increases in January occurred in nondurable con-

sumer goods, construction supplies, and durable materials. In contrast, output of motor vehicles fell sharply in January, retracing some of the large increases registered in December. At 141.1 percent of the 1977 average, the total index in January was 5.0 percent higher than it was a year earlier.

In market groups, the output of consumer goods rose in January, primarily reflecting wide-



All series are seasonally adjusted. Latest series: January.

	1977 :	= 100	Percentage change from preceding month					Percentage change, Jan. 1988 to Jan.
Group	1989		1988				1989	
	Dec.	Jan.	Sept.	Oct.	Nov.	Dec.	Jan.	1989
	Major market groups							
Total industrial production	140.6	141.1	.1	.6	.3	.5	.3	5.0
Products, total.  Final products.  Consumer goods  Durable.  Nondurable.  Business equipment  Defense and space.  Intermediate products.  Construction supplies.  Materials	149.4 147.6 138.0 132.1 140.2 162.0 182.3 155.4 141.4 128.7	150.1 148.2 138.9 132.2 141.3 162.5 181.9 156.8 143.4 128.7	.1 .0 1 .5 3 .4 2 .4 .2	.5 .4 1.2 2.4 .7 4 3 .7 1.2	.2 .2 .2 1 .3 .6 8 .1 .7	.7 .6 1.0 2.2 .6 .5 1 .8 .3	.5 .4 .6 .1 .8 .3 2 .9 1.4	5.2 5.0 5.8 8.6 4.9 7.5 -4.6 5.8 4.8
	Major industry groups							
Manufacturing Durable Nondurable Mining Utilities	146.6 146.0 147.6 104.5 114.1	147.4 146.5 148.6 103.3 113.2	.3 .4 .1 .0 -4.0	.6 .6 .7 6	.4 .5 .3 1.3 7	.5 .5 .6 .1	.5 .3 .7 -1.2 8	5.7 6.2 5.1 .0 1.7

NOTE. Indexes are seasonally adjusted.

spread gains in nondurable consumer goods. Automobile assemblies decreased to an annual rate of 7.5 million units from a rate of 7.9 million units in December; however, the output of trucks for consumer use continued to rise. The output of total business equipment, which decelerated noticeably in the fourth quarter of 1988, rose 0.3 percent in January. The composition of the gain in production in January differed significantly from that of recent months. Transit equipment, which posted a huge increase in the fourth quarter of last year, fell sharply in January as the output of motor vehicles for business use

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

Month	Index (19	977=100)	Percentage change from previous months		
	Previous	Current	Previous	Current	
Oct Nov Dec Jan.	139.3 139.8 140.2	139.4 139.9 140.6 141.1	.5 .4 .3	.6 .3 .5	

dropped. However, a pickup in the production of both manufacturing and commercial equipment more than offset the decline in transit equipment. The output of materials was unchanged, on balance, in January. Both durable and nondurable materials posted gains, as steel and chemicals advanced. But output of energy materials decreased nearly 2 percent, reflecting declines in coal mining, crude oil extraction, and electricity generation.

In industry groups, within manufacturing, production of all major industries, except transportation equipment and paper, rose in January. Production at utilities was down 0.8 percent, mainly reflecting the unusually mild weather in January, and mining output declined 1.2 percent.

Capacity utilization in total industry for January was estimated at 84.4 percent, the same as in December. In manufacturing, capacity utilization for January was 84.8 percent, 0.2 percentage point higher than it was in December, and 2.1 percentage points higher than it was a year earlier. Detailed data for capacity utilization are shown separately in "Capacity Utilization," Federal Reserve monthly statistical release, G3.

# Statements to Congress

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Ways and Means, U.S. House of Representatives, February 2, 1989.

I am pleased to be here today to discuss corporate restructuring and the need for reducing the federal budget deficit, issues raised in your letter of invitation.

## CORPORATE RESTRUCTURING AND LEVERAGING

The spate of mergers, acquisitions, leveraged buyouts (LBOs), share repurchases, and divestitures in recent years has major implications for the American economy. While the evidence suggests that the restructurings of the 1980s probably are improving, on balance, the efficiency of our economy, the worrisome and possibly excessive degree of leveraging associated with this process could create a set of new problems for the financial system.

Corporate restructuring is not new to American business. It has long been a feature of our enterprise system, a means by which firms adjust to everchanging product and resource markets and to perceived opportunities for gains from changes in management and management strategies.

However, the 1980s have been characterized by features not present in previous episodes. The recent period has been marked not only by acquisitions and mergers but also by significant increases in leveraged buyouts, divestitures, asset sales, and share repurchase programs. In many cases, recent activity reflects the breakup of the big conglomerate deals packaged in the 1960s and 1970s. Also, the recent period has been characterized by the retirement of substantial amounts of equity (more than \$500 billion since 1983) mostly financed by borrowing in the credit markets.

The accompanying increase in debt has resulted in an appreciable rise in leverage ratios for many of our large corporations. Aggregate book value debt-equity ratios, based on balance sheet data for nonfinancial firms, have increased sharply in the 1980s, moving outside their range in recent decades, although measures based on market values have risen more modestly.

Along with this debt expansion, the ability of firms in the aggregate to cover interest payments has deteriorated. The ratio of gross interest payments to corporate cash flow before interest provision is currently about 35 percent, close to the 1982 peak when interest rates were much higher and profits were weak owing to the recession. Lately, profits have been fairly buoyant; the current deterioration has been due to heavier debt burdens.

A measure of credit quality erosion is suggested by an unusually large number of downgradings of corporate bonds in recent years. The average bond rating of a large sample of firms has declined fairly significantly since the late 1970s, from A+ to A-.

To fashion an appropriate policy response, if any, to this extraordinary restructuring-LBO phenomenon, there are some key questions that must be answered: What is behind the corporate restructuring movement? Why is it occurring now, in the middle and late 1980s, rather than in some earlier time? Why has it involved such a broad leveraging of corporate balance sheets? And finally, has it been good or bad for the American economy?

The 1980s has been a period of dramatic economic changes: large swings in the exchange value of the dollar, with substantial consequences for trade-dependent industries; rapid technological progress, especially in automation and telecommunications; rapid growth in the service sector; and large movements in real interest rates and relative prices. Clearly, such changes in the economic environment imply ma-

jor, perhaps unprecedented, shifts in the optimal mix of assets at firms—owing to corresponding shifts in synergies—and new opportunities for improving efficiency. Some activities need to be shed or curtailed, and others added or beefed up. Moreover, the long period of slow productivity growth in the 1970s may have partly exacerbated the buildup of a backlog of inefficient corporate practices.

When assets become misaligned or less than optimally managed, there is clearly an increasing opportunity to create economic value by restructuring companies, restoring what markets perceive as a more optimal mix of assets. But restructuring requires corporate control. And managers, unfortunately, often have been slow in reacting to changes in their external environment, some more so than others. Hence, it shouldn't be a surprise that, in recent years, unaffiliated corporate restructurers, some call them corporate raiders, have significantly bid up the control premiums over the passive investment value of companies that are perceived to have suboptimal asset allocations. If a company has an optimal mix and is appropriately managed, there is no economic value to be gained from restructuring and, hence, no advantage in obtaining control of a company for such purposes. In that case, there is no incentive to bid up the stock price above the passive investment value based on its existing, presumed optimal, mix of assets. But in an economy knocked partially off kilter by real interest rate increases and gyrations in foreign exchange and commodity prices, there emerge significant opportunities for value-creating restructuring at many companies.

This presumably explains why common stock tender offer prices of potential candidates for restructuring have risen significantly during the past decade. Observed stock prices generally (though not always) reflect values of shares as passive investments. But there can be, for any individual company, two or more prices for its shares, reflecting the degree of control over a company's mix of assets.

Tender-offer premiums—which represent the price that active investors are willing to pay for corporate control—ranged from 13 percent to 25 percent in the 1960s, but have moved to 45

percent and higher during the past decade, underscoring the evident increase in the perceived profit to be gained from corporate control and restructuring.

Interest in restructuring also has been spurred by the apparent increased willingness and ability of corporate managers and owners to leverage balance sheets. The gradual replacement of managers who grew up in the Depression and developed a strong aversion to bankruptcy risk probably accounts for some of the increased proclivity to issue debt now.

Moreover, innovations in capital markets have made the increased propensity to leverage feasible. It is now much easier than it used to be to mobilize tremendous sums of debt capital for leveraged purchases of firms. Improvements in the loan-sale market among banks and the greater presence of foreign banks in U.S. markets have greatly increased the ability of the banking sector to participate in merger and acquisition transactions. The phenomenal development of the market for low-grade corporate debt, so-called junk bonds, also has enhanced the availability of credit for a wide variety of corporate transactions. The increased liquidity of this market has made it possible for investors to diversify away firm-specific risks by building portfolios of such debt.

The tax benefits of restructuring activities are, of course, undeniable, but this is not a particularly new phenomenon. Our tax system has long favored debt finance by taxing the earnings of corporate debt capital only at the investor level, while earnings on equity capital are taxed at both the investor and corporate levels. There have been other sources of tax savings in mergers that do not depend on debt finance, involving such items as the tax basis for depreciation and foreign tax credits. And taxable owners benefit when firms repurchase their own shares, using what is, in effect, a tax-favored method of paying cash dividends. In any event, the recent rise in restructuring activity is not easily tied to any change in tax law.

Evidence about the economic consequences of restructuring is beginning to take shape, but much remains conjectural. It is clear that the markets believe that the recent restructurings are potentially advantageous. Estimates range from

\$200 billion to \$500 billion or more in paper gains to shareholders since 1982. Apparently, only a small portion of that has come at the expense of bondholders. These gains are reflections of the expectations of market participants that the restructuring will, in fact, lead to a better mix of assets within companies and greater efficiencies in their use. This, in turn, is expected to produce marked increases in future productivity and, hence, in the value of American corporate business. Many of the internal adjustments brought about by changes in management or managerial policies are still being implemented, and it will take time before they show up for good or ill in measures of performance.

So far, various pieces of evidence indicate that the trend toward more ownership by managers and tighter control by other owners and creditors has generally enhanced operational efficiency. In the process, both jobs and capital spending in many firms have contracted as unprofitable projects are scrapped. But no clear trends in these variables are yet evident in restructured firms as a group. For the business sector, generally, growth of both employment and investment has been strong.

If what I have outlined earlier is a generally accurate description of the causes of the surge in restructurings of the past decade, one would assume that a stabilization of interest rates, exchange rates, and product prices would slow the emergence of newly misaligned companies and opportunities for further restructuring. Such a development would presumably lower control premiums and reduce the pace of merger, acquisition, and LBO activity.

This suggests that the most potent policies for defusing the restructuring-LBO boom over the long haul are essentially the same macroeconomic policies toward budget deficit reduction and price stability that have been the principal policy concerns of recent years.

Whatever the trends in restructuring, we cannot ignore the implications of the associated heavy leveraging for broad-based risk in the economy. Other things equal, greater use of debt makes the corporate sector more vulnerable to an economic downturn or a rise in interest rates. The financial stability of lenders, in turn, also may be affected. How much is another question.

The answer depends greatly on which firms are leveraging, which financial institutions are lending, and how the financings are structured.

Most of the restructured firms appear to be in mature, stable, noncyclical industries. Restructuring activity has been especially prevalent in the trade, services, and, more recently, the food and tobacco industries. For such businesses, a substantial increase in debt may raise the probability of insolvency by only a relatively small amount. However, roughly two-fifths of merger and aquisition activity, as well as LBOs, have involved companies in cyclically sensitive industries that are more likely to run into trouble in the event of a severe economic downturn.

Lenders to leveraged enterprises have been, in large part, those that can most easily absorb losses without major systemic consequences. They include mutual funds, pension funds, and insurance companies, which generally have diversified portfolios and have traditionally invested in securities involving some risk, such as equities. To the extent that such debt is held by individual institutions that are not well diversified, there is some concern. At the Federal Reserve, we are particularly concerned about the increasing share of restructuring loans made by banks. Massive failures of these loans could have broad ramifications.

Generally, we must recognize that the line between equity and debt has become increasingly fuzzy in recent years. Convertible debt has always had an intermediate character, but now there is almost a continuum of securities varying in their relative proportions of debt and equity flavoring. Once there was a fairly sharp distinction between being unable to make interest payments on a bond, which frequently led to liquidation proceedings, and merely missing a dividend. Now the distinction is smaller. Outright defaults on original issue high-yield bonds have been infrequent to date, but payment difficulties have led to more frequent exchanges of debt that reduce the immediate cash needs of troubled firms. Investors know when they purchase such issues that the stream of payments received may well differ from the stream promised, and prices tend to move in response to changes in both debt and equity markets. In effect, the yields on debt capital rise toward that of equity capital when scheduled repayments are less secure.

In view of these considerations, and the very limited evidence on the effects of restructuring at the present time, it would be unwise to restrict arbitrarily corporate restructuring. We must resist the temptation to seek to allocate credit to specific uses through the tax system or through the regulation of financial institutions. Restrictions on the deductibility of interest unavoidably involve an important element of arbitrariness, one that will affect not only those types of lending intended but other types as well. Moreover, foreign acquirers could be given an artificial edge to the extent that they could avoid these restrictions. Also, the historical experience with various types of selective credit controls clearly indicates that, in time, borrowers and lenders find ways around them.

All that does not mean that we should do nothing. The contribution of our tax structure to corporate leveraging warrants attention. The double taxation of earnings from corporate equity capital has added to leveraging, and thus debt levels are higher than they need, or should, be. Our options for dealing with this distortion are, unfortunately, constrained severely by the federal government's still serious budget deficit problems, a matter that I will turn to in a moment. One straightforward approach to this distortion, of course, would be to substantially reduce the corporate income tax. Alternatively, partial integration of corporate and individual income taxes could be achieved by allowing corporations a deduction for dividends paid or by giving individuals credit for taxes paid at the corporate level. But these changes taken alone would result in substantial revenue losses; a rough estimate of IRS collections from taxing dividends is in the range of \$20 billion to \$25 billion annually.

Dangers of risk to the banking system associated with high debt levels also warrant attention. As I have noted, the Federal Reserve, in its role as a supervisor of banks, has particular concerns in this regard. In 1984, the Board issued supervisory guidelines for assessing LBO-related loans, which are set forth in an attachment to my text. These guidelines emphasized that the circumstances associated with highly leveraged

deals require that creditors exercise credit judgment with special care, assessing those risks that are firm-specific as well as those common to all highly leveraged firms. The Federal Reserve is currently in the process of reviewing guidelines regarding the evaluation of bank participation in highly leveraged financing transactions; we anticipate that this review will be completed shortly.

#### THE BUDGET DEFICIT AND THE ECONOMY

The remainder of my prepared remarks will concentrate on the budget deficit and the corrosive impact it is having on the economy.

It is beguiling to contemplate the strong economy of recent years in the context of very large deficits and to conclude that the concerns about the adverse effects of the deficit on the economy have been misplaced. But this argument is fanciful. The deficit already has begun to eat away at the foundations of our economic strength. And the need to deal with it is becoming ever more urgent. To the extent that some of the negative effects of deficits have not as yet been felt, they have been merely postponed, not avoided. Moreover, the scope for further such avoidance is shrinking.

To some degree, the effects of the federal budget deficits over the past several years have been muted by two circumstances, both of which are currently changing rapidly. One was the rather large degree of slack in the economy in the early years of the current expansion. This slack meant that the economy could accommodate growing demands from both the private and public sectors. In addition, to the extent that these demands could not be accommodated from U.S. resources, we went abroad and imported them. This can be seen in our large trade and current account deficits. By now, however, the slack in the U.S. economy has diminished substantially. And as inflows of foreign saving are reduced along with our trade deficit, other sources of saving must be found, or demands for

<sup>1.</sup> The attachments to this statement are available on request from publications Services, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.

saving curtailed. The choices are limited; as will become clear, the best option for the American people is a further reduction in the federal budget deficit, and the need for such reduction is becoming more pressing.

Owing to significant efforts by the executive branch and the Congress, coupled with strong economic growth, the deficit has shrunk from 5 percent to 6 percent of gross national product a few years earlier to about 3 percent of GNP today. Such a deficit, nevertheless, is still very large by historical standards. Since World War II, the actual budget deficit has exceeded 3 percent of GNP only in the 1975 recession period and in the recent deficit experience beginning in 1982. On a cyclically adjusted or structural basis, the deficit has exceeded 3 percent of potential GNP only in the period since 1983.

Government deficits, however, place pressure on resources and credit markets, only if they are not offset by saving elsewhere in the economy. If the pool of private saving is small, federal deficits and private investment will be in keen competition for funds, and private investment will lose.

The U.S. deficits of recent years are threatening precisely because they have been occurring in the context of private saving that is low by both historical and international standards. In the 1980s, net personal plus business saving in the United States has been about 3 percentage points lower relative to GNP than its average in the preceding three decades. Internationally, government deficits have been quite common among the major industrial countries in the 1980s, but private saving rates in most of these countries have exceeded the deficits by very comfortable margins. In Japan, for example, less than 20 percent of its private saving has been absorbed by government deficits, even though the Japanese general government has been borrowing almost 3 percent of its gross domestic product in the 1980s. In contrast, more than half of private U.S. saving in the 1980s has been absorbed by the combined deficits of the federal and state and local sectors.

Under these circumstances, such large and persistent deficits are slowly but inexorably damaging the economy. The damage occurs because deficits tend to pull resources away from net private investment, which damps the growth of the nation's capital stock. This, in turn, has meant less capital per worker than would otherwise have been the case, and this will surely engender a shortfall in labor productivity growth and, with it, a shortfall in growth of the standard of living.

All else equal, the higher real interest rates associated with increased borrowing by the Treasury in the 1980s have reduced private investment in the aggregate. Moreover, the higher real interest rates have shifted the composition of investment away from long-lived assets, such as factories, toward computers and other shorter-lived equipment. The data also underscore a recent decline in the average service life of consumption as well as investment goods and a systematic tendency for this average to move inversely with real rates of interest. That is, the higher are real interest rates, the heavier is the concentration on short-lived assets.

Not surprisingly, we have already experienced a disturbing decline in the level of net investment as a share of GNP. Net investment has fallen to 4.7 percent of GNP in the 1980s from an average level of 6.7 percent in the 1970s and even higher in the 1960s. Moreover, it is low, not only by our own historical standards, but by international standards as well.

International comparisons of net investment should be viewed with some caution because of differences in the measurement of depreciation and in other technical details. Nevertheless, the existing data do indicate that total net private and public investment as a share of gross domestic product over the period between 1980 and 1986 was lower in the United States than in any of the other major industrial countries except the United Kingdom.

It is important to recognize, as I indicated earlier, that the negative effects of federal deficits on growth in the capital stock may be attenuated for a while by several forces in the private sector. One is a significant period of output growth in excess of potential GNP growth—such as occurred over much of the past six years—which undoubtedly boosts sales and profit expectations and, hence, business investment. Such rates of output growth, of course, cannot persist, making this factor inherently temporary in nature.

Another factor tending to limit the decline in investment spending would be any tendency for saving to respond positively to the higher interest rates that deficits would bring. The supply of domestic private saving has some interest elasticity, as people put off spending when borrowing costs are high and returns from their financial assets are favorable. But most analysts find that this elasticity is not sufficiently large to matter much.

Finally, net inflows of foreign saving can be, as recent years have demonstrated, an important addition to saving. In the 1980s, our ability to tap foreign saving has kept the decline in the gross investment-GNP ratio, on average, to only moderate dimensions (slightly more than ½ percentage point) compared with the 1970s, while the federal deficit rose about 2½ percentage points relative to GNP. Net inflows of foreign saving

have amounted, on average, to almost 2 percent of GNP, an unprecedented level.

Looking ahead, the continuation of inflows of foreign saving at current levels is questionable. Evidence for the United States and for most other major industrial nations over the past 100 years indicates that such sizable foreign net capital inflows have not persisted and, hence, may not be a reliable substitute for domestic saving on a long-term basis. In other words, domestic investment tends to be supported by domestic saving alone in the long run.

Let me conclude by reiterating that the budget deficit must be brought down. I do not underestimate the difficult decisions that you must make if we are to achieve the necessary reduction in the deficit. But allowing deficits to persist courts a dangerous corrosion of our economy and risks potentially significant reductions over time in our standard of living.

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, February 21, 1989.

I appreciate this opportunity to discuss with you recent monetary policy and our plans for the future. You have received our formal report to the Congress. This morning, I would like to summarize the important points of that report and to place monetary policy in the context of the overall economic and financial situation.

# ECONOMIC AND MONETARY DEVELOPMENTS IN 1988

Last year was a challenging one for monetary policy. Early in the year, uncertainties remained about the impact of the October 1987 worldwide stock market break on the economic expansion and financial system. Given these risks, the Federal Reserve increased the availability of bank

reserves slightly further, adding to the easing put in place immediately after October 19; at the same time we monitored financial and economic indicators closely for any signs that the economic expansion was faltering.

Gradually, however, it became clear that the economic expansion remained well on track and that market confidence was on the mend. Spending was robust, and dwindling margins of unused resources as employment and output registered sizable gains indicated that the balance of risks was shifting in the direction of higher inflation. Consequently, the Federal Open Market Committee applied increased restraint to reserve positions in a series of steps beginning in the spring of 1988 and extending to the current period. In addition, the discount rate was raised from 6 percent to 6½ percent in August.

The policy restraint led to an appreciable rise in short-term market interest rates beginning in spring 1988. Growth of money moderated over the year as rates on deposits lagged the rise in market interest rates. M2 and M3, which were near the upper ends of their target ranges early in the year, slowed considerably in subsequent months and finished the year around the middle of their annual target ranges of 4 percent to 8

<sup>1.</sup> See "Monetary Policy Report to the Congress," FED-ERAL RESERVE BULLETIN, vol. 75 (March 1989), pp. 107-19.

percent. Growth of M1 also was restrained by higher interest rates, slowing to about 4 percent, while the monetary base grew only a bit less rapidly than in 1987, as currency continued to expand at a strong pace. Thus, in both 1987 and 1988, most money measures grew appreciably more slowly than they had in many years. This more moderate pace of monetary expansion has been a necessary aspect of a monetary policy designed to contain inflation and to promote price stability and economic growth over time.

Despite tightening money markets, longerterm interest rates have been remarkably stable. Yields on Treasury bonds, for example, remained in a fairly narrow range around 9 percent for most of the year and have continued in that range so far in 1989. Moreover, the stock market recovered relatively steadily over the year and into 1989. The performance of the bond and stock markets in the face of rising short-term rates seemed to stem from expectations of continued relatively balanced economic expansion in the United States with inflation pressures not likely to intensify. U.S. investments looked attractive under these circumstances, and the dollar's average value against major foreign currencies recovered from the late 1987 plunge and was relatively stable over the course of the year.

The optimism of domestic and foreign investors evident in financial markets reflected the solid performance of the economy and prospects for its continuation. Our gross national product expanded around 31/4 percent in 1988, adjusted for crop losses caused by the drought. Over the year, payroll employment rose 3.7 million. Since the economic expansion began in late 1982, employment in the United States has increased more than 17 million, pushing the unemployment rate below 5½ percent, its lowest level since the mid-1970s. Employment gains in 1987 and 1988 were strong in nearly every major sector of the American economy, including manufacturing, construction, trade, and services. Although in 1988 farmers suffered one of their worst crop losses in this century, the situation in agriculture remains fundamentally much improved from that earlier in the 1980s. Industrial production in manufacturing rose 5½ percent, bringing average capacity utilization to the highest level since the late 1970s. Some industries that had been hit especially hard by the recession of 1981–82 and by the erosion of international competitiveness owing to the rise in the value of the dollar now are considerably improved. Quite a few firms in those industries are operating essentially flat out and experiencing notable profit improvement.

However, last year's economic performance had some disappointing features. The federal budget deficit remained high and our national saving low. This contributed to continued large current account and trade deficits. By keeping pressure on interest rates, the low rate of saving also was a factor behind the performance of business fixed investment last year. Investment slowed from 1987, especially in the second half of the year, even in the face of relatively rapid expansion of production and high levels of capacity utilization.

In addition, overall inflation, in the area of 4 percent to 4½ percent, during 1988 was a little above the general range in which it had fluctuated in the mid-1980s. The drought boosted food prices, adding somewhat to inflation last year, but this was largely offset by a leveling-off of energy prices. Prices of other consumer goods and services accelerated a bit. This acceleration is troubling, especially with inflation already at a level that would be unsatisfactory if it persisted.

Although the step-up in consumer inflation to date has been rather small, some signs have emerged of greater acceleration in broad measures of costs of production. Wage gains accelerated toward the end of last year. Moreover, benefits took an unusually large jump in 1988, boosted in part by a sharp rise in health insurance costs and a hike in social security taxes—both of which add to business costs as directly as do wages. Overall, the employment cost index, a comprehensive measure of hourly wage and benefit rates, rose 5 percent in 1988, up significantly from 1987. Materials inputs also were adding to costs; the producer price index for intermediate materials and supplies excluding food and energy rose about 7 percent over the past year.

### ECONOMIC PROSPECTS AND MONETARY POLICY FOR 1989

On the whole, the economic expansion remains vigorous and unusually well balanced after more

than six years. There are few of the telltale distortions, such as widespread inventory overhangs or constricted profit margins, that typically have signaled the last phases of expansions. But with the economy running close to its potential, the risks seem to be on the side of a further strengthening of price pressures. In these circumstances, the Federal Reserve remains more inclined to act in the direction of restraint than toward stimulus.

The determination to resist any pickup in inflation in 1989 and especially to move over time toward price stability shaped the Committee's decisions with respect to monetary and credit ranges for 1989. The Committee agreed that, particularly in this environment, progress toward these objectives likely will require continuing restraint on growth in money and credit.

To this end, the Committee lowered the range for M2 a full percentage point to 3 percent to 7 percent and reduced the range for M3 ½ percentage point to 3½ percent to 7½ percent. The Committee also lowered the monitoring range for domestic nonfinancial sector debt ½ percentage point to 6½ percentage points to 10½ percentage points. These were the ranges adopted on a tentative basis last June.

We decided to retain the wider, 4-percentagepoint ranges that were adopted in 1988. The relationship of the monetary aggregates to economic performance has been quite variable in the 1980s. The relatively high interest elasticity of the aggregates, even after deregulation, makes them very sensitive to changes in money market conditions, which in turn can respond to developments in the real economy or prices. The resulting potential for sizable movements in velocity requires broader ranges to have reasonable assurance that the targets are consistent with satisfactory economic performance. Considerable uncertainties regarding the effects on the monetary aggregates of the resolution of difficulties in thrift institutions also argue for relatively wide ranges this year. Depending on the pace of asset growth of thrift institutions and changes in their deposit-pricing policies, the composition and growth of their liabilities could vary substantially from past patterns.

For the same reasons, the Committee agreed to continue its current approach to the implemen-

tation of policy, which involves monitoring a variety of economic and financial indicators, including growth of money and debt. In this regard, appropriate growth of M2 and M3 relative to their ranges will be determined in part by developments during the year. At present, it appears that the velocities of M2 and M3 are likely to rise this year, in response to the market interest rate increases to date and unusually sluggish adjustment of deposit rates.

The Federal Reserve expects its policy in 1989 to support continued economic expansion while putting in place conditions for a gradual easing in the rate of inflation over time. However, the wage and price process may have developed some momentum. The central tendency of forecasts made by members of the Federal Reserve Board and presidents of Federal Reserve Banks is for inflation to rise slightly in 1989. But let me stress that the current rate of inflation, let alone an increase, is not acceptable, and our policies are designed to reduce inflation in coming years.

This restraint will involve containing pressures on our productive resources, and, thus, some slowing in the underlying rate of growth of real GNP is likely in 1989. The central tendency of GNP forecasts for this year of Board members and Reserve Bank presidents is 2½ percent to 3 percent; abstracting from the expected rebound from last year's drought losses, real GNP is projected to grow at closer to a 2 percent rate. Net exports are expected to continue to improve in 1989 as we make further progress in reducing our external imbalances, but this implies the need for restraint on domestic demand to contain pressures on our productive resources. With demands for labor growing more in line with expansion of the labor force, the unemployment rate is expected to remain near its recent level over 1989.

### MONETARY POLICY AND LONG-RUN ECONOMIC GROWTH

Maximum sustainable economic growth over time is the Federal Reserve's ultimate objective. The primary role of monetary policy in the pursuit of this goal is to foster price stability. For all practical purposes, price stability means that expected changes in the average price level are small enough and gradual enough that they do not materially enter business and household financial decisions. Price stability contributes to economic efficiency in part by reducing the uncertainties that tend to inhibit investment. Also, it directs resources to productive economic activity that otherwise would tend to be diverted to mitigating the financial effects of inflation.

Price stability—indeed, even preventing inflation from accelerating—requires that aggregate demand be in line with potential aggregate supply. In the long run, that balance depends crucially on monetary policy. Inflation cannot persist without a supporting expansion in money and credit; conversely, price stability requires moderate growth in money—at rates below those prevailing in recent years.

In the short run, demands can fall short of, or run ahead of, available resources, with implications for wage and price pressures and the appropriate stance of monetary policy. By altering reserve conditions and the money supply, and thus interest and exchange rates and wealth positions, monetary policy can assist in bringing about a better match between demand and potential supply and thereby contribute to aggregate price stability.

When the economy is operating below capacity, bringing demand in line with supply can involve real GNP growth that is faster for a time than its long-run potential. For example, in the mid-1980s, the U.S. economy was recovering from a deep recession; with utilization of labor and capital not nearly complete, we were able to bring these resources back into the production process at a pace that substantially exceeded their underlying growth rates. In those circumstances, it is not surprising that growth of real GNP was relatively rapid while inflation performance was reasonably good.

But when the economy is operating essentially at capacity, monetary policy cannot force demand to expand more rapidly than potential supply without adverse consequences. Such an attempt will result in accelerating prices and wages, as producers bid for scarcer, and at the margin less productive, labor and capital. Over time it would result in little if any additional output.

As a result of robust expansion in the last few years, the U.S. economy has absorbed much of its unused labor and capital resources. No one can say precisely which level of resource utilization marks the dividing line between accelerating and decelerating prices. However, the evidence—in the form of direct measures of prices and wages—is clear that we are now in the vicinity of that line.

Thus, policies that foster more economic growth, if such growth is to be sustainable over the long run, should focus on aggregate supply. Aggregate supply depends on the size of the labor force and its productivity. Growth of the labor force basically is a function of increases in population and of individuals' decisions with regard to participation in the labor force. Labor productivity depends partly on the quantity and quality of capital and the overall efficiency in combining labor and capital in the production process. Given projections of likely expansion in the labor force and capital accumulation, most estimates of growth in long-run potential real GNP fall in a range below the average growth rates of real nonfarm GNP experienced over the last couple of years.

Faster growth in real GNP would be possible for a time if we could use more of our labor and plant capacity without putting pressure on wages and prices. Monetary policy is not a useful tool to accomplish this. But microeconomic policies may well be, such as policies designed to improve the match between labor demands and supplies. Conversely, we must be careful to avoid approaches to our national needs that would add unduly to business costs or increase rigidities in labor and product markets. Perhaps most important over the long run, as the composition of production in the U.S. economy continues to evolve, we must intensify our efforts to educate our labor force to be productive in the increasingly high-technology world marketplace.

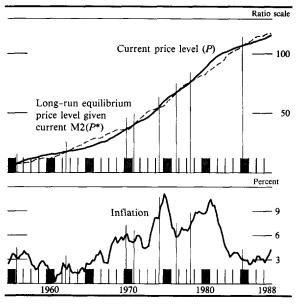
In addition, the United States could improve its longer-run growth prospects by stepping up the pace of capital accumulation. Government policies can contribute to a higher rate of investment. Tax policies can help by ensuring that returns from capital are not taxed excessively or unpredictably. And fiscal policy can help boost the national saving rate.

Ideally, increased national saving would involve some improvement in the *private* saving rate. Household saving is abysmally low in the United States, and business saving has not risen enough to offset that. However, it is not clear that past government policies have been very effective in boosting private saving. Probably the most direct and sure way of increasing saving is by a reduction in government dissaving. The Congress should follow the Gramm-Rudman-Hollings timetable and then seek a budgetary surplus by the mid-1990s.

An improving federal budget position should have a variety of favorable effects. It can pave the way for a reduction in our external imbalance by freeing resources currently absorbed by domestic demand. By putting downward pressure on real interest rates, it can encourage domestic business capital formation and make housing more affordable. It can encourage households and businesses to focus more on the long run in economic planning.

Monetary policy also has a role to play in encouraging capital formation and economic growth over time, by providing a stable price environment. Although the relationship between growth of money and the economy can vary from year to year, over the long haul there is a close relationship between money and prices. Recently, the Board's staff has done some interesting research on this subject. This work indicates that future changes in the rate of inflation have been fairly reliably linked to the difference between the prevailing price level and its equilibrium level. That equilibrium level is calculated at the current level of M2, assuming that real GNP is at its potential and velocity is at its long-run average. As you can see from the chart, inflation apparently tends to accelerate with a lag when actual prices are below the equilibrium value associated with current M2, and to decelerate when above it. This research suggests that despite relatively moderate expansion of M2 in recent years, the equilibrium value still is a little above the current price level, reinforcing the notion that the present risks are on the side of a pickup of inflation. This work also confirms that price stability ultimately will require somewhat slower M2 growth than we have experienced in recent years.

#### Inflation indicator based on M2



The current price level (P, the solid line in the top panel) is the implicit GNP deflator, which is set at 100 in 1982.

The long-run equilibrium price level given current M2  $(P^*, \text{ the dashed line in the top panel})$ , is calculated as  $P^* = (\text{M2} \times V^*)/Q^*$ , where  $V^*$  is an estimate of the long-run value of the GNP velocity of M2—the mean of V2 from 1955:1 to 1988:4—and  $Q^*$  is a Federal Reserve Board staff measure of potential real GNP.

The vertical lines mark the quarters when the difference between the current price level (P) and the long-run equilibrium price level  $(P^*)$  switches sign, and thus when inflation, with a lag, tends to begin accelerating or decelerating.

Inflation (bottom panel) is the percentage change in the implicit GNP deflator from four quarters earlier.

For more details, see Jeffrey Hallman, Richard D. Porter, and David H. Small, M2 Per Unit of Potential GNP as an Anchor for the Price Level, Staff Studies 157 (Board of Governors of the Federal Reserve System, April 1989).

# FINANCIAL DEVELOPMENTS AND MONETARY POLICY

The Federal Reserve recognizes that monetary policy over the coming year will be carried out against the backdrop of a financial system facing certain difficulties. The thrift and Federal Savings and Loan Insurance Corporation situation is perhaps most pressing. The administration has proposed an extensive, workable plan for closing insolvent institutions, improving the regulation and supervision of savings and loan associations, and strengthening the deposit insurance funds. I will be presenting more detailed testimony on this topic before this committee. For now, let me simply encourage you and your colleagues to take the necessary legislative steps to resolve

this situation promptly. There appears to have been little, if any, effect of the savings and loan problem on mortgage availability and housing—thanks in part to financial innovation in the form of the mortgage-backed securities market. However, without quick and effective action the situation could deteriorate.

Developments in the corporate sector warrant close scrutiny as well. The stock market has been recovering over the past 15 months, with few signs as yet of speculative excesses. However, as you know, corporate equity continues to be retired at a startling rate in conjunction with leveraged buyouts and other mergers and restructurings and has involved issuance of a correspondingly large amount of debt. As I have noted in recent congressional testimony, this phenomenon is complex, having both positive and negative dimensions. These restructurings often have added economic value through improved efficiency—an important consideration given the increasingly competitive nature of world markets. But the higher leverage leaves these firms, and potentially their creditors, more vulnerable to financial difficulties in event of a downturn. The Federal Reserve and other federal regulators are instructing bank examiners to review especially carefully loans to highly leveraged firms to maintain a safe and sound banking system.

The international economy also will command the continuing attention of policymakers around the world. Among the industrial countries, greater concern about rising inflation followed the substantial economic growth recorded last year. Meanwhile, the process of adjustment of international imbalances appeared to have slowed somewhat in the second half of last year, and many developing countries continued to face serious problems of achieving sustained economic growth, fostering development, and servicing large external debts.

Some have argued that these financial stresses, taken together, could hamstring the Federal Reserve's anti-inflationary policy. Certainly we have to take account of the effects of our actions on all sectors of the domestic and international economy and on financial markets; at the same time we recognize that monetary policy is not the

instrument to deal with structural financial stresses and imbalances here and abroad—and that attempts to do so may even worsen these problems. Backing away from policy adjustments needed to contain inflation will not solve the thrift problem, make the debt burden of heavily leveraged firms lighter, speed the process of international adjustment, or contribute to a fundamental solution of the economic problems of the developing countries. In fact, the thrift industry's problems, as well as the external debt problems of the developing countries, were exacerbated by the inflation of the 1970s. Attempting to lower interest rates in the short run through more rapid money growth against countervailing market pressures would quickly raise inflationary expectations, leading soon to higher, not lower, interest rates. Instead, the structural financial problems require the prompt application of microeconomically oriented solutions within the supervisory, regulatory, and legal framework. Imbalances in the world economy require the continued, patient application of responsible macroeconomic policies in the United States and in other industrial countries, as well as further progress in economic reforms by the developing countries.

#### **CONCLUSION**

For its part, the Federal Reserve will continue to seek monetary conditions that will reduce inflation. Our major trading partners are following consistent policies in their own economies. Together, these policies should bring about a more stable financial environment and promote longrun worldwide economic growth. Relatively stable long-term nominal interest rates and flattening yield curves around the industrial world are strong evidence that savers and investors are in accord with this view. Monetary policy, at least for the moment, appears on track in the United States. The task is to keep it on track while making necessary adjustments to fiscal policy and reforms to the regulation of financial institutions. In this way we can ensure vigorous and balanced economic conditions over the long run. 

Chairman Greenspan presented identical testimony before the House Committee on Banking, Finance and Urban Affairs, February 22, 1989.

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on Banking, Housing, and Urban Affairs, U.S. Senate, February 23, 1989.

I am pleased to appear today before this committee to outline the views of the Board of Governors of the Federal Reserve System on the legislation proposed by President Bush for the reform and recovery of the thrift industry. The Board supports this comprehensive package of proposals to strengthen the thrift industry, and depository institutions generally, as well as to prevent the serious problems of the thrift industry from recurring.

The proposals in the bill include the following: (1) greatly enhanced supervisory, regulatory, and enforcement authority; (2) a new framework for resolving insolvent thrift institutions; (3) a separate insurance fund for thrift institutions under the administration of the Federal Deposit Insurance Corporation (FDIC), and (4) a strengthening of this new thrift fund, as well as the FDIC fund, through higher premiums.

Besides this legislative program, a number of administrative measures have been taken, or are planned. As a first step to limit losses in insolvent institutions, more than 200 of them will be brought under federal control in the next few weeks. As part of this effort, we are contributing 150 Federal Reserve examiners to the overall task force.

Moreover, to help attract responsible buyers for troubled thrift institutions, and as a result of the important changes in the environment for interstate banking, the Federal Reserve Board intends to reconsider the tandem operations restrictions on applications brought to the Board for acquisitions of failed or failing savings and loan associations. In addition, we have made arrangements with the Federal Home Loan Banks and the Federal Savings and Loan Insurance Corporation (FSLIC) to support these basic sources of liquidity for the thrift industry.

I would like to focus my remarks today on the two major elements of the President's program: (1) the restructuring and reform proposals, and (2) the procedures for dealing with failed savings and loan corporations as well as the funding required to cover losses incurred by these institutions. Before turning to this task, I believe it would be useful to recall why we are facing a thrift problem and to draw some lessons from its causes.

Today's thrift industry losses grew partly out of the vulnerability of a fixed rate, long-term, lender with relatively short-term liabilities, to changes in interest rates. As inflation, and interest rates, rose in the late 1970s and early 1980s and as deposit rate ceilings were phased out, the resulting mismatch on the rising cost of deposit liabilities and the fixed return on mortgage assets produced substantial losses and a serious erosion of industry capital. Into this situation other elements were added. Expanded powers were mixed with inexperienced or dishonest management, brokered deposits that fed unchecked growth, lax accounting standards, and seriously inadequate supervision, all within the context of adverse economic conditions. It is sobering how these factors led so quickly to insolvencies. In a short period, the serious, but manageable, maturity-mismatch problem became the disastrous asset-quality problem that we face today.

In evaluating this situation, I would not limit my emphasis, as some have done, to focusing only on the decline in regional economies and, in particular, on the drop in oil prices. The regional economic problems were real, but in assessing responsibility it is important to recognize that the oversupply in the real estate market in certain areas was at least partially a result of the lending by the savings and loan associations themselves. During the period 1982 to 1985, in the face of declining oil prices, commercial real estate loans of savings and loan associations increased more than \$57 billion (129 percent). In many cases these loans were made with an eye principally

focused on front-end fees, and without any reasonable assurance of repayment.

A comparison with the banking industry is instructive. While the banks do not have real estate equity investment powers, nonrecourse lending by banks for commercial real estate development projects with thin borrower equity positions often puts the bank lenders in a position in which they are very close to equity investors. Taking this into account, it is all the more surprising that the estimated cost of resolving the thrift problems in Texas will run about \$40 billion. In that state, where the economic environment for banks and thrift institutions is identical. the costs for resolving the problems of the banking industry, with assets that are much larger than those of the thrift institutions, should amount to considerably less than \$10 billion. Clearly, the large absolute difference in costs, and the even larger difference in costs relative to assets, is evidence that the thrift industry experienced a systems failure, that is, a major lapse in public and private prudential standards.

To deal with these problems, the new program focuses on the supervisory and regulatory reforms designed to ensure that the mistakes that have so adversely affected the thrift industry, its deposit insurance fund, and the taxpayers will not be repeated. A number of important steps have been proposed.

A new insurance fund for thrift institutions will be established to be administered by the FDIC, separately from the insurance fund for banks, but with special powers for the FDIC to approve applications by thrift institutions for insurance, to make examinations, to initiate enforcement actions, to terminate insurance on an expedited basis, and to prohibit thrift institutions from exercising powers that could cause undue risk to the FSLIC insurance fund.

Moreover, the proposal puts a new emphasis on adequate capital for the thrift industry as a cushion against losses and as a restraint on excessive risktaking. Accordingly, thrift institutions will be required to meet bank capital standards by June 1991, with the exception that they will be given 10 years to write off goodwill. For those institutions that do not meet this standard, growth can be restricted before the 1991 deadline and must be prohibited after this time.

Our estimates indicate that more than a majority of the thrift institutions with positive tangible capital under generally accepted accounting principles (GAAP) standards could meet the existing bank primary capital requirements; on a riskadjusted basis, we estimate that nearly two-thirds would meet bank standards due largely to the favorable risk-weight given to 1- to 4- family residential mortgages under the risk-based measure of capital.

If goodwill were to be immediately excluded from capital, the institutions falling below the standard would have to raise about \$15 billion to \$20 billion in capital to meet bank minimums. However, the proposed legislation, as noted, gives thrift institutions a 10-year period to write off the goodwill; thus, this major capital-raising effort can be spread over several years.

It should be emphasized that if losses continue or accelerate due to further credit deterioration or interest rate exposure, the industry's need for capital could be substantial. Those institutions that cannot meet bank capital standards as set forth in the proposed legislation would necessarily have their growth restricted or may be required to shrink their assets.

The administration's program also takes major steps toward restructuring the thrift supervisory and regulatory framework. Besides separating the insurance and regulatory functions, the proposal would create a new federal thrift regulator. The new regulator—the Chairman of the Federal Home Loan Bank System (FHLBS), who would be under the Secretary of the Treasury in the same relationship as the Comptroller of the Currency—should be more independent from the industry. Importantly, the FHLBS would be required to apply bank supervisory and accounting standards to the savings and loan associations.

Moreover, the boards of directors of the Federal Home Loan Banks will be reconstituted along the lines of Federal Reserve Bank boards. This should make them more responsive to the broader public interest. In contrast to present arrangements, most of the membership of the boards will be drawn from outside the industry, including the chairman and vice chairman of the boards, who will be chosen by the new chief of the Federal Home Loan Bank System. Finally,

the Chairman of the FHLBS, as the new regulator and supervisor, would carry a mandate emphasizing safety and soundness, and would appoint the head supervisory agent at the Home Loan Banks who would be directly responsible to the FHLBS in Washington. These are both necessary and important reforms.

Another step recommended by the President, to which we attach great importance, is the requirement that savings and loan associations that do not meet the qualified thrift lender (QTL) test (60 percent of assets in residential-related lending) in the Competitive Equality Banking Act of 1987 must, after an appropriate transition period, become banks and be subject to the entire regulatory and supervisory regime applicable to banks and their holding companies. We believe it is fully appropriate to confine the benefits of thrift status, involving both access to subsidized long-term borrowing from Federal Home Loan Banks and tax benefits, to only those institutions that devote a major part of their assets to promoting homeownership.

Another important part of the reform package is the increase in insurance premiums for both thrift institutions and banks, as well as the authority for the FDIC to raise premiums for both types of institutions in the light of experience. For thrift institutions, for which the fund is now insolvent and in need of rebuilding, premiums under the proposal will rise in 1990 from their present level of 20.8 basis points to 23 basis points in 1991, remain at that level for three years, and then fall to 18 basis points in 1994. For banks the current premium of 8 basis points would increase 4 basis points in 1990, and another 3 points in 1991; and then would be held at that level. However, when the insurance funds reach the target for reserves of 1.25 percent of insured deposits, rebates would again be possible.

The level of FDIC insurance reserves as a percentage of insured deposits has dropped in recent years to the present ratio of 0.83 percent, and it is important that this trend be reversed. The proposed premium increase for banks thus stands on its own merits, quite apart from anything that might be done about thrift institutions, as a necessary step to maintain the integrity of the FDIC fund against future contingencies.

Another element of the President's program is a funding package designed to provide sufficient financial resources to resolve current and prospective insolvencies among FSLIC-insured institutions. This function would be assigned to a newly created Resolution Trust Corporation (RTC), which would be managed by the FDIC and operate under the direction of the Oversight Board composed of the Secretary of the Treasury, the Chairman of the Federal Reserve Board, and the Attorney General. To accomplish its task, the RTC would be provided with \$50 billion of funding—the proceeds of bonds issued by an RTC Funding Corporation. These funds would be used to resolve insolvent thrift institutions that have not received assistance from FSLIC or that will become insolvent over the next three years. Principal would be repaid with the proceeds of zero coupon bonds purchased from thrift industry resources, and the interest on the bonds would be paid with thrift industry and, if necessary, Treasury funds.

The most recent data available (for September 30, 1988) indicate that about 470 thrift institutions, with assets of about \$250 billion, are tangible capital insolvent. It seems prudent to assume that all of these institutions will require RTC assistance. We cannot know exactly what the resolution costs will be for these institutions, but based on FSLIC's estimates of the costs of its 1988 resolutions we estimate that it will cost around \$40 billion to take care of these 470 institutions. Of course, many other FSLICinsured institutions are at present thinly capitalized, and some of these could well become insolvent during the three-year period for which RTC would be responsible for new insolvencies.

We have looked at the cost of resolving new and existing insolvencies under different scenarios, and under some, unlikely, circumstances the resolution costs could exceed \$50 billion. However, in our judgment, all things considered, the \$50 billion should be adequate. There is, of course, much that is unknown, and that is now unknowable, that will affect this judgment. Marginal adjustments may be necessary as experience is gained to take account of, for example, additional costs or recoveries. The critical point is that the fundamental approach is sound and has the necessary flexibility to adapt to changes in circumstances.

Key to the RTC's ability to minimize costs is flexibility to pursue various resolution options. Such flexibility would permit the separate marketing of franchises and troubled real estate portfolios, which might broaden the market and thereby increase the values of both. In particular, in cases in which no franchise value remains in an organization, the least-cost option would likely be liquidation rather than purchase and assumption. To reduce overall costs, the RTC must have the resources necessary to pursue this course.

When so much money is needed to make up for such large losses, partly from mismanagement, and in no small part due to fraud, is it reasonable to ask the taxpayers to pay any part of these costs?

It is. The basis for my answer goes far beyond the congressional pledge of the full faith and credit of the United States behind insured deposits. The reason for public expenditure to support deposit insurance is the basic benefits to the economy as a whole that we derive from deposit insurance. The certainty and stability provided by deposit insurance benefit the nation as a whole, while they protect the individual from catastrophic loss. By giving the public confidence in the safety of its funds we avoid the deposit withdrawal and losses that disrupted the payments system and the savings and investment process in the 1930s. Losses of the kind that we face today should not happen, but with the gains to society as a whole that come with deposit insurance we must accept both the possibility and the reality that there will be losses to be borne by society as a whole.

Our job now is *not* to see to it that there are never any losses as a result of deposit insurance; to do so would require limitations and rules that would put depository institutions lenders, and the economy they serve, in a straitjacket. Such a course would be costly to growth and efficiency. Our task is to see to it that the potential for losses is minimized to the extent possible and that steps are taken to ensure that the preventable governmental, regulatory, supervisory, and human failures that were the cause of the thrift industry losses do not happen again.

The Board attaches considerable importance to the provision of the proposed legislation that calls for the Secretary of the Treasury, in conjunction with the federal financial regulators, to undertake a study of the nation's deposit insurance system. There are major areas of concern about the system, focusing on its apparent bias toward excessive risktaking, its tendency in the direction of differential treatment of small and large institutions, and the unintended expansion of insurance coverage through such techniques as brokering deposits that have been disaggregated into \$100,000 segments.

A review, at both a conceptual and practical level, is needed of the consistency of an insurance system that evolved out of the Great Depression, on the one hand, with today's deposit-gathering industry of both small banks and giant modern financial services organizations that operate across markets and national boundaries, on the other. It will be no easy task. It must be done carefully and the recommendations implemented gradually to ensure a smooth transition to modified insurance arrangements.

Without in any way meaning to prejudge the conclusions of the study, I would like to discuss several matters that should receive attention.

First, I would note that all analyses of which I am aware have suggested that depositors are not effective at restraining imprudence or risktaking at banks and thrift institutions. They cannot be expected to have sufficient information and tend, in any event, to be either unresponsive or to run when faced with bad news. If the study confirms that view, the policy options that then must be seriously considered surely will include other ways to limit risktaking, such as enhanced supervision, different insurance assessment techniques, or use of subordinated capital that would not be protected in case of failure. The large cost to the public of the legislation before you suggests that we must consider the potential benefits of requiring prompt recapitalization, merger, or closure of troubled insured entities whose capital is declining, but still positive.

Second, attention should be given to determining whether specialized fixed-rate residential lending institutions are needed today. This question is raised because of the costs and competitive distortions involved in subsidized borrowing

from Home Loan Banks, the dangers inherent in special regulatory and supervisory regimes for subsidized depository institutions, and the continued vulnerability of a large element of the thrift industry to increased interest rates.

This question should also be considered because of the important changes in the mortgage market. In the past, home mortgages were a uniquely local product, almost always held to maturity by the original lender. Now, computers, modern telecommunications, and financial engineering have vastly changed this market. In today's market, mortgages frequently are originated by a wide variety of intermediaries, bundled into securitized products, and sold to institutional investors in all parts of the country more than one-third of outstanding home mortgages are held in securitized form. This new environment may make it unnecessary to provide special government-subsidized facilities for mortgage lending and may make it possible to eventually bring all depository institutions under one regulatory and supervisory system. This issue should be given priority attention as part of the study of deposit insurance reform.

Third, in considering the reforms that should be developed, considerable attention has been focused on the expanded investment and lending powers that have been granted to state-chartered thrift institutions. The study must examine the safeguards that should be developed for the future. These safeguards should not require rigid prohibitions on types of activities that may be engaged in by depository institutions. Rather, as a first step, consideration should be given to requiring that nonbanking activities of banks and thrift institutions take place in subsidiaries of holding companies to ensure that these activities are not subsidized by the federal safety net and that this safety net will not be responsible for covering any losses that may arise from these nonbanking activities. We have such a proposal under review at the Board. In addition, consideration should be given to amending and expanding existing law to limit risky nonbanking activities in banks and thrift institutions.

I would like to close my testimony by stressing that it is vitally important for the Congress to move very promptly to consider and enact the President's proposals. We must make available the resources the regulators need to close insolvent thrift institutions. We must stop the continuing daily losses due to operating expenses that greatly exceed income as well as to the higherthan-normal rates that they must offer to attract deposits. In operating in this way, they not only hurt themselves and the insurance funds, but, as they drive up rates, they also injure their competitors and the economy as a whole. Prompt action is essential to maintaining public confidence in thrift institutions and their insurance fund. 

Statement by Alan Greenspan, Chairman, Board of Governors of the Federal Reserve System, before the Committee on the Budget, U.S. Senate, February 28, 1989.

It is a pleasure to appear before you this morning to discuss economic policy in the context of the broad objectives that are relevant to us in our respective spheres of policymaking. I have provided our recent Monetary Policy Report, and I shall avoid consuming a lot of your time discussing the details presented in that document. <sup>1</sup> I

believe that it would be useful, however, if I were to review briefly where the economy has been over the past year and where it appears to us to be going. This may help to bring into focus the challenges that face monetary and fiscal policy-makers. Principal among those challenges, in the view of the Federal Reserve, is setting the stage for sustainable, balanced growth, in part by preventing a corrosive inflationary psychology from taking hold. Fiscal, as well as monetary, policy has a role to play in achieving that objective and proceeding expeditiously is much more likely to get the job done.

Overall, the past year has been a good one for the economy. In 1988, real GNP grew about 3<sup>1</sup>/<sub>4</sub> percent, adjusted for crop losses caused by the

<sup>1.</sup> See "Monetary Policy Report to the Congress," FEDERAL RESERVE BULLETIN, vol. 75 (March 1989), pp. 107–19.

drought, and payroll employment rose more than 3½ million. Prospects had been uncertain as the year began, given the worldwide stock market break in October 1987, but gradually, it became clear that the economic expansion remained well on track and that market confidence was on the mend. Demand for goods and services was robust, and sizable gains in employment and output pushed levels of resource utilization still higher. The unemployment rate fell to, and then below, 5½ percent, the lowest level since the mid-1970s, and the average manufacturing capacity utilization rate rose to the highest level since the late 1970s. As these developments unfolded, it became clear that the balance of risks was shifting in the direction of higher inflation. Consequently, the Federal Open Market Committee has applied increased pressures on bank reserve positions, in a series of steps beginning in the spring of 1988 and extending into this year. In addition, the discount rate was raised from 6 percent to 61/2 percent in August, and again last week to 7 percent.

The policy restraint has led to an appreciable rise in short-term market interest rates. Also, growth of money has moderated, as rates on deposits lagged the rise in market rates. M2 and M3 finished the past year around the middle of their annual target ranges of 4 percent to 8 percent, and they have grown relatively slowly in recent months.

Despite tightening money markets, longerterm interest rates have been relatively stable. Yields on Treasury bonds, for example, remained in a fairly narrow range around 9 percent for most of last year and, although rising most recently, are still not much above 9 percent. With inflation expectations apparently fairly stable and the expansion sustained, investments in the United States have looked attractive; the dollar's average value against major foreign currencies recovered from the late-1987 plunge and has been relatively stable for many months.

Some of the developments of the past year suggest, however, that we still have work to do if we are to succeed in our task of achieving the goals of balanced expansion and the reduced inflation needed to sustain it. In the area of your direct interest, the federal budget, the deficit remains large. Meanwhile, private saving re-

mains low. The continued imbalance of domestic saving and investment is mirrored in the persistent large trade and current account deficits.

In addition, although overall inflation last year—in the area of 4 percent to 4½ percent—was only a little above the general range in which it had fluctuated in the mid-1980s, underlying trends were troubling. At the consumer level, the drought boosted food price inflation in 1988, but this was more than offset in the aggregate figures by a leveling-off of energy prices. Now energy prices are turning up. More fundamentally, prices of consumer goods and services other than food and energy accelerated last year and this faster pace extended into January.

Furthermore, some signs have emerged of greater pressures in production costs. Wage increases accelerated toward the end of last year. Moreover, benefits took an unusually large jump in 1988, boosted in part by a sharp rise in health insurance costs and a hike in social security taxes-both of which add to business costs as directly as do wages. Overall, the employment cost index, a comprehensive measure of hourly wage and benefit rates, rose 5 percent in 1988, up significantly from 1987. Materials inputs also were adding to costs; the producer price index for intermediate materials and supplies excluding food and energy has been rising at an annual pace of about 7 percent for some time. The large increases in the producer finished goods and consumer price indexes in January could be early warnings that the cost-price process is gathering force.

At the same time, the economy generally remains vigorous. The available data for January suggest that we moved into 1989 with considerable upward momentum. Moreover, widespread inventory overhangs or constricted profit margins, which typically have signaled the last phases of expansions, are not apparent. With the economy already operating at high levels of labor and plant utilization, and given the disturbing signs of strengthening price and cost pressures, the momentum of expansion implies risks that clearly remain on the side of accelerating inflation. It is just such an acceleration that could feed the kind of imbalances that ultimately bring expansions to an end. The Federal Reserve's earlier money market tightening and the discount rate action last week were taken to forestall such imbalances to keep the economy on a more sustainable path toward price stability.

The same determination to resist any pickup in inflation and especially to move over time toward price stability shaped the Committee's recent decisions with respect to target or monitoring ranges for money and credit in 1989. To this end, the Committee lowered the range for M2 by a full percentage point to 3 percent to 7 percent and reduced the range for M3 ½ percentage point to 3½ percent to 7½ percent. The Committee also lowered the monitoring range for domestic nonfinancial sector debt ½ percentage point to 6½ percent to 10½ percent.

The Federal Reserve expects its policy in 1989 to support continued economic expansion, even while putting in place conditions for a gradual easing in the rate of inflation over time. However, in light of present conditions, the central tendency of forecasts made by members of the Federal Reserve Board and presidents of Federal Reserve Banks is for inflation to rise slightly in 1989, with the consumer price index edging up to the range of  $4\frac{1}{2}$  percent to 5 percent.

With restraint on inflation requiring that we limit pressures on our productive resources, some slowing in the underlying rate of growth of real GNP is expected in 1989. The central tendency of GNP forecasts of Board members and Reserve Bank presidents for this year is 21/2 percent to 3 percent from the fourth quarter of 1988 to the fourth quarter of 1989; abstracting from the expected rebound from last year's drought losses, real GNP is projected to grow at closer to a 2 percent rate. Net exports are likely to continue to improve as we make further progress in reducing our external imbalances, but this implies the need for counterbalancing restraint on domestic demand. With demands for labor growing more in line with expansion of the labor force, the unemployment rate is expected to remain near its recent level during the course of the year.

Looking beyond a one-year horizon, the primary role of monetary policy in the pursuit of the goal of maximum sustainable growth is to foster price stability. By this we mean establishing an environment in which expected changes in the average price level are small enough and gradual

enough that they do not materially enter business and household financial decisions. Price stability—indeed, even preventing inflation from accelerating—requires that aggregate demand be in line with potential aggregate supply. Inflation in the longer term is essentially a monetary phenomenon. But large budget deficits contribute to the problem; they tend to put inordinate strains on financial markets and they directly fuel excess demand on resources. Thus, in the present circumstances, fiscal policy can help to smooth our progress over the next few years toward better price performance. Prompt and sustained action is becoming increasingly urgent.

The situation today differs markedly from that of the mid-1980s, when the U.S. economy was recovering from a deep recession. Then, with utilization of labor and capital still quite low, we were able to bring these resources back into the production process at a pace that substantially exceeded their underlying growth rates. And in those circumstances, the growth of real GNP could be relatively rapid while the inflation performance was reasonably good.

But as a result of the robust expansion, the U.S. economy has absorbed much of its unused labor and capital resources. No one can say precisely which level of resource utilization marks the dividing line between accelerating and decelerating prices. However, the evidence—in the form of direct measures of prices and wages—clearly suggests that we are now in the vicinity of that line.

Thus, the thrust of both monetary and fiscal policies in the short run appropriately is more toward restraint than stimulus. The extent and duration of the financial market pressures that are likely, until overall demand moderation is achieved, will depend on the size and credibility of deficit-reducing measures. In this context, credibility will be much enhanced by a multiyear approach to budget action.

I am mindful that, owing to significant efforts by the executive branch and the Congress, coupled with strong economic growth, the deficit has shrunk from 5 percent to 6 percent of GNP a few years earlier to a bit over 3 percent today. And abstracting from the effects of economic expansion, the cyclically adjusted, or structural, deficit as a share of potential GNP has fallen 1¼ per-

centage points from its 1986 peak. Nonetheless, at about 3 percent, this share is still very large. Since the end of World War II, the structural deficit has exceeded 3 percent of potential GNP only since 1983.

I am also mindful that the progress that has been made in narrowing the structural deficit in the past two years is even greater when we look only at the so-called primary portion of the deficit, that is when interest costs are removed. Interest outlays, of course, are now very large and their level will remain high as long as our stock of Treasury debt remains large. Nevertheless, growth in the interest component of the budget is volatile. It is spurred by large deficits, but it also picks up when interest rates are rising and then subsides when interest rates come down. For example, annual growth in interest costs averaged about \$13 billion from 1980 to 1985, but since then has slowed to an average of about \$7 billion per year.

The most effective way to keep interest costs down is to forestall another virulent burst of inflation expectations such as we experienced a decade ago. Simple arithmetic tells us that an increase of 1 percentage point in actual inflation raises the cost of indexed programs 1 percent. But if the faster rate of inflation were to become embedded in expectations throughout the financial structure, interest rates, and ultimately federal debt service costs, would rise more than 10 percent from their current levels. We are fortunate that inflation expectations so far seem not to have worsened, and long-term interest rates have risen little in the past year despite a tightening in money markets. Both fiscal and monetary policies have a role to play in maintaining this situation.

For the longer term, fiscal policy also has a special contribution to make in promoting growth in our production or supply capabilities. Reducing the deficit is the surest way to raise national saving, thereby lowering the average level of real interest rates, boosting domestic investment, and reducing our reliance on foreign capital. The federal deficits of recent years are threatening precisely because they have been occurring in the context of private saving that is low by both historical and international standards. In the 1980s, net personal plus business saving in the

United States has been about 2 percentage points lower relative to GNP than its average in the preceding three decades. Internationally, government deficits have been quite common among the major industrial countries in the 1980s, but private saving rates in most of these countries have exceeded the deficits by very comfortable margins. In Japan, for example, about 15 percent of its private saving is estimated to have been absorbed by government deficits, even though the Japanese general government has been borrowing more than 2½ percent of its gross domestic product in the 1980s. In contrast, about half of private U.S. saving in the 1980s has been absorbed by the combined deficits of the federal and state and local sectors.

Under these circumstances, such large and persistent deficits are slowly but inexorably damaging the economy. The damage occurs because deficits, which must be financed regardless of the level of interest rates, tend to pull resources away from interest-elastic private investment. When the pool of private saving is small, federal deficits and private investment tend to be forced into competition and private investment loses. To the extent that more resources are demanded than are available to be financed, interest rates will rise until sufficient excess demand is crowded out of the private sector.

In the short run, the Federal Reserve can hold down nominal interest rates, but the result largely would be more inflation, with little or no lasting effect on real interest rates and the allocation of real resources. All else equal, any crowding out of productive investment damps the growth of the nation's capital stock, and the result is less capital per worker than would otherwise have been the case. This will surely engender a shortfall in labor productivity growth and, with it, a shortfall in growth of the standard of living.

Moreover, the higher real interest rates associated with increased borrowing by the Treasury in the 1980s have been associated with a shift in the composition of investment away from long-lived assets, such as factories, and toward computers and other shorter-lived equipment. Evidence points to a recent decline in the average service life of measured consumption spending as well, and suggests a systematic tendency for

the average service life of all spending to move inversely with real rates of interest. That is, the higher are real interest rates, the heavier is the concentration on spending that satisfies immediate desires or yields its returns quickly.

Not surprisingly, we have already experienced a disturbing decline in the level of *net* investment relative to GNP, as depreciation has speeded up, reflecting shorter investment horizons. Net investment has fallen to 4.7 percent of GNP in the 1980s from an average level of 6.7 percent in the 1970s and even higher in the 1960s. The effects of this decline in the net investment share has been offset, to some extent, by increased productivity of certain short-lived capital such as computers, but nonetheless, slower investment has been associated with weak productivity performance.

The U.S. net investment ratio is low, not only by our own historical standards, but by international standards as well. International comparisons of net investment should be viewed with some caution because of differences in the measurement of depreciation and in other technical details. Nevertheless, the existing data indicate that total net private and public investment as a share of gross domestic product over the period between 1980 and 1986 was lower in the United States than in any of the other major industrial countries except the United Kingdom.

Even this U.S. investment performance may not be sustainable. The negative effects of federal deficits on growth in the capital stock in the 1980s may have been attenuated for a while by the strength of aggregate output growth over much of the past six years. Such rates of output growth undoubtedly boosted sales and profit expectations and, hence, business investment, but they cannot be maintained.

Furthermore, net inflows of foreign saving in

recent years have been an important addition to aggregate saving. In the 1980s, our ability to tap foreign saving has moderated the decline in the investment-GNP ratio. While the federal deficit rose about 2½ percentage points relative to GNP between the 1970s and the 1980s, net inflows of foreign saving have mounted, on average, to almost 2 percent of GNP—an unprecedented level—from close to zero before.

We welcome the discipline and efficiency gains of an open economy, but the continuation of inflows of foreign saving at current levels may be neither desirable nor possible. Evidence for the United States and for other major industrial nations over the past 100 years indicates that, for most countries, such sizable foreign net capital inflows have not persisted; hence, they may not be a reliable substitute for domestic saving on a long-term basis. In other words, domestic investment tends to be supported by domestic saving alone in the long run.

Let me conclude by reiterating that the budget deficit must be brought down. While it is beguiling to contemplate the healthy growth of recent years in the context of large budget deficits, it is fanciful to conclude that these deficits have no adverse consequences. The prospect of a continuing imbalance between domestic saving and investment—with the accompanying constraints on growth and modernization of capital and the substantial reliance on foreign saving-poses risks for the future. Forward looking investors may react to those risks today in financial markets. I do not underestimate the difficult decisions that you must make if we are to achieve the necessary reduction in the deficit. But allowing deficits to persist courts instability in the near term and threatens potentially significant reductions over time in the U.S. standard of living.

Chairman Greenspan presented identical testimony before the House Committee on the Budget, March 2, 1989.

### **Announcements**

## CHANGE IN THE DISCOUNT RATE

In the light of inflationary pressures in the economy, the Federal Reserve Board announced on February 24, 1989, an increase in the discount rate from 6½ percent to 7 percent, effective immediately.

In taking the action, the Board voted on requests submitted by the Boards of Directors of the Federal Reserve Banks of Boston, New York, Philadelphia, Richmond, Atlanta, Chicago, St. Louis, Minneapolis, Kansas City, and San Francisco. The Board subsequently approved similar requests by the Federal Reserve Bank of Cleveland, also effective February 24; and by the Federal Reserve Bank of Dallas, effective February 27. The discount rate is the interest rate that is charged depository institutions when they borrow from their District Federal Reserve Banks.

### EXPRESSION OF SUPPORT FOR REFORM AND RECOVERY PROGRAM

The Federal Reserve Board expressed its support for the reform and recovery program announced on February 6, 1989, by President Bush.

Federal Reserve Chairman Alan Greenspan said, "This comprehensive package of measures to strengthen the thrift industry, and depository institutions generally, should assure that the problems that occurred in the savings and loans will not happen again."

Chairman Greenspan urged prompt congressional consideration of the President's program.

### AMENDMENT TO REGULATION H

The Federal Reserve Board approved on February 3, 1989, an amendment to Regulation H (Membership of State Banking Institutions in the Federal Reserve System) to facilitate public ac-

cess to financial information regarding state member banks and U.S. branches and agencies of foreign banks.

The amendment to Regulation H requires that banks make available to shareholders and the public, upon request, one free copy of the full year-end Reports of Condition and Income ("Call Reports") for the preceding two years or, as a substitute, other specified financial reports, which are routinely prepared by banks and that contain information equivalent to that presented in Call Reports.

The amendment requires state-licensed agencies of foreign banks and state-licensed branches of foreign banks that are not insured by the Federal Deposit Insurance Corporation to make available, upon request, one free copy of the three specified schedules from the two most recent year-end Reports of Assets and Liabilities of U.S. Branches and Agencies of Foreign Banks.

Covered institutions must provide the information as soon as is reasonably possible, but not later than April 1 of the year immediately following the end of the year to which the most recently available information pertains. Covered institutions must notify shareholders and the public of the availability of the information. The amendment takes effect April 1, 1989.

#### INTERPRETATION TO REGULATION H

The Federal Reserve Board announced on February 14, 1989, approval of an interpretation to its regulations authorizing state member banks to buy stock in some types of investment companies. The action provides state member banks with parallel authority to that of national banks.

Under the interpretation to Regulation H, a state member bank could buy stock in an investment company that invests solely in U.S. Treasury and agency obligations, state and municipal obligations, corporate debt instruments, or other

securities that a member bank may purchase directly. The interpretation also includes a prior authorization to invest in the stock of money market mutual funds.

#### PROPOSED ACTION

The Federal Reserve Board announced for comment on February 24, 1989, a series of revised proposals regarding the finality accorded automated clearinghouse (ACH) credit and debit transactions processed by Federal Reserve Banks. Comment was requested by March 31, 1989.

#### CHANGES IN BOARD STAFF

The Federal Reserve Board announced on February 27, 1989, the appointment of J. Virgil Mattingly, Jr. as its General Counsel to succeed Michael Bradfield, who resigned, effective February 28. Mr. Mattingly had been Deputy General Counsel since 1985.

Alan Greenspan, Chairman, Board of Governors, noted that Mr. Bradfield played a vital role, as a legal and policy advisor, in helping the Board manage its way through a particularly difficult period. "Mr. Bradfield's performance over the turbulent years of the 1980s has been outstanding," Dr. Greenspan said.

The Board also announced on February 27, 1989, the appointment of Barry R. Snyder as Assistant Inspector General in the Office of Inspector General.

Mr. Snyder has been a senior auditor since 1987. He holds certificates in information systems auditing and internal auditing, a bachelors degree from West Virginia University, and a masters degree from the University of Maryland.

### AVAILABILITY OF FEDERAL RESERVE STATISTICAL RELEASES THROUGH COMPUTERIZED BULLETIN BOARD

The Federal Reserve Board and the Department of Commerce announced on February 27, 1989, the availability of six of the Board's statistical releases through Commerce's economic bulletin board.

Commerce's computerized bulletin board, which can be accessed by the public on a fee basis, initially will provide four weekly and two monthly Board releases. Weekly releases now available are the following: H3 (Aggregate Reserves), H6 (Money Supply), H8 (Bank Credit), and H15 (Selected Interest Rates). Monthly releases now available are G12.3 (Industrial Production) and G3 (Capacity Utilization).

Later this year, two other releases will be available in this form: the monthly G19 (Consumer Installment Credit) and the weekly H4.1 (Factors Affecting Reserve Balances).

The annual subscription to access the Commerce Department's bulletin board is \$25, which includes two hours of free access time with additional usage at \$.10 a minute. The bulletin board also carries major economic releases from the Commerce Department and the Labor Department.

The historical data for the six releases now available may be ordered in machine-readable form through the National Technical Information Service (NTIS), an agency of the Department of Commerce. For a free Catalog of Data Files produced by the Board of Governors of the Federal Reserve System, write to the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 or telephone (202) 487-4808 requesting PR790.

For further information about these releases, contact either the Federal Reserve Board at (202) 452-3240 or the Commerce Department at (202) 377-1986.

### CHANGE IN DATABASE USED FOR COMPILING THE STATISTICAL APPENDIX TO THE BULLETIN

Starting with the March 1989 issue of the BUL-LETIN, some of the series in the statistical appendix, "Financial and Business Statistics" beginning on page A1, have been converted to a new database that uses a different software package. The new software will facilitate more precise computation of weekly, monthly, quarterly, and yearly averages. Because of the changes in averaging techniques, some small discontinuities will occur between current data that are stored in the new system and previously published data that were produced by the old system. The following tables have been converted to the new system: 1.10, 1.17, 1.20, 1.22, 1.23, 1.24, 1.25, 1.26, 1.28, 1.30, 1.31, 1.32, 1.35, 1.37, 1.39, 1.40, 1.41, 1.42,

1.43, 1.45, 1.46, 1.47, 1.48, 1.50, 1.53, 1.54, 1.55, 1.56, 2.11, 2.15, 2.16, 2.17, 3.14, and 3.21. Over the next year, the rest of the tables in the statistical appendix will be converted, and announcements will be made from time to time of tables that have been added to the new system.

# Record of Policy Actions of the Federal Open Market Committee

MEETING HELD ON DECEMBER 13-14, 1988

#### Domestic Policy Directive

Information on employment and production reviewed at this meeting suggested that, apart from the direct effects of the drought, economic activity had continued to expand at a vigorous pace although some measures of demand, available on a less current basis, still indicated more moderate growth. Recent price data showed a fairly stable inflation rate, partly because of the favorable effects of earlier oil price declines, while labor cost measures continued to indicate some acceleration from a year earlier.

Total nonfarm payroll employment rose sharply in October and November. Following declines in late summer, gains in manufacturing employment were large in both months, with particularly sizable increases recorded in the machinery, electrical equipment, and lumber industries. Employment in service industries picked up significantly in November from the reduced pace of expansion in previous months. The civilian unemployment rate edged up to 5.4 percent in November but remained in the lower part of the narrow range that had prevailed since early spring.

Industrial production advanced considerably further in October and November after a strong third quarter. Output of consumer goods continued to increase, on balance, at a fairly vigorous pace, and production of materials posted another solid gain in November. Output of business equipment also increased in November, but revised data indicated that such growth had moderated appreciably in recent months. Total industrial capacity utilization edged up further in November, and the operating rate in manufacturing reached its highest level since July 1979.

Growth of overall consumer spending had moderated somewhat in recent months. Spending for nondurables had been sluggish in September and October, while outlays for durable goods had declined, mainly because of reduced purchases of cars. On the other hand, preliminary data for total retail sales in November indicated a strong advance following a large, upward-revised increase in October.

Indicators of business capital spending suggested a substantially slower rate of expansion in October than earlier in the year. Shipments of nondefense capital goods were little changed, reflecting a fairly broad-based deceleration. Nonresidential construction edged down a little further, as petroleum drilling fell again and expenditures on commercial structures other than office buildings declined. Inventory investment in the manufacturing and wholesale sectors in the third quarter remained about in line with the growth of sales. In the retail sector, a buildup in inventories in the third quarter largely reflected additions to stocks by auto dealers; the expansion of nonauto stocks remained broadly in line with sales. Housing starts strengthened in October after changing little on balance over the previous several months.

Excluding food and energy, producer prices of finished goods were unchanged in October after a sizable increase in September. At the consumer level, retail food prices eased in October and energy prices were little changed, but prices of other goods and services increased faster on balance than in preceding months. On a year-over-year basis, consumer prices continued to rise at about the 4½ percent annual rate evident since late 1987. The limited data available for labor costs in the fourth quarter suggested that increases in these costs continued to exceed those of a year earlier.

Preliminary data for the nominal U.S. mer-

chandise trade deficit in October showed a slightly smaller deficit than in September. The value of total imports fell, with declines recorded in capital goods, consumer goods, and oil. Exports also declined in October owing to lower agricultural sales abroad. Boosted by higher aircraft shipments, nonagricultural exports were unchanged from their September level. Economic activity accelerated or remained strong in most of the major foreign industrial countries in the third quarter but appeared to have slowed somewhat in the fourth quarter.

In the foreign exchange markets, the trade-weighted value of the dollar in terms of the other G-10 currencies had declined about 2½ percent on balance over the period since the Committee meeting on November 1, bringing it to a level 8 percent below its peak of last August. Following a brief respite in the week before the U.S. elections, the dollar was under downward pressure over most of the intermeeting period. However, the dollar firmed somewhat near the end of the period, as prospects were seen to be increasing for further reductions in the federal deficit and a tightening of monetary policy.

At its meeting on November 1, the Committee adopted a directive calling for no immediate change in the degree of pressure on reserve positions. These reserve conditions were expected to be consistent with growth of M2 and M3 at annual rates of about 2½ and 6 percent respectively over the period from September to December. The members agreed that somewhat greater reserve restraint would, or slightly lesser reserve restraint might, be acceptable depending on indications of inflationary pressures, the strength of the business expansion, the behavior of the monetary aggregates, and developments in foreign exchange and domestic financial markets.

In the course of implementing policy following the November meeting, it became increasingly evident that a slightly higher federal funds rate than that anticipated at the time of the meeting was associated with a substantially lower volume of adjustment plus seasonal borrowing; for reasons that remained unclear, depository institutions exhibited a reduced willingness to come to the discount window. To take account of this change in borrowing behavior, and against a backdrop of recent information suggesting that

the economic expansion retained considerable vigor and potential for price pressures, the Manager for Domestic Operations adjusted the reserve paths on November 22 to incorporate a lower level of borrowings, with the expectation that federal funds would continue trading in the slightly higher range that had prevailed recently. Over the intermeeting period, the federal funds rate rose nearly ¼ percentage point to around 8½ percent.

Other short-term market interest rates generally advanced by more than the federal funds rate over the intermeeting period, as expectations of a tighter monetary policy were stimulated by higher world oil prices, renewed weakness of the dollar, and the release of strong domestic economic data. The prime rate was increased 50 basis points. Rates in long-term debt markets also rose on balance, although by appreciably less than short-term rates. Stock prices fell over the first half of the intermeeting period, but most indexes rebounded subsequently to nearly their values at the time of the November 1 meeting.

Growth of the broader monetary aggregates strengthened in November from the relatively sluggish rates of expansion recorded in previous months, especially for M2. The acceleration in M2 reflected strong expansion in its liquid retail components. M3 growth picked up somewhat less, as bank credit growth and associated funding needs remained moderate. On average in October and November, growth of M2 had been somewhat faster, and that of M3 slightly faster, than the Committee expected at the time of the previous meeting. With demand deposits running off again, M1, which had increased only slightly on balance since midsummer, was virtually unchanged in November.

The staff projection prepared for this meeting suggested that, after adjustment for the effects of the drought, economic growth in the current quarter might be near the vigorous pace of the third quarter but that expansion in 1989 was likely to moderate on balance. However, to the extent that expansion of final demand at a pace that could foster higher inflation was not accommodated by monetary policy, pressures would be generated in financial markets that would tend to restrain domestic spending. The staff continued to project some slowing in the growth of con-

sumer spending, sharply reduced expansion of business fixed investment, and sluggish housing activity. Foreign trade was expected to make an important contribution to growth in domestic output, despite some damping effects from the dollar appreciation that had occurred earlier in 1988 and somewhat slower growth abroad. The staff also anticipated some continuing cost pressures over the next several quarters, especially owing to reduced margins of unutilized labor and other production resources.

In the Committee's discussion of the economic situation and outlook, the members focused on indications of continuing strength in the economic expansion. While some signs of prospective slowing in the expansion remained in evirecent data on employment production suggested that the economy retained considerable momentum. A number of members commented that business activity had remained more robust than had seemed likely earlier, and many expressed concern that continued expansion at a relatively rapid pace raised the risk that inflation would intensify, given already high rates of capacity utilization in many industries and tight labor markets in many parts of the country. On balance, while somewhat more moderate growth continued to be viewed as a reasonable expectation for 1989, most members interpreted recent developments as suggesting that, in the absence of some added policy restraint, any moderation in the expansion might well prove to be insufficient to forestall a pickup in inflation, much less to permit progress to be made in reducing inflation over time. At the same time, some members cautioned that the risk of a recession stemming from a substantial tightening of policy should not be overlooked; in addition to job and output losses, a recession could impede progress in bringing the federal budget into balance and could have severe repercussions on the viability of highly leveraged borrowers and many depository institutions.

In their review of developments bearing on the economic outlook, members took account of indications that overall domestic demands were being well maintained, including some recent strength in retail sales, and that exports remained on a clear uptrend. High levels of activity continued to characterize business conditions in

many areas. Manufacturing was benefiting from growing export markets and the substitution of domestic products for higher-priced imports; moreover, many domestic producers had not yet exploited potential markets abroad. There were indications of some softening in business fixed investment, including a moderation of growth in outlays for equipment and reduced construction activity in a number of areas, notably those most affected by weak energy markets and previous overbuilding. Nonetheless, business contacts suggested that overall investment spending would continue to benefit from ongoing efforts in many industries to modernize or expand production facilities. With regard to housing construction, members reported somewhat depressed conditions in a number of areas, but the latest statistics for the nation as a whole were on the firm side of recent trends.

In the course of the Committee's discussion, members gave a good deal of attention to the outlook for inflation. On the positive side, inflationary expectations did not appear to be worsening, as evidenced for example by the stability of long-term bond markets, and strong competitive pressures were encouraging business firms to persist in their efforts to hold down costs. Such competition continued to make it difficult for many businesses to pass on increasing costs through higher prices and tended to harden business resistance to demands for higher wages. With regard to labor costs, reports from local areas suggested that nonwage components were rising at a faster rate than wages but that large increases in the latter still were infrequent despite some shortages of labor.

While the members saw no clear evidence in current aggregate measures of prices that the overall rate of inflation was worsening, key indicators of labor compensation suggested some uptrend and many members commented that the risks were in the direction of greater inflation, given the apparent growth of the economy at a pace above its long-run potential together with the relatively full employment of production resources. These risks would be heightened if the dollar were to decline significantly from current levels. Commodity prices appeared to have leveled off, but they showed little sign of reversing earlier increases, which themselves might not yet have been passed through fully to consumer prices. Of particular concern was the prospect that, in the absence of a timely move to restraint, greater inflation would become embedded in the economy, especially in the labor-cost structure. A new wage-price spiral would then be very difficult to avoid and the critical task of bringing inflation under control would be prolonged and much more disruptive. A worsening of inflationary pressures and inflation expectations, if unchecked, eventually would foster higher interest rates and would lead to growing imbalances and distortions in the economy and almost certainly to a downturn at some point in overall economic activity.

At its meeting in late June, the Committee reviewed its basic policy objectives for growth of the monetary and debt aggregates in 1988 and established tentative objectives for expansion of those aggregates in 1989. For the period from the fourth quarter of 1987 to the fourth quarter of 1988, the Committee reaffirmed the ranges of 4 to 8 percent that it had set in February for growth of both M2 and M3. The monitoring range for expansion of total domestic nonfinancial debt in 1988 was left unchanged from its February specification of 7 to 11 percent. For the year through November, M2 grew at an annual rate a little below, and M3 at a rate a little above, the midpoint of their annual ranges. Expansion of total domestic nonfinancial debt appeared to have moderated to a pace somewhat below the midpoint of its range. For 1989 the Committee agreed in June on tentative reductions to ranges of 3 to 7 percent for M2 and 3½ to 7½ percent for M3. The monitoring range for growth of total domestic nonfinancial debt was lowered to 6½ to 10½ percent for 1989. It was understood that all the ranges for next year were provisional and that they would be reviewed in February 1989 in the light of intervening developments. With respect to M1, the Committee reaffirmed in June its earlier decision not to set a specific target for growth in 1988, and it also decided not to establish a tentative range for 1989.

In the Committee's discussion of policy for the near term, nearly all the members supported a proposal that called for an immediate increase in the degree of reserve pressure to be followed by some further tightening at the start of 1989 unless

incoming evidence on the behavior of prices, the performance of the economy, or conditions in financial markets differed greatly from current expectations. The appropriate degree of reserve restraint also would be reevaluated in the event of an increase in the discount rate. While the members recognized that the degree of monetary restraint could be overdone, they generally felt that the risks of a downturn stemming from the limited tightening under consideration were extremely small and needed to be accepted in light of what they perceived as the much greater threat of a recession if inflation were allowed to intensify. Expressing a differing view, one member commented that further restraint was undesirable in light of that member's expectation that economic growth over the next several quarters was likely to be at a pace consistent with progress against inflation.

While all but one member agreed on the need for some further monetary restraint, views differed to some extent with regard to the appropriate degree and timing of such restraint. A number of members indicated a preference for a stronger immediate move to greater restraint, given their perception of the urgency of countering inflation expectations and inflationary pressures in the economy. Other members did not disagree that inflation was a serious problem, but they preferred a more gradual approach to further restraint in order to minimize potential market disturbances, especially around the year-end, and to facilitate adjustments to rising interest rates. It also was suggested that more marked tightening at this time could have the unintended effect of fostering an escalation of interest rates in world markets, with especially undesirable effects on many less developed debtor nations.

In the discussion of adjustments in the provision of reserves through open market operations, many members commented on how a possible increase in the discount rate might interact with such operations. Several favored the implementation of a tighter policy through the discount rate in order to signal more clearly than through a gradual tightening of reserve conditions the System's ongoing commitment to an anti-inflationary policy. Other members expressed concern that, under immediately prevailing circumstances, an increase in the discount rate might

have exaggerated repercussions on domestic and international financial markets. The Committee concluded that in the event of an increase in the discount rate during the intermeeting period the members would need to consult regarding the implications for the conduct of open market operations.

In the course of the Committee's discussion. the members took account of a staff analysis which suggested that monetary growth was likely to remain relatively restrained in the months immediately ahead, especially if reserve conditions were tightened. An increase in the degree of reserve restraint in line with that contemplated by the Committee would reduce growth of M2 somewhat from its recent pace, assuming a typically delayed adjustment in deposit rates to rising short-term market interest rates, while growth of M3 would continue at a somewhat higher rate than that of M2. Several members observed that restrained monetary growth would continue to be desirable, and some expressed concern that in the absence of some tightening of reserve conditions such growth might accelerate, with inflationary implications under foreseeable economic conditions. On the other hand, in light of the limited growth in the monetary base and reserves in the past several months, some other members cautioned that sharp additional restraint on reserve provision could have an undesirably restraining effect on monetary growth and the economy.

With regard to the proposed move toward further monetary restraint shortly after the yearend, it was understood that such firming would be implemented unless emerging economic and financial conditions were to differ markedly from current expectations. Should unanticipated developments of that kind occur or should the Board of Governors approve an increase in the discount rate during the intermeeting period, the Chairman would call for a special consultation of the Committee. On the question of any additional adjustment in policy, the members generally agreed that policy implementation should remain especially alert to incoming information that might call for further firming beyond that already contemplated. In light of the tightening of reserve conditions after today's meeting and the presumption that some further monetary restraint

would be implemented later during the intermeeting period, the members decided to raise the intermeeting range for the federal funds rate by 1 percentage point to 7 to 11 percent. With such an increase, federal funds would be expected to trade at rates averaging closer to the middle of the range. That range provides one mechanism for initiating consultation of the Committee when its boundaries are persistently exceeded.

At the conclusion of the Committee's discussion, all but one of the members indicated that they favored or could accept a directive that called for some immediate firming of reserve conditions, with some further tightening to be implemented at the start of 1989, assuming that economic and financial conditions remained reasonably consistent with current expectations. In keeping with the Committee's usual approach to policy, the conduct of open market operations would be subject to further adjustment during the intermeeting period based on indications of inflationary pressures, the strength of the business expansion, the behavior of the monetary aggregates, and developments in foreign exchange and domestic financial markets. Depending on such developments, some added reserve restraint would be acceptable, or some slight lessening of reserve pressure might be acceptable. The reserve conditions contemplated at this meeting were expected to be consistent with growth of M2 and M3 at annual rates of around 3 percent and 6½ percent respectively over the four-month period from November 1988 to March 1989.

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

The information reviewed at this meeting suggests that, apart from the direct effects of the drought, economic activity has continued to expand at a vigorous pace. Total nonfarm payroll employment rose sharply in October and November, with sizable increases indicated in manufacturing after declines in late summer. The civilian unemployment rate, at 5.4 percent in November, remained in the lower part of the range that has prevailed since early spring. Industrial production advanced considerably in October and November. Housing starts turned up in October after changing little on balance over the previous several months. Growth in consumer spending has been somewhat more moderate in recent months, and indicators of business capital spending suggest a substantially slower rate of expansion than earlier in the year. The nominal U.S. merchandise trade deficit narrowed further in the third quarter. Preliminary data for October indicate a small decline from the revised deficit for September. The latest information on prices and wages suggests little if any change from recent trends.

Interest rates have risen since the Committee meeting on November 1, with appreciable increases occurring in short-term markets. In foreign exchange markets, the trade-weighted value of the dollar in terms of the other G-10 currencies declined significantly further on balance over the intermeeting period.

Expansion of M2 and M3 strengthened in November from relatively slow rates of growth in previous months, especially in the case of M2. Thus far this year, M2 has grown at a rate a little below, and M3 at a rate a little above, the midpoint of the ranges established by the Committee for 1988. M1 has increased only slightly on balance over the past several months, bringing growth so far this year to 4 percent. Expansion of total domestic nonfinancial debt for the year thus far appears to be at a pace somewhat below that in 1987 and around the midpoint of the Committee's monitoring range for 1988.

The Federal Open Market Committee seeks monetary and financial conditions that will foster price stability over time, promote growth in output on a sustainable basis, and contribute to an improved pattern of international transactions. In furtherance of these objectives, the Committee at its meeting in late June reaffirmed the ranges it had established in February for growth of 4 to 8 percent for both M2 and M3, measured from the fourth quarter of 1987 to the fourth quarter of 1988. The monitoring range for growth of total domestic nonfinancial debt was also maintained at 7 to 11 percent for the year.

For 1989, the Committee agreed on tentative ranges for monetary growth, measured from the fourth quarter of 1988 to the fourth quarter of 1989, of 3 to 7 percent for M2 and  $3\frac{1}{2}$  to  $7\frac{1}{2}$  percent for M3. The Committee set the associated monitoring range for growth of total domestic nonfinancial debt at  $6\frac{1}{2}$  to  $10\frac{1}{2}$  percent. It was understood that all these ranges were provisional and that they would be reviewed in early 1989 in the light of intervening developments.

With respect to M1, the Committee reaffirmed its decision in February not to establish a specific target for 1988 and also decided not to set a tentative range for 1989. The behavior of this aggregate will continue to be evaluated in the light of movements in its velocity, developments in the economy and financial markets, and the nature of emerging price pressures.

In the implementation of policy for the immediate future, the Committee seeks to increase somewhat the existing degree of pressure on reserve positions. Taking account of indications of inflationary pressures, the strength of the business expansion, the behavior of the monetary aggregates, and developments in foreign exchange and domestic financial markets, somewhat

greater reserve restraint would, or slightly lesser reserve restraint might, be acceptable in the intermeeting period. The contemplated reserve conditions are expected to be consistent with growth of M2 and M3 over the period from November through March at annual rates of about 3 and 6½ percent, respectively. The Chairman may call for Committee consultation if it appears to the Manager for Domestic Operations that reserve conditions during the period before the next meeting are likely to be associated with a federal funds rate persistently outside a range of 7 to 11 percent.

Votes for this action: Messrs. Greenspan, Corrigan, Angell, Black, Forrestal, Heller, Hoskins, Johnson, Kelley, LaWare, and Parry. Vote against this action: Ms. Seger.

Ms. Seger dissented because she viewed current business indicators as already pointing on balance to slower economic expansion, and in the circumstances she did not feel that any added monetary restraint was needed to foster economic conditions consistent with progress in reducing inflationary pressures. In the context of already restrained monetary growth, she was concerned that a further increase in the degree of reserve pressure would pose unnecessary risks to interest-sensitive sectors of the economy and ultimately to the sustainability of the expansion itself. She expressed particular concern that the higher interest rates implied by greater monetary restraint would aggravate the condition of financially troubled thrift institutions.

At this meeting the Committee reviewed its current procedure for implementing open market operations against the background of a marked change over recent months in the relationship between the level of adjustment plus seasonal borrowing and the federal funds rate. The current procedure of focusing on the degree of reserve restraint, as indexed by borrowed reserves, had been implemented with some flexibility in recent weeks in light of the substantial shortfall of borrowing in relation to expectations. The policy results had been satisfactory, but some members proposed that consideration be given to focusing more directly on the federal funds rate in carrying out open market operations, particularly if uncertainty about the borrowing-federal funds relationship were to persist. Others felt that despite its drawbacks, the current procedure had

a number of advantages, including that of allowing greater scope for market forces to determine short-term interest rates. The Committee concluded that no changes in the current procedure were needed at this time, but that flexibility would remain important in accomplishing Committee objectives under changing circumstances.

# Legal Developments

#### INTERPRETATION OF REGULATION H

The Board of Governors has issued an interpretation of Regulation H, Membership of State Banking Institutions in the Federal Reserve System, 12 C.F.R. Part 208, authorizing state member banks to purchase and hold for their own accounts stock of investment companies that are authorized to invest in certain securities that the banks may purchase directly and no others, but that may also enter into futures, forwards, options, repurchase agreements, and securities lending contracts relating to assets the banks may purchase directly. This action will expand the investment authority of state member banks, and will provide those institutions an opportunity to increase the diversity of their investments. Because this authority includes authority for state member banks to invest in stock of money market mutual funds (MMMFs), the Board has also rescinded 12 C.F.R. 208.123. That interpretation authorized state member banks to invest in stock of MMMFs.

Effective February 17, 1989, pursuant to authority under section 9 of the Federal Reserve Act, 12 U.S.C. §§ 321 et seq., the Board is amending 12 C.F.R. Part 208 as follows:

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

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

Authority: Sections 9, 11, and 21 of the Federal Reserve Act (12 U.S.C. §§ 321–338, 248, and 486, respectively); sections 4 and 13(j) of the Federal Deposit Insurance Act (12 U.S.C. § 814 and 1823(j), respectively); section 7(a) of the International Banking Act of 1978 (12 U.S.C. § 3105); sections 907 - 910 of the International Lending Supervision Act of 1983 (12 U.S.C. § 3906 - 3909); sections 2, 12(b), 12(g), 12(i), 15B(c)(5), 17, 17A, and 23 of the Securities Exchange Act of 1934 (15 U.S.C. § 78b, 78l(b), 78l(g), 78l(i), 780-4(c)(5), 78q, 78q-1, and 78w, respectively); and section 5155 of the Revised Statutes (12 U.S.C. § 36) as amended by the McFadden Act of 1927.

- 2. Section 208.123 is removed.
- 3. Part 208 is amended by adding Section 208.124 to read as follows:

Section 208.124—Purchase of investment company stock by a state member bank

- (a) Scope. The Board of Governors has been asked whether a state member bank may purchase and hold for its own account stock of investment companies (mutual funds) whose portfolios consist entirely of securities that state member banks may purchase directly, and futures, forwards, options, repurchase agreements and securities lending contracts relating to those securities.
- (b) Investment authority. The National Bank Act, 12 U.S.C. § 24(7), provides that a national bank may purchase for its own account investment securities under such limits and restrictions as the Comptroller of the Currency may prescribe. The statute defines "investment securities" to mean marketable obligations evidencing indebtedness of any person, partnership, association, or corporation in the form of bonds, notes, and debentures. The Act further limits the holdings of securities of any one issuer to an amount equal to ten percent of the capital stock and surplus of the bank. These limits, however, do not apply to obligations issued by the United States, general obligations of any state or any political subdivision of any state, and to certain obligations of federal agencies. The restrictions of 12 U.S.C. 24(7) also apply to state member banks under 12 U.S.C. § 335.
- (c) Authorization. The Board has determined that a state member bank may purchase and hold for its own account stock of any investment company (including a money market mutual fund), subject to the following conditions:
  - (1) Investment authority of the investment company. The investment company may have authority, as stated in the investment objectives of its current prospectus, to invest in the following securities and no others: United States Treasury and agency obligations, general obligations of states and municipalities, corporate debt securities, and any other securities designated in 12 U.S.C. § 24(7) as eligible for purchase by national banks that state member banks

are authorized to purchase directly. The investment company may have authority, as stated in the investment objectives of its current prospectus, to enter into futures, forwards and option contracts relating to the above securities when those futures, forwards and option contracts are to be used solely to reduce interest rate risk and not for speculation. The investment company may also have authority, as stated in the investment objectives of its current prospectus, to enter into repurchase agreements and securities lending contracts relating to the securities designated above if those contracts comply with policy statements adopted by the Federal Financial Institutions Examination Council. See 45 Federal Register 18,120 (March 20, 1980) and Federal Reserve Regulatory Service 3-1535, 3-1579.1, and 3-1579.5.

### (2) Limits on investment.

- (i) If the portfolio of the investment company in which a state member bank may invest consists solely of obligations that the bank could purchase without restriction as to amount, or solely of those obligations and futures, forwards, options, repurchase agreements and securities lending contracts relating solely to those obligations, no express limit is placed on investment.
- (ii) If the portfolio of the investment company in which a state member bank may invest includes any securities that the bank could purchase subject to a restriction as to amount, the pro-rata share of holdings of such securities of an issuer indirectly held by a state member bank through its holdings of investment company stock (including money market mutual funds), when aggregated with the direct investment in securities of that issuer by the bank, must not exceed the investment limit.
- (3) Registration of publicly offered investment company stock. Except as provided in section (c)(4), investment company stock purchased by a state member bank must be of an investment company registered with the Securities and Exchange Commission under the Investment Company Act of 1940 and the Securities Act of 1933.
- (4) Privately offered fund. The stock purchased may be of a privately offered fund if the sponsor of the fund is a subsidiary of a bank holding company, and if the stock of the fund is held solely by subsidiaries of the bank holding company.
- (5) Proportionate and undivided interest. The stock purchased must represent an equitable, equal, and proportionate undivided interest in the underlying assets of the investment company.
- (6) Stockholders shielded from liability. The stockholders must be shielded from personal liability for acts and obligations of the investment company.

- (7) Bank investment policy and procedures.
  - (i) The investment policy of the bank, as formally approved by its board of directors, must specifically provide for investment in investment company stock. The investment policy must establish procedures, standards, and controls that relate specifically to investments in investment company stock.
  - (ii) Prior approval of the board of directors of the bank must be obtained for investment in a specific investment company and recorded in the official board minutes.
  - (iii) Unless the investment objectives of the investment companies, as stated in their current prospectuses, restrict investments to those obligations that the state member bank could purchase without restrictions to amount, the bank must review its holdings of investment company stock at least quarterly to ensure that investments have been made in accordance with established bank policies and legal requirements.
- (8) Reporting and accounting. Reporting of holdings of investment company stock must be consistent with established standards for "marketable equity securities." Accordingly, the instructions for the quarterly Reports of Condition and Income and the requirements of the Financial Accounting Standards Board Statement No. 12 must be followed.
  - (i) Holdings of investment company stock must be reported as "All other" securities on Schedule RC-B, Item 4(b) on the quarterly Reports of Condition, unless otherwise directed.
  - (ii) In no case may the carrying value of investment company stock be increased above aggregate cost as a result of net unrealized gains. Holdings of investment company stock must be reported in the Reports of Condition at the lower of their aggregate cost or aggregate market value, determined as of the report date.
  - (iii) Sales fees, both "front end load" and "deferred contingency," must be deducted in calculating market value.
  - (iv) Any net unrealized loss or increase in a previously recorded net unrealized loss must be charged directly against "undivided profits and capital reserves." Subsequent reductions of any net unrealized loss must be credited directly to "undivided profits and capital reserves."
  - (v) A loss on an individual investment that is other than temporary, as that term is used for purposes of FASB Statement No. 12, must be charged to "noninterest expense" on Schedule RI of the Income Statement.
- (d) Evaluation of investment risk. Investments in stock of investment companies and direct investments in

debt securities are not treated the same for accounting, tax, and other purposes. Consequently, state member banks should evaluate investments in investment company stock in light of these differences and give special attention to the risks these differences impose. (e) No effect on state law. This interpretation shall not be construed as exempting a state member bank from any provision of state law.

## AMENDMENT TO REGULATION H

The Board of Governors is adopting three technical amendments to 12 C.F.R. Part 208, its Regulation H. The first change makes it clear that, if a state member bank has filed its Report of Condition and Income ("Call Report") electronically, the signatures on the published copy of the Call Report must be the same as the signatures on the hard copy retained in the bank's files. The second change replaces the current requirement that a state member bank submit a certification of publication to its Reserve Bank with a requirement that it retain a copy of its published Call Report in its files and make it available to examiners upon request. The last change deletes outdated references in Regulation H to a report form concerning state member bank affiliates.

Effective March 1, 1989, pursuant to the Board's authority under section 9 of the Federal Reserve Act, 12 U.S.C. §§ 321 et seq., the Board is amending 12 C.F.R. Part 208 as follows:

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

1. The authority citation for 12 C.F.R. Part 208 continues to read as follows:

Authority: Sections 9, 11(a), 11(c), 19, 21, 25, and 25(a) of the Federal Reserve Act, as amended (12 U.S.C. §§ 321–338, 248(a), 248(c), 461, 481–486, 601, and 611, respectively); sections 4 and 13(j) of the Federal Deposit Insurance Act, as amended (12 U.S.C. §§ 1814 and 1823(j), respectively); section 7(a) of the International Banking Act of 1978 (12 U.S.C. § 3105); sections 907–910 of the International Lending Supervision Act of 1983 (12 U.S.C. §§ 3906-3909); sections 2, 12(b), 12(g), 12(i), 15B(c)(5), 17, 17A, and 23 of the

Securities Exchange Act of 1934 (15 U.S.C. §§ 78b, 78l(b), 78l(g), 78l(i), 78o-4(c)(5), 78q, 78q-1, and 78w, respectively); and section 5155 of the Revised Statutes (12 U.S.C. § 36) as amended by the McFadden Act of 1927.

2. Section 208.10(a)(3) is amended by changing the words "(Form F.R. 105a)" to read "(Forms FFIEC 031-034)" and by revising the last sentence to read as follows:

Section 208.10—[Amended]

All signatures shall be the same in the published statement (although they may be typed or otherwise copied on the report for publication):

- (i) as in the original report submitted to the Federal Reserve Bank if the bank does not submit its report of condition electronically, or
- (ii) as retained in the bank's files in hard copy if the bank has filed its report of condition electronically. The hard copy retained in the bank's file must be made available to examiners upon request.

3. Section 208.10(a)(4) is revised to read as follows:
(a) \*\*\*

(4) \*\*\*

A copy of the printed report shall be retained in the bank's files and made available to examiners upon request.

4. Section 208.10(b) is amended by deleting the first sentence in paragraph (2) and removing the words "attached to the certificate on Form F.R. 220a" at the end of paragraph (3).

### AMENDMENT TO REGULATION H

The Board of Governors is amending 12 C.F.R. Part 208, its Regulation H. The purpose of the amendment is to make available to the public information regarding the financial condition of state member banks and U.S. branches and agencies of foreign banks. The amendment requires state member banks to make banks to make available to shareholders and any member of the public, upon request, information re-

<sup>1.</sup> The Board has issued a cautionary letter in conjunction with this interpretation. This letter recommends that a state member bank avoid undue concentration of investments in the stock of any fund or family of funds and apprises state member banks of the accounting and tax treatment of holding investment company stock. See Federal Reserve Regulatory Service 3-416.16.

garding each such bank's financial condition in the form of the bank's two most recent year-end Reports of Condition and Income ("Call Reports") (OMB No. 7100-0036). As alternatives to furnishing the Call Reports, at each bank's option, persons requesting such information may be given one of the following:

- (1) specified schedules from the two most recent year-end Call Reports;
- (2) in the case of a bank required to file statements and reports pursuant to Regulation H, a copy of the bank's annual report to shareholders for meetings at which directors are elected;
- (3) copies of independently audited financial statements (accompanied by a company of the certificate or report of the independent accountant) if they contain information comparable to that presented in the two most recent year-end Call Report schedules specified for alternative (1) above; or
- (4) in the case of a state member bank that is the only bank subsidiary of a bank holding company, that is majority owned by that bank company, and that has assets equal to 95 percent or more of the bank holding company's consolidated total assets:
  - (A) a copy of the annual report of the one-bank holding company prepared in conformity with the regulations of the Securities and Exchange Commission ("SEC"); or
  - (B) if the holding company has assets of \$150 million or more, copies of those portions of the bank holding company's two most recent yearend Form FR-Y-9C, "Consolidated Financial Statements for Bank Holding Companies With Total Consolidated Assets of \$150 Million or More, or With More Than One Subsidiary Bank" (OMB No. 7100-0128), that are comparable to the Call Report schedules specified for alternative (1) above.

The amendment also requires state licensed agencies of foreign banks and state licensed branches of such banks that are not insured by the Federal Deposit Insurance Corporation to make available, upon request, the following schedules from the two most recent year-end Reports of Assets and Liabilities of U.S. Branches and Agencies of Foreign Banks ("Foreign Branch and Agency Call Reports") (OMB No. 7100-0032): Schedules RAL (Assets and Liabilities), E (Deposit Liabilities and Credit Balances), and P (Other Borrowed Money).

Effective April 1, 1989, pursuant to the Board's authority under section 11 of the Federal Reserve Act of 1913, as amended (12 U.S.C. § 248), and section 7 of the International Banking Act of 1978 (12 U.S.C. § 3105(b)), the Board amends 12 C.F.R. Part 208 as follows:

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

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

Authority: Sections 9, 11, and 21 of the Federal Reserve Act (12 U.S.C. §§ 321-338, 248, and 486, respectively); sections 4 and 13(j) of the Federal Deposit Insurance Act (12 U.S.C. §§ 1814 and 1823(j), respectively); section 7(a) of the International Banking Act of 1978 (12 U.S.C. § 3105); sections 907 - 910 of the International Lending Supervision Act of 1983 (12 U.S.C. §§ 3906 - 3909); sections 2, 12(b), 12(g), 12(i), 15B(c)(5), 17, 17A, and 23 of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78b, 78l(b), 78l (g), 78l(i), 78o-4(c)(5), 78q, 78q-1, and 78w, respectively); and section 5155 of the Revised Statutes (12 U.S.C. § 36) as amended by the McFadden Act of 1927.

2. Section 208.17 is added to read as follows:

Section 208.17—Disclosure of financial information by state member banks

- (a) Purpose and scope. The purpose of this section is to facilitate the dissemination of publicly available information regarding the financial condition of state member banks, state licensed agencies of foreign banks, and state licensed branches of foreign banks that are not insured by the Federal Deposit Insurance Corporation. This section requires all state-chartered banks that are members of the Federal Reserve System and all other covered institutions:
  - (1) to make year-end Call Reports or Reports of Assets and Liabilities of U. S. Branches and Agencies of Foreign Banks or, in the case of state member banks, other alternative financial information, available to shareholders, customers, and the general public upon request; and
  - (2) to advise shareholders and the public of the availability of this information. This section does not amend or modify the publication requirements of section 208.10, or any other section of this regulation.
- (b) Definitions.

For purposes of this section, the following definitions apply:

(1) "Call Report" means the Consolidated Reports of Condition and Income (OMB No. 7100-0036) filed pursuant to 12 U.S.C. § 324 and section 208.10 of this regulation (12 C.F.R. § 208.10).

- (2) "State member bank" means a bank that is chartered by a State and is a member of the Federal Reserve System.
- (3) "Other covered institutions" means state licensed agencies of foreign banks, or state licensed branches of foreign banks that are not insured by the Federal Deposit Insurance Corporation.
- (c) Availability of financial information.
  - (1) Shareholders. Each state member bank shall advise its shareholders, by a written announcement, which may be included in the notice of the annual shareholders' meeting, that one copy of certain financial information is available free of charge upon request. The announcement shall include, at a minimum, an address or telephone number to which requests may be directed.
  - (2) General public. State member banks and other covered institutions shall use reasonable means at their disposal to advise the public of the availability of information pursuant to this section. Bankers' banks, as defined by the Federal Reserve Act, as amended by the Monetary Control Act of 1980 (Title I of Pub. L. 96–221), and 12 C.F.R. 204.121, are exempt from this requirement. The notification to the public shall state that one copy of the information is available free of charge upon request and state an address or telephone number to which requests may be directed.
- (d) Financial information to be provided by state member banks. The bank shall have discretion to determine which type of information, identified in this subsection, to release. The bank shall make the information it chooses to release available as soon as is reasonably possible but not later than April 1 of the year immediately following the end of the year to which the most recently available information pertains. State member banks shall fulfill the requirements of this section by providing, upon request, at least one free copy to each requestor of the following information:
  - (1) copies of their entire Call Report for the most recent year end and the prior year end, excluding any information for which confidential treatment is permitted pursuant to the Call Report instructions; or
  - (2) copies of only the following schedules from their Call Reports for the most recent year end and the prior year end, excluding any information for which confidential treatment is permitted pursuant to the Call Report instructions:
    - (i) Schedule RC (Balance Sheet);
    - (ii) Schedule RC-N (Past Due and Nonaccrual Loans and Leases);
    - (iii) Schedule RI (Income Statement);

- (iv) Schedule RI-A (Changes in Equity Capital); and
- (v) Schedule RI-B (Charge-offs and Recoveries and Changes in Allowance for Loan and Lease Losses)—Part I may be omitted; or
- (3) in the case of a bank required to file statements and reports pursuant to the Board's Regulation H a copy of the bank's annual report to shareholders for meetings at which directors are to be elected or the bank's annual report; or
- (4) in the case of a bank with independently audited financial statements, copies of the audited financial statements and the certificate or report of the independent accountant if such statements contain information for the two most recent year ends comparable to that specified in subsection (d)(2); or
- (5) in the case of a bank that is the only bank subsidiary of a bank holding company, that is majority owned by that bank holding company, and that has assets equal to 95 percent or more of the bank holding company's consolidated total assets, a copy of either:
  - (i) the annual report of the bank holding company prepared in conformity with the regulations of the Securities and Exchange Commission; or
  - (ii) if the holding company as consolidated assets of \$150 million or more, the sections in the bank holding company's consolidated financial statements for the most recent year end and the prior year end on Form FR-Y-9C ("Consolidated Financial Statements for Bank Holding Companies With Total Consolidated Assets of \$150 Million or More, or With More Than One Subsidiary Bank" (OMB No. 7100-0128)) prepared pursuant to the Board's Regulation Y, and comparable to the Call Report schedules enumerated in paragraph (d)(2) of this section.
- (e) Financial information to be provided by other covered institutions. Other covered institutions shall fulfill the requirements of this section by providing, upon request, at least one free copy to each requestor of the following schedules from the Report of Assets and Liabilities of U. S. Branches and Agencies of Foreign Banks (OMB No. 7100-0032) for the most recent year end and the prior year end:
  - (1) Schedule RAL (Assets and Liabilities);
  - (2) Schedule E (Deposit Liabilities and Credit Balances);
  - (3) Schedule P (Other Borrowed Money).

The institution shall make the information available as soon as is reasonably possible but not later than April 1 of the year immediately following the end of the year to which the most recently available information pertains.

(f) Disclaimer. The following legend shall be included with any financial information provided pursuant to this section: "This financial information has not been reviewed, or confirmed for accuracy or relevance, by the Federal Reserve System."

(g) This section is not intended to create a private right of faction against any institution disclosing documents pursuant to this section.

ORDERS ISSUED UNDER THE BANK HOLDING COMPANY ACT

Orders Issued Under Section 3 of the Bank Holding Company Act

China Trust Holdings Corp. New York, New York

China Trust Capital B.V. The Netherlands

China Trust Holdings N.V. Curação, Netherlands Antilles

Order Approving the Formation of Bank Holding Companies

China Trust Holdings N.V., Curacao, Netherlands Antilles ("Holdings N.V."); China Trust Capital B.V., The Netherlands ("Capital"); and China Trust Holdings Corp., New York, New York ("Holdings Corp.") (collectively referred to as "Applicants"), have applied for the Board's approval under section 3(a)(1) of the Bank Holding Company Act, as amended ("BHC Act") (12 U.S.C. § 1842(a)(1)), to become bank holding companies through the acquisition by Holdings Corp. of all (100 percent) of the voting shares of China Trust Bank, New York, New York ("Bank").

Notice of the applications, affording an opportunity for interested persons to submit comments, has been given in accordance with section 3(b) of the BHC Act (12 U.S.C. § 1842(b)) (53 Federal Register 46,661 (1988)). The time for filing comments has expired, and the Board has considered the applications and all comments received in light of the factors set forth in section 3(c) of the BHC Act (12 U.S.C. § 1842(c)).

Applicants, all non-operating corporations, were organized for the purpose of becoming bank holding companies by acquiring Bank, a de novo bank. Bank will operate in the Metropolitan New York—New Jersey market.<sup>2</sup> The principals of Applicants are not affiliated with any other depository institutions in this market. Based on all the facts of record, the Board believes that consummation of the proposal would not result in any adverse effects upon competition or increase in the concentration of banking resources in any relevant area. Accordingly, the Board concludes that competitive considerations under the BHC Act are consistent with approval.

Based upon the facts of record, including certain commitments made by Applicants' principals, the financial and managerial resources of Applicants and Bank are consistent with approval. Considerations relating to the convenience and needs of the communities to be served are also consistent with approval.

Based on the foregoing and all the facts of record and the commitments offered in this case, the Board has determined that the applications should be, and hereby are, approved. The transaction shall not be consummated before the thirtieth calendar day following the effective date of this Order, or later than three months after the effective date of this Order, unless such period is extended for good cause by the Board or the Federal Reserve Bank of New York, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 10, 1989.

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

> JENNIFER J. JOHNSON Associate Secretary of the Board

Credit and Commerce American Holdings, N.V. Curação, Netherlands Antilles

Order Approving Acquisition of a Bank

Credit and Commerce American Holdings, N.V., Curacao, Netherlands Antilles ("CCAH"); Credit and Commerce American Investment, B.V., Amsterdam, The Netherlands ("Credit and Commerce"); First American Corporation, Washington, D.C. ("First

<sup>1.</sup> Holdings N.V. will own 100 percent of the voting shares of Capital; Capital will own 100 percent of the voting shares of Holdings

Corp.; and Holdings Corp. will own 100 percent of the voting shares

<sup>2.</sup> The Metropolitan New York - New Jersey market includes New York City; Nassau, Orange, Putnam, Rockland, Suffolk, Sullivan, and Westchester Counties in New York; Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, and Warren Counties in New Jersey; and parts of Fairfield County in Connecticut.

American"); First American Bankshares, Inc., Washington, D.C., Georgia Bankshares, Inc., Atlanta, Georgia; and National Bank of Georgia Corporation, Atlanta, Georgia (collectively, "Applicants"), bank holding companies within the meaning of the Bank Holding Company Act (the "BHC Act") (12 U.S.C. § 1842(a)(3)), have applied for the Board's approval under section 3(a)(3) of the BHC Act to retain 100 percent of the outstanding voting shares of Bank of Escambia, N.A., Pensacola, Florida ("Bank").

Notice of the applications, affording interested persons an opportunity to submit comments, has been published (53 Federal Register 30,467 (1988)). The time for filing comments has expired, and the Board has considered the applications and all comments received in light of the factors set forth in section 3(c) of the BHC Act.

The Douglas Amendment to the BHC Act prohibits the Board from approving an application by a bank holding company to acquire a bank located outside the bank holding company's home state, unless such acquisition is "specifically authorized by the statute laws of the state in which such bank is located, by language to that effect and not merely by implication."

The statute laws of Florida expressly authorize the acquisition of a banking institution in Florida by a bank holding company located in a state in a defined region, which includes Virginia, if that other state authorizes the acquisition of a financial institution in that state on a reciprocal basis by a Florida bank holding company.<sup>3</sup> Virginia law expressly authorizes the acquisition of a banking organization in Virginia by a Florida bank holding company on a reciprocal basis.<sup>4</sup> The Florida State Comptroller has approved Applicants' proposal pursuant to the Florida statute. In light of the foregoing, the Board has determined that its approval of the proposal is not prohibited by the Douglas Amendment.

Applicants operate seven banking subsidiaries located in the District of Columbia, Georgia, Maryland, New York, Tennessee, and Virginia. CCAH is the seventh largest banking organization in Virginia, controlling deposits of \$2.64 billion, representing 5.9 per-

cent of the total deposits in commercial banks in Virginia.<sup>5</sup> Bank is one of the smaller commercial banking organizations in Florida, controlling deposits of \$27.0 million, representing less than one percent of total deposits in commercial banks in the state.<sup>6</sup> Consummation of the proposal would not have any significant adverse effect upon the concentration of banking resources in Virginia or Florida.

Applicants and Bank do not compete directly in any banking market. Accordingly, consummation of the proposal would not eliminate any significant existing competition in any relevant banking market. Consummation also would not have any significant adverse effect on probable future competition in any relevant banking market.

The financial and managerial resources of Applicants and their subsidiaries as well as Bank are consistent with approval.

In considering the convenience and needs of the communities to be served, the Board concludes that Applicants' records under the Community Reinvestment Act ("CRA") are consistent with approval, especially in light of First American's commitment to strengthen its record with regard to the CRA activities of one of its subsidiary banks. The bank has developed a report to monitor its CRA activities, including the ascertainment of community credit needs, an effort which will be aided by the bank's board of directors and CRA committee. The bank has also increased its community outreach activities, including a commitment to a marketing program that informs the public of its product offerings and is targeted to include minority areas of its community.

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

By order of the Board of Governors, effective February 16, 1989.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

The shares of Bank were acquired by National Bank of Georgia Corporation, Atlanta, Georgia, a subsidiary of Credit and Commerce, in satisfaction of a debt previously contracted.

<sup>2. 12</sup> U.S.C. § 1842(d). A bank holding company's home state for purposes of the Douglas Amendment is that state in which the total deposits of its banking subsidiaries were largest on July 1, 1966, or on the date it became a bank holding company, whichever date is later. Applicants' home state is Virginia.

<sup>3.</sup> Fla. Stat. Ann. § 658.295 (West 1984). Florida law also requires that the applicant must have in excess of 80 percent of its total deposits in its bank subsidiaries in the Southern region. Applicants satisfy this requirement.

<sup>4.</sup> Va. Code § 6.1-399 (1988).

<sup>5.</sup> Data are as of December 31, 1987.

<sup>6.</sup> Data are as of June 30, 1988.

Continental Bank Corporation Chicago, Illinois

Continental Illinois Bancorp, Inc. Chicago, Illinois

Order Denying Acquisition of a Bank

Continental Bank Corporation, Chicago, Illinois, and Continental Illinois Bancorp, Inc., Chicago, Illinois (together, "Continental"), both bank holding companies within the meaning of the Bank Holding Company Act ("BHC Act"), have applied for the Board's approval under section 3 of the BHC Act (12 U.S.C. § 1842) to acquire 100 percent of the voting shares of Grand Canyon State Bank, Scottsdale, Arizona ("Grand Canyon").

Notice of the application, affording interested persons an opportunity to submit comments, has been published (53 Federal Register 2,092 (1988)). The time for filing comments has expired, and the Board has considered the application and all comments received in light of the factors set forth in section 3(c) of the BHC Act.

Continental is the second largest commercial banking organization in Illinois, controlling deposits of approximately \$8.3 billion, representing approximately 7.8 percent of total deposits in commercial banking organizations ("total bank deposits") in Illinois. Grand Canyon is one of the smaller commercial banking organizations in Arizona, controlling deposits of approximately \$14.6 million.2

In its evaluation of the convenience and needs of the communities to be served, the Board has taken into account the record of Continental's subsidiary bank, Continental Bank, N.A. ("Bank"), in fulfilling its responsibilities under the Community Reinvestment Act ("CRA") to help meet the credit needs of its entire community. The CRA requires the federal bank supervisory agencies to encourage financial institutions to help meet the credit needs of the local communities in which they are chartered consistent with the safe and sound operation of such institutions. To accomplish this end, the CRA requires the appropriate federal supervisory authority, in connection with its examination of an institution, to "assess the institution's record of meeting the credit needs of its entire community, including low- and moderate-income neighborhoods, consistent with the safe and sound operation of the institution." 12 U.S.C. § 2903. The Board is required to "take such record into account in its

evaluation" of applications by bank holding companies under section 3 of the BHC Act to acquire additional banks. See 12 C.F.R. 225.13(b)(3).

The Board's experience over the years in examining bank performance under the CRA has indicated that institutions with effective programs to help meet community credit needs share a number of elements. These institutions maintain outreach programs that include procedures to permit effective communication between the bank and various segments of the community, and formalized methods for incorporating findings regarding community credit needs into the development and delivery of products and services. The bank monitors institutional performance at senior management levels and periodically evaluates new opportunities for innovative lending programs, such as home mortgage and neighborhood residential rehabilitation lending and similar programs, designed to meet the credit needs of its designated community, including those of low- and moderate-income persons. An effective program also includes the use of specifically designed marketing and advertising plans to stimulate public-awareness of the bank's services throughout the community, including low- and moderate-income neighborhoods, as well as support of community development projects and programs.

The Board has stated that the CRA "provisions were intended to cover all banks that are in the business of extending credit to the public, including both 'wholesale' and 'retail' banks," because "[the] lending activities of these banks affect the economic health of the communities in which they are chartered." Although the CRA was not intended to limit an institution's discretion to develop the types of products and services it believes are best suited to its expertise and business objectives and to the needs of its community, the institution's program must meet the objectives of the CRA. The Board expects all banks to ascertain the needs of the community and to undertake to accommodate those needs, including the needs of the low- and moderate-income areas of the community.

With regard to wholesale banks that generally are not active providers of consumer credit and services on a retail basis, these activities may, for example, include lending to inner-city revitalization efforts, supporting state and local governmental financing efforts, lending to small or minority-owned businesses, lending support for low-income multi-family rehabilitation and new construction projects, lending to or otherwise financing non-profit developers of low-income housing and small business development, or financing major

<sup>1.</sup> Data are as of June 30, 1987.

<sup>2.</sup> Data are as of September 30, 1988.

<sup>3. 12</sup> C.F.R. 228.100.

upgrades and/or expansion of industrial plants that would otherwise relocate outside of the city served by the bank.

In the Board's opinion, financial institutions that make meeting their responsibilities under the CRA a part of their management and operational structure are best able to accomplish the goals of the statute. In that light, the Board expects banking organizations to have addressed their CRA responsibilities before the submission of applications to the Board. This is in accord with the requirements of the CRA, under which an institution's record of performance in helping to meet the credit needs of its entire community is a critical factor in determining whether the institution has lived up to its responsibilities under the statute.

In this case, the Board has noted important deficiencies in Bank's CRA performance, including the absence until quite recently of a program containing the elements outlined above and in applicable agency regulations. In response to issues raised by a public commenter regarding Bank's record in meeting the credit needs of its community, the Federal Reserve Bank of Chicago, in early 1988, performed an evaluation of Bank's CRA activities to resolve these issues. That evaluation indicated a number of areas of concern with Bank's CRA performance, including a misunderstanding on the part of Bank staff and management of the requirements of the CRA.

For example, it appeared to be Bank's view that it could meet its CRA responsibilities in the normal course of its commercial lending business and it did not monitor or promote specific CRA activities. Continental did not have a plan as to how the Bank was to meet its responsibilities under the CRA. Bank's CRA officer did not interact substantially with other staff, and Bank's board of directors confined CRA compliance discussions to approval of a formal annual CRA statement. These CRA statements were substantially inaccurate for a number of years, listing products which were not routinely offered by the Bank. The Bank made no significant effort to ascertain the credit needs of its communities or to advertise its products to the community. Finally, given Continental's size, as well as the opportunities available in the Chicago area, Bank's participation in community development and redevelopment efforts was unsatisfactory.

In response to these concerns, Continental submitted a plan to promote Bank's compliance with its responsibilities under the CRA, particularly with respect to the ascertainment of community credit needs, outreach efforts to its community, awareness of CRA responsibilities, and internal monitoring of CRA compliance. As part of its proposal, Bank intends to provide additional training to its managers regarding Bank's CRA policies and programs and to require its

CRA officers and branch managers to meet with representatives of local community organizations to discuss the credit needs of the community. Several training sessions have been held, and representatives of Continental have begun meeting with neighborhood organizations, governmental entities, and community groups to discuss Continental's new CRA plan and CRA activities.

Furthermore, each of Continental's business units has appointed CRA liaisons who will be responsible for identifying credit needs in the local community, channeling information between the community, other lenders within the unit, and the CRA officer, and designing, implementing and marketing CRA-related products and services. Continental's board of directors will also hold semi-annual meetings to discuss the bank's progress in meeting its CRA responsibilities. Continental proposes an increase in its CRA-related loans and has committed to pursue actively the financial needs of privately held small businesses, with strong attention to those businesses and financial institutions owned by minorities and women, and those servicing low- and moderate-income neighborhoods. Continental has stated that it will seek referrals about such businesses from existing borrowers who are operating similar businesses, and will examine the possibility of participations with a minority-owned or community bank in a low- or moderate-income neighborhood. Bank expects to complete a comprehensive community credit needs ascertainment study by June 30, 1989.

The Board believes that Continental's CRA plan, when implemented, should make a substantial contribution to correcting the past deficiencies in Bank's CRA performance. The plan and Bank's progress in implementing that plan indicates an improved awareness by Bank of its responsibilities under the CRA and that Bank has adopted as an affirmative management objective a program to work toward achieving compliance with those responsibilities.

The Board has, in the past, taken CRA improvement commitments from bank holding companies into account in considering the performance of subsidiary banks under CRA. The Board believes this is only appropriate, however, when there has been a basic level of compliance on which the commitments can be evaluated. As noted above, that is not the situation in the case now before the Board. Moreover, the Board wishes to stress that banking organizations should address their CRA responsibilities and implement the necessary policies before they file an application with the Board. The Board does not believe that commitments by themselves can serve as a substitute for the established record of CRA performance required by the statute. Accordingly, while the Board believes that

Bank has evidenced an improved understanding of its CRA responsibilities, its record of performance in the past has been inadequate and, until corrected, weighs against approval of this application.

In the course of reviewing this application, the Board has also considered the public policy concerns raised by the Federal Deposit Insurance Corporation's ("FDIC") ongoing assistance agreement with Continental, particularly with regard to the propriety of Continental's proposed expansion plans while the institution is still funded in part by the FDIC and subject to FDIC control.

The Board believes this situation raises important public policy concerns with regard to the potential for distortion of competition due to continued use of government provided capital in competition with private capital. In this situation, careful consideration must be given to expansion of activities where the growth is in effect being financed with public funds. In this case, the proposed acquisition would represent an interstate expansion which would not, in the Board's opinion, so substantially further the goals of the Federal Deposit Insurance Act aimed at stabilizing troubled institutions as to outweigh the significant public policy concerns noted above.

Based upon Bank's inadequate CRA performance as well as the adverse effects on competition resulting from the continued government ownership of Bank, the Board finds that the approval of this application would not serve the convenience and needs of the community.

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

By order of the Board of Governors, effective February 15, 1989.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

Dissenting Statement of Governors Heller and LaWare

We believe that the record in this case on balance supports approval of this application.

As the majority recognizes, Continental has taken substantial steps to address its responsibilities under the Community Reinvestment Act and to improve its performance in the areas noted by the supervisory authorities. In our view, Continental's plan, and the progress Continental has made in implementing the plan, should be given substantial positive weight in the evaluation of this application, consistent with the Board's practice.

We recognize the public policy concerns raised by the majority regarding the continued FDIC ownership of Continental. We note, however, that the FDIC has made substantial progress in returning the Bank to private ownership and is continuing its efforts to achieve this goal. Furthermore, we believe that this acquisition would be consistent with prior Board precedent regarding the expansion of Continental's operations and the maintenance of the organization's competitive position.

Accordingly, we dissent from the Board's decision denying the application.

February 15, 1989

Public Bank Holding Company, Inc. Wilmington, Delaware

Order Approving Formation of a Bank Holding Company

Public Bank Holding Company, Inc., Wilmington, Delaware ("Public"), has applied for the Board's approval pursuant to section 3(a)(1) of the Bank Holding Company Act ("Act"), (12 U.S.C. § 1841 et seq.), to become a bank holding company by acquiring 100 percent of the voting shares of The First Women's Bank, New York, New York ("Bank").

Notice of the application, affording interested persons an opportunity to submit comments, has been duly published (53 Federal Register 26,117 (1988)). The time for filing comments has expired, and the Board has considered the application and all comments received in light of the factors set forth in section 3(c) of the Act.

Public is a non-operating company formed for the purpose of acquiring Bank. Bank is the 34th largest commercial banking organization in New York, controlling deposits of \$415.9 million, representing less than one percent of the total deposits in commercial banking organizations in the state. This proposal represents a restructuring of existing ownership interests. Consummation of this proposal would not result in any significant adverse effect on the concentration of banking resources in New York.

<sup>1.</sup> State banking data are as of June 30, 1988. Market data are as of June 30, 1987.

Bank competes in the Metropolitan New York-New Jersey banking market, and its deposits represent less than one percent of the total deposits in commercial banking organizations in the market.<sup>2</sup> Principals of Public and Bank are not associated with any other banking organization in the market. Based on the facts of record, consummation of this proposal would not result in any adverse effects upon competition or increase the concentration of banking resources in any relevant market. Accordingly, the Board concludes that competitive considerations are consistent with approval of this application.

The Board also has considered Public's and Bank's managerial resources, particularly with regard to Bank's previous violations of the Currency and Foreign Transactions Reporting Act (31 U.S.C. § 5311 et seq.) ("CFTRA") uncovered in an examination of Bank in 1985. Since the reporting violations were discovered, Bank's management and ownership have changed, and Bank has undertaken comprehensive remedial and preventative actions with regard to its reporting program.3 In addition, a recent examination of Bank indicates that its CFTRA compliance program and reporting record since the management change is satisfactory. Based on these considerations, and all other facts of record, the Board concludes that Public's and Bank's overall compliance with CFTRA is satisfactory and that Public's and Bank's managerial resources therefore are consistent with approval of this proposal.

The financial resources of Public and Bank are consistent with approval of this application. In addition, considerations relating to the convenience and needs of the communities to be served by Public and Bank also are consistent with approval.

Based on the foregoing and other facts of record, the Board has determined that the application should be, and hereby is, approved. The proposal shall not be consummated before the thirtieth calendar day following the effective date of this Order, or later than three months after the effective date of this Order, unless such period is extended for good cause by the Board or the Federal Reserve Bank of New York, acting pursuant to delegated authority.

By order of the Board of Governors, effective February 28, 1989.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

United Community Corporation BancFirst and Trust Company Oklahoma City, Oklahoma

Order Approving Acquisition of Bank and Merger of Banking Subsidiaries

United Community Corporation, Oklahoma City, Oklahoma ("UCC"), a bank holding company within the meaning of the Bank Holding Company Act (12 U.S.C. § 1841 et seq.), ("BHC Act"), has applied for the Board's approval under section 3(a)(3) of the BHC Act to acquire 98.1 percent of the voting shares of BancFirst and Trust Company, Oklahoma City, Oklahoma ("BancFirst"), a de novo bank. In addition, BancFirst has applied for the Board's approval under the Bank Merger Act (12 U.S.C. § 1828(c)) to merge with the twelve subsidiary banks of UCC listed in Appendix A under the charter and title of BancFirst. After the proposed merger, the existing offices of the twelve subsidiary banks of UCC would become branch offices of BancFirst.

In connection with this proposal, BancFirst has applied to the Board under section 9 of the Federal Reserve Act (12 U.S.C. § 321) to become a member of the Federal Reserve System. BancFirst has also applied for the Board's approval under section 5(b) of the Service Corporation Act, as amended (12 U.S.C. § 1861 et seq.), to acquire approximately 70 percent of the shares of United Community Mortgage Company, Oklahoma City, Oklahoma ("UCMC"), a bank service corporation engaged in mortgage banking activities and owned jointly by the twelve banks to be merged.1

Notice of the applications, affording interested persons the opportunity to submit comments, has been published (53 Federal Register 43,771 (1988)). The time for filing comments has expired, and the Board has considered the applications and all comments received in light of the factors and considerations set forth in the foregoing statutes.<sup>2</sup>

<sup>2.</sup> The Metropolitan New York-New Jersey banking market is approximated by New York City; Nassau, Orange, Putnam, Rockland, Suffolk, Sullivan, and Westchester Counties in New York; Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union, and Warren Counties in New Jersey; and parts of Fairfield County in Connecticut.

<sup>3.</sup> Based on a report of this examination, the Department of Treasury has assessed \$80,000 in civil money penalties against Bank.

<sup>1.</sup> The Board has previously authorized UCMC, pursuant to the Bank Service Corporation Act, to engage directly and through its subsidiary, Citizen's Mortgage Corporation, in the activity of providing mortgage banking services. American Bank of Commerce/United Community Mortgage Company, 70 FEDERAL RESERVE BULLETIN 535 (1984). Upon consummation of the proposed merger, the name of UCMC would be changed to BancFirst Service Corporation.

The Board received two comments in opposition to this proposal, relating to a credit application of an individual customer and to the

UCC is the fourth largest banking organization in Oklahoma, controlling deposits of \$660 million, representing approximately three percent of the total deposits in commercial banking organizations in the state.<sup>3</sup> The proposal by UCC represents a corporate reorganization under which UCC's existing banking subsidiaries would be merged into BancFirst, a *de novo* bank. Accordingly, the acquisition by UCC of BancFirst would have no adverse effects on the concentration of banking resources in Oklahoma or on competition in any relevant banking market.

Where the principal of an applicant controls other banking organizations, the Board considers the financial and managerial resources and future prospects of all the institutions comprising the chain. UCC's principal controls a number of other commercial banking organizations in Oklahoma.4 Accordingly, the banks involved and the affiliated banking organizations have been reviewed in light of the Board's Capital Adequacy Guidelines, 5 which are generally applicable to bank holding companies and chain banking organizations with total assets of over \$150 million.6 Based upon the record, the financial and managerial resources of UCC and the affiliated banks are consistent with approval. No additional debt will be incurred in connection with the acquisition by BancFirst. Considerations relating to the convenience and needs of the communities to be served also are consistent with approval.

The Board has also considered the factors it is required to consider when approving applications for membership in the Federal Reserve System pursuant to section 9 of the Federal Reserve Act and finds those factors to be consistent with approval. In addition, the Board has considered the factors it is required to consider when acting on applications under the Bank Service Corporation Act and finds those factors to be consistent with approval. Based on the foregoing and other facts of record, and subject to resolutions of UCC and BancFirst, the Board has determined that the applications should be and hereby are approved.

The acquisition by UCC of BancFirst and the merger of UCC's twelve subsidiary banks into Banc-First shall not be consummated before the thirtieth

First shall not be consummated before the thirtieth

effect of the proposal on competition in Oklahoma. In light of the facts of record of this case, the Board has determined that these comments do not warrant denial of the applications.

calendar day following the effective date of this Order or later than three months after the effective date of this Order, and BancFirst shall be opened for business not later than six months after the effective date of this Order. These time periods may be extended for good cause by the Board or by the Federal Reserve Bank of Kansas City, pursuant to delegated authority.

By order of the Board of Governors, effective February 10, 1989.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

Orders Issued Under Section 4 of the Bank Holding Company Act

The Nippon Credit Bank, Ltd. Tokyo, Japan

Order Approving Application to Acquire a Company Engaged in Certain Securities, Foreign Exchange and Financial Advisory Activities

The Nippon Credit Bank, Ltd., Tokyo, Japan ("Nippon Credit Bank"), a foreign bank subject to the Bank Holding Company Act ("BHC Act"), has applied for the Board's approval under section 4(c)(8) of the BHC Act (12 U.S.C. § 1843(c)(8)) and section 225.23 of the Board's Regulation Y (12 C.F.R. 225.23), to acquire Eastbridge Capital Inc., New York, New York ("Eastbridge"), which will engage in the following activities that the Board has determined by regulation or order to be closely related to banking and generally permissible for bank holding companies:

- (1) underwriting and dealing in obligations of the United States, general obligations of states and their political subdivisions, and other obligations that a state member bank of the Federal Reserve System may underwrite and deal in ("bank-eligible securities") pursuant to 12 C.F.R. 225.25(b)(16);<sup>1</sup>
- (2) providing transactional services with respect to foreign exchange by arranging for "swaps" among customers with complementary foreign exchange

<sup>3.</sup> Banking data are as of December 31, 1987.

<sup>4.</sup> See United Community Corporation, 71 FEDERAL RESERVE BULLETIN 589 (1985). The Board considered the competitive effects of the transactions whereby common control of the organizations was established in that case and determined the affiliations did not substantially lessen competition in any relevant market.

<sup>5. 12</sup> C.F.R. Parts 208, 225, 263.

The combined banking assets of the chain were \$1.04 billion as of June 30, 1988.

<sup>1.</sup> Eastbridge will also engage in the following incidental activities: engaging in repurchase and reverse repurchase transactions on such securities, collateralized borrowing and lending of such securities, and providing clearing, settling, accounting, record keeping and other ancillary services to those counterparties with which it deals that do not maintain accounts with clearing agencies. The Long-Term Credit Bank of Japan, 74 FEDERAL RESERVE BULLETIN 573 (1988); The Sanwa Bank, Limited, 74 FEDERAL RESERVE BULLETIN 578 (1988).

exposures and for the execution of foreign exchange transactions pursuant to 12 C.F.R. 225.25(b)(17);

- (3) providing portfolio investment advice and research and furnishing general economic information and advice, general economic statistical forecasting services and industry studies with respect to a customer's entire portfolio of bank-eligible securities in connection with and as an incident to the proposed bank-eligible securities activities, but not in connection with any of its brokerage activities, pursuant to 12 C.F.R. 225.25(b)(4)(iii) and (iv);<sup>2</sup> (4) providing financial advice to state and local governments pursuant to 12 C.F.R. 225.25(b)(4)(v); (5) purchasing and selling as agent municipal revenue bonds under limited circumstances pursuant to 12 C.F.R. 225.25(b)(15);<sup>3</sup>
- (6) providing, on an explicit-fee basis, discretionary management of short-term monies for a small number of institutional customers;<sup>4</sup>
- (7) providing advice in connection with merger, acquisition/divestiture and financing transactions, valuations and fairness opinions in connection with merger, acquisition and similar transactions, all for unaffiliated financial and nonfinancial institutional customers;<sup>5</sup>
- (8) dealing in foreign exchange spot contracts for Eastbridge's own account;6
- (9) purchasing and selling futures, forward and options contracts for foreign exchange for Eastbridge's own account for hedging purposes only in accordance with 12 C.F.R. 225.142 and providing transactional services for such activities;<sup>7</sup>

- (10) purchasing and selling futures, forward and options contracts for bank-eligible securities for hedging purposes only in accordance with 12 C.F.R. 225.142;8 and
- (11) acting as an "introducing broker" only with respect to transactions in exchange-traded futures and options contracts on bank-eligible securities and foreign exchange. Eastbridge also proposes to engage in the following activity that has not been expressly approved by Board regulation or Order: providing advice in connection with the structuring of and arranging for interest rate and currency "swaps", interest rate "caps" and similar transactions.

Notice of the application, affording interested persons an opportunity to submit comments, has been duly published (54 Federal Register 1,236 (1989)). 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.

Nippon Credit Bank, with total assets equivalent to approximately \$110.7 billion, is the 37th largest banking organization in the world. <sup>10</sup> It is subject to the BHC Act by virtue of owning a New York Statelicensed branch in New York and a California Statelicensed agency in Los Angeles.

The Board has previously determined that all of the proposed activities, except providing advice relating to the structuring of and arranging for currency "swaps", are closely related to banking and the Board reaffirms its determinations on these activities. Regarding advice on currency "swaps", most banks that provide advice relating to interest rate "swaps" also provide advice relating to currency "swaps." Additionally, providing advice relating to currency "swaps" is functionally and operationally similar to providing advice relating to the structuring of and

<sup>2.</sup> Eastbridge will disclose its interest as principal, or that of Nippon Credit Bank, whenever Eastbridge provides advice regarding a bankeligible security that is held by it, Nippon Credit Bank, or any affiliate of Nippon Credit Bank for its own account. In conducting this activity, Eastbridge may occasionally give advice with respect to bank-ineligible securities, at times for a separate fee.

<sup>3.</sup> These circumstances would involve an institutional customer's request to Eastbridge to locate other dealers in municipal securities or other institutional customers who may wish to purchase or to sell municipal revenue bonds. Eastbridge will not purchase such securities for its own account, will not privately place such securities for issuers either as principal or agent, and will broker municipal revenue bonds only in connection with secondary trades.

<sup>4.</sup> This activity will be conducted in accordance with the limitations set forth in *Sovran Financial Corporation*, 73 FEDERAL RESERVE BULLETIN 744 (1987).

<sup>5.</sup> This activity will be conducted in accordance with the limitations on financial feasibility studies set forth in Signet Banking Corporation, 73 FEDERAL RESERVE BULLETIN 59 (1987).

<sup>6.</sup> The Long-Term Credit Bank of Japan, supra. See also The Hongkong and Shanghai Banking Corporation, 75 FEDERAL RESERVE BULLETIN 217 (1989); and Standard and Chartered Group, Ltd., 38 Federal Register 27,552 (1973).

<sup>7.</sup> See The Hongkong and Shanghai Banking Corporation, supra. See also Midland Bank, PLC, 74 FEDERAL RESERVE BULLETIN 577 (1988). Nippon Credit Bank has represented that this activity will not constitute a substantial part of its foreign exchange dealing and will be an incidental activity to support positions it takes in the spot foreign exchange market.

<sup>8.</sup> The Long-Term Credit Bank of Japan, supra.

<sup>9.</sup> As an "introducing broker", Eastbridge would receive customer orders to purchase and to sell these contracts and pass them on to an unaffiliated futures commission merchant ("FCM") for execution, clearing and settlement. Eastbridge will not take a position as principal in such contracts and will conduct this activity in accordance with section 225.25(b)(18) of the Board's Regulation Y (12 C.F.R. 225.25(b)(18)). The Board has previously approved "introducing broker" activities as a preliminary step before engaging in FCM activities. The Sanwa Bank, Limited, supra.

<sup>10.</sup> Asset and banking data are as of September 30, 1988. Ranking is as of March 31, 1988.

<sup>11.</sup> Advice on interest rate "swaps" and "caps" and "similar transactions" has been previously approved by the Board in Signet Banking Corporation, supra. A currency "swap" is a transaction between two parties in which they agree to exchange streams of payments denominated in different currencies on one or more future dates, most commonly on the basis of predetermined fixed sums or the product of a principal multiplied by a fixed or floating interest rate.

arranging for interest rate "swaps" and interest rate "caps." Both transactions have the common objectives of securing low cost funds and converting one type of risk to another, and both transactions require similar documentation. Accordingly, the Board concludes that the proposed activity is closely related to banking and similar to transactions previously approved by Board Order.

In order to approve this application, the Board must also find that performance of the proposed activities "can reasonably be expected to produce benefits to the public . . . 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).

In regard to conflicts of interests, the application raises a potential conflict between Eastbridge's proposal to take positions and execute trades in foreign exchange, and section 225.25(b)(17) of the Board's Regulation Y, which prohibits a company that arranges for foreign exchange transactional services from either taking positions for its own account or executing its own trades. 13 These prohibitions are based on a potential conflict of interest in performing the combined activities of giving foreign exchange advice, taking positions in foreign exchange and executing trades.14 Eastbridge will not, however, provide advice to customers on foreign exchange exposures or on investment in foreign currency. Furthermore, the limited extent of Eastbridge's foreign exchange dealing and execution activities, and the sophistication of its customers, who can turn to many other banks or nonbanking firms for services, minimize the potential for a conflict in the proposed combined activities. 15

In every case involving a nonbanking acquisition by a bank holding company under section 4 of the BHC Act, the Board considers the financial condition and resources of the applicant and its subsidiaries and the effect of the transaction on these resources. 16 In accordance with the principles of national treatment and competitive equity, the Board has stated it expects a foreign bank to meet the same general standards of financial strength as domestic bank holding companies and to be able to serve as a source of strength to its United States banking operations.<sup>17</sup> In considering applications of foreign banking organizations, the Board has noted that foreign banks operate outside the United States in accordance with different regulatory and supervisory requirements, accounting principles, asset-quality standards, and banking practices and traditions, and that these differences make it difficult to compare the capital positions of domestic and foreign banks. In the past, the Board has addressed the complex issues involved in balancing these concerns in the context of individual applications on a caseby-case basis, making adjustments as appropriate to an applicant's capital to reflect differences in accounting treatment and regulatory practices.

The Board recently has adopted a proposal to supplement its consideration of capital adequacy with a riskbased system that is simultaneously being proposed by the member countries of the Basle Committee on Banking Regulations and Supervisory Practices and the other domestic federal banking agencies.18 The Japanese Ministry of Finance in April of last year acted to implement for Japanese banking organizations the risk-based capital framework developed by the Basle Committee. The Board considers the Basle Committee proposal an important step toward a more consistent and equitable international norm for assessing capital adequacy. Until that framework becomes effective, however, the Board will continue to evaluate applications involving foreign banking organizations on a case-by-case basis consistent with its prior precedent.

In this case, the primary capital ratio of Nippon Credit Bank, as publicly reported, is well below the 5.5

<sup>12.</sup> In National Courier Association v. Board of Governors, 516 F.2d 1229 (D.C. Cir. 1975), the court concluded that an activity would be closely related to banking if it is demonstrated that, among other factors, banks generally have, in fact, provided the proposed services or that banks generally provide services that are operationally or functionally so similar to the proposed services as to equip them particularly well to provide the proposed services.

<sup>13.</sup> The Board has previously approved the provision of exchange rate information with trading activities in the same subsidiary. See Midland Bank, PLC, supra. The Board also notes that it has approved prior applications by bank holding companies to conduct combined activities of securities and other nonbanking activities in addition to FCM and investment advice activities in the same subsidiary. See e.g. The Sanwa Bank, Limited, supra (Order approving underwriting and dealing in bank-eligible securities, hedging bank-eligible securities, providing investment advice and research but not in connection with brokerage activities, providing discount brokerage services and acting as an FCM).

<sup>14.</sup> The Hongkong and Shanghai Banking Corporation, 69 FED-ERAL RESERVE BULLETIN 221 (1983).

<sup>15.</sup> The Board has previously noted that in appropriate circumstances the sophistication of institutional customers serves to minimize concerns over conflicts of interests involved when a firm provides both advice and execution services. The Hongkong and Shanghai Banking Corporation, supra. See also National Westminister Bank PLC, 72 FEDERAL RESERVE BULLETIN 584 (1986)

<sup>(</sup>Order approving the combination of investment advice and execution services activities)

<sup>16. 12</sup> C.F.R. 225.24; Bayerische Vereinsbank AG, 73 FEDERAL RESERVE BULLETIN 155, 156 (1987).

<sup>17.</sup> The Long-Term Credit Bank, supra; Sumitomo Trust & Banking Co., Ltd., 73 FEDERAL RESERVE BULLETIN 749 (1987); Ljubljanska Banka-Associated Bank, 72 FEDERAL RESERVE BULLETIN 489 (1986); The Mitsubishi Trust and Banking Corporation, 72 FEDERAL RESERVE BULLETIN 256 (1986); The Industrial Bank of Japan, Ltd., 72 FEDERAL RESERVE BULLETIN 71 (1986); The Mitsubishi Bank, Limited, 70 FEDERAL RESERVE BULLETIN 518 (1984). See also Policy Statement on Supervision and Regulation of Foreign-Based Bank Holding Companies, Federal Reserve Regulatory Service 4-835 (1979).

percent minimum level specified in the Board's Capital Adequacy Guidelines. After making adjustments to reflect Japanese banking and accounting practices, however, including consideration of a portion of the unrealized appreciation in Nippon Credit Bank's portfolio of equity securities consistent with the principles in the Basle capital framework, Nippon Credit Bank's capital ratio meets United States standards.

The Board also considered several additional factors that mitigate its concern in this case. The Board notes that the application involves nonbanking activities that require a small commitment of capital. The Board notes further that Nippon Credit Bank is in compliance with the capital and other financial requirements of Japanese banking organizations. In this regard, the Board has considered as favorable factors that, in anticipation of implementation of the Basle Committee risk-based capital framework, Nippon Credit Bank has, through the issuance of common stock, increased its equity capital by the equivalent of almost \$446.5 million in its latest fiscal year and that Nippon Credit Bank's capital improvement program is consistent with meeting the standards in the Basle Committee capital framework for 1990 and 1992.

Based on these and other facts of record, the Board concludes that financial considerations are consistent with approval of the application.

Consummation of the proposal would provide increased convenience to customers and gains in efficiency. In addition, the Board expects that the *de novo* entry of Eastbridge into the market for these services would increase the level of competition among providers of these services. Accordingly, the Board has determined that the performance of the proposed activities by Eastbridge can reasonably be expected to produce benefits to the public.

The Board believes that the proposal is not likely to result in decreased or unfair competition, conflicts of interests, unsound banking practices, concentration of resources, or other adverse effects. Based on the foregoing and other facts of record, the Board has determined that the balance of public interest factors that must it consider under section 4(c)(8) of the BHC Act is favorable. Accordingly, the Board has determined that the application should be, and hereby is, approved. This determination is further subject to all of the conditions set forth in the Board's Regulation Y, including 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 the provisions and purposes of the BHC Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

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

By order of the Board of Governors, effective February 13, 1989.

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

JENNIFER J. JOHNSON
Associate Secretary of the Board

Scandinavian Bank Group plc London, United Kingdom

Order Approving Application to Engage in Financial Advisory Activities

Scandinavian Bank Group plc, London, United Kingdom ("Scandinavian"), has applied pursuant to section 4(c)(8) of the Bank Holding Company Act (12 U.S.C. § 1843(c)(8)) ("BHC Act") for approval to establish *de novo* a subsidiary, Cambridge International Partners L.P., New York, New York ("Cambridge"), to act as a financial adviser in providing corporate finance advisory services, including advice concerning domestic and international mergers, acquisitions, joint ventures and divestitures, financings, and the structuring of leveraged buyouts and capital-raising vehicles.

Scandinavian is a foreign bank that is subject to section 4(c)(8) of the BHC Act pursuant to section 8(a) of the International Banking Act of 1978 (12 U.S.C. § 3106(a)) ("IBA") by virtue of its control of an agency and a branch office in the United States.

Notice of the application, affording interested persons an opportunity to submit comments on the relation of the proposed activities to banking and on the balance of public interest factors, has been duly published (53 Federal Register 45,821 (1988)). 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.

<sup>1.</sup> Cambridge will be established as a limited partnership. Cambridge will be owned as follows: Scandinavian will have a 50.5 percent ownership interest as a limited partner, three professional corporations formed by three members of Cambridge's management will have a 48.5 percent ownership interest as limited partners, and Cambridge International Partners, Inc. ("CIP") will have a one percent ownership interest as a general partner. Fifty-one percent of the voting shares of CIP are held by Scandinavian, and the remaining 49 percent are held by the three above-mentioned professional corporations.

Scandinavian, with total consolidated assets of \$5.1 billion, is the eleventh largest international bank in London.<sup>2</sup> Scandinavian operates 17 offices in 14 countries and maintains a commercial paper funding subsidiary in Delaware, a branch in New York, and an agency in Los Angeles.

The Board has previously determined by Order that the proposed activities are closely related to banking and permissible for bank holding companies.<sup>3</sup>

Under section 4 of the BHC Act, the Board is also required to determine that the performance of the proposed activities by applicant "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).

The Board has expressed its concerns regarding conflicts of interest and related adverse effects that, absent certain limitations, may be associated with financial advisory activities. In order to address these potential adverse effects, Scandinavian has committed that:

- (1) Cambridge's financial advisory activities shall not encompass the performance of routine tasks or operations for a customer on a daily or continuous basis:
- (2) Disclosure will be made to each potential customer of Cambridge that Cambridge is an affiliate of Scandinavian:
- (3) Advice rendered by Cambridge on an explicit fee basis will be without regard to correspondent balances maintained by a customer of Cambridge at Scandinavian or any of its depository subsidiaries; and
- (4) Cambridge will not make available to Scandinavian or any of its subsidiaries confidential information received from Cambridge's clients, except with the client's consent.

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

Consummation of Scandinavian's proposal would provide added convenience to its clients. The Board expects that the *de novo* entry of Scandinavian into the market for these services would increase the level of competition among providers of these services already in operation. Accordingly, the Board concludes that

the performance of the proposed activities by Scandinavian can reasonably be expected to provide benefits to the public.

The financial and managerial resources and future prospects of Scandinavian are considered consistent with approval. Moreover, there is no evidence in the record that consummation of the proposed financial advisory activities would result in any other adverse effects such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices.

After consideration of all the relevant facts, the Board concludes that the balance of the public interest factors that it is required to consider under section 4(c)(8) is favorable. Accordingly, based on all the facts of record and the commitments made by Scandinavian, 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 Regulation Y, including sections 225.4(d) and 225.23(b)(3) (12 C.F.R. 225.4(d) and 225.23(b)(3)), and to the Board's authority to require such modification or termination of the activities of a 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.

The transaction 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 San Francisco, pursuant to delegated authority.

By order of the Board of Governors, effective February 6, 1989.

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

JENNIFER J. JOHNSON Associate Secretary of the Board

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

PNC Financial Corp. Pittsburgh, Pennsylvania

Order Approving Acquisition of a Bank Holding Company, Bank, and Nonbanking Subsidiaries

PNC Financial Corp., Pittsburgh, Pennsylvania ("Applicant"), a bank holding company within the meaning of the Bank Holding Company Act ("Act"), has applied for the Board's approval under section 3 of the

<sup>2.</sup> All financial data are as of September 30, 1988.

<sup>3.</sup> See The Bank of Nova Scotia, 74 Federal Reserve Bulletin 249 (1988); Sovran Financial Corporation, 73 Federal Reserve Bulletin 744 (1987); Signet Banking Corporation, 73 Federal Reserve Bulletin 59 (1987).

Act to acquire all of the voting shares of Bank of Delaware Corporation, Wilmington, Delaware ("Corporation"), and thereby to acquire indirectly Corporation's subsidiary bank, Bank of Delaware, Wilmington, Delaware. Applicant also has applied for the Board's approval under section 4(c)(8) of the Act to acquire indirectly Corporation's nonbanking subsidiaries.<sup>2</sup>

Notice of the applications, affording opportunity for interested persons to submit comments, has been published (53 Federal Register 51,320 (1988)). The time for filing comments has expired, and the Board has considered the applications and all comments received in light of the factors set forth in sections 3(c) and 4(c)(8) of the Act.

Section 3(d) of the Act, 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,<sup>3</sup> unless such acquisition is "specifically authorized by the statute laws of the State in which [the] bank is located, by language to that effect and not merely by implication." 12 U.S.C. § 1842(d). The Board has previously determined that the acquisition of a Delaware bank by a Pennsylvania bank holding company is specifically authorized by the statute laws of Delaware, subject to the applicant's obtaining the approval required pursuant to Delaware law. Based on the foregoing, the Board has determined that the proposed acquisition is specifically authorized by the statute laws of Delaware and that Board approval of the proposal is not barred by the Douglas Amendment, subject to Applicant's obtaining the required approval pursuant to section 843(a) of Title 5 of the Delaware Code.5

Applicant, with approximately \$24.3 billion in domestic deposits, is the twelfth largest commercial banking organization in the United States, with full-service banks in Delaware, Indiana, Kentucky, New Jersey, Ohio, and Pennsylvania. Applicant ranks second in deposit size in Pennsylvania, controlling 14.5 percent of total deposits in commercial banks in the state. Corporation is the second largest commercial banking organization in Delaware, with domestic deposits of approximately \$1.5 billion, representing approximately 24.2 percent of the total deposits in commercial banks in Delaware.

Applicant competes with Corporation in the Kent County, Delaware, banking market. Applicant is the eighth largest of 10 commercial banking organizations in the market, controlling deposits of approximately \$16.8 million, representing approximately 3.1 percent of total deposits in commercial banking organizations in the market ("market deposits").8 Corporation is the second largest commercial banking organization in the market, controlling deposits of approximately \$103.6 million, representing approximately 18.8 percent of market deposits. Upon consummation, Applicant would become the second largest commercial banking organization in the market, controlling deposits of approximately \$120.4 million, representing approximately 21.9 percent of total market deposits. The Kent County market is considered moderately concentrated, with a Herfindahl-Hirschman Index ("HHI") of 1532, which would increase by 117 points to 1649 upon consummation of the proposal.9 Based on the facts of record, the Board concludes that consummation of the proposal would not have a significant adverse effect on competition in the Kent County market or in any other relevant market. The Board also does not believe that the consummation of the proposal would have a significant adverse effect on probable future competitors in any relevant market.

The financial and managerial resources of Applicant and Corporation are consistent with approval. The

<sup>1.</sup> Applicant will acquire Corporation through the merger of Applicant's wholly owned subsidiary, New Financial Corp., Wilmington, Delaware, with and into Corporation. In connection with these applications, New Financial Corp. also has applied to acquire Corporation's banking and nonbanking subsidiaries.

<sup>2.</sup> Applicant has applied for approval to acquire indirectly the following nonbanking subsidiaries of Corporation, located in Wilmington, Delaware: Del Vest, Inc., and thereby engage in providing portfolio investment advisory services for institutional and individual customers pursuant to section 225.25(b)(4) of the Board's Regulation Y; and Christina Life Insurance Company, and thereby engage in underwriting, as reinsurer, credit life, disability, accident, and health insurance policies written in conjunction with loans made by Bank of Delaware, pursuant to section 225.25(b)(8).

<sup>3.</sup> A Bank holding company's home state is that state in which the operations of the bank holding company's banking subsidiaries were principally conducted on July 1, 1966, or the date on which the company became a bank holding company, whichever is later.

<sup>4.</sup> Meridian Bancorp, Inc., 74 FEDERAL RESERVE BULLETIN 51 (1988).

<sup>5.</sup> In addition to obtaining approval from the Delaware State Bank Commissioner, Applicant must obtain approval from the Pennsylvania Department of Banking, 7 P.S. § 116(h).

<sup>6.</sup> State banking data are as of June 30, 1988.

<sup>7.</sup> The Kent County market is comprised of Kent County, Delaware.

<sup>8.</sup> Market data are as of June 30, 1987.

<sup>9.</sup> Under the revised Department of Justice Merger Guidelines (49 Federal Register 26,823 (June 29, 1984)), a market in which the post-merger HHI is between 1000 and 1800 is considered moderately concentrated. In such markets, the Department of Justice is unlikely to challenge a merger or acquisition resulting in an HHI between 1000 and 1800 if the increase in the HHI is less than 100 points. The Department of Justice has informed the Board that a bank merger or acquisition generally will not be challenged (in the absence of other factors indicating anticompetitive effects) unless the post-merger HHI is at least 1800 and the merger increases the HHI by at least 200 points. The Department of Justice 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.

Board notes that the transaction would be accomplished through an exchange of shares without any significant impact on Applicant's capital position.

In considering the convenience and needs of the communities to be served, the Board has taken into account the record of Applicant under the Community Reinvestment Act ("CRA") (12 U.S.C. § 2901 et seq.). The CRA requires the federal bank supervisory agencies to encourage financial institutions to help meet the credit needs of the local communities in which they are chartered consistent with the safe and sound operation of such institutions. To accomplish this end, the CRA requires the appropriate federal supervisory authority, in connection with its examination of an institution, to "assess the institution's record of meeting the credit needs of its entire community, including low- and moderate-income neighborhoods, consistent with the safe and sound operation of such institution." 12 U.S.C. § 2903. The Board is required to "take such record into account in its evaluation" of applications by bank holding companies under section 3 of the Act to acquire additional banks. See 12 C.F.R. 225.13(b)(3).

The Board's experience over the years in examining bank performance under the CRA has indicated that institutions with effective programs to help meet community credit needs share a number of elements. These institutions maintain outreach programs that include procedures to permit effective communication between the bank and various segments of the community and formalized methods for incorporating findings regarding community credit needs into the development and delivery of products and services. They monitor institutional performance at the senior management or board of director level and periodically evaluate new opportunities for innovative lending programs, such as home mortgage and neighborhood residential rehabilitation lending and similar programs, designed to meet the credit needs of their designated community, including those of low- and moderateincome persons. An effective program also includes the use of specifically designed marketing and advertising plans to stimulate public awareness of the bank's services throughout the community, including lowand moderate-income neighborhoods, as well as support of community development projects and programs.

In the Board's opinion, financial institutions that make meeting their responsibilities under the CRA a part of their management and operational structure are best able to accomplish the goals of the statute. In that light, the Board expects banking organizations to have addressed their CRA responsibilities before the submission of applications to the Board. This is in accord with the requirements of the CRA, under which an institution's record of performance in helping to meet the credit needs of its entire community is a critical factor in determining whether the institution has lived up to its responsibilities under the statute.

The Board has received a protest from the Philadelphia Association of Community Organizations for Reform Now ("ACORN") regarding the CRA performance of Provident National Bank, Philadelphia, Pennsylvania ("Provident"), one of Applicant's subsidiary banks. Specifically, ACORN alleges that, since Applicant's 1983 acquisition of Provident, Provident

- (i) decreased its level of real estate lending to lowand moderate-income and minority communities; (ii) abandoned its participation in government housing programs; and
- (iii) located its Philadelphia branches in a manner that shows a lack of interest in minority and low-income communities. As a result, ACORN alleges, Provident has failed to meet local credit needs with respect to low- and moderate-income and minority neighborhoods in its community. 10

Applicant has submitted a detailed response to the comments made by ACORN. In this regard, Applicant and ACORN have met privately on several occasions in an attempt to clarify and resolve the concerns raised by ACORN. These meetings, however, did not produce a resolution of all of the differences between Applicant and ACORN.11

The Board has carefully considered the record of this application, including the comments of ACORN (including comments submitted on February 22 and 23, 1989) and Applicant's response, in light of the requirements of the CRA and the implementing regulations of the federal banking agencies. Based upon this record, the Board believes that Applicant has a satisfactory program in place to ensure that its subsidiary banks, including Provident, carry out their re-

<sup>10.</sup> In addition, ACORN alleges that Applicant's application does not take into account the lending needs of low- and moderate-income residents of Delaware. The Board believes, however, that Applicant's CRA record evidences Applicant's commitment to meet its responsibilities under the CRA to help meet the credit needs of the low- and moderate-income residents of all of its subsidiary banks' communities. The Board expects Applicant to ensure that its CRA policies and programs are fully implemented at the Bank of Delaware

<sup>11.</sup> ACORN has also requested that the Board order a public meeting and public hearing. Although section 3(b) of the Act does not require a public meeting or hearing in this instance, the Board may, in any case, order such proceedings. 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. Moreover, Applicant and ACORN have had private meetings to discuss these issues. In light of these facts, the Board has determined that the record has been developed through these proceedings and that a public meeting or hearing would serve no useful purpose in this case. Accordingly, ACORN's request for a public meeting and hearing is hereby denied.

sponsibilities under the CRA to serve the convenience and needs of their communities, including low- and moderate-income and minority neighborhoods, and that its subsidiary banks' CRA performance is consistent with approval of the application. The Board notes that, with one exception, Applicant's 23 subsidiary banks (including Provident) have each received satisfactory ratings from their primary regulators in examinations of their CRA performance. 12

In light of ACORN's protest, the Board has given careful attention to the CRA record of Provident. Provident was examined by the Office of the Comptroller of the Currency in January 1988 and received a satisfactory rating for its CRA performance. In addition, the record of this application shows that Applicant has developed a comprehensive program that establishes standards for its subsidiary banks to ascertain community credit needs, to respond to those needs through products and services, and to properly evaluate its success in meeting those needs. In accordance with that policy, Provident personnel establish personal contacts, visit neighborhoods, and hold meetings with community leaders and government officials in order to ascertain the credit needs of their communities and to communicate with members of their communities regarding the credit services they provide. In addition, officers serve as board or committee members for community organizations and attend community educational programs.

Provident's Board of Directors and senior management officials participated in formulating Provident's CRA policies and regularly review Provident's CRA performance. Provident has a CRA Management Committee, headed by the CRA Compliance Officer, which monitors and assesses Provident's CRA performance, develops and recommends policy on key CRA issues, assures implementation of policy decisions, formulates Provident's responses to CRA needs and opportunities, and encourages and enhances Provident's position in the communities in which it operates. The Committee studies quarterly reviews of community credit program activity, regular small business lending updates, and real estate development loans in relation to low- and moderate-income areas of the delineated community. In addition, the Board of Directors receives periodic reports on Provident's CRA activities

from the Committee and reviews all proposals for branch closings or relocations to determine that they do not conflict with Provident's CRA goals.

Provident makes use of a variety of marketing strategies to communicate the availability of credit and other bank products. For example, Provident regularly uses eight city-wide newspapers, including ethnic publications, and two suburban newspapers to reach all segments of the community. In addition, Provident has actively participated and invested in local community development and redevelopment projects and programs.

The record also shows that Provident has made loans in all segments of its community, including lowand moderate-income and minority neighborhoods. An analysis of Provident's Home Mortgage Disclosure Act ("HMDA") data indicates that a substantial percentage of its residential real estate loans were made in low- and moderate-income and minority communities. While the number of loans made in these communities has dropped somewhat since 1983, the decline is less than that exhibited by other HMDA reporters. 13 The Board also notes that the proportion of Provident's residential real estate loans extended in these areas closely parallels the actual percentage of low- and moderate-income and minority census tracts in Provident's delineated community.14 Accordingly, the Board finds that Provident's record of residential real estate lending in low- to moderate-income neighborhoods is consistent with its responsibilities under the CRA.

In response to ACORN's comment with respect to Provident's participation in government housing programs, Provident has agreed to provide FHA/VA mortgages either directly or through an affiliate and to participate in Pennsylvania Housing Finance Agency

<sup>12.</sup> The Board notes that the most recent examination of a recently acquired subsidiary bank of Applicant in Ohio identified certain deficiencies in the bank's CRA performance. Although a formal response to the examination is not yet due, Applicant already has initiated steps to correct the noted deficiencies. The Federal Reserve Bank of Cleveland will, as part of the supervisory process, carefully monitor the bank's response to the examination report to ensure that the bank addresses the weaknesses noted and improves its CRA performance.

<sup>13.</sup> In addition, the Office of the Comptroller of the Currency found no evidence of discrimination in Provident's lending practices at its January 1988 examination.

<sup>14.</sup> ACORN alleges that Applicant's sale in 1986 of its mortgage subsidiary, The Kissell Company, is further evidence of its lending shift away from originating residential mortgage credit. ACORN contends that this divestiture has adversely affected the number of real estate loans made by Provident. Applicant argues that it chose to sell Kissell at a premium price rather than invest a substantial amount to develop the data processing required to upgrade its servicing and compete with major nonbank entrants into the mortgage servicing market. In addition, Kissell had suffered key management losses, rendering it necessary to rebuild Kissell's management structure. In light of these considerations and Provident's satisfactory real estate lending record, the Board does not find that the sale of Kissel has had a serious adverse effect on Provident's service to the convenience and needs of its community.

ACORN also alleges that patterns of home mortgage lending by Provident since 1985 show a tendency to exclude lending from neighborhoods where property values had not risen between 1981 and 1985. ACORN provides no data to support this allegation, however, and the Board finds nothing in the record to indicate that Provident has excluded lending from such neighborhoods.

loans. Provident has also set several specific objectives with respect to Provident's lending in low- and moderate-income and minority neighborhoods in response to comments by ACORN.15

Provident maintains nine branches in low- and moderate-income tracts within the Philadelphia PMSA, two of which have been opened since 1986. In addition, Provident is presently renovating existing branch offices in those areas to update their facilities. Provident has closed no branches in low- or moderateincome or minority neighborhoods to date, although a branch located in Coatesville, Pennsylvania, has been scheduled to close effective March 17, 1989. The Board notes that Provident has in place a written corporate policy concerning branch closings that requires management to notify the public in advance of any proposed closing and to conduct an analysis of the impact of the branch closing on the local community, alternative branch service options, and the profitability of the branch. The decision to close the Coatesville branch was made in accordance with this policy. The Coatesville branch's customers have been notified of the effective date of the closing and informed that continuation of services will be provided by another Coatesville branch less than a mile away.

Based upon the record, the Board concludes that Provident's CRA program contains all of the elements

15. Provident has undertaken to implement the following policies: · Effective February 1, 1989, Provident will increase its maximum that the Board has identified in the past as demonstrating an affirmative, ongoing commitment on the part of an institution to meet its responsibilities under the CRA to help meet the credit needs of its entire community. Provident's program has been in place for a number of years, and the record shows that Provident has an established record of satisfactory performance under the program, including service to the credit needs of low- and moderate-income neighborhoods of its community. Based on the foregoing and other facts of record, the Board has determined that convenience and needs considerations, including those related to Applicant's and Provident's record of service to their entire communities, are consistent with approval.

Applicant competes with Corporation in the provision of investment advisory services. The market for this activity has numerous competitors and is regional to national in scope. In addition, neither Applicant nor Corporation is a dominant participant in the market for investment advisory services. Accordingly, the Board concludes that this proposal will not have any significant adverse effect upon existing or probable future competition in any relevant market for these services.

Furthermore, there is no evidence in the record to indicate that approval of this proposal would result in undue concentration of resources, decreased or unfair competition, conflicts of interests, unsound banking practices, or other adverse effects on the public interest. Accordingly, the Board has determined that the balance of public interest factors it must consider under section 4(c)(8) of the Act is favorable and consistent with approval of the applications to acquire the nonbanking subsidiaries of Corporation.

Based on the foregoing and other facts of record, the Board has determined that consummation of the transaction would be in the public interest and that the applications under sections 3 and 4 of the Act should be, and hereby are, approved, subject to Applicant's obtaining the approval of the Delaware State Bank Commissioner and the Pennsylvania Department of Banking. The acquisition of Corporation shall not be consummated before the thirtieth calendar day following the effective date of this Order, or later than three months after the effective date of this Order, unless such period is extended for good cause by the Board or by the Federal Reserve Bank of Cleveland, acting pursuant to delegated authority. The determinations as to Applicant's nonbanking activities are subject to all of the conditions contained in Regulation Y, including those in sections 225.4(d) and 225.23(b)(3) (12 C.F.R. 225.4(d) and 225.23(b)(3)), and to the Board's authority to require such modification or termination of the activities of a holding company or any of its subsidiaries as the Board finds necessary to assure compliance

loan-to-value ratio to 95 percent. • Provident will begin to include food stamps and LIHEAP funds as sources of income in evaluating an applicant's ability to repay a

<sup>·</sup> Provident will continue to develop other means of facilitating residential support in low- and moderate-income communities through such means as land trusts, swing financing, donating vacant properties, use of sweat equity, and other types of purchase/ rehabilitation financing.

<sup>·</sup> Provident will afford applicants an opportunity to provide an explanation accompanying an application. In cases where a creditor has refused to accept payment, or a bill is in dispute, an applicant may deposit in an escrow account all funds that would have been paid, and the applicant will be considered to have an acceptable payment record. In any event, the emphasis will be on the applicant's credit experience in the 12 months prior to application. The absence of a credit history will not be an obstacle to borrowing; such applicants may be asked to supply substitute records of payment.

Provident will implement a procedure whereby mortgage loan denials will be reviewed by a senior officer of the bank and an analysis will be prepared and reviewed by Provident's CRA Management Committee on a quarterly basis.

Provident will make a limited quantity of uninsured mortgage loans for specified purposes.

<sup>·</sup> Provident will aim to increase its residential mortgage volume in low- and moderate-income communities for 1989 by 100 percent over its 1987 performance to a level of approximately \$6.3 million and minimally maintain that level for the next five years

ACORN has suggested that Provident offer conventional loans at two percent, rather than one percent, below market rates and that Applicant provide ACORN with a direct grant of \$50,000 to operate its programs. Provident has declined to incorporate ACORN's suggestions in its CRA program.

with the provisions and purposes of the Act and the Board's regulations and orders issued thereunder, or to prevent evasion thereof.

By order of the Board of Governors, effective February 27, 1989.

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

> JENNIFER J. JOHNSON Associate Secretary of the Board

## 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	Bank(s)	Reserve Bank	Effective date
Baldwin Bancshares, Inc., Milledgeville, Georgia	First National Bank of Baldwin County, Milledgeville, Georgia	Atlanta	February 6, 1989
Chandlerville Bancshares, Inc., Chandlerville, Illinois	Peoples State Bank of Chandlerville, Chandlerville, Illinois	Chicago	February 6, 1989
CitNat Bancorp, Inc., Urbana, Ohio	The Citizens National Bank of Urbana, Urbana, Ohio	Cleveland	February 6, 1989
Citizens Investment Co., Inc., Glenville, Minnesota	Frost State Bank, Frost, Minnesota	Minneapolis	January 31, 1989
CNB Bancshares, Inc., Evansville, Indiana	Bank of St. Helens, Shively, Kentucky	St. Louis	January 31, 1989
Adam Bank Group, Inc., Bryan, Texas	First American Bank, Bryan, Texas	Dallas	February 9, 1989
First Commerce Bancshares, Inc., Lincoln, Nebraska Stuart Family Partnership, Lincoln, Nebraska Catherine Stuart Schmoker Family Partnership, Lincoln, Nebraska James Stuart, Jr. Family Partnership, Lincoln, Nebraska Scott Stuart Family Partnership,	Lincoln Bank South, Lincoln, Nebraska	Kansas City	February 22, 1989
Lincoln, Nebraska First Community Bank, Inverness, Florida	First Community Bank, Inverness, Florida	Atlanta	February 10, 1989
First of America Bank Corporation, Kalamazoo, Michigan	Antrim Financial Corporation, Mancelona, Michigan	Chicago	February 16, 1989

# Section 3—Continued

Applicant	Bank(s)	Reserve Bank	Effective date	
First of America Bank Corporation, Kalamazoo, Michigan	Whiteside County Bank, Morrison, Illinois	Chicago	February 1, 1989	
First of America Bancorporation-Illinois, Inc., Libertyville, Illinois				
First of Searcy, Inc., Searcy, Arkansas	Baxter County Bancshares, Inc., Mountain Home, Arkansas	St. Louis	February 9, 1989	
First National Bancshares of Winfield, Inc., Winfield, Kansas	Butler Financial Corp., Inc., Douglass, Kansas	Kansas City	February 10, 1989	
First Tuttle Bancorp, Inc., Tuttle, Oklahoma	First National Bank of Tuttle, Tuttle, Oklahoma	Kansas City	February 22, 1989	
First Wisconsin Corporation, Milwaukee, Wisconsin	Stillwater Holding Company, Stillwater, Minnesota	Chicago	January 30, 1989	
Four County Bancshares, Inc., Allentown, Georgia	The Four County Bank, Allentown, Georgia	Atlanta	February 14, 198	
The George Washington Banking Corporation, Alexandria, Virginia	The George Washington National Bank (in organization), Alexandria, Virginia	Richmond	February 10, 198	
lason Bankshares, Inc., Offerle, Kansas	The Bucklin State Bank, Bucklin, Kansas	Kansas City	January 27, 1989	
Johnson Heritage Bancorp, Ltd., Racine, Wisconsin	Rock County Bancorp, Janesville, Wisconsin	Chicago	February 10, 198	
Fractine, Wisconsin Forgenson Holding Company, Kenmare, North Dakota	The Citizens State Bank at Mohall, Mohall, North Dakota	Minneapolis	February 2, 1989	
JTNB Bancorp, Inc., Jim Thorpe, Pennsylvania	Jim Thorpe National Bank, Jim Thorpe, Pennsylvania	Philadelphia	February 7, 1989	
Lower Rio Grande Valley Bancshares, Inc., Employee Stock Option Plan, La Feria, Texas	Lower Rio Grande Valley Bancshares, Inc., La Feria, Texas	Dallas	February 16, 198	
Magna Group, Inc., Belleville, Illinois MCB Acquisition Company, Belleville, Illinois	New Holland Farmers Bank, New Holland, Illinois Magna Bank of Lincoln, N.A., Lincoln, Illinois	St. Louis	February 6, 1989	
Marshall & Ilsley Corporation, Milwaukee, Wisconsin	M&I Greater Waukesha Bank, Pewaukee, Wisconsin	Chicago	February 17, 198	
MidConn Bancorp, Inc., Kensington, Connecticut	MidConn Bank, Kensington, Connecticut	Boston	February 6, 1989	
Mineral King Bancorp, Inc., Visalia, California	Mineral King National Bank, Visalia, California	San Francisco	February 13, 198	
Old National Bancorp, Evansville, Indiana	Morganfield National Service Corp., Morganfield, Kentucky	St. Louis	February 17, 198	
Old National Bancorp, Evansville, Indiana	The First National Bank of Harrisburg, Harrisburg, Illinois	St. Louis	February 17, 198	

# Section 3—Continued

Applicant	Bank(s)	Reserve Bank	Effective date
Panhandle Aviation, Inc., Clarinda, Iowa	Humboldt Investment, Inc., Humboldt, Iowa	Chicago	February 7, 1989
Peoples Investment Corporation, Cuba, Missouri	Peoples Bank of Steelville, Steelville, Missouri	St. Louis	February 7, 1989
Sweet Water State Bancshares, Inc., Sweet Water, Alabama	Sweet Water State Bank, Sweet Water, Alabama	Atlanta	February 6, 1989
Union Bancorporation, Defiance, Iowa	Defiance State Bank, Defiance, Iowa	Chicago	February 15, 1989
Union Planters Corporation, Memphis, Tennessee	Cumberland City Bank, Cumberland City, Tennessee	St. Louis	February 17, 1989
Wellington Bancorp, Inc., Springfield, Illinois	Community Bank, Hoopeston, Illinois	Chicago	February 6, 1989
Western Bancshares, Inc., Coos Bay, Oregon	Western Bank, Coos Bay, Oregon	San Francisco	February 15, 1989

# Section 4

Applicant	Nonbanking Activity/Company	Reserve Bank	Effective date
Barnett Banks, Inc., Jacksonville, Florida	Barnett Bond Service, Inc., Jacksonville, Florida	Atlanta	February 3, 1989
CB&T Bancshares, Inc., Columbus, Georgia	Calumet Financial Associates, Inc., Columbus, Georgia	Atlanta	February 8, 1989
Chesapeake Bank Corporation, Chesapeake, Virginia	South Norfolk Loan Corporation, Chesapeake, Virginia	Richmond	February 16, 1989
United Bancshares of Nebraska, Inc., Omaha, Nebraska	Fremont Computer Services, Inc., Omaha, Nebraska	Kansas City	February 17, 1989
Wood Lake Bancorporation, Inc., Wood Lake, Minnesota	Simonson Insurance Agency, Hanley Falls, Minnesota	Minneapolis	February 17, 1989

# Sections 3 and 4

Applicant	Nonbanking Activity/Company	Reserve Bank	Effective date
Eastern Savings Bancorp, Inc., Lynn, Massachusetts Eastern Bank, Lynn, Massachusetts	Eastern Bank & Trust Company, Salem, Massachusetts	Boston	February 17, 1989
Family Bancorp, Haverhill, Massachusetts			

## 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	Bank(s)	Reserve Bank	Effective date
Sovran Bank/Memphis, Memphis, Tennessee	First National Bank of Collierville, Collierville, Tennessee	St. Louis	February 16, 1989

#### 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.

- Securities Industry Association v. Board of Governors, No. 89-1127 (D.C. Cir. filed February 16, 1989).
- American Land Title Association v. Board of Governors, No. 88–1872 (D.C. Cir., filed December 16, 1988).
- MCorp v. Board of Governors, No. CA3-88-2693-F (N.D. Tex., filed October 28, 1988).
- White v. Board of Governors, No. CU-S-88-623-RDF (D. Nev., filed July 29, 1988).
- VanDyke v. Board of Governors, No. 88-5280 (8th Cir., filed July 13, 1988).
- Whitney v. United States, et al., No. CA3-88-1596-H (N.D. Tex., filed July 7, 1988).
- Baugh v. Board of Governors, No. C88-3037 (N.D. Iowa, filed April 8, 1988).
- Bonilla v. Board of Governors, No. 88-1464 (7th Cir., filed March 11, 1988).
- Cohen v. Board of Governors, No. 88-1061 (D.N.J., filed March 7, 1988).

- Stoddard v. Board of Governors, No. 88-1148 (D.C. Cir., filed February 25, 1988).
- Independent Insurance Agents of America, Inc. v. Board of Governors, No. 87-1686 (D.C. Cir., filed November 19, 1987).
- National Association of Casualty & Surety Agents, et al., v. Board of Governors, Nos. 87-1644, 87-1801, 88-1001 88-1206, 88-1245, 88-1270 (D.C. Cir., filed Nov. 4, Dec. 21, 1987, Jan. 4, March 18, March 30, April 7, 1988).
- Teichgraeber v. Board of Governors, No. 87-2505-0 (D. Kan., filed Oct. 16, 1987).
- National Association of Casualty & Insurance Agents v. Board of Governors, Nos. 87–1354, 87–1355 (D.C. Cir., filed July 29, 1987).
- The Chase Manhattan Corporation v. Board of Governors, No. 87-1333 (D.C. Cir., filed July 20, 1987).
- Lewis v. Board of Governors, Nos. 87-3455, 87-3545 (11th Cir., filed June 25, Aug. 3, 1987).
- CBC, Inc. v. Board of Governors, No. 86-1001 (10th Cir., filed Jan. 2, 1986).

# Financial and Business Statistics

Note. The following tables may have some discontinuities in historical data for some series beginning with the March 1989 issue: 1.10, 1.17, 1.20, 1.21, 1.22, 1.23, 1.24, 1.25, 1.26, 1.28, 1.30, 1.31, 1.32, 1.35, 1.36, 1.37, 1.39, 1.40, 1.41, 1.42, 1.43, 1.45, 1.46, 1.47, 1.48,

1.50, 1.53, 1.54, 1.55, 1.56, 2.11, 2.14, 2.15, 2.16, 2.17, 3.14, and 3.21. For a more detailed explanation of the changes, see the announcement on pages 288–89 of this BULLETIN.

### **CONTENTS**

## Domestic Financial Statistics

### MONEY STOCK AND BANK CREDIT

- A3 Reserves, money stock, liquid assets, and debt measures
- A4 Reserves of depository institutions, Reserve Bank credit
- A5 Reserves and borrowings—Depository institutions
- A6 Selected borrowings in immediately available funds—Large member banks

## **POLICY INSTRUMENTS**

- A7 Federal Reserve Bank interest rates
- A8 Reserve requirements of depository institutions
- A9 Federal Reserve open market transactions

## FEDERAL RESERVE BANKS

- A10 Condition and Federal Reserve note statements
- All Maturity distribution of loan and security holdings

### MONETARY AND CREDIT AGGREGATES

- A12 Aggregate reserves of depository institutions and monetary base
- A13 Money stock, liquid assets, and debt measures
- A15 Bank debits and deposit turnover
- A16 Loans and securities—All commercial banks

### COMMERCIAL BANKING INSTITUTIONS

- A17 Major nondeposit funds
- A18 Assets and liabilities, last-Wednesday-of-month series

## WEEKLY REPORTING COMMERCIAL BANKS

- Assets and liabilities
- A19 All reporting banks
- A20 Banks in New York City
- A21 Branches and agencies of foreign banks
- A22 Gross demand deposits—individuals, partnerships, and corporations

### FINANCIAL MARKETS

- A23 Commercial paper and bankers dollar acceptances outstanding
- A23 Prime rate charged by banks on short-term business loans
- A24 Interest rates-money and capital markets
- A25 Stock market—Selected statistics
- A26 Selected financial institutions—Selected assets and liabilities

### FEDERAL FINANCE

- A28 Federal fiscal and financing operations
- A29 U.S. budget receipts and outlays
- A30 Federal debt subject to statutory limitation
- A30 Gross public debt of U.S. Treasury—Types and ownership
- A31 U.S. government securities dealers— Transactions
- A32 U.S. government securities dealers—Positions and financing
- A33 Federal and federally sponsored credit agencies—Debt outstanding

# SECURITIES MARKETS AND CORPORATE FINANCE

- A34 New security issues—State and local governments and corporations
- A35 Open-end investment companies—Net sales and asset position

- A35 Corporate profits and their distribution
- A35 Total nonfarm business expenditures on new plant and equipment
- A36 Domestic finance companies—Assets and liabilities and business credit

### REAL ESTATE

- A37 Mortgage markets
- A38 Mortgage debt outstanding

### CONSUMER INSTALLMENT CREDIT

- A39 Total outstanding and net change
- A40 Terms

### FLOW OF FUNDS

- A41 Funds raised in U.S. credit markets
- A43 Direct and indirect sources of funds to credit markets
- A44 Summary of credit market debt outstanding
- A45 Summary of credit market claims, by holder

## Domestic Nonfinancial Statistics

## SELECTED MEASURES

- A46 Nonfinancial business activity—Selected measures
- A47 Labor force, employment, and unemployment
- A48 Output, capacity, and capacity utilization
- A49 Industrial production—Indexes and gross value
- A51 Housing and construction
- A52 Consumer and producer prices
- A53 Gross national product and income
- A54 Personal income and saving

## International Statistics

### SUMMARY STATISTICS

- A55 U.S. international transactions—Summary
- A56 U.S. foreign trade

- A56 U.S. reserve assets
- A56 Foreign official assets held at Federal Reserve
- A57 Foreign branches of U.S. banks—Balance sheet data
- A59 Selected U.S. liabilities to foreign official institutions

## REPORTED BY BANKS IN THE UNITED STATES

- A59 Liabilities to and claims on foreigners
- A60 Liabilities to foreigners
- A62 Banks' own claims on foreigners
- A63 Banks' own and domestic customers' claims on foreigners
- A63 Banks' own claims on unaffiliated foreigners
- A64 Claims on foreign countries—Combined domestic offices and foreign branches

## REPORTED BY NONBANKING BUSINESS ENTERPRISES IN THE UNITED STATES

- A65 Liabilities to unaffiliated foreigners
- A66 Claims on unaffiliated foreigners

## SECURITIES HOLDINGS AND TRANSACTIONS

- A67 Foreign transactions in securities
- A68 Marketable U.S. Treasury bonds and notes— Foreign transactions

### INTEREST AND EXCHANGE RATES

- A69 Discount rates of foreign central banks
- A69 Foreign short-term interest rates
- A70 Foreign exchange rates
- A71 Guide to Tabular Presentation, Statistical Releases, and Special Tables

## SPECIAL TABLES

A72 Terms of lending at commercial banks, November 1988

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

Annual rates of change, seasonally adjusted in percent1

		19	88°			19	88'		1989
Monetary and credit aggregates	Qı	Q2	Q3	Q4	Sept.	Oct.	Nov.	Dec.	Jan.
Reserves of depository institutions <sup>2</sup> 1 Total	3.5	5.8	4.3	7	-1.9	8	2.0	-1.5	-8.4
	2.9	7.2	4.0	-1.4	-2.3	-2.6	.8	.1	-10.7
	1.5	-6.5	2.5	5.3	6.4	10.3	-9.5	22.1	-7.6
	8.1	7.4	6.7	5.0	5.9	5.7	3.9	5.0	4.1
Concepts of money, liquid assets, and debt <sup>4</sup> 5 M1	3.2	6.4	5.2	2.3	1.9	2.7	1.8	5.5	-6.0
	6.1	6.9	3.8	3.7	2.1	2.8	6.7	5.0	-1.1
	6.8	7.2	5.6	5.0	2.7	5.4	6.9	5.7	1.5
	6.6	8.5	7.2	6.1	2.0	5.9	8.5	10.5	n.a.
	8.2	8.7	8.6	8.2	8.9	7.5	8.2	7.5	n.a.
Nontransaction components 10 In M2 <sup>5</sup>	7.2	7.1	3.3	4.2	2.1	2.9	8.4	4.8	.6
	9.1	8.3	12.2	9.8	4.8	14.8	7.8	8.2	10.7
Time and savings deposits           Commercial banks           12         Savings'           13         Small-denomination time <sup>8</sup> 14         Large-denomination time <sup>9,10</sup> Thrift institutions         Savings'           15         Savings'           16         Small-denomination time           17         Large-denomination time <sup>9</sup>	7.1	10.4	7.9	4.0	.7	-2.2	18.9	-1.9	-10.4
	13.4	12.9	11.6	18.0	17.8	20.6	15.3	18.3	21.8
	6.3	9.1	18.2	13.1	14.4	14.3	6.7	13.0	17.4
	-1.3	2.6	2.1	-2.5	-2.7	-4.7	-1.7	-1.2	-9.2
	20.5	12.5	5.4	6.6	8.8	7.7	5.4	1.8	4.4
	13.0	9.2	3.9	7.9	22.1	7.7	2.7	-2.4	6.3
Debt components <sup>4</sup> 18 Federal	8.0	8.2	7.3	7.9	12.2	5.1	6.7	7.6	n.a.
	8.2	8.9	9.0	8.3	7.8	8.2	8.7	7.4	n.a.
	5.3	11.0	7.3	4.4	7	7.1	6.0	.1	2.5

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

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

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

3. The monetary base not adjusted for discontinuities consists of total reserves plus required clearing balances and adjustments to compensate for float at Federal Reserve Banks plus the currency component of the money stock less the amount of vault cash holdings of thrift institutions that is included in the currency component of the money stock plus, for institutions not having required

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

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

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

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,

deposits at all commercial banks other than those due to depository institutions, the U.S. government, and foreign banks and official institutions less cash items in the process of collection and Federal Reserve float; and (4) other checkable deposits (OCD) consisting of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institutions, credit union share draft accounts, and demand deposits at thrift institutions.

M2: M1 plus overnight (and continuing contract) repurchase agreements (RPs) issued by all commercial banks and overnight Eurodollars issued to U.S. residents by foreign branches of U.S. banks worldwide, Money Market Deposit Accounts (MMDAs), savings and small-denomination time deposits (time deposits—including retail RPs—in amounts of less than \$100,000), and balances in both taxable and tax-exempt general purpose and broker-dealer money market mutual funds. Excludes individual retirement accounts (IRA) and Keogh balances at depository

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

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

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

is the estimated amount of overnight RPs and Eurodollars held by institution-only money market mutual funds.

L: M3 plus the nonbank public holdings of U.S. savings bonds, short-term Treasury securities, commercial paper and bankers acceptances, net of money market mutual fund holdings of these assets.

Debt: Debt of domestic nonfinancial sectors consists of outstanding credit market debt of the U.S. government, state and local governments, and private nonfinancial sectors. Private debt consists of corporate bonds, mortgages, consumer credit (including bank loans), other bank loans, commercial paper, bankers acceptances, and other debt instruments. The source of data on domestic nonfinancial debt is the Federal Reserve Board's flow of funds accounts. Debt data are based on monthly averages. Growth rates for debt reflect adjustments for

nonfinancial debt is the Federal Reserve Board's flow of funds accounts. Debt data are based on monthly averages. Growth rates for debt reflect adjustments for discontinuities over time in the levels of debt presented in other tables.

5. Sum of overnight RPs and Eurodollars, money market fund balances (general purpose and broker-dealer), MMDAs, and savings and small time deposits less the estimated amount of demand deposits and vault cash held by thrift institutions to service their time and savings deposit liabilities.

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

7. Excludes MMDAs.

8. Small-depomination time deposits—including retail RPs—are those issued.

- 8. 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.

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

  10. Large-denomination time deposits are commercial banks less those held by
- money market mutual funds, depository institutions, and foreign banks and official institutions.
  - 11. Changes calculated from figures shown in table 1.23.

## A4 Domestic Financial Statistics April 1989

Millions of dollars

# 1.11 RESERVES OF DEPOSITORY INSTITUTIONS AND RESERVE BANK CREDIT

	Mor	ithly average daily figures	es of		Weekl	y averages o	of daily figur	es for week	ending			
Factors	19	988	1989		1988			19	89			
	Nov.	Dec.	Jan.	Dec. 14	Dec. 21	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25		
SUPPLYING RESERVE FUNDS												
i Reserve Bank credit	258,858	263,823	264,482	262,357	263,885	264,494	270,106	268,011	262,812	261,033		
2 U.S. government securities. 3 Bought outright. 4 Held under repurchase agreements. 5 Federal agency obligations. 6 Bought outright. 7 Held under repurchase agreements. 8 Acceptances. 9 Loans. 10 Float. 11 Other Federal Reserve assets. 12 Gold stock.	229,131 228,390 741 7,332 7,106 226 0 2,883 1,186 18,327 11,061	234,567 233,606 961 7,565 7,041 524 0 1,749 1,436 18,507 11,061	235,128 233,851 1,277 7,702 6,923 779 0 1,570 877 19,205 11,057	233,266 232,906 360 7,414 7,066 348 0 2,012 1,342 18,323 11,062	234,972 234,480 492 7,117 7,018 99 0 1,332 1,760 18,704 11,061	234,552 232,881 1,671 7,918 7,010 908 0 1,362 1,771 18,891 11,060	238,002 233,504 4,498 9,431 6,966 2,465 0 2,280 1,323 19,071 11,060	236,983 234,526 2,457 8,736 6,966 1,770 0 1,816 1,816 18,659 11,057	233,808 233,808 0 6,966 6,966 0 0 1,879 933 19,225 11,057	233,420 232,989 431 7,084 6,903 181 0 1,174 68 19,286 11,056		
13 Special drawing rights certificate account 14 Treasury currency outstanding	5,018 18,718	5,018 18,769	5,018 18,831	5,018 18,759	5,018 18,773	5,018 18,787	5,018 18,801	5,018 18,815	5,018 18,829	5,018 18,843		
ABSORBING RESERVE FUNDS					,		,,,,,			,		
15 Currency in circulation	240,343 401	244,540 399	243,398 406	243,390 404	244,312 398	246,598 397	247,768 395	245,887 400	243,652 408	241,475 409		
17 Treasury	5,268 246	5,364 248	8,303 257	4,807 237	6,462 270	4,500 183	8,459 299	6,242 251	4,368 247	9,360 281		
adjustments	1,746 380	2,014 369	1,999 402	2,073 310	1,789 371	1,849 412	1,979 491	2,183 332	1,884 330	1,950 381		
capital	7,955	8,040	7,913	7,930	8,130	8,120	7,777	7,975	7,847	8,025		
Reserve Banks <sup>3</sup>	37,316	37,697	36,710	38,044	37,004	37,299	37,816	39,632	38,981	34,068		
	End	of-month fig	gures	Wednesday figures								
	19	88	1989		1988		1989					
	Nov.	Dec.	Jan.	Dec. 14	Dec. 21	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25		
SUPPLYING RESERVE FUNDS												
23 Reserve Bank credit	261,971	269,748	261,056	261,481	263,705	269,055	273,893	269,463	262,485	266,298		
24 U.S. government securities 25 Bought outright. 26 Held under repurchase agreements. 27 Federal agency obligations. 28 Bought outright. 29 Held under repurchase agreements. 30 Acceptances. 31 Loans. 32 Float. 33 Other Federal Reserve assets. 44 Gold stock 35 Special drawing rights certificate account. 36 Treasury currency outstanding.	232,702 228,701 4,001 8,384 7,102 1,282 0 2,328 389 18,168 11,059 5,018 18,743	238,422 233,662 4,760 9,067 6,966 2,101 0 2,170 1,286 18,803 11,060 5,018 18,799	232,933 232,933 0 6,819 6,819 0 0 863 798 19,643 11,056 5,018	231,552 231,313 239 7,092 7,018 74 0 2,197 2,058 18,582 11,061 5,018	235,293 234,839 454 7,052 7,017 35 0 961 1,695 18,704 11,060 5,018	237,268 233,562 3,706 8,402 6,967 1,435 0 1,603 2,691 19,091 11,060 5,018	240,122 233,025 7,097 10,530 6,966 3,564 0 1,994 2,576 18,671 11,060 5,018 18,813	237,875 234,916 2,959 8,637 6,966 1,671 0 1,814 1,955 19,182 11,057 5,018 18,827	233,131 233,131 0 6,966 6,966 0 0 1,314 1,914 19,160 11,056 5,018	235,988 232,974 3,014 8,087 6,819 1,268 0 2,018 569 19,636 11,056 5,018 18,855		
ABSORBING RESERVE FUNDS						·				,-,-		
37 Currency in circulation	242,472 402	247,649 395	239,581 412	243,951 398	245,411 398	247,745 390	247,647 396	244,862 408	243,191 408	240,425 412		
39 Treasury	5,198 251	8,656 347	11,766 279	4,638 233	10,156 201	5,822 216	8,814 189	<b>4,806</b> 177	3,650 245	13,769 204		
adjustments	1,613 398	1,605 548	1,589 390	1,612 300	1,594 318	1,594 556	1,605 330	1,606 578	1,591 365	1,594 749		
42 Other Foderal Baserie Habilities and												
43 Other Federal Reserve liabilities and capital  44 Reserve balances with Federal	8,058	7,683	7,746	7,695	7,674	8,070	7,860	7,828	7,634	7,961		

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

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

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

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

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

	Monthly averages <sup>9</sup>									
Reserve classification	1985	1985 1986 1987 1988					1989			
	Dec.	Dec.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 Reserve balances with Reserve Banks <sup>2</sup> . 2 Total vault cash <sup>3</sup> . 3 Vault <sup>4</sup> . 4 Surplus <sup>3</sup> . 5 Total reserves <sup>5</sup> . 6 Required reserves. 7 Excess reserve balances at Reserve Banks <sup>7</sup> . 8 Total borrowings at Reserve Banks. 9 Seasonal borrowings at Reserve Banks. 10 Extended credit at Reserve Banks.	27,620 22,953 20,522 2,431 48,142 47,085 1,058 1,318 56 499	37,360 24,079 22,199 1,879 59,560 58,191 1,369 827 38 303	37,673 26,155 24,449 1,706 62,123 61,094 1,029 777 93 483	37,992 26,479 24,763 1,715 62,756 61,749 1,007 3,440 376 2,538	36,911 26,895 25,054 1,841 61,965 61,012 953 3,241 423 2,653	37,213 26,726 24,940 1,786 62,153 61,181 972 2,839 421 2,059	36,421 27,196 25,494 1,702 61,915 60,853 1,062 2,299 332 1,781	36,997 26,746 25,410 1,335 62,407 61,287 1,119 2,861 186 2,322	37,830 27,197 25,909 1,291 63,736 62,696 1,040 1,716 130 1,244	36,475 28,376 26,993 1,383 63,468 62,323 1,145 1,662 76 1,046
	Biweekly averages of daily figures for weeks ending									
				1988					1989	
	Oct. 5	Oct. 19	Nov. 2	Nov. 16	Nov. 30	Dec. 14	Dec. 28	Jan. 11	Jan. 25	Feb. 8
11 Reserve balances with Reserve Banks <sup>2</sup> 12 Total vault cash <sup>3</sup> 13 Vault <sup>4</sup> 14 Surplus <sup>5</sup> 15 Total reserves <sup>6</sup> 16 Required reserves 17 Excess reserve balances at Reserve Banks <sup>7</sup> 18 Total borrowings at Reserve Banks 19 Seasonal borrowings at Reserve Banks 20 Extended credit at Reserve Banks <sup>8</sup>	36,527 26,924 25,063 1,861 61,590 60,442 1,148 2,438 433 1,704	36,678 27,612 25,806 1,806 62,484 61,509 975 2,204 337 1,681	36,078 26,825 25,309 1,516 61,387 60,260 1,128 2,353 285 1,931	38,143 26,221 25,022 1,200 63,165 61,562 1,603 3,233 180 2,838	35,981 27,259 25,814 1,446 61,795 61,160 635 2,562 178 1,863	38,363 26,316 25,128 1,188 63,491 62,515 976 2,014 131 1,529	37,106 27,927 26,525 1,403 63,631 62,550 1,081 1,347 137 968	38,724 27,904 26,679 1,225 65,403 64,256 1,147 2,048 94 1,208	36,514 27,414 26,243 1,171 62,757 61,786 972 1,527 61 1,028	32,260 31,488 29,318 2,170 61,578 60,035 1,543 1,270 78 792

<sup>1.</sup> These data also appear in the Board's H.3 (502) release. For address, see in-

with Federal Reserve Banks, which exclude required clearing balances and adjustments to compensate for float, plus vault cash used to satisfy reserve requirements. Such vault cash consists of all vault cash held during the lagged computation period by institutions having required reserve balances at Federal Reserve Banks plus the amount of vault cash equal to required reserves during the maintenance period at institutions having no required reserve balances.

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

side front cover.

2. Excludes required clearing balances and adjustments to compensate for

float.

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

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

period.

6. Total reserves not adjusted for discontinuities consist of reserve balances

reserve requirements less required reserves.

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.

# A6 Domestic Financial Statistics April 1989

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

Averages of daily figures, in millions of dollars

	1988 week ending Monday								
Maturity and source	Apr. 18	Apr. 25	May 2	May 9	May 16	May 23	May 30	June 6	June 13
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  2 For all other maturities  From other depository institutions, foreign banks and foreign official institutions, and U.S. government agencies	72,737	67,632	64,874	66,700	63,447	63,088	64,248	71,726	70,428
	10,492	10,738	10,683	10,857	11,208	9,894	10,388	10,816	11,780
For one day or under continuing contract	36,509	31,334	28,596	32,399	33,207	34,265	32,706	33,220	34,264
	7,543	8,080	9,081	8,146	8,205	7,486	7,534	7,130	7,740
Repurchase agreements on U.S. government and federal agency securities in immediately available funds Brokers and nonbank dealers in securities For one day or under continuing contract	13,659	13,648	13,705	15,256	16,394	16,467	17,941	17,697	17,216
	14,777	16,544	17,892	17,652	17,513	15,092	15,342	14,767	15,953
	25,461	24,743	25,708	24,271	25,333	25,536	25,573	25,070	25,553
	10,279	9,705	9,324	9,238	9,444	9,348	10,648	10,049	10,136
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 10 To all other specified customers'	34,565	34,092	34,774	34,480	32,915	31,181	33,269	37,361	34,293
	13,321	13,252	14,708	14,540	13,607	13,154	13,410	15,880	16,959

<sup>1.</sup> 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.

<sup>2.</sup> Brokers and nonbank dealers in securities; other depository institutions; foreign banks and official institutions; and United States government agencies.

## 1.14 FEDERAL RESERVE BANK INTEREST RATES

Percent per year

	previous	

	Adjustment credit		lit	Extended credit <sup>2</sup>						
Federal Reserve Bank On 2/28/89		and Seasonal credit <sup>1</sup>			First 30 days of borrowing			After 30 days of borrowing <sup>3</sup>		
		Effective date	Previous rate	On 2/28/89	Effective date	Previous rate	On 2/28/89	Effective date	Previous rate	Effective date
Boston. New York Philadelphia Cliedelphia 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	61/2	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 61/2	9.90	2/23/89 2/23/89 2/23/89 2/23/89 2/23/89 2/23/89 2/23/89 2/23/89 2/23/89 2/23/89 2/23/89 2/23/89	9.70	2/9/89 2/9/89 2/9/89 2/9/89 2/9/89 2/9/89 2/9/89 2/9/89 2/9/89 2/9/89 2/9/89

Range of rates for adjustment credit in recent years4

Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)— Bank All F.R. of N.Y.		Effective date	Range (or level)— All F.R. Banks	F.R. Bank of N.Y.
In effect Dec. 31, 1977.  1978—Jan. 9  May 11  12  July 3  10  Aug. 21  Sept. 22  Oct. 16  20  Nov. 1  3  1979—July 20  Aug. 17  20  Sept. 19  21  Oct. 8  10  1980—Feb. 15  19  May 29  30  June 13  16  1978—July 29  Aug. 17	6 6-6½ 6½ 6½-7 7 7-7¼ 7¼ 8 8-8½ 8½-9½ 9½-9½ 10 10-10½ 10½-11 11 11-12 12 12-13 13 12-13 12 11-12	6 6/2 6/2 6/2 7 7 7 4 7 7 4 8 8 8 1 2 9 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1980—July 28 29 29 Sept. 26 Nov. 17 Dec. 5 1981—May 5 8 Nov. 2 6 Dec. 4 1982—July 20 23 Aug. 2 3 16 27 30 Oct. 12 13 Nov. 22 26 Dec. 14 15 15 17	10-11 10 11 12 12-13 13-14 13-14 13-14 13-12 11½-12 11½-11 10½ 10-10½ 10-10½ 9½-9 9½-9 8½-9 8½-9 8½-9	10 10 10 11 12 13 14 14 14 13 13 12 11½ 11½ 11 10 10 9½ 9 9 9 9 9 9 9 8½ 8½	1984—Apr. 9  Nov. 21  26  Dec. 24  1985—May 20  24  1986—Mar. 7  10  Apr. 21  July 11  Aug. 21  1987—Sept. 4  11  1988—Aug. 9  11  1989—Feb. 24  27  In effect February 28, 1989.	81/2-9 81/2-9 81/2 8 71/2-8 71/2-7 61/2-7 61/2-7 61/2-6 6-61/2 61/2-7 7	9 9 81/2 81/2 8 7 7 61/2 6 6 51/2 51/2 6 6 6 6 6 6 7 7

<sup>1.</sup> Adjustment credit is available on a short-term basis to help depository

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

shortened.

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

In 1980 and 1981, the Federal Reserve applied a surcharge to short-term adjustment credit borrowings by institutions with deposits of \$500 million or more that had borrowed in successive weeks or in more than four weeks in a calendar quarter. A 3 percent surcharge was in effect from Mar. 17, 1980 through May 7, 1980. There was no surcharge until Nov. 17, 1980, when a 2 percent surcharge was adopted; the surcharge was subsequently raised to 3 percent on Dec. 5, 1980, and to 4 percent on May 5, 1981. The surcharge was reduced to 3 percent effective Sept. 22, 1981, and to 2 percent effective Oct. 12, 1981. As of Oct. 1, 1981 the formula for applying the surcharge was changed from a calendar quarter to a moving 13-week period. The surcharge was eliminated on Nov. 17, 1981.

<sup>1.</sup> 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.

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

period of time.

3. For extended-credit loans outstanding more than 30 days, a flexible rate somewhat above rates on market sources of funds ordinarily will be charged, but

### 1.15 RESERVE REQUIREMENTS OF DEPOSITORY INSTITUTIONS<sup>1</sup>

Percent of deposits

Type of deposit, and deposit interval <sup>2</sup>	Depository institution requirements after implementation of the Monetary Control Act			
deposit interval	Percent of deposits	Effective date		
Net transaction accounts <sup>3,4</sup> \$0 million-\$41.5 million. More than \$41.5 million.	3 12	12/20/88 12/20/88		
Nonpersonal time deposits <sup>5</sup> 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		

Reserve requirements in effect on Dec. 31, 1988. Required reserves must be 1. Reserve requirements in effect on Dec. 31, 1988. Required reserves must be held in the form of deposits with Federal Reserve Banks or vault cash. Nonmembers may maintain reserve balances with a Federal Reserve Bank indirectly on a pass-through basis with certain approved institutions. For previous reserve requirements, see earlier editions of the Annual Report and of the FEDERAL RESERVE BULLETIN. Under provisions of the Monetary Control Act, depository institutions include commercial banks, mutual savings banks, savings and loan associations, credit unions, agencies and branches of foreign banks, and Edge corporations.

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 requirements applies be modified annually by 80 percent of the percentage increase in transaction accounts held by all depository institutions, determined as of June 30 each year. Effective Dec. 20, 1988 for institutions reporting quarterly and Dec. 27, 1988 for institutions reporting weekly, the amount was increased from \$40.5 million to \$41.5 million.

5. In general, nonpersonal time deposits are time deposits, including savings deposits, that are not transaction accounts and in which a beneficial interest is held by a depository institution offices located outside the United States. For details, see section 204.2 of Regulation D.

corporations.

2. The Garm-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 \$0 percent of the percentage increase in the total reservable liabilities of all depository institutions, measured on an annual basis as of June 30. No corresponding adjustment is to be made in the event of a decrease. On Dec. 20, 1988, the exemption was raised from \$3.2 million to \$3.4 million. In determining the reserve requirements of depository institutions, the exemption shall apply in the following order: (1) net NOW accounts (NOW accounts less allowable deductions); (2) net other transaction accounts; and (3) nonpersonal time deposits or Eurocurrency liabilities starting with those with the highest reserve ratio. With respect to NOW accounts and

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

		1987	1988	1988						
Type of transaction	1986			June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U.S. TREASURY SECURITIES										
Outright transactions (excluding matched transactions)							'			
Treasury bills  Gross purchases  Gross sales  Exchange  Redemptions	22,604 2,502 0 1,000	18,983 6,051 0 9,029	8,223 587 0 2,200	0 0 0 0	515 0 0	0 0 0 0	1,280 0 0 0	375 0 0 0	3,599 0 0 0	1,125 0 0 0
Others within 1 year  5     Gross purchases	190 0 18,674 -20,180 0	3,659 300 21,504 -20,388 70	2,176 0 23,854 -24,588 0	0 0 1,384 -1,826 0	0 0 1,033 -87 0	0 0 3,932 -4,296 0	0 0 1,368 -1,646	0 0 1,669 -916 0	0 0 5,264 -2,391 0	1,084 0 1,750 -1,703 0
1 to 5 years 10 Gross purchases 11 Gross sales 12 Maturity shift. 13 Exchange	893 0 -17,058 16,985	10,231 452 -17,975 18,938	5,485 800 -17,720 22,515	0 0 -1,384 1,826	0 0 -997 0	0 0 -1,821 3,971	0 0 -1,368 1,646	0 0 -1,544 639	0 0 -3,088 2,091	1,824 0 -1,750 1,703
5 to 10 years 14 Gross purchases 15 Gross sales	236 0 -1,620 2,050	2,441 0 -3,529 950	1,579 175 -5,946 1,797	0 0 0 0	0 0 -36 87	0 0 -2,111 325	0 0 0	0 0 -125 276	0 0 -2,145 300	562 0 0
Over 10 years 18 Gross purchases 19 Gross sales 20 Maturity shift. 21 Exchange	158 0 0 1,150	1,858 0 0 500	1,398 0 -188 275	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	0 0 -31 0	432 0 0
All maturities 22 Gross purchases 23 Gross sales 24 Redemptions	24,081 2,502 1,000	37,170 6,803 9,099	18,863 1,562 2,200	0 0 0	515 0 0	0 0 0	1,280 0 0	375 0 0	3,599 0 0	5,028 0 0
Matched transactions 25 Gross sales 26 Gross purchases	927,999 927,247	950,923 950,935	1,168,484 1,168,142	73,708 72,966	81,979 83,464	124,875 123,220	113,886 113,384	98,804 97,897	98,618 100,680	93,650 93,584
Repurchase agreements <sup>2</sup> 27 Gross purchases 28 Gross sales	170,431 160,268	314,621 324,666	152,613 151,497	10,520 5,334	22,978 28,164	0	35,800 30,191	4,715 7,727	17,867 16,463	15,575 14,815
29 Net change in U.S. government securities	29,988	11,234	15,872	4,444	-3,186	-1,655	6,386	-3,544	7,064	5,721
FEDERAL AGENCY OBLIGATIONS										
Outright transactions 30 Gross purchases 31 Gross sales 32 Redemptions	0 0 398	0 0 276	0 0 587	0 0 0	0 0 67	0 0 10	0 0 0	0 0 75	0 0 14	0 0 135
Repurchase agreements <sup>2</sup> 33 Gross purchases	31,142 30,521	80,353 81,350	57,259 56,471	5,083 2,843	12,355 14,594	0	12,107 8,225	2,223 4,454	4,763 5,132	7,672 6,853
35 Net change in federal agency obligations	222	-1,274	198	2,239	-2,306	-10	3,882	-2,306	-383	683
36 Total net change in System Open Market Account	30,212	9,961	16,070	6,683	-5,492	-1,665	10,268	-5,850	6,681	6,404

<sup>1.</sup> 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.

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

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

			Wednesday			End of month			
Account	1988		19	89		1988		1989	
	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25	Nov.	Dec.	Jan.	
			Cor	nsolidated cor	dition statem	ent			
ASSETS									
1 Gold certificate account	11,060 5,018 408	11,060 5,018 382	11,057 5,018 399	11,056 5,018 425	11,056 5,018 457	11,059 5,018 404	11,060 5,018 395	11,057 5,018 480	
Loans 4 To depository institutions	1,603 0 0	1,994 0 0	1,814 0 0	1,314 0 0	2,018 0 0	2,328 0 0	2,170 0 0	863 0 0	
Federal agency obligations  7 Bought outright.  8 Held under repurchase agreements.  U.S. Treasury securities Bought outright	6,967 1,435	6,966 3,564	6,966 1,671	6,966 0	6,819 1,268	7,102 1,282	6,966 2,101	6,819 0	
Bolgin   Bolgin   Bolgin   Bolgin   Bolgin   Bolgin   Bolgin   Bonds   Bonds	112,782 90,850 29,930 233,562 3,706 237,268	112,145 90,950 29,930 233,025 7,097 240,122	114,036 90,950 29,930 234,916 2,959 237,875	112,251 90,950 29,930 233,131 0 233,131	112,094 90,950 29,930 232,974 3,014 235,988	111,724 87,484 29,493 228,701 4,001 232,702	112,782 90,950 29,930 233,662 4,760 238,422	112,076 90,928 29,929 232,933 0 232,933	
15 Total loans and securities	247,273	252,646	248,326	241,411	246,093	243,414	249,659	240,615	
16 Items in process of collection	11,136 746	13,015 750	8,532 751	13,745 751	6,605 752	6,121 743	8,739 750	9,959 754	
Other assets 18 Denominated in foreign currencies <sup>3</sup>	9,455 8,890	9,130 8,791	9,236 9,195	9,551 8,858	9,860 9,024	9,565 8,096	9,129 8,924	9,824 9,065	
20 Total assets	293,986	300,792	292,514	290,815	288,865	284,420	293,674	286,771	
LIABILITIES  21 Federal Reserve notes	229,744	229,612	226,841	225,183	222,439	224,535	229,640	221,619	
Deposits  22 To depository institutions 23 U.S. Treasury—General account 24 Foreign—Official accounts 25 Other	41,133 5,822 216 556	43,548 8,814 189 330	45,707 4,806 177 578	41,907 3,650 245 365	37,707 13,769 204 749	40,012 5,198 251 398	39,347 8,656 347 548	35,810 11,766 279 390	
26 Total deposits	47,727	52,881	51,268	46,167	52,429	45,859	48,898	48,245	
27 Deferred credit items	8,445 3,487	10,439 3,421	6,577 3,206	11,831 3,007	6,036 3,349	6,020 3,221	7,453 3,457	9,161 3,079	
29 Total liabilities	289,403	296,353	287,892	286,188	284,253	279,635	289,448	282,104	
30 Capital paid in	2,113 2,047 423	2,114 2,113 212	2,114 2,113 395	2,115 2,113 399	2,117 2,113 382	2,106 2,047 632	2,113 2,113 0	2,117 2,112 438	
33 Total liabilities and capital accounts	293,986	300,792	292,514	290,815	288,865	284,420	293,674	286,771	
34 MEMO: Marketable U.S. Treasury securities held in custody for foreign and international accounts	232,926	233,779	230,643	230,210	228,413	235,131	234,733	229,817	
	Federal Reserve note statement								
35 Federal Reserve notes outstanding issued to bank	271,942 42,198 229,744	271,326 41,714 229,612	270,803 43,962 226,841	270,765 45,582 225,183	270,349 47,910 222,439	270,577 46,042 224,535	271,492 41,852 228,640	269,942 48,323 221,619	
38 Gold certificate account 39 Special drawing rights certificate account 40 Other eligible assets 41 U.S. Treasury and agency securities	11,060 5,018 0 213,666	11,060 5,018 0 213,534	11,056 5,018 0 210,767	11,056 5,018 0 209,109	11,056 5,018 0 206,365	11,059 5,018 0 208,458	11,060 5,018 0 213,562	11,057 5,018 0 205,544	
42 Total collateral.	229,744	229,612	226,841	225,183	222,439	224,535	229,640	221,619	

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.

Some of these data also appear in the Board's H.4.1 (503) release. For address, see inside front cover.
 Includes securities loaned—fully guaranteed by U.S. Treasury securities pledged with Federal Reserve Banks—and excludes securities sold and scheduled to be bought back under matched sale-purchase transactions.
 Valued monthly at market exchange rates.

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

			Wednesday	End of month				
Type and maturity groupings	1988		19	19	1989			
	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25	Nov. 30	Dec. 30	Jan. 31
1 Loans—Total	1,602 1,592 10 0	1,994 1,981 13 0	1,814 1,799 15 0	1,314 1,307 7 0	2,018 2,017 1 0	2,328 2,289 39 0	2,170 2,152 18 0	863 854 9 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 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	237,268 12,562 54,917 74,986 55,326 12,568 26,909	240,122 16,446 54,256 74,664 55,279 12,568 26,909	237,875 13,200 55,234 74,684 55,279 12,569 26,909	233,131 9,162 57,032 72,050 55,277 12,701 26,909	235,988 10,213 56,994 73,894 55,277 12,701 26,909	232,702 12,583 53,659 74,475 53,501 12,007 26,477	238,422 9,935 58,448 75,236 55,326 12,568 26,909	232,933 5,457 58,957 73,405 55,524 12,681 26,909
16 Federal agency obligations—Total 17 Within 15 days' 18 16 days to 90 days 19 91 days to 1 year 20 Over 1 year to 5 years 21 Over 5 years to 10 years 22 Over 10 years	8,402 1,605 697 1,492 3,419 1,000 189	10,530 3,564 837 1,522 3,418 1,000 189	8,637 1,865 742 1,435 3,406 1,000 189	6,966 195 742 1,435 3,405 1,000 189	8,087 1,364 825 1,353 3,359 997 189	8,384 1,557 675 1,457 3,413 1,093 189	9,067 2,271 697 1,492 3,418 1,000 189	6,819 136 835 1,303 3,359 997 189

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

## Domestic Financial Statistics April 1989

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

Billions of dollars, averages of daily figures

_	1985	1986	1987	1988				1988				1989
Item	Dec.	Dec.	Dec.	Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
ADJUSTED FOR						Seasonall	y adjuste	d				
Changes in Reserve Requirements <sup>2</sup>												
1 Total reserves <sup>3</sup>	47.26	57.46	58.72	60.98	60.64	61.24	61.09	61.00	60.96	61.06	60.98	60.55
2 Nonborrowed reserves 3 Nonborrowed reserves plus extended credit <sup>4</sup> 4 Required reserves 5 Monetary base <sup>5</sup>	45.94 46.44 46.20	56.63 56.93 56.09	57.94 58.43 57.69	59.26 60.51' 59.94 275.81'	57.55 60.11 59.75	57.80 60.34 60.23 270.50	57.85 60.50 60.14	58.16 60.21 60.02	58.66 60.44 59.89 273.77	58.19 60.52 59.94	59.26 60.51' 59.94	58.89 59.93 59.40
5 Monetary base	210.29	240.82 <sup>r</sup>	258.06′	2/3.81	268.27′	270.30	271.14	272.47	2/3.//	274.66 <sup>r</sup>	275.81°	276.75
					No	ot seasona	ally adjus	ted				
6 Total reserves <sup>3</sup>	48.27	58.70	60.02	62.43 <sup>r</sup>	60.68	61.47	60.59	60.65	60.54	61.15	62.43 <sup>r</sup>	62.28
7 Nonborrowed reserves . 8 Nonborrowed reserves plus extended credit <sup>4</sup>	46.95 47.45 47.21 221.49	57.87 58.18 57.33 244.55	59.25 59.73 58.99 262.05	60.71 61.96' 61.39' 279.89'	57.60 60.15 59.79 269.44	58.03 60.57 60.46 272.41	57.35 60.00 59.64 271.73	57.82 59.87 59.68 271.57	58.24 60.02 59.48 272.44	58.29 60.62 60.04 275.48	60.71 61.96' 61.39' 279.89	60.62 61.67 61.13 278.10
Not Adjusted for Changes in Reserve Requirements <sup>6</sup>												
11 Total reserves <sup>3</sup>	48.14	59.56	62.12	63.74	61.99	62.76	61.97	62.15	61.92	62.41	63.74	63.47
12 Nonborrowed reserves 13 Nonborrowed reserves plus extended credit <sup>4</sup> . 14 Required reserves. 15 Monetary base <sup>5</sup> .	46.82 47.32 47.08 223.53	58.73 59.04 58.19 247.71	61.35 61.83 61.09 266.16	62.02 63.27' 62.70 283.18	58.91 61.46 61.10 272.65	59.32 61.85 61.75 275.59	58.72 61.38 61.01 275.03	59.31 61.37 61.18 274.87	59.62 61.40 60.85 275.78	59.55 61.87 61.29 278.65	62.02 63.27' 62.70 283.18	61.81 62.86 62.33 281.32

<sup>1.</sup> 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

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.

5. The monetary base not adjusted for discontinuities consists of total reserves plus required clearing balances and adjustments to compensate for float at Federal Reserve Banks and the currency component of the money stock plus, for insti-tutions not having required reserve balances, the excess of current vault cash over the amount applied to satisfy current reserve requirements. Currency and vault cash figures are measured over the weekly computation period ending Monday.

The seasonally adjusted monetary base consists of seasonally adjusted total reserves, which include excess reserves on a not seasonally adjusted basis, plus the seasonally adjusted currency component of the money stock and the remaining items seasonally adjusted as a whole.

6. Reflects actual reserve requirements, including those on nondeposit liabili-

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

3. Total reserves not adjusted for discontinuities consist of reserve balances

with Federal Reserve Banks, which exclude required clearing balances and adjustments to compensate for float, plus vault cash held during the lagged computation period by institutions having required reserve balances at Federal Reserve Banks plus the amount of vault cash equal to required reserves during the maintenance period at institutions having no required reserve balances.

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

ties, with no adjustments to eliminate the effects of discontinuities associated with implementation of the Monetary Control Act or other regulatory changes to reserve requirements.

## 1.21 MONEY STOCK, LIQUID ASSETS, AND DEBT MEASURES<sup>1</sup> Billions of dollars, averages of daily figures

7	1985	1986	1987	1988		1988 <sup>r</sup>		1989
Item <sup>2</sup>	Dec.	Dec.'	Dec.	Dec."	Oct.	Nov.	Dec.	Jan.
				Seasonall	y adjusted			
1 M1	620.5	725.9	752.3	790.2	785.4	786.6	790.2	786.3
	2,567.4	2,811.2	2,909.5	3,071.8	3,042.2	3,059.1	3,071.8	3,069.0
	3,201.7	3,494.9	3,677.1	3,917.3	3,876.5	3,898.9	3,917.3	3,922.1
	3,830.6	4,137.1	4,340.2	4,688.9	4,615.6	4,648.1	4,688.9	n.a.
	6,719.9	7,576.8	8,282.2	8,992.5	8,876.2	8,937.0	8,992.5	n.a.
M1 components 6 Currency 7 Travelers checks 8 Demand deposits 9 Other checkable deposits 6	167.8	180.5	196.4	211.8	209.7	210.5	211.8	213.4
	5.9	6.5	7.1	7.6	7.4	7.5	7.6	7.6
	267.3	303.2	288.3	288.6	288.9	287.7	288.6	284.0
	179.5	235.8	260.4	282.3	279.4	280.9	282.3	281.3
Nontransactions components 10 In M2'	1,946.9	2,085.3	2,157.2	2,281.5	2,256.7	2,272.5	2,281.5	2,282.7
	634.3	683.7	767.6	845.6	834.4	839.8	845.6	853.1
Savings deposits <sup>9</sup> 12 Commercial Banks 13 Thrift institutions	125.0	155.8	178.5	192.5	189.8	192.8	192.5	190.8
	176.6	215.2	237.8	238.8	239.4	239.0	238.8	237.0
Small-denomination time deposits <sup>10</sup> 14 Commercial Banks	383.3	364.6	385.3	443.0	430.9	436.4	443.0	451.1
	499.2	489.3	528.8	582.2	578.8	581.4	582.2	584.4
Money market mutual funds 16 General purpose and broker-dealer	176.5	208.0	221.1	239.6	231.3	237.4	239.6	242.0
	64.5	84.4	89.6	87.6	84.6	87.4	87.6	89.3
Large-denomination time deposits <sup>11</sup> 18 Commercial Banks <sup>12</sup> 19 Thrift institutions	285.1	288.8	325.4	365.1	359.2	361.2	365.1	370.4
	151.5	150.1	162.0	172.9	172.8	173.2	172.9	173.8
Debt components 20 Federal debt	1,585.3	1,805.8	1,956.1	2,113.7	2,088.7	2,100.4	2,113.7	п.а.
	5,134.6	5,771.1	6,326.0	6,878.8	6,787.4	6,836.6	6,878.8	n.a.
			•	Not seasona	ally adjusted			
22 M1	633.5	740.4	766.4	804.3	782.1	788.3	804.3	793.0
23 M2	2,576.2	2,821.1	2,918.3	3,079.5	3,038.3	3,057.7	3,079.5	3,079.3
24 M3	3,213.3	3,507.4	3,688.1	3,927.1	3,874.2	3,904.0	3,927.1	3,929.6
25 L	3,843.7	4,152.0	4,354.5	4,702.7	4,611.5	4,656.1	4,702.7	n.a.
26 Debt	6,710.2	7,561.0	8,264.2	8,968.3	8,842.1	8,894.8	8,968.3	n.a.
M1 components  27 Currency <sup>3</sup> 28 Travelers checks <sup>4</sup> 29 Demand deposits <sup>5</sup> 30 Other checkable deposits <sup>6</sup>	170.2	183.0	199.3	214.9	209.0	211.3	214.9	211.8
	5.5	6.0	6.5	6.9	7.5	7.1	6.9	7.0
	276.9	314.0	298.6	298.8	288.8	290.0	298.8	290.5
	180.9	237.4	262.0	283.7	276.9	279.8	283.7	283.7
Nontransactions components	1,942.7	2,080.7	2,151.9	2,275.1	2,256.2	2,269.4	2,275.1	2,286.3
	637.1	686.3	769.8	847.7	835.9	846.4	847.7	850.3
Money market deposit accounts 33 Commercial Banks	332.8	379.6	358.8	352.4	353.0	354.1	352.4	348.3
	180.7	192.9	167.5	150.3	154.5	152.6	150.3	146.8
Savings deposits <sup>9</sup> 35 Commercial Banks	123.7	154.2	176.6	190.3	190.2	192.2	190.3	189.2
	174.8	212.7	234.8	235.6	240.7	238.2	235.6	233.5
Small-denomination time deposits <sup>10</sup> 37 Commercial Banks	384.0	365.3	386.1	444.1	431.3	437.7	444.1	453.1
	499.9	489.8	529.1	582.4	579.3	581.8	582.4	588.2
Money market mutual funds 39 General purpose and broker-dealer	176.5	208.0	221.1	239.6	231.3	237.4	239.6	242.0
	64.5	84.4	89.6	87.6	84.6	87.4	87.6	89.3
Large-denomination time deposits <sup>11</sup> 41 Commercial Banks <sup>12</sup> 42 Thrift institutions	285.4	289.1	325.8	365.8	360.8	362.3	365.8	370.1
	151.8	150.7	163.0	174.0	174.7	174.9	174.0	174.9
Debt components   43   Federal debt	1,583.7	1,803.9	1,954.1	2,111.5	2,068.9	2,089.8	2,111.5	n.a.
	5,126.4	5,757.2	6,310.1	6,856.8	6,773.2	6,805.0	6,856.8	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 Monetary and Reserves Projection 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:
Mr. (1) currency outside the Treasury, Federal Reserve Banks, and the vaults of depository institutions; (2) travelers checks of nonbank issuers; (3) demand deposits at all commercial banks other than those due to depository institutions, the U.S. government, and foreign banks and official institutions less cash items in the process of collection and Federal Reserve float; and (4) other checkable deposits (OCD) consisting of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institutions, credit union share draft accounts, and demand deposits at thrift institutions.
Mr. Mr. Julius overnight (and continuing contract) repurchase agreements (RPs)

share draft accounts, and demand deposits at thrift institutions.

M2: M1 plus overnight (and continuing contract) repurchase agreements (RPs) issued by all commercial banks and overnight Eurodollars issued to U.S. residents by foreign branches of U.S. banks worldwide, MMDAs, savings and small-denomination time deposits (time deposits—including retail RPs—in amounts of less than \$100,000), and balances in both taxable and tax-exempt general purpose and broker-dealer money market mutual funds. Excludes individual retirement accounts (IRA) and Keogh balances at depository institutions and money market funds. Also excludes all balances held by U.S. commercial banks, money market funds (general purpose and broker-dealer), foreign governments and commercial banks, and the U.S. government.

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

I. M3 luts the nonbank nublic holdings of U.S. savings bonds short-term

money market mutual funds.

L: M3 plus the nonbank public holdings of U.S. savings bonds, short-term Treasury securities, commercial paper and bankers acceptances, net of money market mutual fund holdings of these assets.

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

3. Currency outside the U.S. Treasury, Federal Reserve Banks, and vaults of depository institutions. Debt: Debt of domestic nonfinancial sectors consists of outstanding credit

 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 omedia institutions less cash items in the process of concention and receival 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, and term Eurodollars of U.S. residents, money market fund balances (institution-only), less the estimated amount of overnight RPs and Eurodollars held by institution-only money market funds.

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

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

  12. 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 TURNOVER<sup>1</sup>

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

					<del>.</del>	19	988		
Bank group, or type of customer	1985 <sup>2</sup>	1986 <sup>2</sup>	1987 <sup>2</sup>	June	July	Aug.	Sept.	Oct.	Nov.
DEBITS TO				Sea	asonally adjus	ted			
Demand deposits <sup>3</sup> 1 All insured banks  2 Major New York City banks  3 Other banks  4 ATS-NOW accounts <sup>4</sup> 5 Savings deposits <sup>5</sup>	156,091.8 70,585.8 85,506.0 1,823.5 384.9	188,346.0 91,397.3 96,948.8 2,182.5 403.5	217,116.2 104,496.3 112,619.8 2,402.7 526.5	230,198.8 111,402.1 118,796.6 2,786.0 597.1	224,512.7 107,336.7 117,176.0 2,570.4 583.3	228,898.2 110,150.0 118,748.2 2,963.6 609.6	227,617.3 108,741.8 118,875.5 2,871.2 578.6	235,980.5 114,876.4 121,104.1 2,820.2 521.3	238,497.5 112,071.8 126,425.7 2,897.2 574.9
DEPOSIT TURNOVER									
Demand deposits <sup>3</sup>	500.3 2,196.9 305.7 15.8 3.2	556.5 2,498.2 321.2 15.6 3.0	612.1 2,670.6 357.0 13.8 3.1	649.8 2,911.0 376.0 14.8 3.2	622.7 2,789.6 363.8 13.5 2.9	645.8 2,939.3 374.6 15.6 3.2	651.0 3,102.4 377.9 15.1 3.1	659.7 3,086.1 377.9 14.8 2.8	676.6 3,034.6 400.6 15.1 3.1
DEBITS TO				Not s	seasonally adj	usted			
Demand deposits <sup>3</sup> 11 All insured banks 12 Major New York City banks 13 Other banks 14 ATS-NOW accounts <sup>4</sup> 15 MMDA <sup>6</sup> 16 Savings deposits <sup>5</sup>	156,052.5 70,559.2 85,493.2 1,826.4 1,223.9 385.3	188,506.7 91,500.1 97,006.7 2,184.6 1,609.4 404.1	217,125.1 104,518.8 112,606.2 2,404.8 1,954.2 526.8	241,133.2 117,287.7 123,845.5 2,851.4 2,557.1 598.3	217,350.7 103,561.2 113,789.6 2,536.6 2,399.0 566.2	237,459.0 112,654.6 124,804.4 2,828.0 2,530.0 615.9	224,089.2 107,115.7 116,973.5 2,951.1 2,409.4 570.1	227,485.2 111,019.4 116,465.8 2,805.4 2,325.8 540.9	228,743.0 108,689.1 120,053.9 2,714.1 2,539.7 523.7
DEPOSIT TURNOVER									
Demand deposits <sup>3</sup>   All insured banks   18   Major New York City banks   19   Other banks   20   ATS-NOW accounts <sup>4</sup>   21   MMDA <sup>6</sup>   22   Savings deposits <sup>5</sup>	499.9 2,196.3 305.6 15.8 4.0 3.2	556.7 2,499.1 321.2 15.6 4.5 3.0	612.3 2,674.9 356.9 13.8 5.3 3.1	679.5 3,121.4 390.3 15.2 7.2 3.2	599.9 2,660.7 351.9 13.4 6.7	681.6 3,170.3 398.9 15.1 7.2 3.3	642.9 3,046.4 373.3 15.6 6.9 3.1	39.8 3,059.1 364.8 14.9 6.7 2.9	643.3 2,998.6 375.9 14.3 7.3 2.8

<sup>1.</sup> 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

of states and political subdivisions.

front cover.

2. Annual averages of monthly figures.

3. Represents accounts of individuals, partnerships, and corporations and

or states and pontical subdivisions.

4. Accounts authorized for negotiable orders of withdrawal (NOW) and accounts authorized for automatic transfer to demand deposits (ATS). ATS data are available beginning December 1978.

5. Excludes ATS and NOW accounts, MMDA and special club accounts, such as Christmas and vacation clubs.

6. Money market deposit accounts.

# A16 Domestic Financial Statistics April 1989

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

Billions of dollars; averages of Wednesday figures

Category				<del>,</del> _		1988				_		1989
Cultigory	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
						Seasonal	y adjusted					
1 Total loans and securities <sup>2</sup>	2,264.1	2,281.3	2,304.7	2,328.5	2,348.4	2,360.8	2,374.9	2,373.6	2,387.5	2,398.1	2,398.3	2,403.3
2 U.S. government securities	569.3 4.3	340.2 195.7 1,745.4 568.6 4.7	343.8 196.6 1,764.3 578.1 4.6	346.5 196.1 1,786.0 586.3 4.4	350.5 196.5 1,801.5 592.4 4.4	348.0 196.8 1,815.9 598.3 4.4	350.5 196.4 1,827.9 599.4 4.6	352.5 194.2 1,826.8 597.1 4.5	355.1 195.4 1,836.9 600.9 4.2	356.8 194.8 1,846.5 599.2 4.2	360.9 190.9 1,846.5 599.9 3.9	360.8 186.2 1,856.3 605.4 4.2
industrial  8 U.S. addressees <sup>4</sup> .  9 Non-U.S. addressees <sup>4</sup> .  10 Real estate 11 Individual 12 Security 13 Nonbank financial	564.9 556.3 8.7 599.2 333.0 42.0	564.0 555.8 8.2 604.9 337.0 41.2	573.5 565.5 8.1 611.3 340.4 39.6	582.0 575.1 6.9 618.6 342.8 40.0	588.1 581.3 6.8 625.0 344.4 39.5	593.9 587.4 6.5 631.4 345.3 38.7	594.7 588.4 6.3 638.7 347.0 40.0	592.7 586.4 6.3 644.7 349.1 36.0°	596.7 590.6 6.1 652.0 349.6 37.8	595.0 589.5 5.5 659.2 350.8 37.0	596.0 589.6 6.4 663.2 353.6 36.3	601.2 594.8 6.4 668.2 355.4 36.4
institutions	31.8 29.5	31.2 29.3	30.4 29.4	30.9 29.6	30.6 29.6	31.0 29.6	30.8 29.5	29.8' 29.5	29.6 <sup>r</sup> 29.7 <sup>r</sup>	29.5° 30.3	29.6 30.8	30.5 31.3
subdivisions 16 Foreign banks 17 Foreign official institutions 18 Lease financing receivables 19 All other loans	51.0 7.4 5.1 25.3 40.4	50.1 7.8 5.1 25.4 44.8	49.6 8.3 5.1 25.7 46.3	49.4 7.9 5.1 26.0 49.3	49.2 7.9 5.0 26.5 51.2	48.9 8.2 5.0 27.2 52.2'	48.3 8.1 5.2 27.3 53.8	48.1 7.3 5.2 27.7 52.2	49.0° 7.6° 5.2° 28.1 47.5°	48.3 <sup>r</sup> 8.2 <sup>r</sup> 5.4 28.1 50.6 <sup>r</sup>	46.8 7.4 5.6 28.1 45.4	44.7 7.5 5.7 28.2 43.0
					1	Not season	ally adjuste	ed .				
20 Total loans and securities <sup>2</sup>	2,268.8	2,281.6	2,305.9	2,325.2	2,344.6	2,350.7	2,363.5	2,370.3	2,382.0	2,397.3	2,416.3	2,416.7
21 U.S. government securities	341.5 194.4 1,732.9 568.5 4.3	342.0 195.3 1,744.2 573.8 4.7	343.4 196.2 1,766.3 582.1 4.5	344.9 196.1 1,784.2 588.8 4.4	347.0 196.0 1,801.6 594.0 4.5	347.1 195.5 1,808.1 595.4 4,4	350.5 196.3 1,816.7 594.2 4.6	352.7 194.3 1,823.3 593.7 4.5	352.8 194.3 1,834.9 596.4 4.1	356.9 194.1 1,846.2 598.1 4.2	360.8 191.4 1,864.0 604.4 4.0	362.4 188.9 1,865.5 605.1 4.0
industrial.  17 U.S. addressees <sup>4</sup> 28 Non-U.S. addressees <sup>4</sup> 29 Real estate 30 Individual 31 Security 32 Nonbank financial	564.2 556.0 8.2 598.5 332.4 40.5	569.1 561.2 7.9 604.1 333.9 40.6	577.6 569.7 7.9 610.3 337.4 41.4	584.4 577.3 7.1 618.1 339.9 40.5	589.5 582.6 6.9 624.8 342.3 40.9	591.0 584.0 7.0 631.5 343.8 38.3	589.6 582.9 6.7 638.7 347.1 38.2	589.1 582.5 6.6 645.5 350.7 35.0	592.3 586.1' 6.2 652.7 351.3 36.6'	593.9 587.8' 6.2 659.7 352.7 37.0'	600.4 594.2 6.2 664.2 358.2 38.0	601.1 595.7 5.4 668.6 359.1 37.2
institutions	30.8 28.5	30.3 28.3	30.3 28.6	30.7 29.3	30.6 29.9	30.8 30.3	30.7 30.4	30.2 30.5	29.6' 30.6	29.9 <sup>r</sup> 30.5	30.8 30.5	30.7 30.6
subdivisions 5 Foreign banks 36 Foreign official institutions 37 Lease financing receivables 38 All other loans	52.2 7.6 5.1 25.4 43.3	51.0 7.7 5.1 25.6 43.9	50.0 7.9 5.1 25.9 47.3	49.3 7.7 5.1 26.1 48.7	48.9 7.8 5.0 26.7 50.7	48.2 8.2 5.0 27.2 49.4	47.7 7.9 5.2 27.2 49.5	47.4 <sup>r</sup> 7.5 5.2 27.5 50.0 <sup>r</sup>	48.2' 7.8' 5.2' 27.6 48.9'	47.3 8.1 5.4 27.8 49.7	46.9 7.7 5.6 28.1 49.7	46.2 7.7 5.7 28.4 46.2

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 BANKS<sup>1</sup>

Monthly averages, billions of dollars

										<del></del>		
Source						1988						1989
Source	Feb.	Mar.	Apr.	May	June	Juiy	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
Seasonally adjusted  1 Total nondeposit funds <sup>2</sup> 2 Net balances due to related foreign offices <sup>3</sup> 3 Borrowings from other than commercial banks	195.0	189.8	204.1	209.9	213.3	215.2	222.4	210.4	210.5	217.8	212.7	207.1
	2.7	-6.5	4.5	6.5	8.8	14.0	21.8	8.9	4.3	9.9	6.7	8.1
in United States <sup>4</sup> 4 Domestically chartered banks 5 Foreign-related banks	192.3	196.3	199.7	203.4	204.4	201.2	200.6	201.5	206.2	207.8	206.1	199.1
	164.4	166.7	167.6	170.8	170.6	166.8	166.1	165.6	168.0	168.5	167.1	162.1
	27.9	29.6	32.1	32.6	33.8	34.4	34.5	35.9	38.2	39.3	38.9	36.9
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	200.2	199.2	206.4	218.2	215.8	210.6	218.5	206.1	205.4	213.8	207.2	206.3
	3.1	-3.1	2.0	9.7	8.7	10.8	18.6	9.1	4.9	10.2	9.1	7.7
	-20.2	-25.3	-22.2	-16.5	-16.3	-14.0	-7.3	~15.7	-20.6	-19.2	-20.7	-20.3
	23.3	22.1	24.2	26.2	25.0	24.8	25.9	24.7	25.5	29.4	29.8	28.1
in United States*  11 Domestically chartered banks  12 Federal funds and security RP	197.1	202.4	204.4	208.4	207.1	199.8	199.9	197.1	200.5	203.6	198.0	198.5
	168.2	171.5	171.6	175.4	171.9	164.9	165.6	161.8	163.7	167.2	161.1	160.5
borrowings <sup>5</sup> 13 Other <sup>6</sup> 14 Foreign-related banks <sup>6</sup>	166.2	168.1	166.8	170.8	167.1	159.5	160.6	157.4	159.6	162.6	157.6	157.1
	2.0	3.4	4.8	4.6	4.8	5.4	5.0	4.4	4.1	4.6	3.5	3.4
	28.8	30.8	32.8	33.0	35.2	34.9	34.2	35.3	36.8	36.3	36.9	38.1
MEMO Gross large time deposits <sup>7</sup> 15 Seasonally adjusted	395.9°	398.0°	397.1'	399.8′	403.2'	408.4 <sup>r</sup>	414.6 <sup>7</sup>	419.7	423.2'	424.5 <sup>r</sup>	429.1'	434.9
	395.7	399.5°	395.4'	398.9′	401.8'	405.9 <sup>r</sup>	415.1 <sup>7</sup>	421.7	424.7'	425.6 <sup>r</sup>	429.8'	434.5
17 Seasonally adjusted	22.2 <sup>r</sup>	25.2 <sup>r</sup>	22.4 <sup>r</sup>	23.9°	22.0	21.3°	17.1 <sup>r</sup>	23.5 <sup>r</sup>	27.2°	23.0°	24.9 <sup>r</sup>	20.4
	28.2	22.3	21.7	30.4	21.0	22.0	11.9	24.6	27.7	16.3	22.9	25.1

<sup>1.</sup> The nondeposit funds series that is published regularly in this table has been revised starting with this issue. For details see the Announcements section,

U.S. branches and agencies of foreign banks with related foreign offices plus net positions with own IBFs.

revised starting with this issue. For details see the filling starting with this issue. For details see the filling start 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 leads from tower.

inside front cover.

2. Includes federal funds, RPs, and other borrowing from nonbanks and net balances due to related foreign offices.

3. Reflects net positions of U.S. chartered banks, Edge Act corporations, and

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 Series<sup>1</sup> Billions of dollars

			<del></del>		19	988			······································		1989
Account	Mar.	. Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
ALL COMMERCIAL BANKING INSTITUTIONS										]	
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	2,450.0 517.7 325.7 192.0 20.3 1,912.0 159.5 1,752.4 576.2 607.3 334.8 234.1	2,466.8 519.7 328.8 190.9 19.6 1,927.5 158.0 1,769.5 583.4 612.5 339.1 234.6	2,473.2 521.6 330.7 191.0 20.3 1,931.3 1,779.1 587.8 619.7 340.0 231.7	2,511.7 518.6 328.0 190.6 22.1 1,971.0 163.7 1,807.3 598.2 627.5 343.2 238.4	2,509.0 521.6 '331.6 190.0 23.9 1,963.5 158.7 1,804.8 592.4 633.1 344.1 235.2	2,523.3 525.4 334.6 190.8 22.8 1,975.1 154.7 1,820.4 592.8 641.8 349.2 236.6	2,522.7 525.9 336.5 189.4 21.3 1,975.5 151.2 1,824.3 593.8 647.8 351.5 231.2	2,537.9 523.6 334.4 189.2 24.9 1,989.4 158.5 1,830.9 593.8 654.1 351.9 231.1	2,575.6 529.6 340.4 189.2 24.8 2,021.2 167.7 1,853.5 600.0 661.6 354.1 237.8	2,586.0 529.7 343.9 185.8 19.2 2,037.0 163.7 1,873.3 608.4 666.6 360.4 237.9	2,571.0 531.0 347.7 183.3 21.5 2,018.5 158.1 1,860.4 603.0 669.8 359.2 228.4
13 Total cash assets	211.2 32.0 24.8 74.1	214.3 32.2 25.4 76.4	200.3 26.0 25.4 71.5	221.4 34.4 26.5 77.2	217.0 30.7 25.9 75.7	221.8 33.0 26.5 79.9	215.9 31.1 26.2 76.4	208.5 31.6 26.3 72.6	235.4 33.7 28.7 89.5	245.6 34.5 30.3 92.0	215.1 31.5 27.5 76.1
institutions	32.0 48.2	30.3 49.9	29.2 48.3	31.6 51.8	31.3 53.5	31.5 50.9	29.4 52.8	29.2 48.8	32.1 51.4	34.2 54.5	27.8 52.2
19 Other assets	193.1	190.9	186.6	194.3	188.4	187.5	191.8	201.2	201.3	198.5	196.1
20 Total assets/total liabilities and capital	2,854.3	2,871.9	2,860.2	2,927.5	2,914.4	2,932.6	2,930.3	2,947.6	3,012.2	3,030.1	2,982.2
21 Deposits 22 Transaction deposits 23 Savings deposits 24 Time deposits 25 Borrowings 26 Other liabilities 27 Residual (assets less liabilities)	2,008.5 588.5 540.0 879.9 454.9 207.7 183.2	2,011.6 595.9 536.4 879.3 465.8 210.1 184.4	2,008.6 579.1 542.2 887.3 458.4 207.4 185.8	2,042.5 603.3 544.5 894.7 487.4 209.7 187.8	2,050.2 598.4 545.4 906.4 470.7 208.2 185.3	2,072.9 609.5 542.2 921.2 452.4 218.5 188.7	2,058.8 588.3 536.9 933.6 470.8 213.1 187.6	2,067.3 586.9 538.4 941.9 481.3 210.0 189.0	2,120.6 627.1 542.2 951.2 476.8 222.6 192.2	2,140.9 641.2 537.1 962.7 470.7 227.3 191.2	2,091.9 585.0 530.3 976.6 492.3 204.0 194.0
MEMO 28 U.S. government securities (including trading account)	341.2 196.8	343.4 195.9	346.3 195.6	344.7 196.0	349.2 196.4	351.4 196.7	352.7 194.4	354.3 194.2	359.9 194.5	357.9 191.0	364.9 187.6
Domestically Chartered Commercial Banks <sup>3</sup>											
30 Loans and securities	2,266.0 491.7 314.5 177.2 20.3 1,754.0 131.2 1,622.9 481.0 592.1 334.5 215.3	2,282.3 494.6 317.7 177.0 19.6 1,768.1 128.5 1,639.6 487.4 597.0 338.8 216.4	2,286.4 495.7 318.6 177.1 20.3 1,770.4 124.9 1,645.6 488.8 603.6 339.7 213.5	2,314.7 492.8 316.3 176.6 22.1 1,799.7 133.1 1,666.6 492.6 611.4 342.9 219.7	2,319.3 495.3 319.3 176.1 23.9 1,800.1 130.7 1,669.4 490.8 617.5 343.8 217.3	2,330.5 499.3 322.8 176.5 22.8 1,808.5 125.2 1,683.3 489.7 625.4 348.9 219.2	2,329.1 501.0 325.0 175.9 21.3 1,806.8 121.8 1,685.0 489.2 631.5 351.2 213.2	2,342.4 498.5 323.1 175.5 24.9 1,819.0 127.8 1,691.2 490.2 490.2 636.5 351.6 212.9	2,376.2 504.7 329.2 175.6 24.8 1,846.7 136.3 1,710.4 495.4 642.7 353.7 218.5	2,378.7 505.4 332.9 172.5 19.2 1,854.1 130.5 1,723.6 497.6 647.8 360.1 218.1	2,372.5 505.9 335.3 170.6 21.5 1,845.1 128.7 1,716.4 495.9 651.6 358.8 210.0
42 Total cash assets	193.9 30.1 24.7 73.5	196.7 30.7 25.4 75.8	183.0 23.6 25.4 71.0	201.6 32.9 26.5 76.5	196.4 29.5 25.9 75.1	202.8 31.4 26.5 79.2	193.4 29.0 26.2 75.7	189.7 29.8 26.3 71.9	215.2 32.6 28.7 88.7	223.4 33.1 30.3 91.2	194.0 30.1 27.4 75.3
institutions	30.4 35.2	28.7 36.0	27.5 35.6	29.8 35.8	29.4 36.5	29.8 36.0	27.3 35.3	27.2 34.4	30.2 35.1	32.2 36.7	25.8 35.4
48 Other assets	123.1	121.3	118.3	125.6	121.6	123.8	127.8	132.9	134.0	135.3	128.0
49 Total assets/liabilities and capital	2,583.0	2,600.3	2,587.7	2,641.8	2,637.4	2,657.2	2,650,3	2,665.0	2,725.4	2,737.3	2,694,5
50 Deposits 51 Transaction deposits 52 Savings deposits 53 Time deposits 54 Borrowings 55 Other liabilities 56 Residual (assets less liabilities)	1,944.5 580.0 537.6 826.9 350.1 108.6 179.9	1,948.1 587.2 533.9 827.0 358.4 112.7 181.1	1,944.7 570.7 539.8 834.2 351.7 108.8 182.4	1,976.9 594.5 541.8 840.6 369.4 111.0 184.5	1,984.4 589.6 542.9 851.9 358.5 112.5 182.0	2,006.4 600.6 539.7 866.1 345.7 119.6 185.4	1,991.0 579.1 534.4 877.5 358.6 116.4 184.3	1,999.1 577.3 535.8 885.9 363.2 117.0 185.6	2,051.1 617.2 539.8 894.2 362.5 123.0 188.8	2,068.1 631.4 534.6 902.2 360.2 121.2 187.8	2,020.9 575.7 527.9 917.3 373.8 109.1 190.6
MEMO <sup>4</sup> 57 Real estate loans, revolving	32.1 560.0	33.0 564.0	33.7 569.9	34.8 576.6	35.3 582.2	36.3 589.2	37.3 594.1	37.9 598.5	39.1 603.7	39.7 608.1	40.2 611.4

<sup>1.</sup> 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.

Data have been revised because of benchmarking to new Call reports beginning January 1987.

Figures are northy estimated. They include all bank premises subsidiaries and

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.

4. Memorandum items for real estate loans; revolving and other, are shown as separate breakdowns for the first time.

## 1.26 ASSETS AND LIABILITIES OF LARGE WEEKLY REPORTING COMMERCIAL BANKS<sup>1</sup> Millions of dollars, Wednesday figures

			1988	<u>.                                    </u>			19	89		Adjust- ment
Account	Nov. 30	Dec. 7	Dec. 14	Dec. 21	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25	bank 1988 <sup>2</sup>
Cash and balances due from depository institutions      Total loans, leases, and securities, net	118,357	108,707	112,772	107,318	125,023	140,505	115,869	130,199	106,823	2,328
	1,1 <b>57,799</b>	1,150,152	1, <b>150,648</b>	1,157,660	<b>1,154,340</b>	1,177,194	1 <b>,172,696</b>	1,176,749	<b>1,175,392</b>	<b>20,658</b>
3 U.S. Treasury and government agency 4 Trading account 5 Investment account 6 Mortgage-backed securities <sup>3</sup>	135,859	135,819	133,576	132,944	128,584	131,352	132,175	134,266	135,361	2,108
	19,817	19,009	16,908	16,532	14,371	14,619	15,367	17,292	17,121	-342
	116,042	116,810	116,668	116,412	114,214	116,733	116,808	116,974	118,240	2,450
6 Mortgage-backed securities' All other maturing in 7 One year or less 8 Over one through five years	46,164 20,975 40,354	46,407 21,434 40,373	46,275 21,369 40,251	46,188 21,410 39,804	46,306 20,458 39,527	47,211 21,048 40,465	47,154 21,074 40,600	47,338 21,072 40,704	47,766 21,761 40,868	436 1,186
9 Over five years 10 Other securities	8,550	8,596	8,773	9,009	7,923	8,010	7,979	7,860	7,844	140
	73,349	72,563	72,284	72,279	72,315	73,358	72,989	72,937	72,688	880
	1,681	1,622	1,550	1,680	1,713	1,535	1,334	1,273	1,299	-85
	71,668	70,941	70,734	70,599	70,602	71,823	71,655	71,664	71,388	965
12 Investment account 13 States and political subdivisions, by maturity 14 One year or less 15 Over one year	45,456	44,988	44,811	44,717	44,653	45,216	45,206	45,192	45,159	793
	5,106	4,960	4,937	4,859	4,865	4,948	4,911	4,902	4,893	92
	40,349	40,027	39,874	39,858	39,788	40,268	40,295	40,291	40,266	700
16 Other bonds, corporate stocks, and securities	3,723 76,096	25,953 3,900 72,375	25,923 3,415 73,388	25,882 3,409 75,911	25,949 3,596 74,401	26,607 3,693 77,259	26,449 3,700 76,387	26,472 3,524 74,237	26,229 3,041 75,321	172 8 1,167
19 To commercial banks 20 To nonbank brokers and dealers in securities 21 To others 22 Other loans and leases, gross	51,082	45,665	47,158	49,233	49,135	52,820	50,946	49,351	50,565	1,162
	15,593	17,182	17,008	17,242	16,707	16,343	16,616	16,734	16,934	0
	9,420	9,528	9,222	9,435	8,558	8,096	8,825	8,152	7,822	5
	909,402	906,165	908,550	913,634	915,695	931,160	926,724	930,980	928,366	17,318
23 Other loans, gross	886,030	882,597	884,900	889,939	891,942	907,061	902,576	906,762	904,068	17,182
	301,179	300,591	299,880	301,558	301,992	306,444	304,239	304,269	305,192	3,709
	1,875	1,786	1,802	1,756	1,780	1,930	1,733	1,693	1,626	15
26       All other         27       U.S. addressees         28       Non-U.S. addressees	299,304	298,805	298,077	299,802	300,213	304,513	302,506	302,577	303,567	3,694
	297,046	296,575	295,835	297,543	297,854	302,262	300,318	300,686	301,628	3,693
	2,257	2,230	2,242	2,258	2,359	2,252	2,188	1,890	1,938	1
	295,937	296,152	297,531	298,565	299,604	308,449	309,320	310,108	310,582	8,983
29 Real estate loans 30 Revolving, home equity. 31 All other	295,937	296,152	297,531	298,565	299,604	308,449	309,320	310,108	310,582	8,983
	295,937	296,152	297,531	298,565	299,604	308,449	309,320	310,108	310,582	8,983
	165,852	166,414	167,605	168,206	169,179	173,078	172,696	172,362	172,119	3,431
To depository and financial institutions Commercial banks in the United States Banks in foreign countries Nonbank depository and other financial institutions	49,134	48,813	47,837	48,150	48,728	47,404	48,199	48,973	47,205	134
	22,689	22,990	22,114	21,951	22,185	21,044	22,246	22,852	22,289	35
	4,679	4,108	3,963	4,065	3,685	3,890	4,017	4,277	3,445	0
	21,765	21,714	21,760	22,134	22,858	22,470	21,937	21,844	21,472	99
37 For purchasing and carrying securities 38 To finance agricultural production 39 To states and political subdivisions	15,271	12,780	14,219	14,313	13,926	12,237	11,520	12,915	12,455	70
	5,477	5,458	5,463	5,487	5,508	5,809	5,777	5,740	5,682	150
	28,914	28,714	28,685	28,694	28,648	28,374	28,250	28,252	28,204	477
40 To foreign governments and official institutions 41 All other 42 Lease financing receivables 43 LESS: Unearned income	2,042	2,180	2,051	2,104	1,964	1,910	1,861	1,828	1,888	0
	22,224	21,495	21,628	22,860	22,390	23,356	20,713	22,314	20,740	228
	23,372	23,568	23,650	23,694	23,753	24,098	24,148	24,218	24,299	136
	4,845	4,851	4,864	4,872	4,889	4,990	5,023	5,028	5,046	128
43 LESS: Unearned income 44 Loan and lease reserve <sup>5</sup> . 45 Other loans and leases, net 46 All other assets	131,083	35,819 865,495 132,283	35,702 867,985 132,861	35,644 873,117 135,240	35,362 875,444 132,941	34,638 891,531 134,681	34,256 887,445 131,374	34,167 891,784 132,566	34,339 888,981 127,306	16,511 1,695
47 Total assets 48 Demand deposits 49 Individuals, partnerships, and corporations	240,653 191,638	230,811 182,951	238,701 191,692	233,932 186,205	1,412,305 247,195 195,382	270,603 214,182	235,299 187,645	248,581 248,581 194,618	219,354 175,052	5,093 4,419
50 States and political subdivisions 51 U.S. government 52 Depository institutions in the United States 53 Banks in foreign countries	6,455	5,864	6,514	6,976	6,993	8,144	6,207	6,385	6,770	149
	2,949	2,878	3,332	1,609	2,711	2,626	3,484	3,172	2,531	104
	22,067	21,951	20,684	22,518	24,187	28,284	22,032	27,294	19,413	135
	7,239	7,013	6,840	6,453	6,662	7,244	6,127	7,076	6,006	46
54 Foreign governments and official institutions	832 9,474 73,637 622,745	9,277 75,258 625,000	920 8,719 74,519 626,317	1,054 9,117 75,080 625,120	985 10,274 75,412 623,960	754 9,369 82,675 651,710	959 8,844 79,506 652,082	869 9,167 78,750 652,718	787 8,795 75,237 651,113	240 2,802 22,854
58 Individuals, partnerships, and corporations 59 States and political subdivisions 60 U.S. government	583,097 30,025 965	585,622 30,036 945	586,652 30,207 942 7,799	586,391 29,520 938	585,172 29,480 928	610,601 31,102 885	610,725 31,439 858	611,569 31,345 845	609,460 31,469 855	20,343 1,748 7
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	7,829 829 278,942 1,872	7,596 801 272,591 1,515	717 269,511 1,785	571	7,702 677 278,142 1,035	1,655	8,350 710 270,184 1,462	8,254 705 277,733 1,015	8,623 705 282,167 1,574	755 0 -8,043 0
Treasury tax-and-loan notes All other liabilities for borrowed money Other liabilities and subordinated notes and debentures	12,852 264,218 97,009	4,614 266,461 92,690	5,991 261,734 91,977	25,227 254,281 90,901	21,053 256,054 93,585	3,155 259,785 87,365	9,825 258,897 86,340	20,625 256,094 85,324	24,107 256,486 85,334	-8,043 1,466
68 Total liabilities	1,312,985	1,296,350	1,301,025	1,305,112	1,318,294	1 <b>,356,949</b>	1,323,411	1,343,107	1,313,205	24,172
	94,253	94,791	95,257	95,107	94,011	95,431	96,528	96,407	96,316	508
70 Total loans and leases (gross) and investments adjusted <sup>8</sup> 71 Total loans and leases (gross) adjusted <sup>8</sup> 72 Time deposits in amounts of \$100,000 or more	1,124,658 911,726 194,464	909,885 195,830	1,121,942 912,666 195,955	918,360 195,915	918,776 196,083	1,142,958 934,555 204,475	929,920 206,249	1,143,741 933,013 206,332	930,834 206,773	20,269 17,288 8,186
73 U.S. Treasury securities maturing in one year or less	.  380	19,997 1,380 1,000 380	20,195 1,330 956 374	20,001 1,370 1,012 358	18,560 1,380 1,029 350	18,503 1,461 1,115 346	18,965 1,521 1,176 345	18,835 1,520 1,195 325	19,531 1,555 1,240 315	0 0 0
77 Nontransaction savings deposits (including MMDAs)	253,021	253,063	253,440	251,994	250,402	259,084	256,923	256,479	253,433	5,596

<sup>1.</sup> 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. These amounts represent accumulated adjustments originally made to offset the cumulative effects of bank mergers during the calendar year. The adjustment data for 1988 should be added to the reported data for 1988 to establish comparability with data reported for 1989.

3. Includes U.S. government-issued or guaranteed certificates of participation in pools of residential mortgages.

4. Includes securities purchased under agreements to resell.

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<sup>6.</sup> 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, 7. This is not a measure of equity capital for use in capital-adequacy analysis or for other analytic uses.

8. Exclusive of loans and federal funds transactions with domestic commercial banks.

Exclusive of roans and reconstructions
 Sanks.
 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

			1988				19	89	
Account	Nov. 30	Dec. 7	Dec. 14	Dec. 21	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25
Cash balances due from depository institutions     Total loans, leases and securities, net <sup>2</sup>	27,884 <b>221,963</b>	24,348 216,483	24,272 217,293	22,154 218,999	26,940 <b>221,039</b>	29,826 216,341	25,318 215,771	27,633 <b>215,823</b>	24,996 218,381
Securities 3 U.S. Treasury and government agency <sup>3</sup> . 4 Trading account <sup>5</sup> . 5 Investment account 6 Mortgage-backed securities <sup>4</sup> . All other maturing in	'	0 0 15,559 6,701	0 0 15,558 6,717	0 0 15,702 6,770	0 0 15,689 6,782	0 0 15,800 6,913	0 0 15,595 6,910	0 0 16,069 6,977	0 0 16,032 6,948
7 One year or less 8 Over one through five years 9 Over five years 10 Other securities 11 Trading account <sup>3</sup>	1 4 225	2,177' 4,695 1,986 0	2,176 4,612 2,053	2,225 4,641 2,066	2,225 4,617 2,066 0	2,276 4,563 2,048	2,268 4,509 1,908	2,672 4,510 1,911 0	2,663 4,495 1,925
11 Trading account 12 Investment account 13 States and political subdivisions, by maturity 14 One year or less 15 Over one year 16 Other bonds, corporate stocks, and securities 17 Other trading account assets	17,718 12,482 1,092	0 17,694 12,359 979 11,380 5,334	17,539 12,269 960 11,308 5,270	17,514 12,263 978 11,284 5,251	17,468 12,205 969 11,236 5,262	17,834 12,198 1,033 11,165 5,636 0	17,761 12,198 1,038 11,160 5,563 0	17,817 12,198 1,049 11,149 5,618	17,646 12,190 1,053 11,137 5,456
Loans and leases 18 Federal funds sold <sup>5</sup> 17 Commercial banks 20 To others 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 29 Real estate loans 30 Revolving, home equity 31 All other 32 To individuals for personal expenditures 33 To depository and financial institutions 34 Commercial banks in the United States 35 Banks in foreign countries 36 Nonbank depository and other financial institutions 37 For purchasing and carrying securities 38 To finance agricultural production 39 To states and political subdivisions 40 To foreign governments and official institutions 41 All other 42 Lease financing receivables 43 LESS: Unearned income 44 Loan and lease reserve 45 Other loans and leases, net <sup>6</sup> 46 All other assets'	483 55,807 55,372 436 49,292 3,222 46,069 20,709 21,789 11,748 2,964	26,803 10,946 9,563 6,294 171,331 165,647 55,368 416 54,952 54,524 49,360 3,246 46,114 20,740 22,169 12,700 6,378 7,761 200 6,378 7,684 1,616 13,288 1,616 14,2	27,708 12,719 8,944 6,045 171,370 165,687 54,907 54,109 32,48 49,645 3,248 46,397 20,897 21,179 21,202 2,276 6,901 6,216 6,901 6,591 1,620 13,683 1,623 13,683 1,623 13,683 1,623 13,683 1	27,442 12,527 8,771 6,144 173,228 167,551 55,441 363 50,170 3,262 46,908 20,779 21,480 61,203 2,317 7,133 6,129 16,637 6,377 6	29,229 14,683 8,970 5,576 173,521 167,828 55,398 55,009 54,487 55,009 54,487 50,600 3,271 42,21 20,923 21,851 21,851 6,362 5,696 6,362 5,696 1,646 13,221 5,696 1,646 13,251 158,654 158,804	26,613 13,640 8,276 4,698 170,542 164,848 55,590 353 54,874 3,038 3,038 3,033 20,901 20,530 11,355 2,261 6,914 4,305 1,627 12,693 56,693 1,627 12,820 156,095 61,787	28,214 14,043 8,666 5,505 168,847 163,174 55,190 343 54,847 54,474 3,282 47,080 20,827 20,956 6,162 11,717 2,470 6,769 3,896 6,142 4,130 1,100 1	25,878 11,882 8,871 5,125 170,705 165,016 54,878 301 54,577 54,166 412 50,500 3,288 47,213 20,809 21,086 6,678 4,855 164 6,132 427 6,163 5,689 1,651 12,995 156,059 63,838	29,830 15,804 9,266 4,760 169,587 163,910 55,675 25,675 25,675 25,675 43,88 50,306 3,282 47,023 20,788 20,048 11,260 2,007 6,780 4,751 158 6,146 474 5,564 13,060 154,873 58,760
Deposits  48 Demand deposits  19 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	57,536 40,412 661 596 5,542 5,922 666 3,736	55,393 37,702 625 542 6,050 5,798 730 3,946	58,192 42,218 627 531 5,015 5,679 761 3,361	55,789 39,407 633 176 5,931 5,168 913 3,562	59,274 41,640 593 458 5,848 5,481 831 4,423	62,132 45,280 909 287 6,303 6,018 582 2,755	53,603 38,046 650 630 5,340 4,976 788 3,172	57,492 39,950 641 436 6,578 5,784 672 3,430	52,045 36,748 822 454 5,069 4,691 647 3,615
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 <sup>8</sup> 67 Other liabilities and subordinated notes and debentures	8,608 110,972 100,625 8,140 32 1,894 282 68,091 0 3,451 64,640 38,718	8,735 111,317 101,202 8,020 30 1,788 278 66,294 0 886 65,408 33,810	8,718 111,046 101,024 7,985 31 1,742 265 61,958 0 1,175 60,783 33,038	8,909 111,688 101,664 7,997 33 1,737 257 65,583 0 6,243 59,340 32,668	9,110 110,517 100,417 8,014 33 1,797 257 65,301 0 5,392 59,909 35,359	9,540 113,046 103,166 7,796 32 1,793 258 65,526 0 625 64,901	9,161 112,688 102,687 7,917 23 1,802 260 66,669 0 2,509 64,160 30,698	9,004 113,638 103,534 8,034 24 1,786 259 69,269 0 5,410 63,859	8,605 112,383 101,840 8,201 32 2,047 262 70,186 875 6,404 62,907
68 Total liabilities	283,926 27,051	275,549 27,604	272,953 28,074	274,636 27,759	279,562 27,221	30,174 280,418 27,536	272,820 28,100	29,900 279,303 27,991	30,968 274,187 27,951
MEMO 70 Total loans and leases (gross) and investments adjusted <sup>2,10</sup> 71 Total loans and leases (gross) adjusted <sup>10</sup> 72 Time deposits in amounts of \$100,000 or more 73 U.S. Treasury securities maturing in one year or less	210,393 177,052 41,053	207,741 174,488 41,857 3,528	207,454 174,357 41,244 3,354	209,329 176,113 41,492 2,934	208,913 175,756 41,246 2,984	205,793 172,160 41,924 2,751	204,656 171,300 42,316 2,836	206,732 172,846 42,982 3,288	206,032 172,354 42,260 3,277

<sup>1.</sup> These data also appear in the Board's H.4.2 (504) release. For address, see

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.

Digitized for FRAS includes securities purchased under agreements to resell.

<sup>6.</sup> 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 BANKS<sup>1</sup> Assets and Liabilities

Millions of dollars, Wednesday figures

		- · · · · ·	1988				19	989	_
Account	Nov. 30	Dec. 7	Dec. 14	Dec. 21	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25
Cash and due from depository institutions     Total loans and securities	10,817	11,067	11,181	11,086	12,181	11,424	11,386	11,304	11,706
	112,854	111,964	114,403	113,961	118,172	126,253	122,532	123,038	121,752
securities	7,651	7,575	7,794	7,980	7,492	8,012	7,824	8,151	8,542
	7,259	7,227	7,163	7,123	7,156	7,421	7,441	7,392	7,147
	10,172	7,780	10,306	7,964	9,290	8,298	7,106	6,446	6,319
6 To commercial banks in the United States. 7 To others	7,878	5,615	8,208	5,969	7,282	7,445	6,349	5,272	5,385
	2,294	2,165	2,098	1,995	2,008	853	757	1,174	934
	87,772	89,382	89,140	90,894	94,234	102,522	100,161	101,049	99,744
	56,065	57,292	57,006	58,540	59,713	67,318	65,604	66,061	64,582
10 Bankers acceptances and commercial paper	1,554	1,618	1,485	1,532	1,420	1,651	1,648	1,786	1,703
	54,511	55,674	55,521	57,008	58,293	65,667	63,956	64,275	62,879
	52,871	53,941	53,829	55,355	56,624	64,215	62,474	62,771	61,340
Non-U.S. addressees	1,640 n.a. 16,308	1,733 n.a. 17,289 12,929	1,692 n.a. 17,291 12,931	1,653 n.a. 17,460 12,927	1,669 n.a. 18,666 14,098	1,452 13,108 18,206 13,517	1,482 13,285 17,581 13,020	1,504 13,458 17,410 12,715	1,539 13,630 17,929 13,188
17 Banks in foreign countries	12,018 1,220 3,070	1,298 3,062	1,194 3,166	1,307 3,226	1,269 3,299	1,225 3,464	1,126 3,435	1,198 3,497	1,214 3,527
institutions 20 For purchasing and carrying securities 21 All other 22 Other assets (claims on nonrelated parties)	830	830	906	864	857	756	811	754	746
	1,761	1,535	1,514	1,780	2,317	1,772	1,664	2,053	1,642
	12,808	12,436	12,423	12,250	12,861	1,362	1,216	1,313	1,215
	33,025	32,537	33,007	33,288	32,511	32,727	32,206	31,341	31,401
23 Net due from related institutions	15,233	17,869	14,524	15,202	13,002	14,573	16,154	14,452	16,286
	171,928	173,439	173,117	173,540	175,865	184,976	182,280	180,134	181,146
than directly related institutions Transaction accounts and credit balances directly lindividuals, partnerships, and corporations	44,179	44,843	44,601	45,246	46,626	43,635	42,897	43,351	43,276
	3,954	3,965	4,010	4,179	4,183	3,747	3,516	3,463	3,451
	2,451	2.323	2,520	2,581	2,453	2,436	2,316	2,325	2,140
28 Other	1,503	1,642	1,490	1,598	1,730	1,311	1,200	1,138	1,311
	40,225	40,878	40,591	41,067	42,443	39,888	39,381	39,888	39,825
	33,713	34,417	34,340	35,061	36,436	33,186	32,630	33,148	33,408
31 Other	6,512	6,461	6,251	6,006	6,007	6,702	6,751	6,740	6,417
	68,197	69,676	68,404	70,772	66,140	78,632	80,060	74,284	76,952
33 Federal funds purchased <sup>6</sup>	31,021	31,238	29,087	30,677	27,492	36,769	37,577	32,285	34,756
	16,454	15,670	15,553	14,778	14,188	21,548	23,006	15,838	18,974
	14,567	15,568	13,534	15,899	13,304	15,221	14,571	16,447	15,782
36 Other liabilities for borrowed money	37,176	38,438	39,317	40,095	38,648	41,863	42,483	41,999	42,196
	25,744	26,714	27,267	26,577	25,716	28,034	28,491	28,220	28,025
	11,432	11,724	12,050	13,518	12,932	13,829	13,992	13,779	14,171
39 Other liabilities to nonrelated parties	34,168	33,981	34,556	34,255	34,088	33,697	33,189	32,446	32,546
	25,383	24,937	25,556	23,266	29,011	29,013	26,134	30,051	28,373
	171,928	173,439	173,117	173,540	175,865	184,976	182,280	180,134	181,146
MEMO 42 Total loans (gross) and securities adjusted <sup>7</sup> 43 Total loans (gross) adjusted <sup>7</sup>	92,958	93,420	93,264	95,065	96,792	105,291	103,163	105,051	103,179
	78,048	78,618	78,307	79,962	82,144	89,858	87,898	89,508	87,490

<sup>1.</sup> 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.

#### A22 Domestic Financial Statistics ☐ April 1989

### 1.31 GROSS DEMAND DEPOSITS Individuals, Partnerships, and Corporations<sup>1</sup>

Billions of dollars, estimated daily-average balances, not seasonally adjusted

					Commerc	ial banks				,
Type of holder	1984	1985	1986	1987	19	87		19	88	
	Dec.	Dec. Dec.		Dec. Dec.		Dec.	Маг.	June	Sept.	Dec.
1 All holders—Individuals, partnerships, and corporations.	302.7	321.0	363.6	343.5	339.0	343.5	328.6	346.5	337.8	<b>+</b>
2 Financial business	31.7 166.3 81.5 3.6 19.7	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	36.5 188.2 88.7 3.2 22.4	36.3 191.9 90.0 3.4 21.9	33.9 184.1 86.9 3.5 20.3	37.2 194.3 89.8 3.4 21.9	34.8 190.3 87.8 3.2 21.7	n.a.
				,	Weekly rep	orting bank	s			
	1984	1985	1986	1987	19	987		19	88	
	Dec.	Dec.	Dec.	Dec.	Sept.	Dec.	Mar.	June	Sept.	Dec.
7 All holders—Individuals, partnerships, and corporations	157.1	168.6	195.1	183.8	179.1	183.8	181.8	191,5	185.3	198.3
8 Financial business 9 Nonfinancial business 10 Consumer 11 Foreign. 12 Other	25.3 87.1 30.5 3.4 10.9	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	29.3 96.0 37.2 3.1 13.5	28.6 100.0 39.1 3.3 12.7	27.0 98.2 41.7 3.4 11.4	30.0 103.1 42.3 3.4 12.8	27.2 101.5 41.8 3.1 11.7	30.5 108.7 42.6 3.6 12.9

<sup>1.</sup> 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 9.5.

<sup>9.5.
3.</sup> 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.

<sup>4.</sup> Historical data back to March 1985 have been revised to account for corrections of bank reporting errors. Historical data before March 1985 have not been revised, and may contain reporting errors. Data for all commercial banks for March 1985 were revised as follows (in billions of dollars): all holders, -3; financial business, -8; nonfinancial business, -4; consumer, 9; foreign, 1; other, -1. Data for weekly reporting banks for March 1985 were revised as follows (in billions of dollars): all holders, -1; financial business, -7; nonfinancial business, -5; consumer, 1.1; foreign, 1; other, -2.

5. 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.

## 1.32 COMMERCIAL PAPER AND BANKERS DOLLAR ACCEPTANCES OUTSTANDING

Millions of dollars, end of period

	1984	1985	1986	1987	1988			19	88		
Instrument	Dec.	Dec.	Dec.	Dec.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.
			Cor	nmercial pa	per (seasor	ally adjuste	ed unless n	oted otherw	vise)		
1 All issuers	237,586	298,779	329,991	357,129	455,017	423,054 <sup>r</sup>	424,504 <sup>r</sup>	421,383°	426,216′	443,531	455,017
Financial companies 1 Dealer-placed paper 2 Total Bank-related (not seasonally adjusted)	56,485 2,035	78,443 1,602	101,072	101,958	159,947 1,248	148,130 <sup>r</sup>	146,592 <sup>r</sup> 911 <sup>r</sup>	149,995° 901	149,845 <sup>7</sup> 840	157,042 <sup>r</sup> 995	159,947 1,248
Directly placed paper  Total	110,543 42,105 70,558	135,320 44,778 85,016	151,820 40,860 77,099	173,939 43,173 81,232	192,442 43,155 102,628	184,514 <sup>r</sup> 44,217 <sup>r</sup> 90,411	187,031 <sup>r</sup> 46,224 <sup>r</sup> 90,881 <sup>r</sup>	180,905° 43,887 90,483°	184,044' 42,204 92,327'	192,220′ 43,729 94,269′	192,442 43,155 102,628
				Bankers d	ollar accep	tances (not	seasonally	adjusted) <sup>5</sup>			
7 Total	78,364	68,413	64,974	70,565	66,678	63,240	64,036	63,452	62,253	65,961	66,678
Holder 8 Accepting banks	9,811 8,621 1,191	11,197 9,471 1,726	13,423 11,707 1,716	10,943 9,464 1,479	9,082 8,018 1,064	9,655 8,702 953	9,661 8,664 888	9,334 8,400 934	9,083 8,026 1,057	9,483 8,768 715	9,082 8,018 1,064
11 Own account	671 67,881	0 937 56,279	0 1,317 50,234	0 965 58,658	0 1,493 56,103	0 1,114 52,471	9,915 53,493	0 963 53,154	0 1,166 52,004	0 1,393 55,086	1,493 56,103
Basis 14 Imports into United States 15 Exports from United States 16 All other	17,845 16,305 44,214	15,147 13,204 40,062	14,670 12,960 37,344	16,483 15,227 38,855	14,991 15,622 36,065	14,001 14,676 34,564	14,608 14,345 35,083	14,622 13,946 34,884	14,064 14,067 34,122	14,959 14,578 36,424	14,991 15,622 36,065

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.

 Includes all financial company paper sold by dealers in the open market.

 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
1986—Mar. 7 Apr. 21 July 11 Aug. 26  1987—Apr. 1 May 1 Sept. 4 Oct. 7 22 Nov. 5  1988—Feb. 2	9.00 8.50 8.00 7.50 7.75 8.00 8.25 8.25 9.25 9.00 8.75	1986 1987 1988 1986 — Jan. Feb. Mar. Apr. May June July Aug. Sept.	9.10 8.83	1987 —Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	7.50 7.50 7.50 7.75 8.14 8.25 8.25 8.25 8.70 9.07 8.78 8.75	1988 — Jan. Feb. Mar. Apr. May June July Aug Sept. Oct. Nov Dec.  1989 — Jan.	8.75 8.51 8.50 8.50 8.84 9.00 9.29 9.84 10.00 10.05 10.50
May 11 July 14 Aug. 11 Nov. 28  1989—Feb. 10 24	9.00 9.50 10.00 10.50 11.00 11.50	Nov	7.50 7.50 7.50			1969 — Jan	10.50

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

<sup>4.</sup> Includes public utilities and firms engaged primarily in such activities as communications, construction, manufacturing, mining, wholesale and retail trade, transportation, and services.

5. 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 new reporting group accounts for over 90 percent 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.

In the second	1000	1097	1000		1988		1989		1988 and	1989, wee	ek ending	
Instrument	1986	1987	1988	Oct.	Nov.	Dec.	Jan.	Dec. 30	Jan. 6	Jan. 13	Jan. 20	Jan. 27
MONEY MARKET RATES												
Federal funds <sup>1,2</sup> Discount window borrowing <sup>1,2,3</sup> Commercial paper <sup>4,5</sup>	6.80	6.66	7.57	8.30	8.35	8.76	9.12	8.86	9.22	9.08	9.13	9.06
	6.32	5.66	6.20	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
3 1-month	6.61	6.74	7.58	8.12	8.38	9.31	9.03	9.30	9.05	9.04	9.02	9.00
	6.49	6.82	7.66	8.24	8.66	9.11	9.04	9.07	9.02	9.06	9.04	9.04
	6.39	6.85	7.68	8.24	8.55	8.97	9.02	8.97	8.99	9.04	9.04	9.02
5 6-month Finance paper, directly placed <sup>4,5</sup> 6 1-month 7 3-month	6.57	6.61	7.44	8.05	8.29	9.00	8.90	9.00	8.91	8.93	8.91	8.84
	6.38	6.54	7.38	8.06	8.20	8.50	8.78	8.55	8.68	8.86	8.81	8.73
8 6-month	6.31	6.75	7.14	7.80 8.15	7.94 8.55	8.24 8.96	8.44 8.93	8.29 8.90	8.36 8.93	8.46 8.95	8.50 8.93	8.41 8.92
10 6-month	6.28	6.75	7.60 7.59	8.13	8.46 8.43	9.37	8.92 9.06	8.83 9.36	8.92 9.08	9.08	9.06	9.02
12 3-month 13 6-month 14 Eurodollar deposits, 3-month <sup>8</sup> U.S. Treasury bills <sup>2</sup> Secondary market <sup>2</sup>	6.51	6.87	7.73	8.36	8.78	9.25	9.20	9.20	9.20	9.23	9.21	9.17
	6.50	7.01	7.91	8.48	8.81	9.28	9.36	9.26	9.35	9.41	9.36	9.34
	6.71	7.06'	7.85	8.51	8.91	9.30	9.28	9.31	9.20	9.31	9.30	9.26
15 3-month 16 6-month 17 1-year Auction average 16	5.97	5.78	6.67	7.35	7.76	8.07	8.27	8.16	8.24	8.26	8.24	8.29
	6.02	6.03	6.91	7.50	7.86	8.22	8.36	8.28	8.41	8.41	8.30	8.32
	6.07	6.33	7.13	7.54	7.87	8.32	8.37	8.38	8.47	8.43	8.28	8.30
18 3-month	5.98 <sup>r</sup>	5.82'	6.68	7.34'	7.68 <sup>r</sup>	8.09'	8.29	8.22	8.24	8.36	8.30	8.26
19 6-month	6.03 <sup>r</sup>	6.05'	6.92	7.50'	7.76 <sup>r</sup>	8.24'	8.38	8.33	8.37	8.48	8.35	8.31
20 1-year	6.18 <sup>r</sup>	6.33	7.17	7.57	7.92	8.49	8.45	n.a.	n.a.	n.a.	8.45	n.a.
CAPITAL MARKET RATES						ļ						
U.S. Treasury notes and bonds <sup>11</sup> Constant maturities <sup>12</sup> 21 1-year	6.45	6.77	7.65	8.11	8.48	8.99	9.05	9.07	9.17	9.11	8.96	8.97
22 2-year	6.86	7.42	8.10	8.35	8.67	9.09	9.18	9.18	9.28	9.23	9.13	9.10
23 3-year	7.06	7.68	8.26	8.43	8.72	9.11	9.20	9.20	9.30	9.27	9.14	9.11
24 5-year	7.30	7.94	8.47	8.51	8.79	9.09	9.15	9.18	9.28	9.23	9.09	9.04
25 7-year	7.54	8.23	8.71	8.69	8.89	9.13	9.14	9.22	9.31	9.25	9.07	9.02
26 10-year 27 20-year 28 30-year Composite <sup>13</sup>	7.67 7.84 7.78	8.39 n.a. 8.59	8.85 n.a. 8.96	8.80 n.a. 8.89	8.96 n.a. 9.02	9.11 n.a. 9.01	9.09 n.a. 8.93	9.17 n.a. 9.00	9.24 n.a. 9.08	9.18 n.a. 9.00	9.02 n.a. 8.87	8.97 n.a. 8.81
29 Over 10 years (long-term)	8.14	8.64	8.98	8.89	9.07	9.13	9.07	9.13	9.23	9.14	9.01	8.96
30 Aaa	6.95	7.14	7.36	7.25	7.35	7.35	7.23	7.30	7.33	7.28	7.20	7.10
	7.76	8.17	7.83	7.72	7.78	7.76	7.67	7.70	7.73	7.70	7.63	7.60
	7.32	7.63	7.68	7.47	7.46	7.61	7.35	7.50	7.44	7.40	7.29	7.27
Seasoned issues <sup>16</sup> 33 All industries	9.71	9.91	10.18 <sup>r</sup>	9.90	9.91	10.03	10.05	10.06	10.11	10.10	10.03	9.99
	9.02	9.38	9.71 <sup>r</sup>	9.51	9.45	9.57	9.62	9.60	9.66	9.69	9.61	9.56
	9.47	9.68	n.a.	9.71	9.72	9.81	9.81	9.84	9.88	9.86	9.79	9.75
	9.95	9.99	10.24 <sup>r</sup>	9.99	9.99	10.11	10.10	10.14	10.18	10.15	10.08	10.04
37 Baa 38 A-rated, recently offered utility bonds 17	10.39 9.61	10.58 9.95	10.83 <sup>r</sup> n.a.	10.41	10.48	10.65	10.65	10.67	10.73 10.19	10.70	10.62	10.61
MEMO: Dividend/price ratio 18 39 Preferred stocks	8.76	8.37	9.23	9.23	9.29	9.38	9.31	9.34	9.33	9.42	9.25	9.23
	3.48	3.08	3.64	3.61	3.70	3.68	3.64	3.70	3.67	3.65	3.61	3.61

<sup>1.</sup> Weekly, monthly and annual figures are averages of all calendar days,

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 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.

- 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.

For address, see inside front cover.

<sup>1.</sup> 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 commercial paper; and 30-59 days, 90-119 days, and 150-179 days for finance paper.

5. Yields are quoted on a bank-discount basis, rather than in an investment yield basis (which would give a higher figure).

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

#### 1.36 STOCK MARKET Selected Statistics

							19	88				1989
Indicator	1986	1987	1988	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
				Pr	ices and t	rading (av	erages of o	laily figur	es)			
Common stock prices  1 New York Stock Exchange (Dec. 31, 1965 = 50)  2 Industrial 3 Transportation 4 Utility 5 Finance 6 Standard & Poor's Corporation (1941-43 = 10)  7 American Stock Exchange	136.00 155.85 119.87 71.36 147.19 236.34	161.70 195.31 140.39 74.29 146.48 286.83	149.91 180.83 134.01 72.22 127.41 266.18	144.99 176.02 127.63 68.66 120.35 256.12	152.72 184.92 136.02 72.25 129.04 270.68	152.12 184.09 136.49 71.49 129.99 269.05	149.25 179.72 132.52 70.67 130.77 263.73	151.47 182.18 136.27 71.83 133.15 267.97	156.36 188.58 141.83 74.19 136.09 277.40	152.67 182.25 137.51 79.28 130.05 271.02	155.35 187.75 144.06 74.81 128.83 281.28	160.40 194.62 153.09 75.87 132.26 285.41
(Aug. 31, 1973 = 50) <sup>2</sup>	264.38 141,385 11,846	316.61 188,647 13,832	294.90 161,450 9,955	296.30 153,906 8,931	306.13 195,772 11,348	307.48 166,916 9,938	297.76 144,668 9,307	297.86 145,702 8,198	302.83 162,631 9,051	292.25 134,427 8,497	298.59 135,473 11,227	316.14 168,204 10,797
			Cu	stomer fin	ancing (en	d-of-perio	d balances	, in millio	ns of dolla	ars)		
10 Margin credit at broker-dealers <sup>3</sup> Free credit balances at brokers <sup>4</sup> 11 Margin-account: 12 Cash-account:	36,840 4,880 19,000	31,990 4,750 15,640	32,740 5,660 16,595	33,070 4,380 14,150	<b>32,300</b> 4,580 14,460	31,770 4,485 14,340	31,930 4,655 14,045	<b>32,770 4,725 14,175</b>	33,410 5,065 14,880	33,640 4,920 15,185	32,740 5,660 16,595	32,530 5,790 15,705
		L	Ma	rgin requi			market va			<u> </u>		
	Mar. 1	1, 1968	June 8	1, 1968	May 6	5, 1970	Dec. 6	5, 1971	Nov. 2	4, 1972	Jan. 3	, 1974
13 Margin stocks 14 Convertible bonds 15 Short sales	5	0 0 0	8 6 8		6 5 6	0	5 5 5	0	5	5 0 5	5 5 5	0

<sup>1.</sup> Effective July 1976, includes a new financial group, banks and insurance companies. With this change the index includes 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and 40

"margin securities" (as defined in the regulations) when such credit is collateralized by securities. Margin requirements on securities other than options are the difference between the market value (100 percent) and the maximum loan value of collateral as prescribed by the Board. Regulation T was adopted effective Oct. 15, 1934; Regulation U, effective May 1, 1936; Regulation G, effective Mar. 11, 1968; and Regulation X, effective Nov. 1, 1971.

On Jan. 1, 1977, the Board of Governors for the first time established in Regulation T the initial margin required for writing options on securities, setting it at 30 percent of the current market-value of the stock underlying the option. On Sept. 30, 1985, the Board changed the required initial margin, allowing it to be the same as the option maintenance margin required by the appropriate exchange or self-regulatory organization; such maintenance margin rules must be approved by the Securities and Exchange Commission. Effective Jan. 31, 1986, the SEC approved new maintenance margin rules, permitting margins to be the price of the 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.

<sup>425), 20</sup> transportation (formerly 15 rail), 40 puone unity tromerly 607, and chancial.

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

# 1.37 SELECTED FINANCIAL INSTITUTIONS Selected Assets and Liabilities Millions of dollars, end of period

	1005	100-					19	88		-		
Account	1986	1987	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.'	Nov.
					F	SLIC-insure	d institution	ns				
1 Assets	1,163,851	1,250,855	1,257,466	1,261,581	1,274,482	1,285,338	1,289,979	1,299,408	1,311,704	1,323,954	1,332,962	1,332,995
2 Mortgages	697,451	721,593	723,856	725,625	728,984	733,547	736,893 <sup>r</sup>	743,128	751,468′	754,470 <sup>r</sup>	760,933 <sup>r</sup>	763,122
securities	158,193	201,828	197,811	197,889	202,767	205,053	207,744	208,532 <sup>r</sup>	210,596 <sup>r</sup>	211,180	211,999′	212,503
mortgage assets <sup>1</sup> .  5 Commercial loans  6 Consumer loans  7 Contra-assets to non-	41,799 23,683 51,622	42,344 23,163 57,902	40,836 23,340 58,687	41,268 24,004 58,390	39,358 24,243 59,121	39,764 24,201 60,250	40,251' 24,672' 61,151	40,308' 24,959' 61,568	39,113 <sup>r</sup> 25,094 <sup>r</sup> 62,412 <sup>r</sup>	38,443' 24,883' 61,785'	38,279 <sup>r</sup> 25,252 <sup>r</sup> 61,308 <sup>r</sup>	37,716 25,391 61,779
mortgage loans <sup>2</sup> 8 Cash and investment	3,041	3,467	3,524	3,628	3,513	3,395	3,513'	3,389′	3,156 <sup>r</sup>	3,078	2,932 <sup>r</sup>	2,961
securities	164,844 112,898	169,717 122,462	174,106 124,025	176,386 124,184	177,955 124,284	179,506 125,939	177,533 <sup>r</sup> 125,751 <sup>r</sup>	178,446 <sup>r</sup> 126,472 <sup>r</sup>	176,099 <sup>r</sup> 128,305 <sup>r</sup>	183,163 <sup>r</sup> 129,994 <sup>r</sup>	184,652' 130,028'	180,015 130,862
10 Liabilities and net worth .	1,163,851	1,250,855	1,257,466	1,261,581	1,274,482	1,285,338°	1,289,979	1,299,408 <sup>r</sup>	1,311,704 <sup>r</sup>	1,323,954	1,332,962	1,332,995
11 Savings capital 12 Borrowed money 13 FHLBB 14 Other 15 Other 16 Net worth	890,664 196,929 100,025 96,904 23,975 52,282	932,616 249,917 116,363 133,554 21,941 46,382	946,790 239,452 112,725 126,727 25,818 45,406	958,471 237,663 <sup>r</sup> 112,389 125,274 <sup>r</sup> 22,555 42,892	962,304 244,990 113,029 131,961 24,618 42,570	963,761 250,697 114,994 135,703 27,160' 43,720	966,750° 257,134° 117,287° 139,847° 24,563° 41,531°	968,213' 262,745' 118,213' 144,532' 27,111' 41,339'	968,293 <sup>r</sup> 266,787 <sup>r</sup> 120,677 <sup>r</sup> 146,110 <sup>r</sup> 28,905 <sup>r</sup> 47,719 <sup>r</sup>	973,743 <sup>r</sup> 273,666 <sup>r</sup> 123,436 <sup>r</sup> 150,230 <sup>r</sup> 26,014 <sup>r</sup> 50,531 <sup>r</sup>	976,164' 278,244' 124,368' 153,876' 27,544' 51,011'	971,492 281,027 127,547 153,480 29,163 51,313
					FSLIC	-insured fed	leral saving	s banks		·		•
17 Assets	210,562	284,270	295,951	307,756	311,434	323,028	329,736	333,610	357,860	367,974	369,698	374,891
18 Mortgages	113,638	161,926′	169,340	176,090	178,394	184,575	188,454	190,897	201,999	205,549	207,200	210,686
securities	29,766	45,826	46,687	47,979	49,075	51,290	52,648	53,049	55,710	56,408	56,770	57,609
20 Contra-assets to mortgage assets <sup>1</sup> . 21 Commercial loans	13,180	9,100 6,504 17,696	9,175 6,971 18,795	9,460 7,376 <sup>r</sup> 19,141	9,347 <sup>7</sup> 7,531 19,616	9,735 7,639 20,426	10,089 7,904 21,142	10,136 7,919 21,444	10,917 8,570 22,520	11,019 8,719 22,411	10,875 8,910 22,409	10,883 9,071 22,666
mortgage loans <sup>2</sup> 24 Finance leases plus		678	737	800	724	707	738	699	772	783	789	804
interest	19,034	591 35,347 24,069	584 35,718 25,517	38,224 26,424	38,259 <sup>r</sup> 25,822	652 39,889 26,758	708 40,286 27,230	735 40,825 27,318	791 45,084 32,516	806 48,985 34,428	805 48,703 34,054	804 48,231 34,935
27 Liabilities and net worth.	210,562	284,270	295,951	307,756	311,434	323,028	329,736	333,610	357,860	367,974	369,698	374,891
28 Savings capital         29 Borrowed money         30 FHLBB         31 Other         32 Other         33 Net worth	157,872 37,329 19,897 17,432 4,263 11,098	203,196 60,716 29,617 31,099 5,324 15,034	214,169 59,704 29,169 30,535 6,602 15,477	224,169 61,552 30,456 31,096 6,089 15,946	226,544 62,566 30,075 32,491 6,390 16,086	232,656 66,816 31,682 35,134 7,118 16,589	236,759 69,356 32,177 37,179 6,639 16,886	239,591 70,015 31,941 38,074 7,061 16,847	256,224 75,807 35,357 40,450 8,061 17,665	261,865 80,688 37,245 43,443 7,376 17,913	262,926 80,782 37,510 43,272 7,680 18,217	263,924 83,622 39,628 43,994 8,321 18,907
						Saving	s banks					-
34 Assets	236,866	259,643	259,224	262,100	262,269	264,507	249,927	252,875	253,453	255,510	257,127	258,537
Loans  Mortgage  Other  Securities	118,323 35,167	138,494 33,871	139,108 35,752	140,835 36,476	139,691 37,471	143,235 35,927	138,148 32,399	139,844 32,941	141,316 32,799	143,626 32,879	145,398 33,234	146,501 33,791
<ul><li>37 U.S. government</li><li>38 Mortgage-backed</li></ul>	14,209	13,510	12,269	12,225	13,203	12,490	11,597	11,563	11,353	11,182	10,896	10,804
securities 39 State and local	25,836	32,772	32,423	32,272	31,072	31,861	29,735	30,064	30,006	29,190	29,893	29,372
government 40 Corporate and other . 41 Cash	2,185 20,459 6,894 13,793	2,003 18,772 5,864 14,357	2,053 18,271 5,002 14,346	2,033 18,336 4,881 15,042	2,013 18,549 5,237 15,033	1,933 18,298 5,383 15,380	1,849 17,492 4,831 13,876	1,840 17,527 5,186 13,910	1,901 17,301 4,950 13,827	1,878 17,234 5,463 14,058	1,872 16,886 4,825 14,123	1,887 16,773 5,093 14,316
43 Liabilities	236,866	259,643	259,224	262,100	262,269	264,507	249,927	252,875	253,453	255,510	257,127	258,537
44 Deposits	192,194 186,345 37,717 100,809 5,849 25,274	201,497 196,037 41,959 112,429 5,460 35,720	200,391 195,336 41,234 113,751 5,055 35,787	203,407 198,273 41,867 115,529 5,134 35,737	203,273 197,801 41,741 115,887 5,472 35,827	205,692 200,098 42,403 117,297 5,594 35,836	194,018 188,571 40,179 110,738 5,447 34,038	195,537 189,993 40,124 112,272 5,544 34,686	195,907 190,716 39,738 114,255 5,191 34,776	197,665 192,228 39,618 116,387 5,427 35,001	197,925 192,663 39,375 117,712 5,262 35,997	199,092 194,095 39,482 119,026 4,997 36,012
accounts	18,105	20,633	20,894	21,024	21,109	21,179	19,875	20,069	20,018	20,151	20,324	20,462

#### 1.37—Continued

	1006	1007					19	88				
Account	1986	1987	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
						Credit	unions <sup>5</sup>					
51 Total assets/liabilities and capital	147,726	<b>†</b>	<b>†</b>	169,111	169,175	172,456	172,345	173,276	173,044	174,649	174,722	174,406
52 Federal	95,483 52,243			109,797 59,314	109,913 59,262	112,595 59,855	112,573 59,772	113,068 60,208	112,686 60,358	113,383 61,266	113,474 61,248	113,717 61,135
54 Loans outstanding 55 Federal 56 State 57 Savings 58 Federal 59 State	86,137 55,304 30,833 134,327 87,954 46,373	n.a.	n.a.	101,965 65,732 36,233 156,045 101,847 54,198	103,271 66,431 36,840 155,105 101,048 54,057	105,704 68,213 37,491 157,764 103,129 54,635	105,800 68,658 37,142 158,186 103,347 54,839	107,065 69,626 37,439 159,314 104,256 55,058	108,974 70,944 38,030 158,731 103,657 55,074	110,939 72,200 38,739 157,944 103,698 54,246	111,624 72,551 39,073 160,174 104,184 55,990	112,452 73,100 39,352 159,021 103,223 55,798
					I	ife insuranc	ce companie	s				
60 Assets	937,551	1,044,459	1,052,645	1,065,549	1,075,541	1,094,827	1,105,546	1,113,547	1,121,337	1,131,179	1,139,490	t
Securities Government Summer Government United States State and local Foreign States Bonds Stocks Mortgages Pale estate Policy loans 10 there assets	84,640 59,033 11,659 13,948 492,807 401,943 90,864 193,842 31,615 54,055 80,592	84,426 57,078 10,681 16,667 569,199 472,684 96,515 203,545 34,172 53,626 89,586	92,497 65,534 11,859 15,104 571,070 476,448 94,622 213,182 34,503 52,720 88,673	92,408 65,218 12,033 15,157 580,392 484,403 95,989 214,815 34,845 52,604	93,946 66,749 11,976 15,221 587,846 490,285 97,561 215,383 34,964 52,568 90,834	86,711 58,988 11,016 16,707 606,445 503,728 102,717 219,012 35,484 53,013 94,162	87,160 59,351 11,114 16,695 614,052 509,105 104,947 220,870 35,545 53,107 94,812	88,218 60,244 11,102 16,872 618,742 514,926 103,816 221,990 35,737 53,142 95,718	88,362 60,407 11,190 16,765 624,917 520,796 104,121 233,438 35,920 53,194 95,505	87,588 59,874 11,054 16,660 630,086 525,336 104,750 225,627 35,892 53,149 98,837	88,883 60,621 11,069 17,193 633,390 527,419 105,971 227,342 36,892 53,157 99,826	n.a.

<sup>1.</sup> Contra-assets are credit-balance accounts that must be subtracted from the corresponding gross asset categories to yield net asset levels. Contra-assets to mortgage 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. Excludes checking, club, and school accounts.

5. Data include all federally insured credit unions, both federal and state chartered, serving natural persons.

6. Direct and guaranteed obligations. Excludes federal agency issues not guaranteed, which are shown in the table under "Business" securities.

7. Issues of foreign governments and their subdivisions and bonds of the International Bank for Reconstruction and Development. 1. Contra-assets are credit-balance accounts that must be subtracted from the

NOTE. FSLIC-insured institutions: Estimates by the FHLBB for all institutions insured by the FSLIC and based on the FHLBB thrift Financial Report. FSLIC-insured federal savings banks: Estimates by the FHLBB for federal savings banks insured by the FSLIC and based on the FHLBB thrift Financial

savings banks insured by the National Council of Savings Institutions for all savings banks: Estimates by the National Council of Savings Institutions for all savings banks in the United States and for FDIC-insured savings banks that have converted to federal savings banks.

Credit unions: Estimates by the National Credit Union Administration for federally chartered and federally insured state-chartered credit unions serving natural persons.

federally chartered and federally insured state-chartered credit unions serving natural persons.

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

#### Domestic Financial Statistics April 1989 A28

#### 1.38 FEDERAL FISCAL AND FINANCING OPERATIONS

Millions of dollars

						Calend	ar year		
Type of account or operation	Fiscal year 1986	Fiscal year 1987	Fiscal year 1988			1988			1989
				Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
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	769,091	854,143	908,953	69,479	97,803	63,646	64,408	93,795	89,369
	568,862	640,741	667,462	51,015	75,586	45,847	47,023	74,682	65,250
	200,228	213,402	241,491	18,464	22,217	17,799	17,385	19,114	24,119
	990,258	1,003,830	1,064,044	92,561	87,588	90,655	93,541'	105,241'	86,563
	806,760	809,998	861,352	74,756	70,071	73,514	75,542'	91,610'	68,999
	183,498	193,832	202,691	17,805	17,518	17,141	17,999	13,632	17,564
	-221,167	-149,687	-155,090	-23,082'	10,214'	-27,009	-29,133'	-11,446'	2,806
	-237,898	-169,257	-193,890	-23,741	5,515	-27,667	-28,518'	-16,928'	-3,749
	16,731	19,570	38,800	659	4,699	658	-614	5,482	6,555
Source of financing (total)  Borrowing from the public.  Operating cash (decrease, or increase (-1).  Other.	236,187	150,070	162,062	23,370	14,665	10,716	31,520	12,036	7,359
	-14,324	-5,052	-7,963	10,954	-31,444	13,748	9,218	-12,268	-8,135
	-696	4,669	991	-11,242	6,564	2,545	-11,605	11,678	-2,030
MEMO 13 Treasury operating balance (level, end of period)	31,384	36,436	44,398	12,954	44,398	30,650	21,432	33,700	41,835
	7,514	9,120	13,024	4,390	13,024	6,151	5,198	8,657	11,766
	23,870	27,316	31,375	8,564	31,375	24,499	16,234	25,044	30,069

<sup>1.</sup> In accordance with the Balanced Budget and Emergency Deficit Control Act of 1985, all former off-budget entries are now presented on-budget. 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; and gain/loss for IMF valuation adjustment; and profit on the sale of gold. SOURCE. Monthly Treasury Statement of Receipts and Outlays of the U.S. Government and the Budget of the U.S. Government.

## 1.39 U.S. BUDGET RECEIPTS AND OUTLAYS1

Millions of dollars

						Calendar year	r		
Source or type	Fiscal year 1987	Fiscal year 1988	19	87	19	88	19	88	1989
			Hı	Н2	ні	Н2	Nov.	Dec.	Jan.
RECEIPTS									
1 All sources	854,143	908,954	447,282	421,712	476,115	449,821	64,408	93,795	89,369
2 Individual income taxes, net	392,557	401,181	205,157	192,575	207,659	200,299	29,822	39,673	48,627
	322,463	341,435	156,760	170,203	169,300	179,600	30,092	37,578	28,049
	33	33	30	4	28	4	0	0	0
	142,957	132,199	112,421	31,223	101,614	29,880	1,367	3,034	20,993
	72,896	72,487	64,052	8,853	63,283	9,187	1,638	939	415
7 Gross receipts	102,859	109,683	52,396	52,821	58,002	56,409	2,662	23,100	4,003
	18,933	15,487	10,881	7,119	8,706	7,384	1,219	940	822
net	303,318	334,335	163,519	143,755	181,058	157,603	25,075	24,698	31,652
	273,028	305,093	146,696	130,388	164,412	144,983	22,051	24,100	30,351
11 Self-employment taxes and contributions <sup>3</sup> 12 Unemployment insurance	13,987	17,691	12,020	1,889	14,839	3,032	326	0	1,181
	25,575	24,584	14,514	10,977	14,363	10,359	2,641	189	949
	4,715	4,659	2,310	2,390	2,284	2,262	382	410	351
14 Excise taxes 15 Customs deposits 16 Estate and gift taxes 17 Miscellaneous receipts <sup>5</sup>	32,457	35,540	15,845	17,680	16,440	19,434	3,247	3,155	2,597
	15,085	16,198	7,494 <sup>r</sup>	7,993	7,913 <sup>7</sup>	8,535	1,403	1,391	1,316
	7,493	7,594	3,818	3,610	3,863	4,054	753	673	687
	19,307	19,909	10,299	10,399	9,950	10,873	2,666	2,046	1,309
OUTLAYS									
18 All types	1,004,586	1,064,054	503,267	532,839	513,210	553,220 <sup>r</sup>	93,541 <sup>r</sup>	105,241 <sup>r</sup>	86,563
National defense     International affairs     Ideneral science, space, and technology     Energy     Natural resources and environment     Agriculture	281,999	290,349	142,886	146,995	143,080	150,496	24,702	28,934	19,916
	11,649	10,469	4,374	4,487	7,150	2,636	-2,055	805	938
	9,216	10,876	4,324	5,469	5,361	5,852	1,116	1,007	946
	4,115	2,342	2,335	1,468	555	1,966	539	406	234
	13,363	14,538	6,175	7,590	6,776	8,330	1,465	1,480	932
	26,606	17,210	11,824	14,640	7,872	7,725	3,243	1,712	2,141
25 Commerce and housing credit	6,156	19,064	4,893	3,852	5,951	20,274	2,764	7,217	836
	26,221	27,196	12,113	14,0 <del>9</del> 6	12,700	14,922	2,570	2,249	2,293
	5,051	5,577	3,108	2,075	2,765	2,690	588	536	425
social services	29,724	30,856	14,182	15,592	15,451	16,152	3,054	2,849	3,463
29 Health	39,968	44,482	20,318	20,750	22,643	23,360	3,962	4,102	3,922
	282,472	297,828	142,864	158,469	135,322	149,017	25,310	25,374	25,641
	123,255	130,174	62,248	61,201	65,555	64,978	11,054	12,355	10,701
32 Veterans benefits and services 33 Administration of justice 34 General government 35 General-purpose fiscal assistance 36 Net interest 37 Undistributed offsetting receipts	26,782	29,248	12,264	14,956	13,241	15,797	2,713	3,539	1,188
	7,548	9,205	3,626	4,291	4,761	4,778	803	765	884
	7,564	9,506	3,344	3,560	4,337	5,137	819	1,600	389
	0	0	337	1,175	448	0	0	0	0
	138,570	151,711	70,110	71,933	76,098	78,317	13,622	12,972	14,780
	-36,455	-36,576	-19,102	-17,684	-17,766	-18,771	-2,844	-2,537	-3,068

<sup>1.</sup> 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 beams and acceptable.

6. Net interest function includes interest received by trust funds.

7. Consists of rents and royalties on the outer continental shelf and U.S. government contributions for employee retirement.

SOURCES. U.S. Department of the Treasury, Monthly Treasury Statement of Receipts and Outlays of the U.S. Government, and the U.S. Office of Management and Budget, Budget of the U.S. Government, Fiscal Year 1988.

<sup>5.</sup> Deposits of earnings by Federal Reserve Banks and other miscellaneous

## Domestic Financial Statistics ☐ April 1989

#### 1.40 FEDERAL DEBT SUBJECT TO STATUTORY LIMITATION

Billions of dollars

19	86		19	87			1988	
Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30
2129.5	2218.9	2250.7	2313.1	2354.3	2435.2	2493.2	2555.1	2614.6
2125.3 1742.4 382.9	2214.8 1811.7 403.1	2246.7 1839.3 407.5	2309.3 1871.1 438.1	2350.3 1893.1 457.2	2431.7 1954.1 477.6	2487.6 1996.7 490.8	2547.7 2013.4 534.2	2602.3 2051.7 550.4
4.2 3.2 1.1	4.0 3.0 1.1	4.0 2.9 1.1	3.8 2.8 1.0	4.0 3.0 1.0	3.5 2.7 .8	5.6 5.1 .6	7.4 7.0 .5	12.4 12.2 .2
2111.0	2290.5	2232.4	2295.0	2336.0	2417.4	2472.6	2532.2	2586.9
2109.7 1.3	2199.3 1.3	2231.1 1.3	2293.7 1.3	2334.7 1.3	2416.3 1.1	2472.1 .5	2532.1 .1	2586.7 .1
2111.0	2300.0	2300.0	2320.0	2800.0	2800.0	2800.0	2800.0	2800.0
	Sept. 30  2129.5 2125.3 1742.4 382.9 4.2 3.2 1.1 2111.0 2109.7 1.3	2129.5 2218.9 2125.3 2214.8 1742.4 1811.7 382.9 403.1 4.2 4.0 3.2 3.0 1.1 1.1 2111.0 2200.5 2109.7 2199.3 1.3 1.3	Sept. 30         Dec. 31         Mar. 31           2129.5         2218.9         2250.7           2125.3         2214.8         2246.7           1742.4         1811.7         1839.3           382.9         403.1         407.5           4.2         4.0         4.0           3.2         3.0         2.9           1.1         1.1         1.1           2111.0         2200.5         2232.4           2109.7         2199.3         2231.1           1.3         1.3         1.3	Sept. 30         Dec. 31         Mar. 31         June 30           2129.5         2218.9         2250.7         2313.1           2125.3         2214.8         2246.7         2309.3           1742.4         1811.7         1839.3         1871.1           382.9         403.1         407.5         438.1           4.2         4.0         4.0         3.8           3.2         3.0         2.9         2.8           1.1         1.1         1.1         1.0           2111.0         2200.5         2232.4         2295.0           2109.7         2199.3         2231.1         2293.7           1.3         1.3         1.3         1.3	Sept. 30         Dec. 31         Mar. 31         June 30         Sept. 30           2129.5         2218.9         2250.7         2313.1         2354.3           2125.3         2214.8         2246.7         2309.3         2350.3           1742.4         1811.7         1839.3         1871.1         1893.1           382.9         403.1         407.5         438.1         457.2           4.2         4.0         4.0         3.8         4.0           3.2         3.0         2.9         2.8         3.0           1.1         1.1         1.1         1.0         1.0           2111.0         2200.5         2232.4         2295.0         2336.0           2109.7         2199.3         2231.1         2293.7         2334.7           1.3         1.3         1.3         1.3         1.3	Sept. 30         Dec. 31         Mar. 31         June 30         Sept. 30         Dec. 31           2129.5         2218.9         2250.7         2313.1         2354.3         2435.2           2125.3         2214.8         2246.7         2309.3         2350.3         2431.7           1742.4         1811.7         1839.3         1871.1         1893.1         1954.1           382.9         403.1         407.5         438.1         457.2         477.6           4.2         4.0         4.0         3.8         4.0         3.5           3.2         3.0         2.9         2.8         3.0         2.7           1.1         1.1         1.1         1.0         1.0         .8           2111.0         2200.5         2232.4         2295.0         2336.0         2417.4           2109.7         2199.3         2231.1         2293.7         234.7         2416.3           1.3         1.3         1.3         1.3         1.1	Sept. 30         Dec. 31         Mar. 31         June 30         Sept. 30         Dec. 31         Mar. 31           2129.5         2218.9         2250.7         2313.1         2354.3         2435.2         2493.2           2125.3         2214.8         2246.7         2309.3         2350.3         2431.7         2487.6           1742.4         1811.7         1839.3         1871.1         1893.1         1954.1         1996.7           382.9         403.1         407.5         438.1         457.2         477.6         490.8           4.2         4.0         4.0         3.8         4.0         3.5         5.6           3.2         3.0         2.9         2.8         3.0         2.7         5.1           1.1         1.1         1.1         1.0         1.0         .8         .6           2111.0         2290.5         2232.4         2295.0         2336.0         2417.4         2472.6           2109.7         2199.3         2231.1         2293.7         2334.7         2416.3         2472.1           1.3         1.3         1.3         1.3         1.3         1.3         1.3	Sept. 30         Dec. 31         Mar. 31         June 30         Sept. 30         Dec. 31         Mar. 31         June 30           2129.5         2218.9         2250.7         2313.1         2354.3         2435.2         2493.2         2555.1           2125.3         2214.8         2246.7         2309.3         2350.3         2431.7         2487.6         2547.7           1742.4         1811.7         1839.3         1871.1         1893.1         1954.1         1996.7         2013.4           382.9         403.1         407.5         438.1         457.2         477.6         490.8         534.2           4.2         4.0         4.0         3.8         4.0         3.5         5.6         7.4           3.2         3.0         2.9         2.8         3.0         2.7         5.1         7.0           1.1         1.1         1.0         1.0         8         .6         .5           2111.0         2200.5         2232.4         2295.0         2336.0         2417.4         2472.6         2532.2           2109.7         2199.3         1.3         1.3         1.3         1.3         1.1         .5         .1

<sup>1.</sup> 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

## 1.41 GROSS PUBLIC DEBT OF U.S. TREASURY Types and Ownership Billions of dollars, end of period

Time and halden	1984	1985	1094	1987	1987		1988	
Type and holder	1904	1963	1986	1967	Q4	Q1	Q2	Q3
1 Total gross public debt	1663.0	1945.9	2214.8	2431.7	2431.7	2487.6	2547.7	2602.3
By type 2 Interest-bearing debt	1660.6 1247.4 374.4 705.1 167.9 413.2 44.4 9.1 .0 73.1 286.2	1943.4 1437.7 399.9 812.5 211.1 505.7 87.5 7.5 0 78.1 332.2	2212.0 1619.0 426.7 927.5 249.8 593.1 110.5 4.7 4.7 .0 90.6 386.9	2428.9 1724.7 389.5 1037.9 282.5 704.2 139.3 4.0 0 99.2 461.3	2428.9 1724.7 389.5 1037.9 282.5 704.2 139.3 4.0 .0 99.2 461.3	2484.9 1758.7 392.6 1059.9 291.3 726.2 142.9 6.1 0 102.3 474.4	2545.0 1769.9 382.3 1072.7 299.9 775.1 146.9 5.7 5.7 0 104.5 517.5	2599.9 1802.9 398.5 1089.6 299.9 797.0 147.6 6.3 0 106.2 536.5
By holder*  15 U.S. government agencies and trust funds 16 Federal Reserve Banks 17 Private investors 18 Commercial banks 19 Money market funds 10 Insurance companies 20 Insurance companies 21 Other companies 22 State and local Treasurys Individuals 23 Savings bonds 24 Other securities 25 Foreign and international* 26 Other miscellaneous investors6	289.6 160.9 1212.5 186.0 25.9 64.5 50.1 173.0 74.5 69.3 192.9 376.3	348.9 181.3 1417.2 198.2 25.1 78.5 59.0 226.7 79.8 75.0 212.5 462.4	403.1 211.3 1602.0 203.5 28.0 105.6 68.8 262.8 92.3 70.5 251.6 518.9	477.6 222.6 1745.2 201.2 14.3 120.6 84.6 282.6 101.1 72.3 287.3 581.2	477.6 222.6 1745.2 201.2 14.3 120.6 84.6 282.6 101.1 72.3 287.3 581.2	490.8 217.5 1778.2 201.0 14.9 125.5 83.0 285.8 104.0 69.8 321.0 573.2	534.2 227.6 1784.9 202.5 13.1 132.2 86.5 n.a. 106.2 71.7 333.8 n.a.	550.4 229.2 1819.0 203.0 10.8 135.0 86.0 n.a. 107.8 72.0 334.3 n.a.

<sup>1.</sup> Includes (not shown separately): Securities issued to the Rural Electrifica-tion Administration; depository bonds, retirement plan bonds, and individual

retirement bonds.

2. Nonmarketable dollar-denominated and foreign currency-denominated se-

res 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.

<sup>5.</sup> Consists of investments of foreign and international accounts. Excludes non-interest-bearing notes issued to the International Monetary Fund.
6. Includes savings and loan associations, nonprofit institutions, credit unions, mutual savings banks, corporate pension trust funds, dealers and brokers, certain U.S. Treasury deposit accounts, and federally-sponsored agencies. SOURCES. Data by type of security, U.S. Treasury Department, Monthly Statement of the Public Debt of the United States; data by holder. Treasury Bulletin.

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

Par value; averages of daily figures, in millions of dollars

<b>1</b> 4	1986	1987	1988′	19	88'	1989	19	88'		19	189	<del></del>
Item	1986	1987	1988	Nov.	Dec.	Jan.	Dec. 21	Dec. 28	Jan. 4	Jan. 11	Jan. 18	Jan. 25
Immediate delivery <sup>2</sup> 1 U.S. Treasury securities	95,444	110,050	101,623	114,807	89,962	107,144	85,718	61,942	71,660	103,367	122,526	108,046
By maturity Bills 3 Other within 1 year 4 1-5 years 5 5-10 years. 6 Over 10 years.	34,247	37,924	29,388	32,553	28,533	31,930	32,188	24,612	25,724	34,216	36,779	29,886
	2,115	3,271	3,426	3,537	2,925	3,776	3,336	2,364	3,742	3,742	3,974	3,563
	24,667	27,918	27,777	32,824	23,379	28,259	19,340	17,355	21,785	26,451	28,291	31,153
	20,455	24,014	24,939	27,072	21,480	27,317	18,379	10,801	13,465	25,328	33,775	26,378
	13,961	16,923	16,093	18,822	13,643	15,861	12,475	6,810	6,945	13,630	19,708	17,066
By type of customer  7 U.S. government securities dealers.  8 U.S. government securities brokets  9 All others  10 Federal agency securities 11 Certificates of deposit. 12 Bankers acceptances 13 Commercial paper Futures contracts	3,669	2,936	2,761	3,123	2,810	2,427	2,580	3,376	1,964	2,572	2,937	2,414
	49,558	61,539	59,844	67,174	51,787	63,244	48,361	32,559	39,292	59,209	71,840	65,400
	42,217	45,575	39,019	44,511	35,364	41,472	34,777	26,006	30,404	41,586	47,748	40,233
	16,747	18,084	15,903	17,541	14,801	19,427	12,563	11,939	14,747	21,030	20,376	18,507
	4,355	4,112	3,369	3,535	2,759	3,779	3,202	1,978	3,134	3,662	4,167	3,745
	3,272	2,965	2,316	2,563	1,898	2,608	1,814	1,438	2,422	2,813	2,943	2,338
	16,660	17,135	22,927	26,590	28,156	35,573	29,704	26,165	35,696	35,970	36,787	34,323
returns contacts  14 Treasury bills	3,311	3,233	2,627	2,466	2,643	2,924	2,717	1,112	1,997	2,508	2,968	2,814
	7,175	8,963	9,695	11,015	9,490	9,837	9,077	4,833	5,297	7,743	12,481	10,116
	16	5	1	0	0	0	0	0	0	0	0	0
	1,876	2,029	2,095	3,112	1,747	1,662	1,311	1,891	1,239	2,272	1,208	1,618
	7,830	9,290	8,008	8,188	9,217	8,211	10,799	3,636	4,702	10,407	9,723	6,921

<sup>1.</sup> Transactions are market purchases and sales of securities as reported to the Federal Reserve Bank of New York by the U.S. government securities dealers on its published list of primary dealers.

Averages for transactions are based on the number of trading days in the period. The figures exclude allotments of, and exchanges for, new U.S. Treasury securities, redemptions of called or matured securities, purchases or sales of securities under repurchase agreement, reverse repurchase (resale), or similar contracts. 2. Data for immediate transactions do not include forward transactions.
3. Includes, among others, all other dealers and brokers in commodities and

securities, nondealer departments of commercial banks, foreign banking agencies,

and the Federal Reserve System.

4. Futures contracts are standardized agreements arranged on an organized exchange in which parties commit to purchase or sell securities for delivery at a future date.

<sup>5.</sup> Forward transactions are agreements arranged in the over-the-counter market in which securities are purchased (sold) for delivery after 5 business days from the date of the transaction for Treasury securities (Treasury bills, notes, and bonds) or after 30 days for mortgage-backed agency issues.

## Domestic Financial Statistics ☐ April 1989

#### 1.43 U.S. GOVERNMENT SECURITIES DEALERS Positions and Financing

Averages of daily figures, in millions of dollars

	1097	1007	10005	19	88	1989	1988		19	89	
Item	1986	1987	19887	Nov.	Dec.'	Jan.	Dec. 28'	Jan. 4	Jan. 11	Jan. 18	Jan. 25
						Positions					
Net immediate <sup>2</sup> 1 U.S. Treasury securities	12,912	-6,216	-22,754	-24,048	-32,980	-32,135	-36,617	-37,430	-38,789	-28,110	-29,390
2 Bills	12,761	4,317	2,247	329	-1,524	-3,421	-3,395	-5,041	-6,051	-2,411	-1,484
	3,705	1,557	-2,233	-3,587	-1,939	-1,831	-1,728	-1,983	-1,559	-1,424	-1,962
	9,146	649	-3,019	-1,334	-10,021	-10,076	-12,340	-10,639	-10,330	-9,048	-11,176
	-9,505	-6,564	-9,666	-7,697	-7,115	-8,492	-7,841	-9,479	-11,393	-7,264	-7,410
	-3,197	-6,174	-10,082	-11,759	-12,380	-8,316	-11,313	-10,288	-9,457	-7,963	-7,358
7 Federal agency securities	32,984	31,911	28,230	32,172	27,283	26,586	24,238	23,407	25,624	27,542	27,081
	10,485	8,188	7,300	8,445	8,767	6,812	8,858	9,120	7,361	6,487	6,072
	5,526	3,660	2,486	2,579	2,128	2,236	2,157	2,124	2,262	2,441	2,122
	8,089	7,496	6,152	5,957	9,363	8,618	11,426	11,476	8,137	9,242	8,112
11 Treasury bills	-18,059	-3,373	-2,210	-1,878	1,014	-1,582	804	-272	-1,994	-1,962	-2,804
	3,473	5,988	6,224	5,875	6,611	3,325	5,390	6,319	5,864	2,801	1,788
	-153	-95	0	0	0	0	0	0	0	0	0
14 U.S. Treasury securities	-2,144	-1,211	345	-770	-451	57	6	121	-198	-462	357
	-11,840	-18,817	-16,348	-16,959	-12,847	-12,783	-10,832	-10,169	-13,326	-14,555	-12,467
						Financing <sup>3</sup>					
Reverse repurchase agreements <sup>4</sup> Overnight and continuing	98,913	126,709	136,327	143,423	147,712	121,612	140,953	154,812	145,671	145,077	151,458
	108,607	148,288	177,477	205,634	202,052	159,767	209,170	175,141	199,354	190,511	208,025
	141,823	170,763	172,695	173,173	183,081	155,641	177,749	189,331	185,493	193,810	191,920
	102,397	121,270	137,056	165,035	145,045	111,476	150,729	115,741	135,047	131,848	154,157

reverses to maturity, which are securities that were sold after having been

estimated.

<sup>1.</sup> Data for dealer positions and sources of financing are obtained from reports submitted to the Federal Reserve Bank of New York by the U.S. Treasury securities dealers on its published list of primary dealers.

Data for positions are averages of daily figures, in terms of par value, based on the number of trading days in the period. Positions are net amounts and are shown on a commitment basis. Data for financing are in terms of actual amounts borrowed or lent and are based on Wednesday figures.

2. Immediate positions are net amounts (in terms of par values) of securities owned by nonbank dealer firms and dealer departments of commercial banks on a commitment, that is, trade-date basis, including any such securities that have been sold under agreements to repurchase (RPs). The maturities of some repurchase agreements are sufficiently long, however, to suggest that the securities involved are not available for trading purposes. Immediate positions include

reverses to maturity, which are securities that were sold after having been obtained under reverse repurchase agreements that mature on the same day as the securities. Data for immediate positions do not include forward positions.

3. Figures cover financing involving U.S. Treasury and federal agency securities, negotiable CDs, bankers acceptances, and commercial paper.

4. Includes all reverse repurchase agreements, including those that have been arranged to make delivery on short sales and those for which the securities obtained have been used as collateral on borrowings, that is, matched agreements.

5. Includes both repurchase agreements undertaken to finance positions and "matched book" repurchase agreements.

NOTE. Data on positions for the period May 1 to Sept. 30, 1986, are partially estimated.

## 1.44 FEDERAL AND FEDERALLY SPONSORED CREDIT AGENCIES Debt Outstanding Millions of dollars, end of period

			1004	4005			1988		
Agency	1984	1985	1986	1987	Aug.	Sept.	Oct.	Nov.	Dec.
1 Federal and federally sponsored agencies	271,220	293,905	307,361	341,386	360,004	363,894	364,491	390,639	n.a.
2 Federal agencies 3 Defense Department  4 Export-Import Bank  5 Federal Housing Administration  6 Government National Mortgage Association participation certificates  7 Postal Service  8 Tennessee Valley Authority  9 United States Railway Association  9 United States Railway Association  6	35,145 142 15,882 133 2,165 1,337 15,435 51	36,390 71 15,678 115 2,165 1,940 16,347 74	36,958 33 14,211 138 2,165 3,104 17,222 85	37,981 13 11,978 183 1,615 6,103 18,089	35,694 11 11,232 115 0 5,842 18,494	35,448 11 10,964 120 0 5,842 18,511	35,070 8 10,964 118 0 5,842 18,138 0	35,209 8 10,964 139 0 5,842 18,256 0	35,668 8 11,033 150 0 6,142 18,335 0
10 Federally sponsored agencies	237,012 65,085 10,270 83,720 72,192 5,745 n.a. n.a.	257,515 74,447 11,926 93,896 68,851 8,395 n.a. n.a.	270,553 88,752 13,589 93,563 62,478 12,171 n.a. n.a.	303,405 115,725 17,645 97,057 55,275 16,503 1,200 n.a.	324,310 121,266 19,652 105,730 53,582 19,880 3,750 450	328,446 126,011 18,368 105,986 53,764 20,117 3,750 450	329,421 127,113 17,384 105,698 53,923 21,112 3,750 450	355,430 130,630 19,500 53,420 105,337 21,403 4,450 690	n.a. 135,834 n.a. 53,420 105,452 22,073 5,850 690
MEMO 18 Federal Financing Bank debt <sup>12</sup>	145,217	153,373	157,510	152,417	149,809	146,151	145,529	143,321	142,850
Lending to federal and federally sponsored agencies  19 Export-Import Bank <sup>3</sup> 20 Postal Service <sup>6</sup> 21 Student Loan Marketing Association  22 Tennessee Valley Authority  23 United States Railway Association <sup>6</sup>	1 1.087	15,670 1,690 5,000 14,622 74	14,205 2,854 4,970 15,797 85	11,972 5,853 4,940 16,709	11,226 5,592 4,940 17,114 0	10,958 5,592 4,910 17,131 0	10,958 5,592 4,910 16,758 0	10,958 5,592 4,910 16,876 0	11,027 5,892 4,910 16,955 0
Other Lending <sup>13</sup> 24 Farmers Home Administration 25 Rural Electrification Administration 26 Other	58,971 20,693 29,853	64,234 20,654 31,429	65,374 21,680 32,545	59,674 21,191 32,078	59,464 19,225 32,248	58,496 19,205 29,859	58,496 19,222 29,593	58,496 19,220 27,269	58,496 19,246 26,324

- 1. Consists of mortgages assumed by the Defense Department between 1957 and 1963 under family housing and homeowners assistance programs
- and 1903 under ramly nousing and noncowners 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.
- 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

- 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 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.

  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. tion entry contains both agency assets and guaranteed loans.

## A34 Domestic Financial Statistics ☐ April 1989

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

Type of issue or issuer,	1986	1987	1988				1988				1989
or use	1980	1967	1988	June	July	Aug.	Sept.	Oct.	Nov.	Dec.'	Jan.
1 All issues, new and refunding 1	147,011	102,407	108,078	13,912	9,746	6,966	9,669	10,455	8,551	11,268	6,324
Type of issue 2 General obligation	46,346 100,664	30,589 71,818	29,662 78,417	4,237 9,675	1,959 7,788	2,472 4,494	2,370 7,299	2,058 8,397'	2,368 6,183	2,491 8,777	1,709 4,615
Type of issuer 4 State 5 Special district and statutory authority 6 Municipalities, counties, and townships	14,474 89,997 42,541	10,102 65,460 26,845	9,254 69,447 29,377	1,349 8,629 3,934	140 6,752 2,854	576 3,749 2,641	1,206 6,407 2,056	734 7,283 2,438	525 5,550 2,476	1,011 7,690 2,567	232 4,620 1,472
7 Issues for new capital, total	83,492	56,789	75,064	8,935	8,386	5,317	7,076	6,965	5,830	8,738	4,185
Use of proceeds  8 Education  9 Transportation  10 Utilities and conservation  11 Social welfare  12 Industrial aid  13 Other purposes	12,307 7,246 14,594 11,353 6,190 31,802	9,524 3,677 7,912 11,106 7,474 18,020	13,722 6,974 7,929 17,824 6,276 22,339	1,320 858 635 2,060 434 3,628	1,699 1,446 225 1,222 128 3,666	694 265 613 1,242 460 2,043	1,351 732 694 2,358 280 1,661	512 559 1,238 2,478 393 1,785	827 237 1,055 1,991 294 1,426	2,564 636 463 2,072 1,010 1,993	829 344 1,368 531 246 867

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

SOURCES. Securities Data/Bond Buyer Municipal Data Base beginning 1986. Public Securities Association for earlier data.

## 1.46 NEW SECURITY ISSUES U.S. Corporations

Millions of dollars

Type of issue or issuer,	1986	1987	1988				19	988			
or use	1966	1967	1966	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 All issues <sup>1</sup>	423,726	392,156	264,881	23,413	30,043	18,037	19,305	23,933	21,667	24,489	12,251
2 Bonds <sup>2</sup>	355,293	325,648	222,425	19,382	25,748	12,899	15,970	20,928	18,880 <sup>r</sup>	21,054 <sup>r</sup>	10,200
Type of offering 3 Public, domestic 4 Private placement, domestic 5. Sold abroad	231,936 80,760 42,596	209,279 92,070 24,299	199,182 90,000 23,243	17,496 n.a. 1,886	22,753 n.a. 2,995	10,905 n.a. 1,994	14,631' n.a. 1,339	18,240 <sup>r</sup> n.a. 2,688 <sup>r</sup>	17,368 <sup>r</sup> n.a. 1,512	16,756' n.a. 4,298'	10,000 n.a. 200
Industry group 6 Manufacturing 7 Commercial and miscellaneous 8 Transportation 9 Public utility 10 Communication 11 Real estate and financial	91,548 40,124 9,971 31,426 16,659 165,564	61,666 49,327 11,974 23,004 7,340 172,343	40,958 18,614 3,771 13,775 4,044 141,262	4,206 1,446 184 1,929 69 11,546	5,305 2,281 580 1,707 925 14,949	2,205 <sup>r</sup> 1,530 <sup>r</sup> 100 540 577 7,948	3,476 2,226' 0 298 29 9,940'	3,750' 1,035 150 856 1,064 14,072'	3,552 764 <sup>r</sup> 605 <sup>r</sup> 1,346 100 <sup>r</sup> 12,513 <sup>r</sup>	2,890° 3,260° 45 672° 289 13,899°	1,446 722 0 138 158 7,736
12 Stocks <sup>3</sup>	68,433	66,508	42,456	4,031	4,295	5,138	3,335	3,005	2,787	3,435	2,051
<i>Type</i> 13 Preferred 14 Common 15 Private placement <sup>3</sup>	11,514 50,316 6,603	10,123 43,225 13,157	6,544 35,911 n.a.	285 3,746 n.a.	501 3,794 n.a.	407 4,731 n.a.	498 2,837 n.a.	385 2,620 n.a.	865 1,922 n.a.	478 2,957' n.a.	495 1,556 n.a.
Industry group 16 Manufacturing 17 Commercial and miscellaneous 18 Transportation 19 Public utility 20 Communication 21 Real estate and financial	15,027 10,617 2,427 4,020 1,825 34,517	13,880 12,888 2,439 4,322 1,458 31,521	6,115 4,766 845 1,581 448 28,701	1,080 157 15 59 78 2,642	1,676 522 51 207 13 1,826	296 2,073 0 20 20 2,729	538 347 72 135 3 2,240	244 525 5 215 23 1,993	288 222 25 282 0 1,970	430 <sup>7</sup> 52 <sup>7</sup> 20 70 20 2,843 <sup>7</sup>	425 89 0 20 59 1,459

Figures which represent gross proceeds of issues maturing in more than one year, are principal amount or number of units multiplied by offering price. Excludes secondary offerings, employee stock plans, investment companies other than closed-end, intracorporate transactions, equities sold abroad, and Yankee bonds. Stock data include ownership securities issued by limited partnerships.

Monthly data include only public offerings.
 Data are not available on a monthly basis. Before 1987, annual totals include underwritten issues only.
 SOURCES. IDD Information Services, Inc., U.S. Securities and Exchange Commission and the Board of Governors of the Federal Reserve System.

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

1	1007	1000				19	88			
Item	1987	1988	May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.
Investment Companies <sup>1</sup>										
1 Sales of own shares <sup>2</sup>	381,260	271,237	19,579	22,503	20,728	20,595	19,872	20,494	20,327	25,780
2 Redemptions of own shares <sup>3</sup>	314,252 67,008	267,451 3,786	21,412 -1,833	23,168 -665	20,561 167	22,837 <sup>r</sup> -2,242	21,330 -1,458	19,362 1,132	20,599 -272	25,976 -196
4 Assets <sup>4</sup>	453,842	472,297	468,735	481,120	477,076	465,822	474,662	481,571	470,660	472,297
5 Cash position <sup>5</sup>	38,006 415,836	45,090 427,207	45,003 423,732	43,229 437,891	44,015 433,061	45,229 420,595	46,706 427,956	45,976 435,595	43,488 427,172	45,090 427,207

<sup>1.</sup> 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 reinvest-

#### 1.48 CORPORATE PROFITS AND THEIR DISTRIBUTION

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

<b>A</b>	1986	1987	1988		19	87			19	88	
Account	1986	1967	1966	Qı	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Corporate profits with inventory valuation and capital consumption adjustment	236.4 106.6 129.8	310.4 276.7 133.8 142.9 95.5 47.4 -18.0	323.8 302.1 140.9 161.3 104.5 56.8	298.3 261.8 126.3 135.5 91.7 43.8	305.2 273.7 132.6 141.1 94.0 47.0	322.0 289.4 140.0 149.5 97.0 52.4	316.1 281.9 136.2 145.7 99.3 46.4	316.2 286.2 136.9 149.4 101.3 48.1	326.5 305.9 143.2 162.7 103.1 59.6	330.0 313.9 144.8 169.1 105.7 63.4 -29.3	n.a. n.a. n.a. n.a. 108.0 n.a.

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.

• • •	1986 1987	1986 1987	1000		1987			19	88		1989
Industry	1986	1987	1988	Q2	Q3	Q4	Q١	Q2	Q3	Q4	Q1
1 Total nonfarm business	379.47	389.67	430.95	380.66	394.54	406.82	412.02	426.94	436.01	445.73	466.76
Manufacturing 2 Durable goods industries 3 Nondurable goods industries	69.14 73.56	71.01 74.88	78.06 85.50	69.05 72.66	71.96 76.24	72.28 79.92	75.70 82.90	76.87 84.82	79.48 89.43	78.97 90.00	84.25 93.56
Nonmanufacturing 4 Mining Transportation	11.22	11.39	12.62	11.02	11.81	12.32	12.59	13.26	12.47	11.97	11.62
5 Railroad	6.66 6.26 5.89	5.92 6.53 6.40	7.05 7.61 6.91	5.84 6.02 6.26	6.07 6.15 6.97	6.12 6.94 6.28	6.92 6.43 7.08	7.01 6.66 7.05	6.84 8.06 7.26	8.07 6.84 7.20	9.26 10.07 7.58
Public utilities 8 Electric	33.91 12.47 160.38	31.63 13.25 168.65	32.20 14.27 186.74	31.47 12.47 165.86	31.57 13.73 170.05	32.28 14.11 176.56	30.31 14.30 175.79	30.95 14.48 185.83	32.20 14.50 185.76	33.54 15.25 193.87	32.69 16.66 201.07

<sup>▲</sup>Trade and services are no longer being reported separately. They are included in Commercial and other, line 10.

1. Anticipated by business.

ment 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.

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

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

<sup>2. &</sup>quot;Other" consists of construction; wholesale and retail trade; finance and insurance; personal and business services; and communication.

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

## A36 Domestic Financial Statistics ☐ April 1989

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

Billions of dollars, end of period

	1002	1004	1005		1986			19	87	
Account	1983	1984	1985	Q2	Q3	Q4	Qı	Q2	Q3	Q4
ASSETS										
Accounts receivable, gross  1 Consumer  2 Business  3 Real estate  4 Total	83.3 113.4 20.5 217.3	89.9 137.8 23.8 251.5	111.9 157.5 28.0 297.4	123.4 166.8 29.8 320.0	135.3 159.7 31.0 326.0	134.7 173.4 32.6 340.6	131.1 181.4 34.7 347.2	134.7 188.1 36.5 359.3	141.6 188.3 38.0 367.9	141.1 207.6 39.5 388.2
Less: 5 Reserves for unearned income 6 Reserves for losses	30.3 3.7	33.8 4.2	39.2 4.9	40.7 5.1	42.4 5.4	41.5 5.8	40.4 5.9	41.2 6.2	42.5 6.5	45.3 6.8
7 Accounts receivable, net	183.2 34.4	213.5 35.7	253.3 45.3	274.2 49.5	278.2 60.0	293.3 58.6	300.9 59.0	311.9 57.7	318.9 64.5	336.1 58.2
9 Total assets	217.6	249.2	298.6	323.7	338.2	351.9	359.9	369.6	383.4	394.3
Liabilities				}						
10 Bank loans	18.3 60.5	20.0 73.1	18.0 99.2	16.3 108.4	16.8 112.8	18.6 117.8	17.2 119.1	17.3 120.4	15.9 124.2	16.4 128.4
12 Other short-term 13 Long-term 14 All other liabilities 15 Capital, surplus, and undivided profits	11.1 67.7 31.2 28.9	12.9 77.2 34.5 31.5	12.7 94.4 41.5 32.8	15.8 106.9 40.9 35.4	16.4 111.7 45.0 35.6	17.5 117.5 44.1 36.4	21.8 118.7 46.5 36.6	24.8 121.8 49.1 36.3	26.9 128.2 48.6 39.5	28.0 137.1 52.8 31.5
16 Total liabilities and capital	217.6	249.2	298.6	323.7	338.2	351.9	359.9	369.6	383.4	394.3

<sup>1.</sup> NOTE. Components may not add to totals because of rounding.

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

Millions of dollars, seasonally adjusted

Torre	1985	1986	1987			19	88		
Туре	1963	1900	1967	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 Total	156,297	171,966	205,869	223,706	223,958	230,474	231,807	234,059	234,808
Retail financing of installment sales 2 Automotive (commercial vehicles) 3 Business, industrial, and farm equipment Wholesale financing 4 Automotive	20,660	25,952	35,674	37,682	37,519	37,120	37,359	36,984	37,067
	22,483	22,950	24,987	27,428	27,603	27,569	27,841	28,160	27,919
	23,988	23,419	31,059	28,449	27,721	32,732	32.523	32,523	33,879
5 Equipment 6 All other	4,568	5,423	5,693	5,654	5,803	5,949	5,888	6,045	6,083
	6,809	7,079	8,408	8,458	8,531	8,738	8,867	9,025	9,278
7 Automotive	16,275	19,783	21,943	24,400	24,370	23,861	24,186	24,623	24,639
	34,768	37,833	43,002	52,803	53,671	55,400	55,786	56,294	58,147
9 Loans on commercial accounts receivable and factored commercial accounts receivable     10 All other business credit	15,765	15,959	18,024	19,095	19,132	19,386	19,239	19,616	18,133
	10,981	13,568	17,079	19,736	19,609	19,719	20,117	20,790	19,664
				Net cha	nge (during	period)			
11 Total	19,607	15,669	3,040	1,573	252	6,515	1,333	2,252	749
Retail financing of installment sales  Automotive (commercial vehicles)  Business, industrial, and farm equipment  Wholesale financing	5,067	5,292	1,220	163	-163	-399	239	-375	83
	-363	<b>46</b> 7	223	120	175	-35	272	319	-240
14 Automotive 15 Equipment 16 All other Leasing	5,423	-569	158	-282	728	5,011	-208	0	1,355
	-867	855	-101	97	149	146	-60	157	38
	1,069	270	257	-23	73	207	129	158	253
17 Automotive	3,896	3,508	-70	324	-30	-509	325	436	16
	2,685	3,065	1,038	438	867	1,729	386	508	1,853
19 Loans on commercial accounts receivable and factored commercial accounts receivable      20 All other business credit	2,161 536	194 2,587	-477 792	500 476	-127	255 110	-148 398	377 673	-1,483 -1,126

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

#### 1.53 MORTGAGE MARKETS

Millions of dollars; exceptions noted.

							1988			
Item	1986	1987	1988	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			Ter	ms and yiel	ds in prima	ry and seco	ondary mar	kets		
PRIMARY MARKETS										
Conventional mortgages on new homes Terms !			1					ļ		
Purchase price (thousands of dollars). Amount of loan (thousands of dollars) Loan/price ratio (percent). Maturity (years) Fees and charges (percent of loan amount) <sup>2</sup> . Contract rate (percent per year).	118.1 86.2 75.2 26.6 2.48 9.82	137.0 100.5 75.2 27.8 2.26 8.94	150.0 110.5 75.5' 28.0 2.19 8.81	152.9 111.9 75.2 28.4 2.24 8.80	154.2 114.9 76.7 28.5 2.35 8.68	148.3 109.8 75.4 27.6 2.14 8.90	153.8 114.0 75.8 28.4 1.98 8.77	155.3 115.6 76.1 28.4 2.28 9.05	150.0° 110.8° 75.6° 28.3 2.08 9.04°	156.2 115.8 75.6 28.8 1.93 9.23
Yield (percent per year) 7 FHLBB series 8 HUD series	10.26 10.07	9.31 10.17	9.18 10.30°	9.17 10.47	9.06 10.55	9.26 10.39	9.10 10.21	9.43 10.37	9.39 <sup>r</sup> 10.67	9.55 n.a.
SECONDARY MARKETS			Į					ļ		
Yield (percent per year) 9 FHA mortgages (HUD series) <sup>5</sup>	9.91 9.30	10.16 9.43	10.49 <sup>r</sup> 9.83	10.66 9.91	10.74 10.09	10.58 9.93	10.23 9.77	10.63 9.85	10.81 10.07	n.a. 10.02
				Act	ivity in seco	ondary mar	kets			
FEDERAL NATIONAL MORTGAGE ASSOCIATION										
Mortgage holdings (end of period) 11 Total 12 FHA/VA-insured 13 Conventional	98,048 29,683 68,365	95,030 21,660 73,370	101,329 19,762 81,567	102,540 19,677 82,864	102,540 19,586 82,954	102,453 19,526 82,927	102,493 19,464 83,032	102,696 19,467 83,228	103,013 19,415 83,598	102,370 19,354 83,016
Mortgage transactions (during period) 14 Purchases	30,826	20,531	23,110	1,960	1,638	1,111	1,488	1,596	1,726	1,037
Mortgage commitments? 15 Contracted (during period)	32,987 3,386	25,415 4,886	23,435 2,148	1,108 4,277	1,041 3,135	1,439 3,257	1,740 3,165	1,289 2,740	1,350 2,148	1,087 2,081
FEDERAL HOME LOAN MORTGAGE CORPORATION										
Mortgage holdings (end of period) <sup>8</sup>   17 Total	13,517 746 12,771	12,802 686 12,116	n.a. n.a. n.a.	15,133 619 14,514	15,142 611 14,531	15,442 606 14,836	15,669 601 15,068	15,419 595 14,824	n.a. n.a. n.a.	n.a. n.a. n.a.
Mortgage transactions (during period) 20 Purchases	103,474 100,236	76,845 75,082	n.a. 39,516'	3,879 4,115	3,858 3,719	4,192 3,728	4,037 3,674	4,109 4,231	n.a. 5,246	n.a. n.a.
Mortgage commitments <sup>9</sup> 22 Contracted (during period)	110,855	71,467	n.a.	5,328	3,480	6,209	4,406	5,419	n.a.	n.a.

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 FHAVA mortgages carrying the prevailing ceiling rate. Monthly figures are averages of Friday figures from the Wall Street Journal.

7. Includes some multifamily and nonprofit hospital loan commitments in addition to 1- to 4-family loan commitments accepted in FNMA's free market auction system, and through the FNMA-GNMA tandem plans.

8. Includes participation as well as whole loans.

9. Includes conventional and government-underwritten loans. FHLMC's mortgage commitments and mortgage transactions include activity under mortgage/securities swap programs, while the corresponding data for FNMA exclude swap activity.

<sup>1.</sup> 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.

activity.

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

Millions of dollars, end of period

_	Tues of helders and down of succession	1005	1004	1007	19	87		1988	<u>-</u>
_	Type of holder, and type of property	1985	1986	1987	Q3	Q4	Qı	Q2	Q3
1	All holders.	2,289,843	2,597,175	2,943,144	2,864,736	2,943,144	2,988,100	3,067,566	3,151,956
3	1- to 4-family Multifamily Commercial Farm	1,488,009 214,470 481,514 105,850	1,698,524 247,831 555,039 95,781	1,925,197 273,830 655,249 88,868	1,870,635 268,911 635,230 89,960	1,925,197 273,830 655,249 88,868	1,955,770 277,622 666,521 88,187	2,015,646 282,511 681,478 87,931	2,079,706 286,918 697,919 87,413
6 8 9 10 11	Commercial banks <sup>2</sup> I- to 4-family Multifamily Commercial	1,390,394 429,196 213,434 23,373 181,032 11,357	1,507,289 502,534 235,814 31,173 222,799 12,748	1,700,820 591,151 275,761 33,296 267,663 14,431	1,648,328 567,000 263,762 32,114 256,981 14,143	1,700,820 591,151 275,761 33,296 267,663 14,431	1,723,737 604,403 280,439 33,640 275,535 14,789	1,773,444 628,132 291,767 34,672 286,366 15,327	1,827,383 653,288 304,029 35,936 297,880 15,443
12 13 14 15	1- to 4-family Multifamily Commercial	760,499 554,301 89,739 115,771 688	777,312 558,412 97,059 121,236 605	856,945 598,886 106,359 150,943	838,737 583,432 104,609 149,938	856,945 598,886 106,359 150,943	863,110 603,532 107,687 151,136	881,924 622,863 109,108 149,201	905,372 644,676 109,800 150,144
17 18 19 20 21 22	Life insurance companies 1- to 4-family Multifamily Commercial Farm	171,797 12,381 19,894 127,670 11,852 28,902	193,842 12,827 20,952 149,111 10,952 33,601	212,375 13,226 22,524 166,722 9,903 40,349	204,263 12,742 21,968 159,464 10,089 38,328	212,375 13,226 22,524 166,722 9,903 40,349	214,815 13,653 22,723 168,774 9,665 41,409	220,870 14,172 23,021 174,086 9,591 42,518	225,245 14,892 23,100 178,012 9,241 43,478
23 24 25 26 27 28 29 30 31	Government National Mortgage Association  1- to 4-family Multifamily Farmers Home Administration 1- to 4-family Multifamily Commercial	166,928 1,473 539 934 733 183 113 159 278	203,800 889 47 842 48,421 21,625 7,608 8,446 10,742	192,721 444 25 419 43,051 18,169 8,044 6,603 10,235	191,520 458 25 433 42,978 18,111 7,903 6,592 10,372	192,721 444 25 419 43,051 18,169 8,044 6,603 10,235	196,909 434 25 409 43,076 18,185 8,115 6,640 10,136	199,474 42 24 18 42,767 18,248 8,213 6,288 10,018	197,885 43 24 19 41,836 18,268 8,349 5,300 9,919
32 33 34 35 36 37 38 39 40 41 42 43	I- to 4-family Multifamily Federal National Mortgage Association I- to 4-family Multifamily Federal Land Banks I- to 4-family Farm Federal Home Loan Mortgage Corporation I- to 4-family	4,920 2,254 2,666 98,282 91,966 6,316 47,498 2,798 44,700 14,022 11,881 2,141	5,047 2,386 2,661 97,895 90,718 7,177 39,984 2,353 37,631 11,564 10,010 1,554	5,574 2,557 3,017 96,649 89,666 6,983 34,131 2,008 32,123 12,872 11,430 1,442	5,330 2,452 2,878 94,884 87,901 6,983 34,930 2,055 32,875 12,940 11,570	5,574 2,557 3,017 96,649 89,666 6,983 34,131 2,008 32,123 12,872 11,430 1,442	5,660 2,608 3,052 99,787 92,828 6,959 33,566 1,975 31,591 14,386 12,749 1,637	5,673 2,564 3,109 102,368 95,404 33,048 1,945 31,103 15,576 13,631 1,945	5,545 2,445 3,100 102,453 95,417 7,036 32,566 1,917 30,649 15,442 13,589 1,853
446 467 488 499 50 51 52 53 54 55 56 57 58	Government National Mortgage Association.  1 - to 4-family Multifamily Federal Home Loan Mortgage Corporation 1 - to 4-family Multifamily Federal National Mortgage Association 1 - to 4-family Multifamily Farmers Home Administration 1 - to 4-family L to 4-family	439,058 212,145 207,198 4,947 100,387 99,515 872 54,987 54,036 951 47,523 22,186 6,675 8,190 10,472	565,428 262,697 256,920 5,777 171,372 166,667 4,705 97,174 95,791 1,383 348 142 	718,297 317,555 309,806 7,749 212,634 205,977 6,657 139,960 137,988 1,972 245 121	692,944 308,339 300,815 7,524 208,872 202,308 6,564 130,540 128,770 1,770 333 144	718,297 317,555 309,806 7,749 212,634 205,977 6,657 139,960 137,988 1,972 245 121	736,344 322,976 315,095 7,881 214,724 208,138 6,586 145,242 142,330 2,912 172 65	754,045 322,616 314,728 7,888 216,155 209,702 6,453 157,438 153,253 4,185 106 23	782,093 332,926 324,469 8,457 220,683 214,063 6,620 167,170 162,228 4,942 106 27
	Individuals and others <sup>7</sup> 1- to 4-family Multifamily Commercial	293,463 162,419 55,849 48,692 26,503	320,658 177,374 66,940 53,315 23,029	331,306 171,325 75,368 63,255 21,358	331,944 173,360 74,795 62,131 21,658	331,306 171,325 75,368 63,255 21,358	331,110 169,509 76,021 64,378 21,202	340,603 177,074 76,935 65,496 21,098	344,595 178,976 77,706 66,545 21,368

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

Includes loads flow of monays and several tender tenders.
 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).

<sup>4.</sup> Assumed to be entirely 1- to 4-family loans.
5. FmHA-guaranteed securities sold to the Federal Financing Bank were reallocated from FmHA mortgage pools to FmHA mortgage holdings in 1986:4, because of accounting changes by the Farmers Home Administration.
6. Outstanding principal balances of mortgage pools backing securities insured or guaranteed by the agency indicated.
7. Other holders include mortgage companies, real estate investment trusts, state and local credit agencies, state and local retirement funds, noninsured pension funds, credit unions, and other U.S. agencies.

## 1.55 CONSUMER INSTALLMENT CREDIT¹ Total Outstanding, and Net Change, seasonally adjusted Millions of dollars

							1988				
Holder, and type of credit	1987	1988	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.
	1			A	mounts out	standing (e	nd of perio	d)			
1 Total	613,022	667,328	633,336	636,318	644,372	647,993	653,317	653,319	657,226	661,889	667,328
By major holder 2 Commercial banks 3 Finance companies 4 Credit unions 5 Retailers 6 Savings institutions 7 Gasoline companies	281,564	320,226	293,166	295,546	300,275	303,189	307,119	308,960	312,968	317,128	320,226
	140,072	143,523	144,516	144,454	144,748	143,812	143,962	142,723	142,480	142,226	143,523
	81,065	86,070	83,204	83,881	84,912	85,468	85,881	85,553	86,024	86,102	86,070
	42,782	45,370	43,295	43,162	43,450	43,634	43,712	43,956	44,250	44,644	45,370
	63,949	68,482	65,387	65,509	67,274	68,182	68,909	68,462	67,845	68,140	68,482
	3,590	3,657	3,769	3,765	3,713	3,707	3,735	3,665	3,658	3,648	3,657
By major type of credit  8 Automobile  9 Commercial banks  10 Credit unions  11 Finance companies  12 Savings institutions	267,180	290,434	278,567	279,418	282,254	283,359	285,560	284,782	286,107	287,474	290,434
	108,438	126,693	114,868	115,951	117,322	118,650	120,380	121,450	122,995	124,583	126,693
	43,474	48,243	45,293	45,831	46,565	47,043	47,444	47,436	47,870	48,088	48,243
	98,026	96,368	100,564	99,708	99,900	98,896	98,711	96,939	96,400	95,825	96,368
	17,242	19,130	17,841	17,928	18,465	18,770	19,026	18,958	18,842	18,979	19,130
13 Revolving. 14 Commercial banks 15 Retailers 16 Gasoline companies 17 Savings institutions 18 Credit unions.	159,307	185,870	167,356	169,154	172,809	174,927	177,568	178,675	181,277	184,467	185,870
	98,808	117,137	104,250	105,742	108,309	109,645	111,623	112,341	114,404	116,824	117,137
	36,959	39,095	37,414	37,259	37,526	37,671	37,708	37,914	38,169	38,481	39,095
	3,590	3,657	3,769	3,765	3,713	3,707	3,735	3,665	3,658	3,648	3,657
	13,279	16,516	14,309	14,518	15,098	15,492	15,850	15,938	15,984	16,244	16,516
	6,671	9,465	7,614	7,870	8,162	8,413	8,652	8,816	9,063	9,270	9,465
19 Mobile home	25,957	25,610	25,764	25,703	25,852	25,882	25,915	25,746	25,776	25,830	25,610
	9,101	8,825	9,047	8,966	8,933	8,913	8,893	8,833	9,048	9,079	8,825
	7,771	7,210	7,575	7,578	7,513	7,436	7,387	7,341	7,243	7,224	7,210
	9,085	9,574	9,142	9,159	9,406	9,533	9,634	9,572	9,485	9,527	9,574
23 Other 24 Commercial banks 25 Finance companies 26 Credit unions 27 Retailers 28 Savings institutions	160,578	165,415	161,649	162,043	163,456	163,825	164,274	164,116	164,066	164,117	165,415
	65,217	67,572	65,001	64,887	65,710	65,981	66,222	66,335	66,522	66,642	67,572
	34,275	39,945	36,376	37,168	37,335	37,480	37,863	38,443	38,837	39,177	39,945
	30,920	28,362	30,297	30,180	30,184	30,012	29,785	29,302	29,091	28,745	28,362
	5,823	6,275	5,880	5,903	5,923	5,964	6,004	6,041	6,081	6,163	6,275
	24,343	23,261	24,095	23,904	24,305	24,388	24,399	23,995	23,534	23,390	23,261
!				-	Net cha	nge (during	period)				
29 Total	41,189	54,306	3,851	2,982	8,054	3,621	5,324	2	3,907	4,663	5,439
By major holder 30 Commercial banks 4 31 Finance companies 2 32 Credit unions 33 Retailers 4 34 Savings institutions 35 Gasoline companies	19,425	38,662	2,335	2,380	4,729	2,914	3,930	1,841	4,008	4,160	3,098
	6,374	3,451	463	-62	294	-936	150	-1,239	-243	-254	1,297
	4,874	5,005	609	677	1,031	556	413	-328	471	78	-32
	3,122	2,588	24	-133	288	184	78	244	294	394	726
	7,068	4,533	309	122	1,765	908	727	-447	-617	295	342
	326	67	112	-4	-52	-6	28	-70	-7	-10	9
By major type of credit 36 Automobile 37 Commercial banks 38 Credit unions. 39 Finance companies. 40 Savings institutions	21,071	23,254	1,805	851	2,836	1,105	2,201	-778	1,325	1,367	2,960
	7,531	18,255	1,275	1,083	1,371	1,328	1,730	1,070	1,545	1,588	2,110
	5,061	4,769	498	538	734	478	401	-8	434	218	155
	5,676	-1,658	-105	-856	192	-1,004	-185	-1,772	-539	-575	543
	2,803	1,888	136	87	537	305	256	-68	-116	137	151
41 Revolving. 42 Commercial banks 43 Retailers 44 Gasoline companies 45 Savings institutions 46 Credit unions.	22,926	26,563	1,713	1,798	3,655	2,118	2,641	1,107	2,602	3,190	1,403
	12,051	18,329	1,098	1,492	2,567	1,336	1,978	718	2,063	2,420	313
	2,639	2,136	6	-155	267	145	37	206	255	312	614
	326	67	112	-4	-52	-6	28	-70	-7	-10	9
	4,913	3,237	250	209	580	394	358	88	46	260	272
	2,997	2,794	246	256	292	251	239	164	247	207	195
47 Mobile home 48 Commercial banks 49 Finance companies 50 Savings institutions	-926	-347	32	-61	149	30	33	-169	30	54	-220
	175	-276	54	-81	-33	-20	-20	-60	215	31	-254
	-1,051	-561	-65	3	-65	-77	-49	-46	-98	-19	-14
	-50	489	43	17	247	127	101	-62	-87	42	47
51 Other         52 Commercial banks         53 Finance companies         54 Credit unions         55 Retailers         56 Savings institutions	-1,882	4,837	301	394	1,413	369	449	-158	-50	51	1,298
	-332	2,355	-93	-114	823	271	241	113	187	120	930
	1,749	5,670	632	792	167	145	383	580	394	340	768
	-3,184	-2,558	-135	-117	4	-172	-227	-483	-211	-346	-383
	483	452	17	23	20	41	40	37	40	82	112
	-598	-1,082	-121	-191	401	83	11	-404	-461	-144	-129

<sup>1.</sup> 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.

2. More detail for finance companies is available in the G. 20 statistical release.

3. Excludes 30-day charge credit held by travel and entertainment companies.

## A40 Domestic Financial Statistics April 1989

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

Percent unless noted otherwise

Item	1986	1002	1988				1988			
item	1980	1987	1988	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
INTEREST RATES										
Commercial banks <sup>2</sup> 1 48-month new car <sup>3</sup> 2 24-month personal 3 120-month mobile home <sup>3</sup> 4 Credit card Auto finance companies 5 New car 6 Used car	11.33 14.83 13.99 18.26 9.44 15.95	10.45 14.23 13.38 17.92 10.73 14.60	10.86 14.68 13.54 17.78 12.60 15.11	n.a. n.a. n.a. n.a. 12.32 14.83	n.a. n.a. n.a. n.a. 12.44 14.99	10.93 14.81 13.62 17.79 12.64 15.16	n.a. n.a. n.a. n.a. 12.93 15.46	п.а. п.а. п.а. п.а. 13.10	11.22 15.06 13.61 17.77 13.20 15.75	п.а. п.а. п.а. п.а. 13.25 15.80
Other Terms <sup>4</sup>									ľ	
Maturity (months) 7 New car 8 Used car Loan-to-value ratio	50.0 42.6	53.5 45.2	56.2 46.7	56.3 46.9	56.4 46.8	56.5 46.8	56.3 46.5	56.3 46.3	56.2 46.2	56.3 46.0
9 New car	91 97	93 98	94 98	94 99	94 99	94 98	94 98	94 99	94 98	94 98
11 New car	10,665 6,555	11,203 7,420	11,663 7,824	11,626 7,899	11,663 7,947	11,593 7,918	11,530 7,903	11,845 7,944	11,975 7 <b>,991</b>	12,068 8,022

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

<sup>3.</sup> Before 1983 the maturity for new car loans was 36 months, and for mobile home loans was 84 months.
4. At auto finance companies.

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

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

<b>~</b>	1002	1004	1005	1007	1007	L	19	87			1988	
Transaction category, sector	1983	1984	1985	1986	1987	Q1	Q2	Q3	Q4	Q1	Q2	Q3
		L			N	onfinanc	ial sector	rs		·		L
1 Total net borrowing by domestic nonfinancial sectors	546.8	750.8	846.3	830.6	680.6	552.0	751.7	652.1	766.8	731.8	704.0	760.
By sector and instrument 2 U.S. government 3 Treasury securities. 4 Agency issues and mortgages	186.6 186.7 1	198.8 199.0 2	223.6 223.7 1	215.0 214.7 .4	143.8 142.3 1.5	161.6 157.7 3.9	145.2 147.1 -1.9	101.8 102.7 9	166.7 161.8 5.0	226.3 226.8 5	87.6 79.8 7.7	195 174.0 20.5
5 Private domestic nonfinancial sectors 6 Debt capital instruments 7 Tax-exempt obligations 8 Corporate bonds 9 Mortgages 10 Home mortgages 11 Multifamily residential 12 Commercial 13 Farm	360.2 257.6 53.7 16.0 187.9 120.4 14.1 51.0 2.4	552.0 319.3 50.4 46.1 222.8 136.7 25.2 62.2 -1.2	622.7 452.3 136.4 73.8 242.2 156.8 29.8 62.2 -6.6	615.6 460.7 30.8 121.3 308.6 210.9 33.5 73.6 -9.5	536.8 446.1 34.5 99.9 311.6 221.7 24.3 72.0 -6.4	390.3 473.3 38.7 128.9 305.7 224.2 27.4 66.5 -12.4	606.4 466.7 33.1 88.5 345.1 243.5 30.9 77.2 -6.6	550.3 428.1 32.7 100.7 294.7 212.1 23.1 64.1 -4.7	600.1 416.1 33.5 81.6 301.1 206.9 15.9 80.2 -1.9	505.6 363.3 24.8 101.3 237.1 177.9 21.4 43.2 -5.4	616.5 452.2 32.6 118.4 301.2 228.0 14.0 60.8 -1.6	564.9 457. 44.4 90.8 322.6 210. 33.7 72.7
14 Other debt instruments 15 Consumer credit 16 Bank loans n.e.c. 17 Open market paper. 18 Other	102.6 49.0 23.2 8 31.3	232.7 81.6 67.1 21.7 62.2	170.3 82.5 38.6 14.6 34.6	154.9 54.4 69.3 -9.3 40.5	90.7 40.7 8.8 2.3 38.9	-83.0 3 -107.8 5 25.5	139.7 52.4 36.6 4.7 46.1	122.2 61.4 21.0 1.0 38.7	184.0 49.4 85.3 3.9 45.5	142.3 34.8 40.4 -3.8 70.9	164.2 59.5 74.2 4.0 26.6	107.1 43. 2.0 11. 50.
19         By borrowing sector           20         State and local governments           21         Households           22         Nonfinancial business           23         Farm           24         Nonfarm noncorporate           25         Corporate	360.2 34.0 186.1 140.1 3.9 81.9 54.4	552.0 27.4 231.5 293.1 4 123.2 170.3	622.7 91.8 283.6 247.3 -14.5 129.3 132.4	615.6 44.3 286.1 285.1 -16.3 127.6 173.8	536.8 34.4 261.5 240.8 -11.2 115.8 136.3	390.3 37.0 197.3 156.0 -23.5 108.4 71.2	606.4 31.4 302.7 272.4 -12.7 125.7 159.4	550.3 34.8 281.2 234.2 -9.4 105.4 138.3	600.1 34.6 264.9 300.7 .8 123.8 176.1	505.6 22.3 220.0 263.3 -12.5 91.0 184.9	616.5 31.1 288.0 297.3 -3.6 87.1 213.9	564. 41. 250. 272. 1. 120. 151.
26 Foreign net borrowing in United States.         27 Bonds         28 Bank loans n.e.c.         29 Open market paper.         30 U.S. government loans	17.3 3.1 3.6 6.5 4.1	8.4 3.8 -6.6 6.2 5.0	1.2 3.8 -2.8 6.2 -5.9	9.6 3.0 -1.0 11.5 -3.9	4.3 6.8 -3.6 2.1 -1.0	-8.7 3.0 -1.2 -4.2 -6.4	1 -4.1 -3.5 -6.4 13.9	12.3 6.7 -3.7 21.6 -12.3	13.9 21.6 -6.1 -2.5 .8	-1.0 16.8 .7 1.5 -19.9	4.9 -2.9 -3.5 6.4 4.9	9.7.4 10.7.4 10.7.4
31 Total domestic plus foreign	564.1	759.2	847.5	840.2	685.0	543.3	751.6	664.3	780.7	730.9	709.0	770.1
		,				Financia	l sectors					····
32 Total net borrowing by financial sectors	99.2	148.7	198.3	297.2	303.1	340.0	316.7	306.4	249.2	218.9	250.1	249.
By instrument 33 U.S. government related. 34 Sponsored credit agency securities. 35 Mortgage pool securities. 36 Loans from U.S. government. 37 Private financial sectors. 38 Corporate bonds. 39 Mortgages. 40 Bank loans n.e.c. 41 Open market paper. 42 Loans from Federal Home Loan Banks. 43 By sector	67.8 1.4 66.4  31.4 17.3 * 1 21.3 -7.0	74.9 30.4 44.4 	101.5 20.6 79.9 1.1 96.7 47.9 .1 2.6 32.0 14.2	178.1 15.2 163.3 4 119.1 70.9 .1 4.0 24.2 19.8	185.8 30.2 156.4 7 117.2 67.1 .3 -3.3 28.8 24.4	193.5 -4.4 200.7 -2.9 146.5 103.2 -4 -9.5 41.5 11.0	196.8 21.5 175.4 1 119.9 45.6 .1 .6 54.0 19.6	185.5 32.0 153.5  120.8 77.7 .2 6.3 14.3 22.2	167.5 71.6 95.9  81.7 41.8 -10.7 5.4 44.9	137.4 56.8 80.5  81.6 74.7 .2 -26.8 28.0 5.4	84.7 9.4 75.3  165.4 67.9 * 8.7 78.7 10.1	140.2 42.8 97.4 108.9 65.9 * -4.9 21.3 26.6
43 Total	99.2 1.4	<b>148.7</b> 30.4	198.3 21.7	<b>297.2</b> 14.9	303.1 29.5	<b>340.0</b> -7.2	316.7 21.4	306.4 32.0	<b>249.2</b> 71.6	218.9 56.8	<b>250.1</b> 9.4	249.1 42.8
Mortgage pools     Private financial sectors     Commercial banks     Bank affiliates     Savings and loan associations     Finance companies     EUTs     CMO Issuers	66.4 31.4 5.0 12.1 -2.1 13.0 2 3.6	44.4 73.8 7.3 15.6 22.7 18.2 .8 9.3	79.9 96.7 -4.9 14.5 22.3 52.7 .5 11.5	163.3 119.1 -3.6 4.6 29.8 48.4 1.0 39.0	156.4 117.2 7.1 2.9 36.0 30.6 1.5 39.1	200.7 146.5 6.4 25.6 28.0 18.1 1.7 66.8	175.4 119.9 20.0 -2.7 22.2 39.9 5 41.0	153.5 120.8 -13.1 11.3 41.9 36.3 1.7 42.7	95.9 81.7 15.0 -22.6 51.9 28.2 3.2 6.0	80.5 81.6 -22.4 -5.0 9.1 54.5 2.4 43.1	75.3 165.4 6.2 7.6 18.2 100.4 1.8 31.2	97. 108. -12. 5. 52. 40. 1. 21.

# A42 Domestic Financial Statistics April 1989

## 1.57—Continued

	1000				1000		19	87			1988	
Transaction category, sector	1983	1984	1985	1986	1987	Q1	Q2	Q3	Q4	Q1	Q2	Q3
						All s	ectors					
53 Total net borrowing	663.4	907.9	1,045.7	1,137.4	988.0	883.3	1,068.3	970.7	1,029.9	949.8	959.1	1,019.2
54 U.S. government securities 55 State and local obligations 65 Corporate and foreign bonds 57 Mortgages. 58 Consumer credit 59 Bank loans n.e.c. 60 Open market paper 61 Other loans 62 MEMO: U.S. government, cash balance 63 Net borrowing by domestic nonfinancial. 64 Net borrowing by U.S. government	254.4 53.7 36.4 187.8 49.0 26.7 26.9 28.4 -7.1 553.9 193.7	273.8 50.4 83.0 223.1 81.6 61.1 52.0 82.9 6.3 744.5 192.5	324.2 136.4 125.4 242.2 82.5 38.3 52.8 44.0 14.4 831.9 209.3	393.5 30.8 195.2 308.6 54.4 72.3 26.4 56.1 *	330.4 34.5 173.8 311.9 40.7 1.9 33.2 61.6 -7.9 688.5 151.7	358.0 38.7 235.2 306.0 -3 -118.5 36.8 27.3 -34.9 586.9 196.6	342.2 33.1 130.0 345.2 52.4 33.8 52.3 79.4 77.7 674.0 67.6	287.3 32.7 185.1 294.9 61.4 23.6 36.9 48.7 -19.6 671.7 121.4	334.2 33.5 145.0 301.4 49.4 68.5 6.7 91.2 -54.7	363.6 24.8 192.8 237.4 34.8 14.2 25.7 56.4 60.9	172.3 32.6 183.5 301.2 59.4 89.1 41.7 3.3	335.7 44.4 164.1 322.0 43.3 -2.0 43.1 68.6 6.4 754.0 189.1
			F	External o	orporate	equity f	unds rais	ed in Un	ited State	es		
65 Total net share issues	58.1	-36.0	20.1	93.9	13.3	170.1	13.9	-47.1	-83.6	-73.7	-141.0	-70.3
66 Mutual funds	27.2 30.8 23.5 3.6 3.7	29.3 -65.3 -74.5 8.2 .9	84.4 -64.3 -81.5 13.5 3.7	161.8 -68.0 -80.7 11.5 1.3	72.3 -59.0 -76.5 19.9 -2.4	205.4 -35.3 -57.0 19.1 2.7	79.1 -65.2 -83.0 16.5 1.2	13.8 -60.9 -78.0 18.4 -1.3	-9.1 -74.6 -88.0 25.5 -12.0	5.0 -78.7 -95.0 17.0 7	-8.1 -132.9 -140.0 13.8 -6.7	6.0 -76.3 -92.0 13.6 2.1

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

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

							19	87	1988			
Transaction category, or sector	1983	1984	1985	1986	1987	QI	Q2	Q3	Q4	Q1	Q2	Q3
1 Total funds advanced in credit markets to domestic nonfinancial sectors	546.8	750.8	846.3	830.6	680.6	552.0	751.7	652.1	766.8	731.8	704.0	760.4
By public agencies and foreign		157.6	193.1	304.2	256.2	270.9	279.3	211.1	264.0	281.7	162.5	196.6
2 Total net advances 3 U.S. government securities. 4 Residential mort sages. 5 FHLB advances to savings and loans.	117.8 29.0	157.6 38.9	37.9	69.4	256.3 68.2	59.0	55.3	35.1	123.3	148.6	38.2	17.3
4 Residential mortgages	76.1	56.5	94.6	160.3	153.2	194.8	169.4	146.0	102.7	100.7	89.7 10.1	97.5
5 FHLB advances to savings and loans	-7.0 19.7	15.7 46.6	14.2 46.3	19.8   54.6	24.4 10.5	11.0 6.1	19.6 35.1	22.2 7.8	44.9 -6.8	5.4 27.0	24.5	26.6 55.3
Total advanced, by sector		17.1	16.0	0.7	,,,	0.5	12.2	24.1			10.1	١,
7 U.S. government Sponsored credit agencies Monetary authorities	9.7 69.8	17.1 74.3	16.8 95.5	9.7 177.3	-11.5 180.6	8.5 204.9	~12.3 177.0	-24.1 187.0	9 153.6	-8.9 123.3	-10.1 86.3	1. 119.
9 Monetary authorities	14.7	8.4	18.4	19.4	24.7	9.4	29.8	29.0	30.4	-5.5	4.1	17.
10 Foreign	23.7	57.9	62.3	97.8	62.5	65.1	84.8	19.1	81.0	172.9	82.2	58.
Agency and foreign borrowing not in line 1 Sponsored credit agencies and mortgage pools	67.8	74.9	101.5	178.1	185.8	193.5	196.8	185.5	167.5	137.4	84.7	140.
Foreign	17.3	8.4	1.2	9.6	4.3	-8.7	1	12.3	13.9	-1.0	4.9	9.
Private domestic funds advanced 13 Total net advances	514.2	676.4	756.0	714.1	614.5	465.9	669.1	638.7	684.2	586.5	631.2	713.
14 U.S. government securities	225.4	234.9	286.2	324.1	262.2	299.0	286.9	252.2	210.9	215.0	134.1	318.
5 State and local obligations	53.7	50.4	136.4	30.8	34.5	38.7	33.1	32.7	33.5	24.8	32.6	44.
6 Corporate and foreign bonds 7 Residential mortgages. 8 Other mortgages and loans	14.5 58.3	35.1 105.3	40.8 91.8	84.1 84.1	86.5 92.8	100.4 56.7	58.8 105.0	83.7 89.3	102.9 120.0	115.7 98.7	88.1 152.4	68. 146.
7 Residential mortgages	155.1	266.3	214.9	210.8	162.9	-18.0	204.8	203.0	261.7	137.7	234.1	162.
9 LESS: Federal Home Loan Bank advances	-7.0	15.7	14.2	19.8	24.4	11.0	19.6	22.2	44.9	5.4	10.1	26.
Private financial intermediation Of Credit market funds advanced by private financial												
institutions	394.7	581.0	569.8	746.3	564.9	521.5	549.7	639.7	548.5	674.9	615.7	606.
Commercial banking	144.3 135.6	168.9 150.2	186.3 83.0	194.8 105.5	136.3 140.4	-56.2 89.9	198.0 132.0	150.9 188.7	252.6 151.0	56.0 87.9	213.3 120.7	132. 166.
23 Insurance and pension funds	100.1	121.8	148.9	181.9	210.8	266.3	178.0	246.2	152.8	282.4	235.3	217.
23 Insurance and pension funds 24 Other finance	14.7	140.1	151.6	264.3	77.3	221.6	41.7	54.0	-7.9	248.6	46.5	90.
25 Sources of funds	394.7	581.0	569.8	746.5	564.9	521.5	549.7	639.7	548.5	674.9	615.7 127.3	606.
26 Private domestic deposits and RPs	210.4 31.4	321.9 73.8	210.6 96.7	264.7 119.1	146.2 117.2	-17.1 146.5	141.1 119.9	193.9 120.8	266.8 81.7	287.7 81.6	165.4	206. 108.
28 Other sources	152.9	185.3	262.5	362.7	301.4	392.1	288.6	325.0	200.0	305.6	323.0	291.
29 Foreign funds	14.6	8.8	19.7	12.9	43.7	14.9	35.1	99.5	25.2	-80.1	106.6	-39.
Treasury balances	-5.3 115.0	4.0 124.0	10.3 131.9	1.7 144.3	-5.8 175.0	-36.9 195.1	43.6 191.1	6.1 194.8	-36.1 118.9	53.3 247.6	-17.5 207.8	-1.   173.
Insurance and pension reserves	28.7	48.5	100.7	203.8	88.6	219.0	18.9	24.6	91.9	84.8	26.1	158.
Private domestic nonfinancial investors	150.9	169.2	282,9	86.7	166.8	90.9	239.3	119.8	217.3	-6.9	180.9	216.
33 Direct lending in credit markets	91.0	115.4	175.7	50.1	103.2	52.1	170.1	70.9	119.6	117.6	23.8	160.
5 State and local obligations	38.8	26.5	39.6	-13.6	46.1	27.8	58.1	42.4	56.0	1 15	29.7	39.
15 State and local obligations. 16 Corporate and foreign bonds 17 Open market paper	-8.3 12.4	8 4.0	2,4 45.6	32.6 -3.0	5.1 7.9	9.3	-58.6 64.2	28.3 -23.3	41.5 -7.5	-40.6 -65.6	52.7 77.7	-25. 40.
8 Other	17.0	24.2	19.6	20.7	4.6	3.6	5.6	1.6	7.7	-19.7	-3.0	2.
9 Deposits and currency	227.8	325.4	220.9	285.0	162.4	~46.6	149.2	229.3	317.6	282.7	134.9	256.
0 Currency	14.3 28.8	8.6 28.0	12.4 40.9	14.4 93.2	19.0 -2.4	9.4 ~98.7	12.5 40.3	17.3 34.5	36.8 14.4	8.2 4.2	11.9 21.5	17. 
Checkable deposits	215.4	150.7	138.4	120.6	75.9	31.3	69.3	79.9	123.1	195.1	125.5	102.
Money market fund shares	-39.0	49.0	8.9	41.5	28.2	14.4	2.4	32.7	63.3	59.1	-34.8	13.
4 Large time deposits	-8.3 13.5	84.3 10.0	7.7 14.6	-11.5 20.8	27.6 16.9	13.7 22.1	4.8 24.3	.2 46.6	91.6 -25.6	12.0 17.3	-7.6 22.7	92. 
6 Deposits in foreign countries	3.1	-5.1	-2.1	5.9	~2.8	-38.9	-4.4	18.1	13.9	-13.3	-4.3	33.
7 Total of credit market instruments, deposits, and currency	378.7	494.6	503.7	371.8	329.2	44.3	388.5	349.1	534.9	275.8	315.8	472.
8 Public holdings as percent of total	20.9	20.8	22.8	36.2	37.4	49.9	37.2	31.8	33.8	38.5	22.9	25.
Private financial intermediation (in percent)  Total foreign funds	76.8 38.2	85.9 66.7	75.4 82.0	104.5 110.7	91.9 106.2	112.0 80.0	82.2 119.9	100.2 118.7	80.2 106.2	115.1 92.8	97.6 188.9	85. 19.
MEMO: Corporate equities not included above	58.1	-36.0	20.1	93.9	13.3	170.1	13.9	-47.1	-83.6	-73.7	-141.0	-70.
52 Mutual fund shares	27.2	29.3	84.4	161.8	72.3	205.4	79.1	13.8	-9.1	5.0	-8.1	6.
53 Other equities	30.8	-65.3	-64.3	-68.0	-59.0	-35.3	-65.2	-60.9	-74.6	-78.7	-132.9	-76.
54 Acquisitions by financial institutions	50.4 7.7	15.8 -51.8	45.6 -25.5	48.5 45.4	22.6 -9.3	29.2 140.9	72.6 -58.7	5.2 -52.4	-16.5 -67.1	-33.0 -40.7	-10.1 -131.0	−9. −61.
55 Other net purchases	1 '.'	-31.8	-23.3	43.4	~y.5	140.9	-38.7	-32.4	-6/.1	-40./	-131.0	-61.

NOTES BY LINE NUMBER.
1. Line 1 of table 1.57.
2. Sum of lines 3-6 or 7-10.

- 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.

Sum of lines 10 and 29.
 Sum of lines 10 and 29.
 Sa. 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.

<sup>2.</sup> 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.

# A44 Domestic Financial Statistics April 1989

## 1.59 SUMMARY OF CREDIT MARKET DEBT OUTSTANDING

Billions of dollars; period-end levels.

	1983 1984 1985					19	87	1988			
Transaction category, sector			1985	1986	Q1	Q2	Q3	Q4	Q1	Q2	Q3
			<u>,</u>		Noni	financial se	ctors				
Total credit market debt owed by domestic nonfinancial sectors	5,204.3	5,953.7	6,797.0	7,618.1	7,725.8	7,917.4	8,074.1	8,301.3	8,444.3	8,629.8	8,817.3
By sector and instrument 2 U.S. government. 3 Treasury securities 4 Agency issues and mortgages	1,177.9 1,174.4 3.6	1,376.8 1,373.4 3.4	1,600.4 1,597.1 3.3	1,815.4 1,811.7 3.6	1,843.9 1,839.3 4.6	1,875.3 1,871.2 4.2	1,897.0 1,893.1 3.9	1,959.2 1,954.1 5.2	2,001.8 1,996.7 5.0	2,020.4 2,013.5 7.0	2,063.8 2,051.6 12.2
5 Private domestic nonfinancial sectors. 6 Debt capital instruments 7 Tax-exempt obligations 8 Corporate bonds 9 Mortgages 10 Home mortgages 11 Multifamily residential 12 Commercial 13 Farm	4,026.4 2,717.8 471.7 423.0 1,823.1 1,200.2 158.8 350.4 113.7	4,577.0 3,040.0 522.1 469.2 2,048.8 1,336.2 183.6 416.5 112.4	5,196.6 3,488.4 658.4 542.9 2,287.1 1,490.2 213.0 478.1 105.9	5,802.7 3,946.4 689.2 664.2 2,593.0 1,699.6 246.3 551.4 95.8	5,881.9 4,065.6 696.9 696.4 2,672.2 1,730.4 254.2 594.8 92.8	6,042.1 4,189.4 705.2 718.5 2,765.7 1,800.7 259.9 613.8 91.3	6,177.1 4,296.9 715.5 743.7 2,837.7 1,853.8 264.9 629.0 90.0	6,342.1 4,404.5 723.7 764.1 2,916.6 1,908.7 269.9 649.2 88.9	6,442.6 4,479.3 728.0 789.4 2,961.8 1,939.7 273.8 660.2 88.2	6,609.4 4,596.7 735.8 819.1 3,041.9 2,000.4 278.1 675.5 87.9	6,753.5 4,715.0 749.4 841.7 3,123.8 2,056.6 285.6 692.5 89.2
14 Other debt instruments 15 Consumer credit 16 Bank loans n.e.c. 17 Open market paper 18 Other	1,308.6 437.7 490.2 36.8 344.0	1,536.9 519.3 552.9 58.5 406.2	1,708.2 601.8 592.6 72.2 441.6	1,856.3 656.2 658.6 62.9 478.6	1,816.4 643.3 627.7 63.6 481.7	1,852.7 658.7 636.3 67.9 489.9	1,880.2 680.9 637.5 68.1 493.7	1,937.6 696.9 656.7 73.8 510.1	1,963.3 692.2 669.4 73.5 528.1	2,012.6 709.6 689.9 77.8 535.3	2,038.5 727.8 688.7 80.3 541.6
19         By borrowing sector           20         State and local governments           21         Households           22         Nonfinancial business           23         Farm           24         Nonfarm noncorporate           25         Corporate	4,026.4 357.7 1,811.6 1,857.1 188.4 645.8 1,022.9	4,577.0 385.1 2,038.2 2,153.7 187.9 769.0 1,196.8	5,196.6 476.9 2,314.5 2,405.2 173.4 898.3 1,333.5	5,802.7 520.2 2,594.2 2,688.3 156.6 1,025.9 1,505.8	5,881.9 527.5 2,605.4 2,749.0 149.9 1,053.8 1,545.3	6,042.1 535.3 2,691.2 2,815.7 150.2 1,084.3 1,581.2	6,177.1 546.2 2,762.8 2,868.1 148.5 1,106.7 1,612.9	6,342.1 554.7 2,836.6 2,950.9 144.9 1,141.7 1,664.3	6,442.6 558.3 2,866.2 3,018.1 141.5 1,165.2 1,711.5	6,609.4 565.7 2,945.7 3,097.9 144.0 1,186.0 1,767.8	6,753.5 578.5 3,016.4 3,158.5 145.0 1,211.9 1,801.6
26 Foreign credit market debt held in United States	227.3 64.2 37.4 21.5 104.1	235.1 68.0 30.8 27.7 108.6	236.7 71.8 27.9 33.9 103.0	238.2 74.8 26.9 37.4 99.1	236.7 75.1 26.0 37.3 98.3	236.8 74.6 25.4 35.6 101.2	238.9 75.9 24.2 40.6 98.2	244.3 81.6 23.3 41.2 98.1	245.1 85.4 22.8 42.5 94.4	246.3 85.2 22.4 44.0 94.7	247.8 86.7 22.0 46.3 92.8
31 Total domestic plus foreign	5,431.6	6,188.8	7,033.7	7,856.3	7,962.5	8,154.2	8,313.1	8,545.6	8,689.4	8,876.1	9,065.1
					Fir	nancia) sect	ors				
32 Total credit market debt owed by financial sectors	857.9	1,006.2	1,206.2	1,510.8	1,621.8	1,710.0	1,783.8	1,862.6	1,903.8	1,972.6	2,035.7
By instrument 33 U.S. government related 34 Sponsored credit agency securities 35 Mortgage pool securities 36 Loans from U.S. government 37 Private financial sectors 38 Corporate bonds 39 Mortgages 40 Bank loans n.e.c. 41 Open market paper 42 Loans from Federal Home Loan Banks.	456.7 206.8 244.9 5.0 401.2 115.8 2.1 28.9 195.5 59.0	531.2 237.2 289.0 5.0 475.0 148.9 2.5 29.5 219.5 74.6	632.7 257.8 368.9 6.1 573.4 197.5 2.7 32.1 252.4 88.8	810.3 273.0 531.6 5.7 700.5 268.4 2.7 36.1 284.6 108.6	887.1 268.4 613.7 5.0 734.8 293.4 2.8 36.5 295.2 106.8	937.1 275.8 656.4 5.0 772.9 304.6 2.9 40.1 311.1 114.3	981.6 283.7 692.9 5.0 802.1 324.2 2.9 42.2 312.7 120.1	1,026.5 303.2 718.3 5.0 836.1 335.5 3.0 40.8 323.8 133.1	1,054.8 313.5 736.3 5.0 849.0 353.2 3.1 31.7 331.5 129.5	1,076.9 317.9 754.0 5.0 895.7 370.0 3.1 34.3 353.4 134.8	1,113.7 328.5 780.2 5.0 922.0 386.8 3.1 33.9 356.8 141.6
43 Total, by sector	857.9	1,006.2	1,206.2	1,510.8	1,621.8	1,710.0	1,783.8	1,862.6	1,903.8	1,972.6	2,035.7
44 Sponsored credit agencies 45 Mortgage pools 46 Private financial sectors 47 Commercial banks 48 Bank affiliates 49 Savings and loan associations 50 Finance companies 51 REITs 52 CMO issuers	211.8 244.9 401.2 76.8 71.0 73.9 171.7 3.5 4.2	242.2 289.0 475.0 84.1 86.6 93.2 193.2 4.3 13.5	263.9 368.9 573.4 79.2 101.2 115.5 246.9 5.6 25.0	278.7 531.6 700.5 75.6 101.3 145.1 308.1 6.5 64.0	273.4 613.7 734.8 76.1 109.0 146.6 315.4 7.0 80.7	280.7 656.4 772.9 80.7 108.7 157.0 328.8 6.8 90.9	288.7 692.9 802.1 78.6 109.5 165.4 339.9 7.3 101.6	308.2 718.3 836.1 82.7 104.2 181.1 357.0 8.1 103.1	318.5 736.3 849.0 76.4 104.4 177.4 368.3 8.7 113.9	322.9 754.0 895.7 77.2 106.5 187.3 393.8 9.1 121.7	333.5 780.2 922.0 75.4 105.8 198.0 406.3 9.6 127.0
						All sectors					
53 Total credit market debt	6,289.5	7,195.0	8,239.8	9,367.2	9,584.3	9,864.2	10,096.9	10,408.1	10,593.3	10,848.6	11,100.8
54 U.S. government securities. 55 State and local obligations. 56 Corporate and foreign bonds 57 Mortgages. 58 Consumer credit 59 Bank loans n.e.c. 60 Open market paper. 61 Other loans.	1,629.4 471.7 603.0 1,825.4 437.7 556.5 253.8 512.1	1,902.8 522.1 686.0 2,051.4 519.3 613.2 305.7 594.4	2,227.0 658.4 812.1 2,289.8 601.8 652.6 358.5 639.5	2,620.0 689.2 1,007.4 2,595.8 656.2 721.6 384.9 692.0	2,726.0 696.9 1,064.9 2,675.1 643.3 690.3 396.1 691.8	2,807.4 705.2 1,097.7 2,768.6 658.7 701.7 414.6 710.4	2,873.7 715.5 1,143.9 2,840.6 680.9 703.8 421.4 717.0	2,980.7 723.7 1,181.2 2,919.7 696.9 720.8 438.8 746.3	3,051.6 728.0 1,228.1 2,964.9 692.2 723.9 447.5 757.0	3,092.3 735.8 1,274.2 3,045.0 709.6 746.6 475.3 769.8	3,172.5 749.4 1,315.2 3,127.0 727.8 744.6 483.4 780.9

#### 1.60 SUMMARY OF CREDIT MARKET CLAIMS, BY HOLDER

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

	1000	1024	1005	1096		19	87	1988			
Transaction category, or sector	1983	1984	1985	1986	Qı	Q2	Q3	Q4	QΙ	Q2	Q3
1 Total funds advanced in credit markets to domestic nonfinancial sectors	5,204.3	5,953.7	6,797.0	7,618.1	7,725.8	7,917.4	8,074.1	8,301.3	8,444.3	8,629.8	8,817.3
By public agencies and foreign   2 Total held	1,101.7	1,259.2	1,459.4	1,759.3	1,847.6	1,918.0	1,967.0	2,037.8	2,098.6	2,144.4	2,192.8
	339.0	377.9	421.8	491.2	502.3	519.5	525.6	559.4	592.7	606.1	607.1
	367.0	423.5	518.2	678.5	758.9	800.0	834.6	862.0	884.8	906.1	932.2
	59.0	74.6	88.8	108.6	106.8	114.3	120.1	133.1	129.5	134.8	141.6
	336.8	383.1	430.6	481.0	479.6	484.3	486.8	483.4	491.5	497.4	511.9
7 Total held, by type of lender 8 U.S. government 9 Sponsored credit agencies and mortgage pools	1,101.7	1,259.2	1,459.4	1,759.3	1,847.6	1,918.0	1,967.0	2,037.8	2,098.6	2,144.4	2,192.8
	212.8	229.7	247.6	254.3	249.2	242.9	237.1	235.4	233.7	232.0	232.6
	482.0	556.3	657.8	833.9	912.0	957.9	1,003.7	1,044.1	1,068.2	1,091.6	1,124.2
	159.2	167.6	186.0	205.5	204.1	214.9	219.6	230.1	224.9	229.7	230.8
	247.7	305.6	367.9	465.7	482.3	502.3	506.7	528.2	571.8	591.1	605.3
Agency and foreign debt not in line 1  Sponsored credit agencies and mortgage pools  Foreign	456.7	531.2	632.7	810.3	887.1	937.1	981.6	1,026.5	1,054.8	1,076.9	1,113.7
	227.3	235.1	236.7	238.2	236.7	236.8	238.9	244.3	245.1	246.3	247.8
Private domestic holdings 14 Total private holdings 15 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	4,786.6	5,460.8	6,207.0	6,907.3	7,002.0	7,173.2	7,327.7	7,534.2	7,645.7	7,808.6	7,985.9
	1,290.4	1,524.9	1,805.2	2,128.7	2,223.7	2,287.9	2,348.1	2,421.3	2,458.9	2,486.3	2,565.3
	471.7	522.1	658.4	689.2	696.9	705.2	715.5	723.7	728.0	735.8	749.4
	441.7	476.8	517.6	601.7	626.0	642.4	663.4	688.1	716.3	740.1	757.3
	992.2	1,096.5	1,185.1	1,267.4	1,225.8	1,260.6	1,284.2	1,316.7	1,328.7	1,372.4	1,410.0
	1,649.6	1,915.2	2,129.5	2,328.9	2,336.4	2,391.5	2,436.6	2,517.4	2,543.3	2,608.9	2,645.5
	59.0	74.6	88.8	108.6	106.8	114.3	120.1	133.1	129.5	134.8	141.6
Private financial intermediation 21 Credit market claims held by private financial institutions. 22 Commercial banking 23 Savings institutions 24 Insurance and pension funds 25 Other finance.	4,111.2	4,691.0	5,264.4	6,009.5	6,126.1	6,277.5	6,433.5	6,585.2	6,723.0	6,892.6	7,042.6
	1,622.1	1,791.1	1,978.5	2,173.2	2,155.9	2,207.9	2,248.7	2,309.6	2,322.1	2,377.5	2,414.3
	944.0	1,092.8	1,178.4	1,283.0	1,308.4	1,355.4	1,396.5	1,434.2	1,440.3	1,486.8	1,523.4
	1,093.5	1,215.3	1,364.2	1,546.0	1,608.7	1,652.6	1,715.3	1,756.9	1,823.0	1,880.9	1,937.2
	451.6	591.7	743.4	1,007.3	1,053.1	1,061.5	1,073.0	1,084.6	1,137.6	1,147.5	1,167.7
26 Sources of funds	4,111.2	4,691.0	5,264.4	6,009.5	6,126.1	6,277.5	6,433.5	6,585.2	6,723.0	6,892.6	7,042.6
	2,389.8	2,711.5	2,922.1	3,182.6	3,165.0	3,198.6	3,234.4	3,328.8	3,385.7	3,417.0	3,455.1
	401.2	475.0	573.4	700.5	734.8	772.9	802.1	836.1	849.0	895.7	922.0
29         Other sources           30         Foreign funds           31         Treasury balances           32         Insurance and pension reserves           33         Other, net	1,320.2	1,504.5	1,768.9	2,126.4	2,226.3	2,305.9	2,397.0	2,420.4	2,488.4	2,579.9	2,665.6
	-23.0	-14.1	5.6	18.6	26.7	26.1	52.7	62.2	45.9	62.3	54.8
	11.5	15.5	25.8	27.5	8.6	30.9	33.0	21.6	23.5	32.6	31.5
	1,036.1	1,160.8	1,289.5	1,427.9	1,461.8	1,507.5	1,552.8	1,592.2	1,656.3	1,706.7	1,751.9
	295.6	342.2	448.0	652.5	729.2	741.4	758.5	744.3	762.8	778.3	827.4
Private domestic nonfinancial 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	1,076.6	1,244.8	1,516.0	1,598.3	1,610.7	1,668.7	1,696.3	1,785.0	1,771.6	1,811.6	1,865.3
	548.6	663.6	830.7	881.2	912.0	950.4	969.4	1,014.7	1,025.7	1,027.0	1,071.4
	170.0	196.3	235.9	222.3	226.2	243.1	255.9	268.4	265.6	275.3	287.3
	45.4	44.5	47.6	80.1	88.8	71.4	80.6	85.3	82.7	93.0	88.4
	68.4	72.4	118.0	115.0	115.5	132.6	118.7	143.5	127.8	148.5	149.6
	244.3	268.0	283.8	299.7	268.1	271.2	271.9	273.2	269.9	267.9	268.5
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.	2,566.4	2,891.7	3,112.5	3,393.4	3,364.7	3,405.6	3,444.5	3,555.7	3,607.4	3,646.4	3,690.7
	150.9	159.6	171.9	186.3	185.3	191.3	192.4	205.4	204.0	209.9	210.7
	350.9	378.8	419.7	512.9	468.5	488.0	487.2	510.5	491.1	506.8	497.3
	1,542.9	1,693.5	1,831.9	1,948.3	1,965.2	1,977.7	1,990.8	2,024.2	2,079.4	2,107.9	2,126.8
	169.5	218.5	227.3	268.9	281.3	279.5	286.4	297.1	322.1	310.4	311.1
	247.7	332.1	339.8	328.4	323.4	322.5	326.3	356.0	351.0	346.1	372.4
	78.8	88.7	103.3	124.1	126.6	130.9	143.6	141.0	142.1	145.9	147.4
	25.7	20.6	18.5	24.5	14.4	15.7	17.8	21.6	17.8	19.4	25.0
48 Total of credit market instruments, deposits, and currency	3,643.0	4,136.5	4,628.5	4,991.7	4,975.4	5,074.2	5,140.8	5,340.8	5,379.0	5,458.0	5,556.1
49 Public holdings as percent of total	20.3	20.3	20.7	22.4	23.2	23.5	23.7	23.8	24.2	24.2	24.2
	85.9	85.9	84.8	87.0	87.5	87.5	87.8	87.4	87.9	88.3	88.2
	224.7	291.5	373.5	484.2	509.0	528.4	559.4	590.5	617.6	653.4	660.0
MEMO: Corporate equities not included above 52 Total market value	2,134.0	2,158.2	2,824.5	3,362.0	3,990.2	4,110.0	4,300.8	3,313.4	3,494.8	3,612.6	3,577.5
53 Mutual fund shares	112.1	136.7	240.2	413.5	485.2	520.7	525.1	460.1	479.2	486.8	483.9
	2,021.9	2,021.5	2,584.3	2,948.5	3,505.0	3,589.3	3,775.7	2,853.2	3,015.7	3,125.9	3,093.6
55 Holdings by financial institutions	612.0	615.6	800.0	972.2	1,175.7	1,238.9	1,312.5	1,021.7	1,087.1	1,133.8	1,133.0
	1,522.0	1,542.6	2,024.5	2,389.8	2,814.5	2,871.1	2,988.4	2,291.7	2,407.7	2,478.9	2,444.4

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 less line 2 plus line 12 and 13. Also line 21 less line 28 plus line 34. Also sum of lines 29 and 48 less lines 41 and 47.
19. Includes farm and commercial mortgages.
27. Line 40 less lines 41 and 47.
28. Excludes equity issues and investment company shares. Includes line 20.
30. Foreign deposits at commercial 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.

<sup>32.</sup> 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.

## Domestic Nonfinancial Statistics April 1989

#### 2.10 NONFINANCIAL BUSINESS ACTIVITY Selected Measures<sup>1</sup>

1977 = 100; monthly and quarterly data are seasonally adjusted. Exceptions noted.

Measure	1986	1987	1988	1988										
	1960			May	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.'	Jan.		
1 Industrial production	125.1	129.8	137.2	136.1	136.5	138.0	138.5	138.6	139.4	139.9	140.6	141.1		
Market groupings 2 Products, total 3 Final, total 4 Consumer goods 5 Equipment 6 Intermediate. 7 Materials.	133.3 132.5 124.0 143.6 136.2 113.8	138.3 136.8 127.7 148.8 143.5 118.2	145,9 144,3 133,9 158,2 151,5 125,3	145.0 143.5 132.7 157.7 150.4 123.9	145.3 144.0 133.0 158.5 150.0 124.5	146.5 145.0 134.2 159.4 151.6 126.4	147.3 145.8 135.0 160.1 152.3 126.5	147.4 145.8 134.8 160.4 152.9 126.5	148.1 146.4 136.4 159.7 154.0 127.5	148.3 146.7 136.7 159.9 154.2 128.3	149.4 147.6 138.0 160.3 155.4 128.7	150.1 148.2 138.9 160.5 156.8 128.7		
Industry groupings 8 Manufacturing	129.1	134.6	142.8	141.8	142.1	143.6	144.0	144.4	145.3	145.9	146.6	147.4		
Capacity utilization (percent) <sup>2</sup> 9 Manufacturing	79.7 78.6	81.1 80.5 164.0	83.5 83.7	83.3 83.0 166.0	83.3 83.2 169.0 <sup>r</sup>	84.0 84.4 160.0°	84.0 84.3 162.0 <sup>r</sup>	84.0 84.1 157.0°	84.3 84.7 164.0	84.4 85.0 158.0	84.6 85.2 163.0	84.8 85.0 155.0		
12 Nonagricultural employment, total <sup>4</sup> 13 Goods-producing, total 14 Manufacturing, total 15 Manufacturing, production-worker 16 Service-producing. 17 Personal income, total 18 Wages and salary disbursements 19 Manufacturing 20 Disposable personal income <sup>5</sup> 21 Retail sales <sup>5</sup>	120.7 100.9 96.3 91.2 129.0 219.7 210.7 177.4 218.9 199.5	124.1 101.8 96.8 92.1 133.4 235.1 226.2 183.8 232.7 209.3	128.6 105.0 99.2 94.3 138.5 252.8 245.2 196.0 251.8 222.9	127.9 104.6 99.0 94.1 137.7 250.2 242.3 193.8 249.5 221.2	128.6 105.1 99.3 94.4 138.4 251.6 244.2 195.4 251.2 222.5	128.9 105.4 99.5 94.6 138.7 253.5' 246.7 196.6 253.1 223.7	129.1 105.3 99.4 94.4 139.0 254.5 247.4 196.8 254.2 224.4	129.4 105.4 99.3 94.3 139.5 256.0 249.0 198.1 255.6 223.7	129.7 105.8 99.8 94.9 139.8 259.9 252.3 202.3 259.7 227.4	130.3 106.2 100.1 95.2 140.3 259.4 253.2 201.3 259.0 230.3	130.5 106.4 100.3 95.3 140.6 261.8 201.2 261.5 230.1	131.0 107.0 100.5 95.7 141.1 266.4 257.8 202.8 265.9 231.4		
Prices <sup>7</sup> 22 Consumer (1982-84 = 100)	109.6 103.2	113.6 105.4	118.3 108.0	117.5 107.5	118.0 107.7'	118.5 108.6	119.0 108.7	119.8 108.6	120.2 109.3	120.3 109.7	120.5 110.0	121.1 111.0		

<sup>1.</sup> A major revision of the industrial production index and the capacity utilization rates was released in July 1985. See "A Revision of the Index of Industrial Production" and accompanying tables that contain revised indexes (1977=100) through December 1984 in the FEDERAL RESERVE BULLETIN, vol. 71 (July 1985), pp. 487-501. The revised indexes for January through June 1985 were shown in the September BULLETIN.

2. Ratios of indexes of production to indexes of capacity. Based on data from Federal Reserve, McGraw-Hill Economics Department, Department of Competers and other sources.

Pederal Reserve, McGraw-fill 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.

<sup>5.</sup> Based on data in Survey of Current Business (U.S. Department of Com-

Based on Bureau of Census data published in Survey of Current Business.
 Data without seasonal adjustment, as published in Monthly Labor Review.
 Seasonally adjusted data for changes in the price indexes may be obtained from the Bureau of Labor Statistics, U.S. Department of Labor.

NOTE. Basic data (not index numbers) for series mentioned in notes 4, 5, and 6, and indexes for series mentioned in notes 3 and 7 may also be found in the Survey of Current Business.

Figures for industrial production for the last two months are preliminary and estimated, respectively.

#### 2.11 LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

Thousands of persons; monthly data are seasonally adjusted. Exceptions noted.

	1000	1987	1988	1988									
Category	1986			June	July	Aug.	Sept.	Oct.	Nov."	Dec.'	Jan.		
Household Survey Data													
1 Noninstitutional population <sup>1</sup>	182,822	185,010	186,837	186,755	186,911	187,033	187,178	187,333	187,471	187,618	187,859		
Labor force (including Armed Forces)     Civilian labor force      Employment	120,078 117,834	122,122 119,865	123,893 121,669	123,717 121,524	123,840 121,658	124,203 122,000	124,200 121,984	124,310 122,091	124,737 122,510	124,779 122,563	125,643 123,428		
4 Nonagricultural industries <sup>2</sup>	106,434 3,163	109,232 3,208	111,800 3,169	111,880 3,121	111,974 3,060	112,061 3,142	112,194 3,176	112,335 3,238	112,709 3,238	112,816 3,193	113,411 3,300		
6 Number	8,237 7.0 62,744	7,425 6.2 62,888	6,701 5.5 62,944	6,523 5.4 63,038	6,624 5.4 63,071	6,797 5.6 62,830	6,614 5.4 62,978	6,518 5.3 63,023	6,563 5.4 62,734	6,554 5.3 62,839	6,716 5.4 62,216		
ESTABLISHMENT SURVEY DATA			<u> </u> 										
9 Nonagricultural payroll employment <sup>3</sup>	99,525	102,310	106,039	106,057	106,271	106,425	106,737	196,973	107,419	107,640	108,048		
10 Manufacturing 11 Mining 12 Contract construction 13 Transportation and public utilities 14 Trade 15 Finance 16 Service 17 Government	4.816	19,065 721 4,998 5,385 24,381 6,549 24,196 17,015	19,536 733 5,294 5,584 25,362 6,679 25,464 17,387	19,544 740 5,308 5,582 25,353 6,679 25,472 17,379	19,593 740 5,330 5,598 25,435 6,684 25,561 17,330	19,560 739 5,340 5,605 25,471 6,689 25,662 17,359	19,549 734 5,365 5,618 25,510 6,692 25,737 17,532	19,648 729 5,366 5,631 25,573 6,708 25,826 17,492	19,714 722 5,413 5,658 25,676 6,725 25,947 17,564	19,737 719 5,436 5,667 25,727 6,743 26,065 17,546	19,783 719 5,538 5,713 25,893 6,735 26,139 17,528		

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).
 Includes self-employed, unpaid family, and domestic service workers.

<sup>3.</sup> 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 April 1989

# 2.12 OUTPUT, CAPACITY, AND CAPACITY UTILIZATION<sup>1</sup>

Seasonally adjusted

Series				19	88			19	88		1	19	88	
Senes			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Qı	Q2	Q3	Q4'
				Output (19	977 = 100)	)	Capac	ity (percer	t of 1977	output)	U	tilization r	ate (perce	nt)
l Total industry			134.5	136.0	138.2	139.8	163.1	164.2	165.2	166.2	82.4	82.8	83.8	84.2
2 Mining			102.5 114.7	103.3 111.7	104.8 114.9	103.9 114.6	127.7 139.8	127.0 140.1	126.2 140.4	125.5 140.7	80.3 82.0	81.5 79.9	82.3 81.9	82.8 80.8
4 Manufacturing			139.6	141.6	143.7	145.7	168.9	170.2	171.5	172.7	82.7	83.2	84.0	84.4
5 Primary processing 6 Advanced processing			123.0 149.7	123.9 152.3	125.7 154.5	127.9 156.4	141.6 185.6	142.7 186.7	143.9 188.1	145.1 189.4	86.9 80.7	86.8 81.5	87.5 82.4	88.2 82.7
7 Materials			122.5	124,0	126.6	128.1	148.5	149.3	150.1	150.9	82.5	83.0	84.3	85.0
9 Metal materials	Metal materials Nondurable goods Textile, paper, and chemical Paper				136.9 92.4 132.4 135.1	139.3 94.8 135.5 138.3	165.7 108.8 146.8 146.7 147.6 153.5	166.8 109.1 148.3 148.5 149.2 155.4	167.9 109.4 149.8 150.2	169.0 109.7 151.4 152.0	79.4 79.2 88.1 89.7 98.7 87.0	80.4 80.8 87.9 89.2 97.8 87.3	81.6 84.8 88.7 90.0 98.8 88.6	82.6 86.9 89.6 91.2 97.4 90.8
14 Energy materials			100.9	100.4	103.5	102.0	119.7	119.4	119.1	118.8	84.3	84.2	86.0	85.8
5	Previou	is cycle <sup>2</sup>	Latest	cycle <sup>3</sup>	1988				19	88		-		1989
	High	Low	High	Low	Jan.	May	June	July	Aug.	Sept.	Oct.'	Nov.'	Dec.'	Jan.
						Capaci	ty utilizat	ion rate (p	ercent)					
15 Total industry	88.6	72.1	86.9	69.5	82.5	82.9	83.0	83.7	83.8	83.7	84.0	84.1	84.4	84.4
16 Mining	92.8 95.6	87.8 82.9	95.2 88.5	76.9 78.0	80.7 82.4	80.8 79.7	81.2 80.8	82.5 81.5	82.2 83.9	82.3 <sup>r</sup> 80.4 <sup>r</sup>	81.9 81.0	83.1 80.4	83.3 81.0	82.5 80.4
18 Manufacturing	87.7	69.9	86.5	68.0	82.7	83.3	83.3	84.0	84.0	84.0	84.3	84.4	84.6	84.8
19 Primary processing 20 Advanced processing	91.9 86.0	68.3 71.1	89.1 85.1	65.0 69.5	87.1 80.7	87.0 81.7	86.6 81.7	87.8 82.2	87.4 82.4	87.2 82.4	87.9 82.6	88.1 82.6	88.6 82.9	89.1 83.0
21 Materials	92.0	70.5	89.1	68.5	83.0	83.0	83.2	84.4	84.3	84.1	84.7	85.0	85.2	85.0
22 Durable goods	91.8 99.2	64.4 67.1	89.8 93.6	60.9 45.7	79.7 80.1	80.8 82.1	80.7 80.8	81.7 84.9	81.4 83.4	81.9 86.0	82.4 87.3	82.7 87.1	82.6 86.3	83.0 87.6
24 Nondurable goods	91.1	66.7	88.1	70.7	88.8	87.7	87.4	88.9	88.8	88.2	89.3	89.4	90.2	90.1
25 Textile, paper, and chemical	92.8 98.4 92.5	64.8 70.6 64.4	89.4 97.3 87.9	68.8 79.9 63.5	90.8 100.6 87.8	88.8 98.1 86.9	88.9 97.1 87.0	90.4 100.0 88.8	90.3 98.4 89.0	89.4 97.9 88.0	90.9 97.8 90.2	90.9 96.6 90.5	91.7 97.8 91.7	91.6
28 Energy materials	94.6	86.9	94.0	82.3	84.7	83.3	84.4	86.2	86.6	85.3	85.3	86.1	86.1	84.6

<sup>1.</sup> These data also appear in the Board's G.3 (402) release. For address, see inside front cover.

Monthly high 1973; monthly low 1975.
 Monthly highs 1978 through 1980; monthly lows 1982.

# 2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value<sup>1</sup> Monthly data are seasonally adjusted

_	Worthly data are seasonally adju														-	
	Groups	1977 pro-	1987	1987						1988	r	<del></del>	, ···			1989
		por- tion	avg.	Dec.	Feb.	Mar.	Арг.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p	Jan.e
_									Index	(1977 =	= 100)					
	MAJOR MARKET												<u> </u>			
1	Total index	100.00	129.8	133.9	134.4	134.7	135.4	136.1	136.5	138.0	138.5	138.6	139.4	139.9	140.6	141.1
2	Products	57.72 44.77	138.3 136.8	141.3 139.8	143.4 141.6	143.6 141.8	144.1 142.5	145.0 143.5	145.3 144.0	146.5 145.0	147.3 145.8	147.4 145.8	148.1 146.4	148.3 146.7	149.4 147.6	150.1 148.2
3 4 5	Consumer goods	25.52 19.25	127.7 148.8	129.8 129.8 153.1	131.3 155.3	131.2 155.9	131.9 156.5	132.7 157.7	133.0	134.2 159.4	135.0 160.1	134.8	136.4 159.7	136.7 159.9	138.0	138.9 160.5
6 7	Intermediate products	12.94 42.28	143.4 118.2	146.5 123.7	149.4 122.1	149.9 122.5	149.6 123.6	150.4 123.9	150.0 124.5	151.6 126.4	152.3 126.5	152.9 126.5	154.0 127.5	154.2 128.3	155.4 128.7	156.8 128.7
8	Consumer goods Durable consumer goods	6.89	120.2	120.3	120.6	120.4	123.3	125.6	125.3	125.3	125,7	126.3	129.3	129.2	132.1	132.2
9 10	Automotive products	2.98 1.79	118.5 115.1	115.4 110.2	117.6 111.8	120.6 116.4	121.9 118.0	127.1 126.9	127.1 125.3	124.4 120.8	124.2 123.1	126.4 124.8	128.9 128.3	129.5 129.5	134.8 138.0	134.6 137.2
11 12 13	Autos, consumer	1.16 .63 1.19	90.7 160.5 123.5	83.7 159.5 123.3	79.5 171.6 126.4	86.3 172.2 126.9	91.0 168.2 127.8	98.9 178.9 127.4	99.0 174.1 129.7	93.8 170.8 129.9	93.0 179.0 125.9	97.7 175.3 128.8	101.3 178.4 129.8	101.0 182.4 129.5	105.1 199.1 130.0	99.6
14 15	Auto parts and allied goods	3.91 1.24	121.6 141.5	123.9 142.7	122.8 140.6	120.2 132.8	124.3 143.2	124.4 142.2	123.9 138.0	125.9 143.3	126.8 146.5	126.2 144.9	129.7 154.4	128.9	130.0 151.5	130.4 149.9
16 17	Appliances and TV	1.19	142.1 130.7	142.6 133.9	141.4 132.3	132.7 133.1	142.2 133.1	143.0 135.8	137.1 135.9	143.8 136.6	146.1 137.2	143.7	151.9 138.8	148.9 139.8	150.5 140.9	
18 19	· ·	1.71	102.0	104.8	104.7	103.9	105.7	105.2 135.4	107.0	107.4	106.8	106.6	106.7	107.3	108.4	141.3
20	Consumer staples	15.29 7.80	137.3 136.2	140.7 139.2	142.9 140.8	142.5 139.4	142.5 138.3	143.1 139.2	143.5 139.3	145.3 141.1	146.6 141.3	145.8 141.1	147.0 142.4	147.6 143.6	148.6 144.4	149.6
21 22 23 24 25	Nonfood staples Consumer chemical products	7.49 2.75 1.88	138.5 162.9	142.2 167.7	145.0 171.7	145.7 172.7 159.1	146.8 175.6	147.0	147.9	149.6 181.8 164.0	152.1	150.7	151.8 186.1 167.1	151.8 185.2 167.8	152.9 186.1	154.1
25 25 26	Consumer paper products  Consumer energy  Consumer fuel	2.86 1.44	151.8 106.3 93.1	157.0 108.0 95.4	157.5 111.3 97.0	111.0 97.9	161.4 109.6 98.9	162.4 107.3 94.3	162.8 107.7 93.0	109.3	165.3 113.0 95.5	166.3 107.6 92.7	108.9	109.2	168.3 110.9 96.3	
26 27		1.42	119.8	120.7	125.8	124.5	120.5	120.6	122.6	124.4	130.9	122.8	122.7	124.5		
28 29	Equipment Business and defense equipment Business equipment	18.01 14.34	153.6 144.5	157.8 149.8	160.3 152.4	160.8 153.3	161.4 154.6	162.7 156.9	163.5 158.1	164.6 159.3	165.2 160.2	165.6 160.8	165.1 160.2	165.5 161.2	166.2 162.0	166.4 162.5
30 31	Construction, mining, and farm Manufacturing.	2.08 3.27	62.2 117.9	67.4 122.2	67.6 124.9	68.3 127.0	70.8 127.7	71.8 128.3	72.4 130.3	73.6 132.4	73.1	74.3 135.8	74.2 136.2	74.5 136.6	75.2	75.2 138.3
32 33	Power	1.27 5.22	82.6 226.5	84.2 235.5	88.3 240.3	87.8 239.9	87.0 241.5	87.4 245.7	88.3 247.1	89.8 248.2	90.9 249.8	92.2 248.7	91.5 245.4	92.1 246.8	92.3 247.3	92.9 248.3
34 35	Transit  Defense and space equipment	2.49 3.67	108.4 188.9	109.1 188.9	108.2 191.0	111.1 189.9	112.3 187.9	115.3 185.5	115.7 184.6	115.9 184.9	115.2 184.9	116.8 184.5	120.3 184.0	121.9 182.5	124.5 182.3	123.1 181.9
36		5.95	131.5	133.8	137.7	137.3	137.6	138.8	137.6	138.4	138.1	138.4	140.0	141.0	141.4	143.4
37 38 39	General business supplies	6.99 5.67 1.31	153.5 158.6 131.1	157.4 163.3 131.8	159.4 165.0 135.3	160.7 166.6 135.3	159.9 165.7 134.6	160.3 165.5 137.8	160.6 165.9 137.5	162.8 168.6 137.6	164.4 170.6 137.7	165.2 171.8 136.7	165.9 172.3 138.2	165.4 172.7 133.7	167.2 174.1 137.6	
	Materials											ĺ	:			
40 41 42		20.50 4.92 5.94	125.0 100.9 159.0	132.0 104.6 165.3	131.4 104.4 167.6	131.3 103.5 167.3	132.7 106.2 168.9	134.8 110.0 170.8	134.9 110.3 171.6	136.8 110.1 174.1	136.6 109.8 173.5	137.8 111.0 174.0	138.9 111.4 174.9	139.8 113.9 175.0	139.9 113.7 174.9	140.8 113.7 175.2
43 44	Durable materials n.e.c.  Basic metal materials	9.64 4.64	116.4 86.7	125.5 100.0	123.0 91.4	123.4 90.5	124.0 91.6	125,3 94.8	124.8	127.5 98.4	127.6 97.3	129.2	130.8 101.1	131.2 101.6	131.7 101.5	133.5 103.3
45 46	Nondurable goods materials Textile, paper, and chemical	10.09	125.8	132.5	128.1	130.1	131.1	130.1	130.1	132.8	133.1	132.6	134.7	135.1	136.8	137.1
47	materials	7.53 1.52	127.6 111.7	135.6 113.6	129.9 110.2	132.4 112.7	133,3 111.9	131.9 107.5	132.1 107.5	135.3 108.5	135.7 110.1	134.9 109.2	137.4 109.5	137.9 110.1	139.7 109.5	140.0
48 49 50	Chemical materials	1.55 4.46 2.57	141.0 128.4 120.4	149.0 138.4 123.3	144.4 131.5 123.0	144.8 134.8 123.2	145.8 136.2 124.6	146.4 135.1 125.1	145.4 135.8 124.2	150.3 139.2 125.6	148.3 140.0 125.6	148.1 139.0 125.9	148.4 143.1 126.6	147.1 144.2 126.9	149.4 146.7	
51	Energy materials	11.69	99.8	101.7	100.6	100.6	101.0	99.5	101.3	102.7	103.2	101.5	101.3	102.2	102.1	100.2
52 53	Primary energy	7.57 4.12	105.0 90.3	107.7 90.7	104.8 93.0	105.0 92.6	106.7 90.5	104.0 91.2	105.6 93.5	106.8 95.3	106.2 97.7	91.8	106.0 92.6	108.6 90.5	108.3 90.6	

# A50 Domestic Nonfinancial Statistics April 1989

### 2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value<sup>1</sup>—Continued

	SIC	1977	1987	1987		•				1988						1989
Groups	code	propor- tion	avg.	Dec.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p	Jan.
							·		Index	(1977 =	100)					
Major Industry							i						!			
1 Mining and utilities. 2 Mining. 3 Utilities. 4 Manufacturing. 5 Nondurable. 6 Durable.		15.79 9.83 5.96 84.21 35.11 49.10	104.3 100.7 110.3 134.6 136.7 133.1	107.3 104.6 111.7 138.9 141.3 137.3	106.8 101.5 115.6 139.5 141.1 138.4	106.7 102.7 113.3 140.0 141.7 138.8	107.1 104.7 111.0 140.8 142.3 139.7	106.0 102.6 111.6 141.8 142.1 141.5	106.8 103.0 113.2 142.1 142.6 141.7	108.1 104.3 114.4 143.6 144.6 142.9	109.0 103.8 117.8 144.0 145.1 143.2	107.2 103.7 113.0 144.4 145.3 143.8	107.2 103.1 113.9 145.3 146.3 144.6	107.7 104.5 113.1 145.9 146.7 145.2	108.2 104.5 114.1 146.6 147.6 146.0	107.1 103.3 113.2 147.4 148.6 146.5
Mining 7 Metal 8 Coal 9 Oil and gas extraction 10 Stone and earth minerals	10 11.12 13 14	.50 1.60 7.07 .66	77.5 131.8 92.7 128.2	96.5 140.6 94.1 135.6	83.9 133.7 92.4 134.3	84.9 129.1 94.8 136.9	86.9 136.0 95.5 141.2	86.0 127.8 94.6 140.1	82.2 126.9 95.8 137.4	94.0 141.5 93.3 140.2	96.6 137.2 93.2 141.3	99.1 142.2 92.0 139.7	101.6 138.5 91.5 142.8	102.7 149.7 90.8 142.6	155.1 89.4 144.7	148.1
Nondurable manufactures 11 Foods 12 Tobacco products 13 Textile mill products 14 Apparel products 15 Paper and products	20 21 22 23 26	7.96 .62 2.29 2.79 3.15	137.7 103.4 115.8 107.4 144.4	140.1 110.5 118.2 107.8 150.6	141.9 107.0 115.3 108.5 148.0	141.1 107.2 117.0 108.7 149.1	140.3 107.2 117.3 109.2 149.2	141.0 107.2 114.6 108.6 149.5	141.3 104.5 114.3 109.3 148.6	143.3 100.6 117.1 109.4 152.3	143.3 105.1 116.4 108.9 151.0	143.2 105.0 116.2 109.9 150.9	117.0 109.5	145.3 106.6 117.2 110.1 150.7	145.9 117.2 152.6	
16 Printing and publishing 17 Chemicals and products 18 Petroleum products 19 Rubber and plastic products. 20 Leather and products.	27 28 29 30 31	4.54 8.05 2.40 2.80 .53	172.0 140.1 93.5 163.6 60.0	176.9 147.9 96.1 170.6 57.5	178.7 145.4 95.9 172.3 59.7	180.4 146.4 98.4 172.2 59.5	181.8 148.9 98.5 172.3 58.0	180.7 149.1 95.2 173.4 57.1	182.3 150.5 94.1 174.4 58.9	184.9 153.4 95.0 175.4 59.1	186.7 154.8 96.0 175.3 59.4	188.0 155.3 93.7 175.3 59.9	188.1 156.7 96.3 176.9 61.0	188.8 157.3 95.0 177.5 61.9	189.5 158.1 98.1 179.0 62.5	191.5 99.8
Durable manufactures 21 Lumber and products	24 25 32	2.30 1.27 2.72	130.3 152.8 119.1	133.6 159.4 120.1	139.0 158.3 121.6	137.8 159.4 122.5	138.0 159.2 121.4	139.8 160.5 121.5	136.4 161.2  - 123.4	136.6 162.9 122.2	133.8 164.9 122.6	133.5 164.9 122.6		139.6 165.4 124.7	141.7 166.6 125.1	
24 Primary metals	33 331.2 34 35 36	5.33 3.49 6.46 9.54 7.15	81.5 70.8 111.0 152.7 172.3	90.6 81.9 115.8 161.0 175.9	86.4 77.4 117.6 163.6 177.8	85.1 74.2 118.8 164.6 176.6	85.3 74.5 118.8 167.2 178.7	89.2 78.6 119.8 170.3 179.1	87.5 74.2 120.4 171.2 179.5	173.1	90.8 78.9 122.1 174.1 182.2	93.1 81.4 122.5 174.8 181.8	122.6	93.2 81.3 124.6 175.3 182.2	92.0 79.8 125.3 176.4 182.7	94.2 125.6 176.8 182.6
29 Transportation equipment	38	9.13 5.25 3.87 2.66	129.2 111.8 152.8 143.9	128.1 110.2 152.4 145.5	128.4 109.3 154.5 149.2	130.0 113.0 153.0 149.7	130.4 114.8 151.5 150.5	133.1 119.6 151.5 151.3	132.8 119.1 151.4 153.0	156.4	131.8 117.5 151.3 156.8	132.7 118.5 151.9 157.8	152.7 159.9	135.1 122.9 151.7 160.0		136.4 125.2 151.6 160.2
33 Miscellaneous manufactures  Utilities 34 Electric	39	4.17	102.6 126.6		104.4 130.7	105.1 129.0	105.9		107.6	107.8 134.6	108.3	108.5	107.7	109.0	109.7 132.6	
		Gross value (billions of 1982 dollars, annual rates)														
Major Market																
35 Products, total		517.5	1,735.8	1,778.8	1,797.5	1,807.5	1,812.2	1,820.1	1,813.9	1,822.3	1,828.6	1,828.9	1,853.4	1,853.5	1,874.0	1,887.8
36 Final 37 Consumer goods 38 Equipment 39 Intermediate		405.7 272.7 133.0 111.9	1,333.8 866.0 467.8 402.0	1,359.4 881.2 478.2 419.4	1,381.1 893.7 487.3 416.5	1,385.9 893.2 492.7 421.6	1,393.9 899.1 494.7 418.4	1,397.1 898.9 498.3 423.0		503.2	1,404.2 900.4 503.8 424.3		1,423.5 915.0 508.4 430.0	916.7 507.7	1,440.2 932.7 507.6 433.7	1,450.6 941.5 509.1 437.3

Industrial Production" and accompanying tables that contain revised indexes (1977=100) through December 1984 in the FEDERAL RESERVE BULLETIN, vol. 71 (July 1985), pp. 487-501. The revised indexes for January through June 1985 were shown in the September BULLETIN.

<sup>1.</sup> These data also appear in the Board's G.12.3 (414) release. For address, see inside front cover.

A major revision of the industrial production index and the capacity utilization rates was released in July 1985. See "A Revision of the Index of

#### 2.14 HOUSING AND CONSTRUCTION

Monthly figures are at seasonally adjusted annual rates except as noted.

_	_								19	88				
	Item	1986	1987	1988	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.'	Nov.'	Dec.
_					Priv	ate reside	ntial real	estate acti	vity (thou	sands of u	ınits)			
	NEW UNITS													
1 2 3	Permits authorized	1,750 1,071 679	1,535 1,024 511	1,451 1,000 452	1,476 1,030 446	1,449 960 489	1,436 982 454	1,493 1,002 491	1,420 984 436	1,464 1,022 442	1,394 974 420	1,516 1,027 489	1,516 1,046 470	1,566 1,082 484
4 5 6	Started		1,621 1,146 474	1,488 1,080 408	1,528' 1,169' 359'	1,576′ 1,087′ 489′	1,392' 1,001' 391'	1,463 <sup>r</sup> 1,088 <sup>r</sup> 375 <sup>r</sup>	1,478' 1,067' 411'	1,459 <sup>7</sup> 1,076 <sup>7</sup> 383	1,463' 1,039' 424'	1,532 1,136 396	1,567 1,138 429	1,568 1,123 445
7 8 9	Under construction, end of period <sup>1</sup> .  1-family	1,074 583 490	987 591 397	927 575 352	999 617 382	999 622 377	984 610 374	982 609 373	974 606 368	965 603 362	955 596 359	952 598 354	957 602 355	958 605 353
10 11 12	Completed	1,756 1,120 636'	1,669 1,123 546	1,528 1,083 445	1,598 1,094 504	1,665 1,059 606	1,450 1,090 360	1,518 1,106 412	1,529 1,077 452	1,538 1,072 466	1,533 1,089 444	1,516 1,086 430	1,432 1,038 394	1,517 1,085 432
13	Mobile homes shipped	244	233	218	213'	215 <sup>r</sup>	221'	227′	207'	223	224 <sup>r</sup>	216	227	225
14 15	Merchant builder activity in  1-family units  Number sold  Number for sale, end of period	748 357	672 365	677 366	664 372	681 367	681 370	718 367	703 365	714 363	691' 361'	722 354	665 364	669 366
	Price (thousands of dollars) <sup>2</sup> Median	!												
16 17	Units sold	92.2 112.2	104.7 127.9	113.3 139.3	108.9 133.2	111.0 135.6	110.0 133.5	111.5	118.0	110.0 140.6	116.6 <sup>r</sup>	113.0 136.8	110.3 137.0	121.0 152.2
17	EXISTING UNITS (1-family)	112.2	127.9	137.3	133.2	133.0	155.5	130.5	141.5	140.0	142.7	150.0	157.0	132.2
18	Number sold	3,566	3,530	3,624	3,330	3,520	3,590	3,820	3,630	3,710	3,670	3,670	3,670	3,920
19 20	Price of units sold (thousands of dollars) <sup>2</sup> Median Average	80.3 98.3	85.6 106.2	88.7 111.9	87.9 110.7	87.3 108.7	88.8 111.9	90.2 115.4	90.7 114.8	91.4 115.1	88.2 112.3	88.1 110.9	88.0 111.8	88.7 112.0
			L			Value of	new cons	struction <sup>3</sup>	(millions o	of dollars)		·····	<del>\</del>	<u> </u>
	Construction													
21	Total put in place	386,093	398,848	403,371	403,555	396,238	398,473	395,714	404,164	403,172	406,906	408,184	412,436	422,695
22 23 24	Private	314,651 187,147 127,504	323,819 194,772 129,047	325,103 195,180 129,923	324,257 195,554 128,703	318,515 192,026 126,489	320,194 190,374 129,820	317,708 188,071 129,637	324,658 194,215 130,443	326,763 195,393 131,370	327,164 196,945 130,219	330,291 199,567 130,724	331,900 200,269 131,631	335,929 200,922 135,007
25 26 27 28	Industrial Commercial Other Public utilities and other	13,747 56,762 13,216 43,779	13,707 55,448 15,464 44,428	14,256 55,739 16,789 43,139	14,546 54,843 17,301 42,013	13,849 56,169 16,382 40,089	13,907 57,447 16,847 41,619	13,676 56,585 16,757 42,619	13,928 56,687 16,166 43,662	14,006 56,404 16,613 44,347	13,546 55,815 16,600 44,258	15,234 54,706 17,132 43,652	16,032 53,881 16,796 44,922	15,059 57,359 17,399 45,190
29 30 31 32 33	Public Military. Highway Conservation and development Other	71,437 3,868 22,681 4,646 40,242	75,028 4,327 22,758 5,162 42,781	78,266 4,077 25,777 4,519 43,893	79,298 4,216 26,963 4,899 43,220	77,723 3,872 26,912 4,226 42,713	78,278 3,547 25,254 4,460 45,017	78,007 4,844 24,822 4,596 43,745	79,506 4,350 27,673 4,861 42,622	76,409 3,984 23,491 4,793 44,141	79,742 4,897 23,841 5,045 45,959	77,893 3,659 25,997 3,927 44,310	80,536 3,932 26,724 3,829 46,051	86,766 4,147 31,976 4,389 46,254

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.

<sup>1.</sup> 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.

# A52 Domestic Nonfinancial Statistics □ April 1989

### 2.15 CONSUMER AND PRODUCER PRICES

Percentage changes based on seasonally adjusted data, except as noted

		from 12 earlier	Char		months e	arlier		Change f	rom 1 mor	nth earlier		Index
Item	1988	1989		19	88'			19	88'		1989	level Jan. 1989 <sup>1</sup>
	Jan.	Jan.	Mar.	June	Sept.	Dec.	Sept.	Oct.	Nov.	Dec.	Jan.	1707
CONSUMER PRICES <sup>2</sup> (1982–84=100)												
1 All items	4.0	4.7	3.9	4.9	4.8	4.1	.4	.4	.3	.3	.6	121.1
2 Food . 3 Energy items . 4 All items less food and energy . 5 Commodities . 6 Services .	3.2 4.2 4.3 3.4 4.8	5.6 1.8 4.6 4.2 5.0	2.5 -4.0 5.4 4.7 5.6	6.4 3.7 4.3 3.9 4.5	8.8 2.7 4.3 3.1 4.8	3.0 4 4.9 4.2 5.4	.7 ~.2 .5 .7 .3	.2 1 .5 .5 .5	.2 .3 .3 .3 .4	.3 3 .4 .3 .5	.7 .8 .5 .5	122.2 89.0 126.4 117.9 131.4
PRODUCER PRICES (1982=100) 7 Finished goods 8 Consumer foods 9 Consumer energy 10 Other consumer goods. 11 Capital equipment.	2.2 2.3 2.1 2.9 1.3	4.4 5.4 2.9 4.5 3.6	4.2 6.8 -7.0 5.3 3.6	3.0 5.5 -5.2 3.5 2.9	5.7 9.2 -2.7 5.9 6.1	3.0 2.1 2.1 4.4 1.4	.6 .9 8 .4 .9	.0 .2 .0 .0 3	.3 .3 .5 .3	.5 .1 .0 .7 .3	1.0 1.1 4.9 .4 .6	111.0 116.5 60.9 121.8 117.0
12 Intermediate materials <sup>3</sup>	5.1 5.9	5.8 6.8	5.1 8.2	7.4 6.9	4.6 7.2	4.5 6.7	. <b>4</b> .5	.1 .5	.6 .7	.5 .4	.9 .6	110.2 119.4
Crude materials 14 Foods	5.9 -1.8 22.9	15.6 .6 6.6	18.5 -24.1 17.3	21.3 7.8 -6.5	29.1 -27.0 8.5	-7.9 12.9 5.8	2.0 -2.1 5	1 -1.9 .1	-4.0 -1.4 .5	2.1 6.5 .7	2.2 6.7 2.2	112.4 71.2 137.7

Not seasonally adjusted.
 Figures for consumer prices are those for all urban consumers and reflect a rental equivalence measure of homeownership after 1982.

<sup>3.</sup> 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.

				1987		19	88	
Account	1986	1987	1988′	Q4	Q1	Q2	Q3	Q4 <sup>r</sup>
GROSS NATIONAL PRODUCT								
1 Total	4,240.3	4,526.7	4,863.1	4,662.8	4,724.5	4,823.8	4,909.0	4,995.2
By source           2 Personal consumption expenditures           3 Durable goods           4 Nondurable goods           5 Services	2,807.5	3,012.1	3,227.2	3,076.3	3,128.1	3,194.6	3,261.2	3,325.1
	406.5	421.9	451.1	422.0	437.8	449.8	452.9	464.0
	943.6	997.9	1,047.4	1,012.4	1,016.2	1,036.6	1,060.8	1,076.1
	1,457.3	1,592.3	1,728.7	1,641.9	1,674.1	1,708.2	1,747.5	1,785.0
6 Gross private domestic investment 7 Fixed investment 8 Nonresidential 9 Structures 10 Producers' durable equipment 11 Residential structures	665.9	712.9	766.1	764.9	763.4	758.1	772.5	770.4
	650.4	673.7	717.5	692.9	698.1	714.4	722.8	734.8
	433.9	446.8	487.8	464.1	471.5	487.8	493.7	498.0
	138.5	139.5	142.9	147.7	140.1	142.3	143.8	145.3
	295.4	307.3	344.8	316.3	331.3	345.5	349.9	352.6
	216.6	226.9	229.8	228.8	226.6	226.5	229.1	236.8
12 Change in business inventories	15.5	39.2	48.6	72.0	65.3	43.7	49.7	35.6
	17.4	40.7	42.4	72.8	49.4	33.1	41.9	45.2
14 Net exports of goods and services 15 Exports 16 Imports	-104.4	-123.0	-94.3	-125.7	-112.1	-90.4	-80.0	-94.8
	378.4	428.0	520.2	459.7	487.8	507.1	536.1	549.7
	482.8	551.1	614.5	585.4	599.9	597.5	616.0	644.5
17 Government purchases of goods and services 18 Federal	871.2	924.7	964.1	947.3	945.2	961.6	955.3	994.5
	366.2	382.0	380.5	391.4	377.7	382.2	367.7	394.4
	505.0	542.8	583.6	555.9	567.5	579.4	587.6	600.1
By major type of product 20 Final sales, total 21 Goods 22 Durable 23 Nondurable 24 Services 25 Structures	4,224.7	4,487.5	4,814.6	4,590.7	4,659.2	4,780.1	4,859.3	4,959.6
	1,697.9	1,792.5	1,939.3	1,849.3	1,879.5	1,928.0	1,960.1	1,989.5
	725.3	776.3	858.0	808.7	819.3	849.5	881.6	881.6
	972.6	1,016.3	1,081.3	1,040.7	1,060.1	1,078.5	1,078.5	1,107.9
	2,118.3	2,295.7	2,476.4	2,363.9	2,405.2	2,451.5	2,501.6	2,547.2
	424.0	438.4	447.5	449.5	439.9	444.3	447.3	458.5
26 Change in business inventories 27 Durable goods 28 Nondurable goods	15.5	39.2	48.6	72.0	65.3	43.7	49.7	35.6
	4.3	26.6	31.1	50.5	26.6	17.8	45.1	34.7
	11.3	12.6	17.5	21.6	38.6	25.9	4.6	0.9
MEMO 29 Total GNP in 1982 dollars	3,721.7	3,847.0	3,995.1	3,923.0	3,956.1	3,985.2	4,009.4	4,029.7
NATIONAL INCOME								
30 Total  31 Compensation of employees 32 Wages and salaries 33 Government and government enterprises 34 Other 35 Supplement to wages and salaries 36 Employer contributions for social insurance 37 Other labor income	3,437.1 2,507.1 2,094.0 393.7 1,700.3 413.1 217.0 196.1	3,678.7 2,683.4 2,248.4 420.1 1,828.3 435.0 227.1 207.9	3,965.0 2,905.2 2,437.3 446.1 1,991.2 467.8 249.6 218.3	3,802.0 2,769.9 2,324.8 429.2 1,895.6 445.1 232.7 212.4	3,850.8 2,816.4 2,358.7 437.1 1,921.6 457.7 243.1 214.6	3,928.8 2,874.0 2,410.0 442.9 1,967.1 464.0 247.5 216.5	4,000.7 2,933.2 2,462.0 449.1 2,012.9 471.1 251.7 219.5	n.a. 2,997.2 2,518.7 455.4 2,063.3 478.5 256.0 222.5
38 Proprietors' income <sup>1</sup> 39 Business and professional <sup>1</sup> 40 Farm <sup>1</sup>	286.7	312.9	324.7	326.0	323.9	328.8	321.6	324.7
	250.3	270.0	288.5	279.0	279.2	285.3	290.7	298.6
	36.4	43.0	36.3	47.0	44.7	43.4	30.9	26.1
41 Rental income of persons <sup>2</sup>	12.4	18.4	19.5	20.5	20.5	19.1	19.7	18.6
42 Corporate profits 1 43 Profits before tax 3 44 Inventory valuation adjustment 45 Capital consumption adjustment	298.9	310.4	323.8	316.1	316.2	326.5	330.0	n.a.
	236.4	276.7	302.1	281.9	286.2	305.9	313.9	n.a.
	8.3	-18.0	-23.9	-18.2	-19.4	-27.4	-29.3	- 19.6
	54.2	51.7	45.6	52.4	49.4	48.0	45.4	39.7
46 Net interest	331.9	353.6	391.9	369.5	373.9	380.6	396.2	416.7

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

<sup>3.</sup> For after-tax profits, dividends, and the like, see table 1.48. SOURCE. Survey of Current Business (Department of Commerce).

# A54 Domestic Nonfinancial Statistics April 1989

#### 2.17 PERSONAL INCOME AND SAVING

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

				1987		19	88	
Account	1986	1987	1988′	Q4	Qı	Q2	Q3	Q4'
PERSONAL INCOME AND SAVING								
1 Total personal income	3,531.1	3,780.0	4,063.4	3,906.8	3,951.4	4,022.4	4,094.0	4,185.5
2 Wage and salary disbursements 3 Commodity-producing industries 4 Manufacturing 5 Distributive industries 6 Service industries 7 Government and government enterprises	2,094.0 625.5 473.1 498.9 575.9 393.7	2,248.4 649.8 490.3 531.7 646.8 420.1	2,437.3 695.6 522.6 578.9 716.8 446.1	2,325.1 665.5 501.3 547.3 682.8 429.5	2,358.7 676.0 509.6 558.2 687.4 437.1	2,410.0 689.1 517.4 572.1 705.9 442.9	2,462.0 701.3 525.9 585.8 725.8 449.1	2,518.7 716.1 537.7 599.4 747.8 455.4
8 Other labor income 9 Proprietors' income 10 Business and professional 11 Farm 12 Rental income of persons <sup>2</sup> 13 Dividends 14 Personal interest income 15 Transfer payments 16 Old-age survivors, disability, and health insurance benefits	196.1 286.7 250.3 36.4 12.4 82.8 499.1 521.1 269.3	207.9 312.9 270.0 43.0 18.4 88.6 527.0 548.8 282.9	218.3 324.7 288.5 36.3 19.5 96.3 576.3 586.0 301.8	212.4 326.0 279.0 47.0 20.5 91.9 550.0 556.8 286.5	214.6 323.9 279.2 44.7 20.5 93.5 554.2 576.3 298.1	216.5 328.8 285.3 43.4 19.1 95.0 563.7 582.8 300.4	219.5 321.6 290.7 30.9 19.7 97.3 581.9 588.6 303.1	222.5 324.7 298.6 26.1 18.6 99.4 605.5 596.3 305.7
17 LESS: Personal contributions for social insurance	161.1	172.0	195.1	175.9	190.2	193.5	196.7	200.1
18 EQUALS: Personal income	3,531.1	3,780.0	4,063.4	3,906.8	3,951.4	4,022.4	4,094.0	4,185.5
19 LESS: Personal tax and nontax payments	511.4	570.3	590.4	591.0	575.8	601.0	586.5	598.2
20 EQUALS: Disposable personal income	3,019.6	3,209.7	3,473.0	3,315.8	3,375.6	3,421.5	3,507.5	3,587.4
21 LESS: Personal outlays	2,898.0	3,105.5	3,327.2	3,171.8	3,225.7	3,293.6	3,361.8	3,427.6
22 EQUALS: Personal saving	121.7	104.2	145.8	144.0	149.9	127.8	145.7	159.8
MEMO Per capita (1982 dollars) 23 Gross national product 24 Personal consumption expenditures 25 Disposable personal income 26 Saving rate (percent)	15,401.2 10,160.1 10,929.0 4.0	15,772.9 10,336.2 11,012.0 3.2	16,227.1 10,528.4 11,331.0 4.2	16,031.9 10,346.1 11,145.0 4.3	16,127.6 10,435.4 11,260.0 4.4	16,213.2 10,492.3 11,237.0 3.7	16,265.3 10,563.1 11,362.0 4.2	16,308.0 10,627.3 11,465.0 4.5
GROSS SAVING							1	i i
27 Gross saving	537.2	560.4	642.2	603.4	627.0	634.1	665.4	n.a.
28 Gross private saving 29 Personal saving 30 Undistributed corporate profits <sup>1</sup> 31 Corporate inventory valuation adjustment	681.6 121.7 104.1 8.3	665.3 104.2 81.1 -18.0	730.6 145.8 78.4 -23.9	714.1 144.0 80.5 -18.2	726.3 149.9 78.1 -19.4	711.2 127.8 80.1 -27.4	732.9 145.7 79.5 -29.3	п.а. 159.8 п.а. —19.6
Capital consumption allowances 32 Corporate 33 Noncorporate	282.4 173.5	297.5 182.5	315.7 190.7	303.7 185.8	309.8 188.5	313.3 189.9	316.8 190.9	322.9 193.3
34 Government surplus, or deficit (-), national income and product accounts 35 Federal	-144.4 -205.6 61.2	-104.9 -157.8 52.9	-88.4 -143.3 54.9	-110.7 -160.4 49.7	-99.2 -155.1 55.8	-77.1 -133.3 56.2	-67.5 -123.5 56.0	n.a. n.a. n.a.
37 Gross investment	523.6	552.3	630.1	597.0	612.0	629.0	651.4	628.2
38 Gross private domestic	665.9 -142.4	712.9 -160.6	766.1 -135.9	764.9 167.8	763.4 -151.3	758.1 -129.1	772.5 -121.1	770.4 -142.2
40 Statistical discrepancy	-13.6	-8.1	-12.6	-6.4	-15.0	-5.1	-14.0	-14.0

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment.

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

#### 3.10 U.S. INTERNATIONAL TRANSACTIONS Summary

Millions of dollars; quarterly data are seasonally adjusted except as noted.1

				19	87		1988	
Item credits or debits	1985	1986	1987	Q3	Q4	Q1	Q2	Q3 <sup>p</sup>
1 Balance on current account 2 Not seasonally adjusted 3 Merchandise trade balance <sup>2</sup> 4 Merchandise exports 5 Merchandise imports 6 Military transactions, net 7 Investment income, net 8 Other service transactions, net 9 Remittances, pensions, and other transfers 10 U.S. government grants (excluding military)	-338,083	-138,827 -144,547 223,969 -368,516 -4,372 23,143 2,257 -3,571 -11,738	-153,964 -160,280 249,570 -409,850 -2,369 20,374 1,755 -3,434 -10,011	-41,967 -47,330 -39,665 64,902 -104,567 -851 1,067 87 -855 -2,125	-33,523 -31,803 -41,192 68,013 -109,205 -1,261 12,539 479 -828 -3,545	-36,938 -32,179 -35,184 75,300 -110,484 -1,033 1,159 1,241 -882 -2,239	-33,739 -34,606 -30,151 79,606 -109,757 -914 -1,940 2,017 -793 -1,958	-30,894 -37,029 -28,533 82,306 -110,839 -934 -337 2,028 -806 -2,312
11 Change in U.S. government assets, other than official reserve assets, net (increase, -)	-2,829	-2,000	1,162	252	1,012	-814	-801	1,931
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.	-3,858 0 -897 908 -3,869	312 0 -246 1,500 -942	9,149 0 -509 2,070 7,588	32 0 -210 407 -165	3,741 0 -205 722 3,225	1,503 0 155 446 901	39 0 180 69 -210	-7,380 0 -35 202 -7,547
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.	-25,949 -1,323 923 -7,481 -18,068	-96,303 -59,975 -4,220 -4,297 -27,811	-86,298 -40,531 3,145 -4,456 -44,456	-25,576 -16,519 -215 -972 -7,870	-43,645 -23,460 1,248 -1,757 -19,676	5,903 17,108 -315 -4,467 -6,423	-18,210 -13,274 -7,061 1,529 596	-34,181 -27,023 -1,521 -5,637
22 Change in foreign official assets in United States (increase, +).  23 U.S. Treasury securities  24 Other U.S. government obligations  25 Other U.S. government liabilities  26 Other U.S. liabilities reported by U.S. banks  27 Other foreign official assets	-1,196 -838 -301 767 645 -1,469	35,507 34,364 -1,214 2,054 1,187 -884	44,968 43,361 1,570 -2,824 3,901 -1,040	611 842 714 -287 -34 -624	20,047 19,243 662 108 - 223 257	24,670 27,701 -121 -123 -1,954 -833	5,946 5,863 202 570 868 417	-2,902 -3,706 572 -354 1,094 -508
28 Change in foreign private assets in United States (increase, +).  29 U.S. bank-reported liabilities 3  30 U.S. nonbank-reported liabilities 9  31 Foreign private purchases of U.S. Treasury securities, net 3  32 Foreign direct investments in United States, net	131,096 41,045 -366 20,433 50,962 19,022	185,746 79,783 -2,906 3,809 70,969 34,091	166,521 87,778 2,150 -7,596 42,213 41,976	71,047 46,153 -116 -2,835 12,819 15,026	36,025 29,764 -1,000 496 -4,977 11,742	1,395 -17,233 2,015 6,887 2,379 7,347	59,549 31,121 113 5,457 9,797 13,061	50,928 30,434  4,322 8,043 8,129
34 Allocation of SDRs 35 Discrepancy 36 Owing to seasonal adjustments 37 Statistical discrepancy in recorded data before seasonal adjustment	17,839	15,566 15,566	0 18,461 18,461	0 -4,399 -4,658 259	0 16,342 3,138 13,204	0 4,282 3,747 535	0 -12,784 -3,585 -9,199	22,498 -5,205 27,703
MEMO Changes in official assets U.S. official reserve assets (increase, -). Foreign official assets in United States (increase, +) excluding line 25.  40 Change in Organization of Petroleum Exporting Countries	-3,858 -1,963	312 33,453	9,149 47,792	32 898	3,741 19,939	1,503 24,793	39 6,516	-7,380 -2,548
official assets in United States (part of line 22 above).  41 Transfers under military grant programs (excluded from lines 4, 6, and 10 above).	-6,709 46	-9,327 101	-9,956 58	-1,723 13	-2,750 12	-1,375 45	-1,783 4	-423 5

Primarily associated with military sales contracts and other transactions arranged with or through foreign official agencies.
 Consists of investments in U.S. corporate stocks and in debt securities of private corporations and state and local governments.
 NOTE. Data are from Bureau of Economic Analysis, Survey of Current Business (Department of Commerce).

<sup>1.</sup> 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 (IA) basis. Differs from the Census basis data, shown in table 3.11, for reasons of coverage and timing. Military exports are excluded from merchandise data and are included in line 6.
3. Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.

### International Statistics April 1989

#### 3.11 U.S. FOREIGN TRADE<sup>1</sup>

Millions of dollars; monthly data are seasonally adjusted.

	Item	1000	1007	1000				1988			
	item	1986	1987	1988	June	July	Aug.	Sept.	Oct.	Nov.'	Dec.
1	EXPORTS of domestic and foreign merchandise excluding grant-aid shipments, f.a.s. value	227,159	254,122	322,225	26,283	26,516	27,493	27,989	27,816	27,542	29,192
2	GENERAL IMPORTS including merchandise for immediate consumption plus entries into bonded warehouses C.I.F. value	382,295	424,442	459,565	39,499	35,989	39,763	38,662	38,078	39,760	41,086
3	Customs value	365,438	406,241	440,940	37,948	34,533	38,140	37,178	36,600	38,200	39,419
4 5	Trade balance C.I.F. value Customs value	-155,137 -138,279	-170,320 -152,119	-137,340 -118,716	-13,216 -11,665	-9,473 -8,017	-12,270 -10,647	-10,673 -9,189	-10,262 -8,784	-12,218 -10,658	-11,894 -10,227

<sup>1.</sup> 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

	T	1005	1007	1007			19	88			1989
	Туре	1985	1986	1987	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. <sup>p</sup>
1	Total	43,186	48,511	45,798	43,876	47,778	47,788	50,204	48,944	47,802	48,190
2	Gold stock, including Exchange Stabilization Fund <sup>1</sup>	11,090	11,064	11,078	11,063	11,061	11,062	11,062	11,059	11,057	11,056
3	Special drawing rights <sup>2,3</sup>	7,293	8,395	10,283	8,984	9,058	9,074	9,464	9,785	9,637	9,388
4	Reserve position in International Monetary Fund <sup>2</sup>	11,947	11,730	11,349	9,773	9,642	9,637	10,075	10,103	9,745	9,422
5	Foreign currencies <sup>4</sup>	12,856	17,322	13,088	14,056	18,017	18,015	19,603	17,997	17,363	18,324

<sup>1.</sup> Gold held under earmark at Federal Reserve Banks for foreign and international accounts is not included in the gold stock of the United States; see table
3.13. 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

#### 3.13 FOREIGN OFFICIAL ASSETS HELD AT FEDERAL RESERVE BANKS<sup>1</sup>

Millions of dollars, end of period

	1005	1006	1007			19	88			1989
Assets	1985	1986	1987	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
l Deposits	480	287	244	269	230	338	301	251	347	279
Assets held in custody 2 U.S. Treasury securities <sup>2</sup> 3 Earmarked gold <sup>3</sup>	121,004 14,245	155,835 14,048	195,126 13,919	223,296 13,666	221,715 13,658	221,119 13,653	226,533 13,637	229,926 13,640	232,547 13,636	228,399 13,635

<sup>1.</sup> Excludes deposits and U.S. Treasury securities held for international and regional organizations.

2. Marketable U.S. Treasury bills, notes, and bonds; and nonmarketable U.S. Treasury securities payable in dollars and in foreign currencies.

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 holdlings and reserve position in the 1MF also are valued on this basis beginning July 1974.

<sup>3.</sup> 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.

<sup>3.</sup> 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 Data<sup>1</sup> Millions of dollars, end of period

							1988				
Asset account	1985	1986	1987	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			I	<u> </u>	All foreign	countries	L	1		L	
1 Total, all currencies	458,012	456,628	518,618	487,677	488,283	487,895	490,582	493,728	512,361'	505,271	
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	119,706 87,201 13,057 19,448 315,676 91,399 102,960 23,478 97,839	114,563 83,492 13,685 17,386 312,955 96,281 105,237 23,706 87,731	138,034 105,845 16,416 15,773 342,520 122,155 108,859 21,832 89,674	140,932 104,405 14,424 22,103 311,308 106,722 100,669 20,438 83,479	147,662 109,929 15,954 21,779 305,556 103,646 99,660 19,276 82,974	157,021 117,525 16,176 23,320 295,270 98,299 98,982 18,709 79,280	155,386 115,286 16,121 23,979 298,466 102,355 98,563 18,444 79,104	155,432 <sup>r</sup> 115,954 14,744 <sup>r</sup> 24,734 300,954 <sup>r</sup> 100,609 102,057 <sup>r</sup> 18,205 80,083	169,458' 129,096 16,075' 24,287 304,895' 105,121 100,608' 18,170 80,996	168,483 130,063 15,046 23,374 300,253 107,461 97,279 17,077 78,436	
11 Other assets	22,630	29,110	38,064	35,437	35,065	35,604	36,730	37,342	38,008′	36,535	
12 Total payable in U.S. dollars	336,520	317,487	350,107	334,990	336,233	342,906	340,901	337,346	351,654	357,653	
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	116,638 85,971 12,454 18,213 210,129 72,727 71,868 17,260 48,274	110,620 82,082 12,830 15,708 195,063 72,197 66,421 16,708 39,737	132,023 103,251 14,657 14,115 202,428 88,284 63,707 14,730 35,707	135,348 101,422 13,661 20,265 183,568 79,774 55,234 13,851 34,709	141,415 106,792 14,434 20,189 179,076 78,071 54,189 13,247 33,569	151,581 114,943 14,901 21,737 174,433 73,792 54,839 12,933 32,869	149,764 112,621 14,687 22,456 174,271 76,506 52,503 12,770 32,492	149,713' 113,569 13,265' 22,879 171,566' 73,508 54,642' 12,616 30,800	162,988' 125,954 14,771' 22,263 171,862' 75,866 53,483' 12,234 30,279	162,827 127,136 14,288 21,403 178,428 81,023 55,285 11,959 30,161	
22 Other assets	9,753	11,804	15,656	16,074	15,742	16,892	16,866	16,067	16,804′	16,398	
	United Kingdom										
23 Total, all currencies	148,599	140,917	158,695	151,835	151,017	149,646	147,329	155,580	159,556	155,981	
24 Claims on United States 25 Parent bank 26 Other banks in United States 27 Nonbanks 28 Claims on foreigners 29 Other branches of parent bank 30 Banks 31 Public borrowers 32 Nonbank foreigners	33,157 26,970 1,106 5,081 110,217 31,576 39,250 5,644 33,747	24,599 19,085 1,612 3,902 109,508 33,422 39,468 4,990 31,628	32,518 27,350 1,259 3,909 115,700 39,903 36,735 4,752 34,310	33,852 28,535 1,322 3,995 107,856 32,446 37,108 4,742 33,560	35,708 30,615 1,064 4,029 105,594 30,228 37,805 4,665 32,896	36,307 30,767 1,197 4,343 103,527 29,656 38,259 4,543 31,069	32,048 26,661 1,238 4,149 105,824 31,758 38,848 4,250 30,968	36,210 30,569 994 4,647 109,793 33,103 40,236 4,190 32,264	39,222 33,138 1,343 4,741 110,356 33,243 40,875 4,276 31,962	40,030 34,190 1,117 4,723 106,307 35,404 36,870 3,963 30,070	
33 Other assets	5,225	6,810	10,477	10,127	9,715	9,812	9,457	9,577	9,978	9,644	
34 Total payable in U.S. dollars	108,626	95,028	100,574	95,326	94,492	96,767	93,790	99,868	101,341	102,790	
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	32,092 26,568 1,005 4,519 73,475 26,011 26,139 3,999 17,326 3,059	23,193 18,526 1,475 3,192 68,138 26,361 23,251 3,677 14,849 3,697	30,439 26,304 1,044 3,091 64,560 28,635 19,188 3,313 13,424 5,575	31,855 27,672 1,069 3,114 57,969 23,843 17,477 3,188 13,461 5,502	33,795 29,706 870 3,219 55,832 22,549 18,025 3,133 12,125 4,865	34,535 29,837 1,039 3,659 57,037 22,465 19,165 3,105 12,302 5,195	30,116 25,692 910 3,514 58,474 24,472 19,066 3,022 11,914 5,200	34,134 29,667 606 3,861 61,034 25,703 20,488 2,984 11,859 4,700	36,881 32,115 849 3,917 59,405 25,574 19,452 2,898 11,481 5,055	37,952 33,199 958 3,795 60,397 28,253 18,587 2,840 10,717 4,441	
					Bahamas an	d Caymans			_		
45 Total, all currencies	142,055	142,592	160,321	159,718	160,516	165,771	164,313	155,265	164,942'	170,977	
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	74,864 50,553 11,204 13,107 63,882 19,042 28,192 6,458 10,190	78,048 54,575 11,156 12,317 60,005 17,296 27,476 7,051 8,182	85,318 60,048 14,277 10,993 70,162 21,277 33,751 7,428 7,706	88,116 58,579 12,236 17,301 65,855 24,745 27,650 6,835 6,625	92,308 61,397 13,863 17,048 62,508 22,797 26,120 6,457 7,134	99,090 67,034 13,907 18,149 60,822 20,789 26,866 6,185 6,982	99,541 66,607 13,878 19,056 57,887 20,320 24,545 6,219 6,803	94,452' 62,709 12,504' 19,239 54,479' 17,331 25,312' 6,045 5,791	104,211' 71,916 13,774' 18,521 54,070' 17,016 25,306' 5,862 5,886	104,751 73,669 13,272 17,810 59,223 18,460 28,576 5,825 6,362	
55 Other assets	3,309	4,539	4,841	5,747	5,700	5,859	6,885	6,334	6,661′	7,003	
56 Total payable in U.S. dollars	136,794	136,813	151,434	152,219	152,685	157,975	156,409	147,481	157,147	163,857	

<sup>1.</sup> Beginning with June 1984 data, reported claims held by foreign branches have been reduced by an increase in the reporting threshold for "shell" branches

from \$50 million to \$150 million equivalent in total assets, the threshold now applicable to all reporting branches.

### 3.14—Continued

Liability account	1985	1986	1987				1988			
Liability account	1903	1980	1967	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
				· 	All foreign	countries				
57 Total, all currencies	458,012	456,628	518,618	487,677	488,283	487,895	490,582	493,728	512,361 <sup>r</sup>	505,271
58 Negotiable CDs 59 To United States 60 Parent bank 61 Other banks in United States 62 Nonbanks	34,607 156,281 84,657 16,894 54,730	31,629 152,465 83,394 15,646 53,425	30,929 161,390 87,606 20,559 53,225	29,485 156,294 87,260 14,680 54,354	30,159 159,009 84,196 15,310 59,503	31,203 164,401 88,819 16,356 59,226	28,953 165,492 94,953 14,272 56,267	27,969 161,783 95,427 14,029 52,327	30,734 172,644' 104,555' 13,567' 54,522'	28,511 185,986 114,903 14,854 56,229
63 To foreigners 64 Other branches of parent bank 65 Banks 66 Official institutions 67 Nonbank foreigners 68 Other liabilities	245,939 89,529 76,814 19,520 60,076 21,185	253,775 95,146 77,809 17,835 62,985 18,759	304,803 124,601 87,274 19,564 73,364 21,496	280,939 110,429 82,380 17,159 70,971 20,959	277,776 107,084 83,086 16,628 70,978 21,339	270,678 100,538 80,606 17,232 72,302 21,613	274,822 106,284 80,382 16,911 71,245 21,315	281,143 106,010 81,946 18,786 74,401 22,833	285,460° 110,637° 82,308° 17,743 74,772 23,523°	270,364 110,762 72,792 15,182 71,628 20,410
69 Total payable in U.S. dollars	353,712	336,406	361,438	341,411	341,539	346,185	348,248	343,233	359,426 <sup>r</sup>	366,796
70 Negotiable CDs           71 To United States           72 Parent bank           73 Other banks in United States           74 Nonbanks	31,063 150,905 81,631 16,264 53,010	28,466 144,483 79,305 14,609 50,569	26,768 148,442 81,783 19,155 47,504	25,015 144,464 80,752 13,256 50,456	24,870 147,551 77,503 14,011 56,037	26,128 152,745 81,710 15,153 55,882	24,353 154,647 88,413 13,153 53,081	23,218 150,497 88,447 12,868 49,182	26,130 159,287' 96,229' 12,230' 50,828'	24,045 173,558 107,353 13,523 52,682
75 To foreigners Country To Banks Nonbank foreigners Other branches of parent bank The Banks Nonbank foreigners Other liabilities	163,583 71,078 37,365 14,359 40,781 8,161	156,806 71,181 33,850 12,371 39,404 6,651	177,711 90,469 35,065 12,409 39,768 8,517	162,056 83,493 28,909 9,571 40,083 9,876	158,901 81,144 28,495 9,354 39,908 10,217	156,358 75,014 30,041 9,938 41,365 10,954	158,325 79,450 29,341 9,207 40,327 10,923	158,514 78,423 28,831 10,624 40,636 11,004	162,518' 81,137' 30,805' 9,121 41,455 11,491'	160,165 83,523 28,765 8,222 39,655 9,028
					United I	Cingdom				
81 Total, all currencies	148,599	140,917	158,695	151,835	151,017	149,646	147,329	155,580	159,556	155,981
82 Negotiable CDs 83 To United States 84 Parent bank 55 Other banks in United States 86 Nonbanks	31,260 29,422 19,330 2,974 7,118	27,781 24,657 14,469 2,649 7,539	26,988 23,470 13,223 1,740 8,507	25,390 25,120 15,996 1,791 7,333	25,750 26,859 16,844 2,051 7,964	26,998 25,013 15,100 1,878 8,035	24,311 25,657 17,115 2,021 6,521	23,345 31,575 22,800 2,192 6,583	26,013 32,420 23,226 <sup>r</sup> 1,768 7,426 <sup>r</sup>	24,528 36,726 27,758 2,228 6,740
87 To foreigners 88 Other branches of parent bank 89 Banks 90 Official institutions 91 Nonbank foreigners 92 Other liabilities	78,525 23,389 28,581 9,676 16,879 9,392	79,498 25,036 30,877 6,836 16,749 8,981	98,689 33,078 34,290 11,015 20,306 9,548	91,691 28,967 33,125 8,893 20,706 9,634	88,489 26,948 32,763 9,034 19,744 9,919	87,504 25,570 31,829 9,982 20,123 10,131	87,212 26,837 31,701 8,570 20,104 10,149	89,934 25,743 32,385 10,656 21,150 10,726	90,404 26,268 33,029 9,542 21,565 10,719	85,935 26,827 30,482 7,872 20,754 8,792
93 Total payable in U.S. dollars	112,697	99,707	102,550	97,555	96,908	97,926	96,970	101,689	102,933	104,900
94 Negotiable CDs 95 To United States 96 Parent bank 97 Other banks in United States 98 Nonbanks	29,337 27,756 18,956 2,826 5,974	26,169 22,075 14,021 2,325 5,729	24,926 17,752 12,026 1,512 4,214	22,960 20,889 14,712 1,512 4,665	22,846 23,105 15,729 1,817 5,559	24,229 20,993 13,745 1,655 5,593	22,043 22,177 16,031 1,819 4,327	20,864 28,063 21,665 1,978 4,420	23,543 27,123 21,003 <sup>r</sup> 1,366 4,754 <sup>r</sup>	22,063 32,529 26,313 1,943 4,273
99 To foreigners 100 Other branches of parent bank 101 Banks 102 Official institutions 103 Nonbank foreigners 104 Other liabilities	51,980 18,493 14,344 7,661 11,482 3,624	48,138 17,951 15,203 4,934 10,050 3,325	55,919 22,334 15,580 7,530 10,475 3,953	48,777 20,303 12,957 4,700 10,817 4,929	46,083 18,539 12,240 5,036 10,268 4,874	47,227 17,550 13,501 5,781 10,395 5,477	47,149 18,696 13,417 4,519 10,517 5,601	47,278 17,384 13,436 6,186 10,272 5,484	46,843 17,443 14,029 4,713 10,658 5,424	46,656 18,578 13,334 4,346 10,398 3,652
					Bahamas ar	d Caymans				
105 Total, all currencies	142,055	142,592	160,321	159,718	160,516	165,771	164,313	155,265	164,942 <sup>r</sup>	170,977
106         Negotiable CDs           107         To United States           108         Parent bank           109         Other banks in United States           110         Nonbanks	610 104,556 45,554 12,778 46,224	847 106,081 49,481 11,715 44,885	885 113,950 53,239 17,224 43,487	941 109,424 52,221 11,451 45,752	940 112,540 49,896 12,069 50,575	731 117,765 54,174 13,412 50,179	924 116,687 56,818 11,106 48,763	1,092 107,115 51,522 10,824 44,769	1,361 115,159° 58,214° 10,823° 46,122°	953 122,821 63,188 11,419 48,214
111 To foreigners 112 Other branches of parent bank 113 Banks 114 Official institutions 115 Nonbank foreigners 116 Other liabilities	35,053 14,075 10,669 1,776 8,533 1,836	34,400 12,631 8,617 2,719 10,433 1,264	43,815 19,185 10,769 1,504 12,357 1,671	47,361 24,755 9,779 1,850 10,977 1,992	44,993 22,288 10,155 1,015 11,535 2,043	45,062 21,221 9,607 1,099 13,135 2,213	44,478 22,872 8,405 1,067 12,134 2,224	44,636 23,283 8,154 972 12,227 2,422	45,814 <sup>r</sup> 22,835 <sup>r</sup> 9,707 <sup>r</sup> 1,060 12,212 2,608 <sup>r</sup>	44,940 23,171 8,632 1,074 12,063 2,263
117 Total payable in U.S. dollars	138,322	138,774	152,927	151,684	152,235	157,512	156,215	147,718	156,694 <sup>r</sup>	163,288

### 3.15 SELECTED U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS Millions of dollars, end of period

•	1004	1007	1988								
Item	1986	1987	June	July	Aug.	Sept.	Oct.'	Nov.	Dec.p		
I Total <sup>1</sup>	211,834	259,556 <sup>r</sup>	290,842	290,944	290,263	288,601	295,017'	300,588	299,821		
By type 2 Liabilities reported by banks in the United States <sup>2</sup> . 3 U.S. Treasury bills and certificates <sup>3</sup> . U.S. Treasury bonds and notes 4 Marketable . 5 Nonmarketable <sup>4</sup> . 6 U.S. securities other than U.S. Treasury securities <sup>3</sup> .	27,920 75,650 91,368 1,300 15,596	31,838 88,829 122,432 300 16,157	30,761 95,299 149,333 502 14,947	32,070 96,715 146,971 506 14,682	32,813 96,698 145,521 509 14,722	32,224 96,812 144,040 513 15,012	34,594' 100,814 144,617' 516 14,476	34,719 103,843 146,813 520 14,693	31,577 103,724 149,025 523 14,972		
By area 7 Western Europe¹ 8 Canada 9 Latin America and Caribbean 10 Asia. 11 Africa 12 Other countries⁶	88,629 2,004 8,417 105,868 1,503 5,412	124,620 4,961 8,328 116,098 1,402 4,147	126,772 10,773 9,407 134,285 1,266 7,837	125,195 10,725 9,888 135,657 1,179 7,793	123,428 9,981 11,336 136,165 1,196 7,646	121,206 10,054 10,136 137,513 1,130 8,049	125,204 <sup>7</sup> 11,014 9,840 139,447 <sup>7</sup> 1,094 7,903 <sup>7</sup>	128,297 10,066 10,501 142,792 993 7,418	125,092 9,584 10,052 145,722 1,369 7,479		

<sup>1.</sup> Includes the Bank for International Settlements.

### 3.16 LIABILITIES TO AND CLAIMS ON FOREIGNERS Reported by Banks in the United States Payable in Foreign Currencies<sup>1</sup>

Millions of dollars, end of period

*****	1984	1985	1986	1987		1988	1988	
Item	1984	1983	1986	Dec.	Маг.	June	Sept.'	
1 Banks' own liabilities 2 Banks' own claims. 3 Deposits. 4 Other claims 5 Claims of banks' domestic customers <sup>2</sup> .	8,586 11,984 4,998 6,986 569	15,368 16,294 8,437 7,857 580	29,702 26,180 14,129 12,052 2,507	55,438 51,271 18,861 32,410 551	55,818 52,221 18,407 33,814 810	55,110 51,183 17,785 33,398 1,004	61,243 60,957 22,139 38,818 392	

<sup>1.</sup> Data on claims exclude foreign currencies held by U.S. monetary author-

<sup>2.</sup> Principally demand deposits, time deposits, bankers acceptances, commercial paper, negotiable time certificates of deposit, and borrowings under repurchase agreements.

<sup>3.</sup> Includes nonmarketable certificates of indebtedness (including those payable in foreign currencies through 1974) and Treasury bills issued to official institutions of foreign countries.

<sup>4.</sup> Excludes notes issued to foreign official nonreserve agencies. Includes

bonds and notes payable in foreign currencies.

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.

<sup>2.</sup> Assets owned by customers of the reporting bank located in the United States that represent claims on foreigners held by reporting banks for the accounts of the domestic customers.

#### LIABILITIES TO FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. dollars

Millions of dollars, end of period

	4004	4004	400				1988			****
Holder and type of liability	1985	1986	1987	June	July	Aug.	Sept.	Oct.'	Nov.	Dec.p
1 All foreigners	435,726	540,996	618,874	637,694	654,809	658,039	657,404	651,776	678,002	684,564
2 Banks' own liabilities 3 Demand deposits 4 Time deposits 5 Other <sup>3</sup> . 6 Own foreign offices <sup>4</sup> .	341,070 21,107 117,278 29,305 173,381	406,485 23,789 130,891 42,705 209,100	470,070 22,383 148,374 51,677 247,635	476,484 22,991 141,145 47,418 264,931	490,856 21,983 142,551 50,747 275,575	493,988 20,314 145,123 52,630 275,920	491,108 21,375 148,747 53,840 267,145	482,560 21,830 141,948 57,199 261,583	503,465 22,049 149,229 53,896 278,290	512,644 21,817 150,970 51,884 287,973
7 Banks' custody liabilities <sup>5</sup>		134,511 90,398	148,804 101,743	161,209 108,614	163,953 109,555	164,050 109,106	166,296 109,768	169,215 112,267	174,537 116,860	171,919 114,976
9 Other negotiable and readily transferable instruments	17,964 7,558	15,417 28,696	16,776 30,285	16,626 35,969	16,231 38,167	15,971 38,973	15,555 40,973	16,397 40,551	16,614 41,063	16,332 40,612
11 Nonmonetary international and regional organizations <sup>8</sup>	5,821	5,807	4,464	7,879	7,061	4,749	7,764	5,879	4,752	3,102
12 Banks' own liabilities 13 Demand deposits 14 Time deposits <sup>2</sup> 15 Other <sup>3</sup> .	2,621 85 2,067 469	3,958 199 2,065 1,693	2,702 124 1,538 1,040	5,142 84 1,873 3,185	4,882 92 1,857 2,933	2,925 85 966 1,874	5,104 104 1,688 3,311	4,067 143 1,101 2,823	3,496 76 1,384 2,036	2,405 71 1,183 1,150
16 Banks' custody liabilities <sup>5</sup>	3,200 1,736	1,849 259	1,761 265	2,737 745	2,179 286	1,824 43	2,660 755	1,812 62	1,256 83	698 57
instruments 19 Other	1,464	1,590 0	1,497	1,989	1,861 32	1,769 12	1,899 5	1,750	1,163	641 0
20 Official institutions <sup>9</sup>	79,985	103,569	120,667	126,060	128,786	129,511	129,036	135,408	138,562	135,300
21 Banks' own liabilities 22 Demand deposits 23 Time deposits' 24 Other'.	20,835 2,077 10,949 7,809	25,427 2,267 10,497 12,663	28,703 1,757 12,843 14,103	27,882 1,834 11,865 14,183	28,486 1,696 11,520 15,270	29,079 1,405 12,289 15,385	28,725 1,756 11,573 15,396	30,820 1,781 11,209 17,830	30,740 1,584 11,809 17,348	27,170 1,929 9,839 15,402
<ul> <li>Banks' custody liabilities<sup>5</sup></li></ul>	1	78,142 75,650	91,965 88,829	98,178 95,299	100,300 96,715	100,432 96,698	100,311 96,812	104,589 100,814	107,822 103,843	108,130 103,724
instruments'	5,824 75	2,347 145	2,990 146	2,672 207	3,368 217	3,450 284	3,221 279	3,612 163	3,758 221	4,121 286
29 Banks <sup>10</sup>	275,589	351,745	414,280	423,854	436,443	439,532	436,310	425,242	447,584	459,525
30 Banks' own liabilities 31 Unaffliated foreign banks 32 Demand deposits 33 Time deposits² 34 Other³ 35 Own foreign offices⁴	252,723 79,341 10,271 49,510 19,561 173,381	310,166 101,066 10,303 64,232 26,531 209,100	371,665 124,030 10,898 79,717 33,415 247,635	375,461 110,529 10,899 72,187 27,444 264,931	387,578 112,003 10,217 73,000 28,787 275,575	390,416 114,495 9,258 73,826 31,412 275,920	385,217 118,072 9,349 77,713 31,010 267,145	374,639 113,056 10,228 71,096 31,733 261,583	395,766 117,475 10,398 76,650 30,427 278,290	408,198 120,225 9,965 80,386 29,875 287,973
36 Banks' custody liabilities <sup>5</sup>	22,866 9,832	41,579 9,984	42,615 9,134	48,394 9,212	48,865 9,324	49,116 9,299	51,093 8,9 <del>6</del> 9	50,603 7,976	51,819 8,087	51,327 7,602
Other negotiable and readily transferable instruments'	6,040 6,994	5,165 26,431	5,392 28,089	4,725 34,457	4,625 34,916	4,090 35,727	4,230 37,893	5,265 37,362	5,686 38,046	5,682 38,043
40 Other foreigners	1 '	79,875	79,463	79,900	82,520	84,247	84,294	85,247	87,104	86,636
41 Banks' own liabilities         42 Demand deposits         43 Time deposits²         44 Other³	64,892 8,673 54,752 1,467	66,934 11,019 54,097 1,818	67,000 9,604 54,277 3,119	67,999 10,173 55,220 2,606	69,910 9,979 56,174 3,757	71,568 9,566 58,042 3,960	72,061 10,166 57,772 4,123	73,035 9,678 58,542 4,814	73,463 9,991 59,386 4,085	74,871 9,852 59,562 5,456
45 Banks' custody liabilities <sup>5</sup>	1	12,941 4,506	12,463 3,515	11,901 3,358	12,610 3,231	12,678 3,066	12,233 3,231	12,212 3,415	13,641 4,848	11,765 3,593
instruments <sup>7</sup> 48 Other	4,636 489	6,315 2,120	6,898 2,050	7,241 1,303	6,378 3,002	6,663 2,950	6,205 2,797	5,771 3,026	6,007 2,786	5,889 2,283
49 MEMO: Negotiable time certificates of deposit in custody for foreigners	9,845	7,496	7,314	7,711	6,975	6,792	6,121	6,123	6,137	6,344

<sup>1.</sup> Reporting banks include all kinds of depository institutions besides commer-

Reporting banks include air kinds of depository institutions desides commercial banks, as well as some brokers and dealers.
 Excludes negotiable time certificates of deposit, which are included in "Other negotiable and readily transferable instruments."
 Includes borrowing under repurchase agreements.
 U.S. banks: includes amounts due to own foreign branches and foreign subsidiaries consolidated in "Consolidated Report of Condition" filed with bank regulatory agencies. Agencies, branches, and majority-owned subsidiaries of foreign banks: principally amounts due to head office or parent foreign bank, and foreign branches, agencies, or wholly owned subsidiaries of head office or parent foreign bank. foreign bank.

<sup>5.</sup> 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."

#### 3.17-Continued

		4005					· · · · · ·	1988			
	Area and country	1985	1986	1987	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p
1	Total	435,726	540,996	618,874	637,694	654,809	658,039	657,404	651,776'	678,002	684,564
2	Foreign countries	429,905	535,189	614,411	629,815	647,749	653,289	649,640	645,896 <sup>r</sup>	673,250	681,462
3	Europe	164,114	180,556	234,641	227,661	231,218	232,797	224,663	227,308	233,943	236,367
5	Austria Belgium-Luxembourg	693 5,243	1,181 6,729	920 9,347	941 10,363	1,425 9,531	1,245	1,072 9,937	1,271 10,247	1,607 11,108	1,198
6	Denmark	513	482	760	1,364	1,474	2,078	1,402	2,362°	3,089	2,180
7	Finland	496	580	377	426	549	417	447	339	339	284
8		15,541 4,835	22,862 5,762	29,835 7,022	26,980 5,110	26,005	24,237 6,226	24,295 5,085	23,285 5,898	24,564 7,981	24,736 6,727
10		666	700	689	653	5,211	694	633	675	683	720
11	Italy	9.667	10.875	12,073	10,705	9,921	9,766	8,550	12.512	13,337	14,614
12	Netherlands	4,212	5,600	5,014	5,351	5,007	5,647	6,167	6,377	5,939	5,306
13 14	Norway	948 652	735 699	1,362 801	1,078 897	1,322 859	900 848	1,060 858	1,143 915	1,342 738	1,558 903
15	Spain	2,114	2,407	2,621	4,173	5,011	5,570	6,248	6,838	5,976	5,507
16	Sweden	1,422	884	1,379	1,522	1,926	2,011	2,196	1,579	1,819	1,276
17	Switzerland	29,020 429	30,534 454	33,766 703	31,197 570	30,416 537	29,043 709	31,330 706	31,333 <sup>r</sup> 878	32,286 793	34,320 1,014
18 19	United Kingdom	76,728	85,334	116,852	115,531	121,895	122,620	113,287	109,996	111,733	116,231
20	Yugoslavia	673	630	710	690	614	629	579	655	569	529
21	Other Western Europe <sup>1</sup>	9,635	3,326	9,798	9,259	8,215	9,463	10,207	10,240	9,255	8,534
22 23	Yugoslavia. Other Western Europe <sup>1</sup> U.S.S.R. Other Eastern Europe <sup>2</sup>	105 523	80 702	32 582	239 611	80 598	99 544	45 558	100 667'	74 711	138 591
								1	Į.	1	
	Canada	17,427	26,345	30,095	30,037	29,944	28,128	28,247	26,697	26,188	21,034
25 26	Latin America and Caribbean	167,856 6,032	210,318 4,757	220,372 5,006	233,041 5,876	242,719 5,975	246,723 6,775	246,743 7,106	240,074 <sup>7</sup> 7,065	257,303 7,307	266,851 7,751
27	Bahamas	57,657	73,619	74,767	74,282	76,002	78,889	77,921	76,805	83,613	86,499
28	Bermuda	2,765	2,922	2,344	2,077	2,413	2,394	2,389	2,577	2,821	2,622
29	Brazil	5,373	4,325	4,005	4,205	4,489	4,524	4,475	4,726	5,135	5,148
30 31	British West Indies	42,674 2,049	72,263 2,054	81,494 2,210	94,347 2,378	101,332 2,323	99,907 2,463	101,711 2,467	95,828 2,727	104,906 2,653	110,471 2,919
32	Colombia	3,104	4,285	4,204	4,502	4,441	4,403	4,171	4,136	4,221	4,314
33	Cuba	11	7	12	10	9	8	9	12	9	10
34	Ecuador	1,239	1,236	1,082	1,212	1,216	1,224	1,244	1,265	1,360	1,360
35 36	Guatemala	1,071 122	1,123 136	1,082 160	1,209 156	1,183 154	1,182 149	1,177 166	1,150 177	1,178	1,186 186
37	Mexico	14,060	13,745	14,480	15,801	16,334	17,260	15,842	15,636	15,457	15,122
38	Netherlands Antilles	4,875	4,970	4,975	5,338	4,798	5,011	5,252	5,354	5,907	6,675
39 40	PanamaPeru	7,514 1,167	6,886 1,163	7,414 1,275	4,171 1,438	4,251 1,514	4,262 1,539	4,128 1,584	4,114 1,605	4,046 1,650	4,230 1,612
41	Uruguay	1,552	1,537	1,582	1,882	1,828	1,898	1,884	1,788	1,885	1,878
42	UruguayVenezuela	11,922	10,171	9.048	8,950	9,116	9,330	9,752	9,547	9,301	9,129
43	Other	4,668	5,119	5,234	5,207	5,343	5,504	5,462	5,560	5,690	5,740
44	AsiaChina	72,280	108,831	121,288	128,096	133,933	135,851	139,845	142,062	145,891	147,094
45	Mainland	1,607	1,476	1,162	1,725	1,564	1,757	1,608	1,479	1,401	1,892
46	Taiwan	7,786 8,067	18,902 9,393	21,503	23,072	24,023 9,951	23,422	22,334 10,875	23,377 11,532	24,791	26,039
47 48	Hong Kong	712	674	10,180 582	9,321 942	858	10,417 845	1,013	793	12,386 761	11,724 710
49	Indonesia	1,466	1,547	1,404	1,075	1,036	1,254	1,121	1,286	995	1,189
50	Israel	1,601	1,892	1,292	1,334	1,244	1,194	1,130	2,323	1,063	1,498
51 52	Japan	23,077 1,665	47,410 1,141	54,322 1,637	60,846 1,572	63,460 1,459	64,559 1,720	70,188 2,091	70,594 2,440	73,103 2,813	73,770 2,546
53	Philippines	1,140	1,866	1,085	954	1,085	1,001	971	1,140	1,150	1,143
54	Philippines Thailand Middle-East oil-exporting countries <sup>3</sup>	1,358	1,119	1,345	1,099	1,650	1,422	1,369	1,363	1,205	1,235
55 56	Middle-East oil-exporting countries* Other	14,523 9,276	12,352 11,058	13,988 12,788	12,089 14,066	14,298 13,306	12,787 15,472	14,091 13,053	13,232 <sup>r</sup> 12,503	12,871 13,352	12,053 13,296
57	Africa	4,883	4,021	3,945	4,023	3,837	3,846	3,659	3,702	3,530	3,968
58	Egypt	1,363	706	1,151	1,187	1,039	969	813	850	757	911
59	Morocco. South Africa	163 388	92 270	194 202	73 245	80 200	70 204	111 247	245	267	67 437
60 61	Zoine	163	74	67	60	63	67	71	71	267 72	71
62	Oil-exporting countries <sup>4</sup>	1,494	1,519	1,014	1,108	1,052	1,039	1,015	993	952	1,016
63	Other	1,312	1,360	1,316	1,351	1,403	1,498	1,402	1,477	1,418	1,465
64 65	Other countries	3,347 2,779	5,118 4,196	4,070 3,327	6,957 6,017	6,098 5,329 769	5,945 5,170	6,484 5,639	6,054 5,199	6,396 5,426	6,148 5,279
66	All other	568	922	744	939	769	775	845	854	970	869
67	Nonmonetary international and regional										
	organizations	5,821	5,807	4,464	7,879	7,061	4,749	7,764	5,879	4,752	3,102
68	International <sup>3</sup>	4,806	4,620	2,830	5,925	5,130	2,979	5,721	3,912	3,265	2,381
69 70	Latin American regionalOther regional <sup>6</sup>	894 121	1,033 154	1,272 362	1,769 185	1,651 279	1,614 156	1,762 281	1,662 306	1,276 211	589 133
	Canon regional	121		302	105	1 2,,	130	201	300	211	1,55

<sup>1.</sup> 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).

<sup>4.</sup> 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 States<sup>1</sup> Payable in U.S. Dollars

Millions of dollars, end of period

Area and country	1985	1986	1987	1988						
Total		]		June	July	Aug.	Sept.	Oct.'	Nov.	Dec.p
	401,608	444,745	459,877	458,967	470,241	469,243	477,149	465,916	485,566	489,260
2 Foreign countries	400,577	441,724	456,472	456,372	467,427	466,799	471,566	462,814	481,244	487,571
Europe	106,413	107,823	102,348	100,909	99,751	99,284 743	102,409	105,855	108,157	116,780
Austria Belgium-Luxembourg Demark Finland	598	728	793	806	888		808	812	721	490
Denmark	5,772 706	7,498 688	9,397 717	7,863 640	8,530 742	8,419 608	8,786 582	8,902 631	8,951 599	8,468 480
Finland	823	987	1,010	954	1,325	1,231	1,195	912	1,157	1.065
		11,356	13,548	12,186	11,861	11,965	12,164	12,327	12,478	13,085
Germany Greece	1,267	1,816 648	2,039 462	2,862 589	2,169 562	2,000 523	1,728 506	2,315	2,305	2,323
I Italy	8,848	9,043	7,460	7,072	6,607	6,626	6,118	6,027	7.092	431 7,942
Netherlands	1 258	3,296	2,619	2,656	3,017	2,933	3,202	2,666	2,763	2,548
Norway Portugal	706	672	934	589	484	534	510	534	478	453
		739	477	358	333	321	333	266	253	257
Spain Sweden Switzerland	1,908 2,219	1,492 1,964	1,853 2,254	1,862 2,087	1,973 1,958	2,011 2,256	1,969 1,983	1,800 1,852	2,054 2,086	1,823 1,976
Switzerland	3,171	3,352	2,718	3,291	2,491	2,569	2,559	2,918	2,983	4,069
) luikey	1,200	1,543	1,680	1,495	1,432	1,397	1,396	1.344	1,265	1.222
United Kingdom	62,566	58,335	50,823	52,033	51,918	51,789	54,669	57,906	57,988	65,597
Yugoslavia Other Western Europe <sup>2</sup> 2 U.S.S.R. Other Eastern Europe <sup>3</sup>	1,964 998	1,835	1,700 619	1,624 647	1,559 671	1,537 524	1,476 889	1,472	1,450 926	1,390
U.S.S.R.	130	345	389	506	431	466	473	1,125 754	1,207	1,152 1,245
Other Eastern Europe <sup>3</sup>	1,107	948	852	787	800	831	1,065	800	801	764
Canada	16,482	21,006	25,368	24,634	23,937	24,137	23,804	22,482	23,274	18,865
Latin America and Caribbean	202,674	208,825	214,789	202,663	205.268	206,798	212.897	201.049	211,334	212,922
6 Argentina		12,091	11,996	12,365	12,342	12,238	12,235	12,077	12,023	11,825
Bahamas	58,258	59,342	64,587	55,554	60,350	63,305	64,253	59,322	67,525	67,003
Bermuda		418	471 25,897	818	460	430	688	596	511	483
Brazil  British West Indies	25,283 38,881	25,716 46,284	50,042	26,230 51,763	26,023 50,483	25,909 49,641	25,610 55,262	25,461 48,881	26,399 50,637	25,729 54,395
Chile	6,603	6,558	6.308	5,881	5,771	5,677	5,656	5,459	5,332	5,401
Colombia	3,249	2,821	2,740	3,095	3,127	3,029	3,023	3,016	2,964	2,839
Cuba	2,390	0 420	2 200	2.40	00	0	0	0	0	100
Cuba   Cuba	2,390 194	2,439	2,286 144	2,142 144	2,143 157	2,156 148	2,185 150	2,168 175	2,162 167	2,075 190
Jamaica <sup>4</sup>	224	198	188	187	214	184	185	201	205	268
Mexico	31,799	30,698	29,532	26,177	26,022	25,885	25,971	25,645	25,366	24,562
Netherlands Antilles Panama	1,340	1,041	980	1,238	1,055	1,269	1,079	1,491	1,427	1,309
Peni	6,645 1,947	5,436 1,661	4,744 1,329	2,492 1,149	2,400 1,137	2,370 1,192	2,238 1,080	2,214 1,065	2,350 1,012	2,486 1,012
Uruguay	960	940	963	885	878	889	891	850	888	910
2 Venezuela	10.871	11,108	10,843	10,912	11,021	10,862	10,754	10,803	10,735	10,755
Other Latin America and Caribbean	2,067	1,936	1,738	1,631	1,684	1,612	1,636	1,626	1,628	1,580
Asia	66,212	96,126	106,096	120,202	130,573	128,787	124,835	125,067	130,224	130,801
Mainland	639	<b>78</b> 7	968	1,065	1,033	1,017	888	756	777	762
Taiwan	1,535	2,681	4,592	3,957	3,562	3,241	3,121	3,040	3,845	4.184
Hong Kong	6,797 450	8,307 321	8,218 510	9,632 499	8,342	7,451	8,389	9,495	10,826	9,896
Indonesia	698	723	580	772	508 765	548 786	540 778	634 808	568 767	560 730
) Israel	1,991	1,634	1,363	1,213	1,206	1,174	1,180	1,174	1,230	1,147
Japan	31,249	59,674	68,658	82,350	93,140	92,840	87,246	87,626	89,464	90,420
Norea Philippines Philippines	9,226 2,224	7,182 2,217	5,148 2,071	5,003 2,055	4,889 2,029	4,909	5,137	5,192	5,395	5,155
Thailand	845	578	496	641	668	2,030 683	2,009 759	1,912 766	1,900 778	1,875 850
Thailand Middle East oil-exporting countries Other Asia	4,298	4,122	4,858	4,574	6,400	6,216	6,401	5,412	6,657	6,137
Other Asia	6,260	7,901	8,635	8,441	8,031	7,891	8,389	8,253	8,018	9,085
7 Africa	5,407	4,650	4,742	5,423	5,493	5,462	5,454	5,633	5,629	5,706
B Egypt	721	567	521	605	539	530	535	540	532	509
Morocco	575	598	542	484	481	478	478	476	488	511
South Africa Zaire	1,942 20	1,550 28	1,507 15	1,693 41	1,726	1,711 36	1,693 16	1,707 17	1,698 18	1,676
Oil-exporting countries <sup>6</sup>	630	694	1.003	1,275	1,340	1.359	1.388	1.483	1,491	1,525
Zaire  Oil-exporting countries <sup>6</sup> Other	1,520	1,213	1,153	1,325	1,369	1,348	1,343	1,410	1,402	1,469
Other countries	3,390	3,294	3,129	2,541	2,404	2,331	2,167	2,728	2,625	2,497
Australia	2,413	1,949	2,100	1,678	1,554	1,499	1,392 775	1,879	1.566	1,624
5 All other	978	1,345	1,029	863	850	832	775	849	1,059	874
Nonmonetary international and regional	1,030	3,021	3,404	2,595	2,814			}	)	1,688

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 States<sup>1</sup> Payable in U.S. Dollars

Millions of dollars, end of period

	4005	4004	1986 1987				1988			
Type of claim	1985	1986	1987	June	July	Aug.	Sept.	Oct."	Nov.	Dec.p
1 Total	430,489	478,650	497,635	494,280			512,950			489,260
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.	401,608 60,507 174,261 116,654 48,372 68,282 50,185	444,745 64,095 211,533 122,946 57,484 65,462 46,171	459,877 64,605 224,727 127,609 60,687 66,922 42,936	458,967 62,758 229,972 123,498 59,043 64,455 42,738	470,241 62,825 239,112 127,298 60,184 67,114 41,006	469,243 61,696 237,012 128,447 60,558 67,889 42,089	477,149 63,736 245,397 124,852 61,521 63,330 43,164	465,916 60,649 237,414 121,950 54,180 67,771 45,902	485,566 64,475 255,023 123,204 56,042 67,161 42,864	489,260 61,312 256,214 129,254 66,091 63,163 42,481
9 Claims of banks' domestic customers <sup>3</sup> 10 Deposits	28,881 3,335 19,332	33,905 4,413 24,044	37,758 3,692 26,696	35,314 4,843 24,002			35,801 5,391 20,916			
12 Outstanding collections and other claims.	6,214	5,448	7,370	6,468			9,494			,
13 MEMO: Customer liability on acceptances	28,487	25,706	23,107	19,618			18,730			
Dollar deposits in banks abroad, reported by nonbanking business enterprises in the United States'	38,102	43,984	40,087	42,763	46,837	49,732	42,720	41,869	48,676	n.a.

<sup>1.</sup> 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.

and foreign branches, agencies, or wholly owned subsidiaries of head office or

### 3.20 BANKS' OWN CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

Millions of dollars, end of period

			****	1987	1988				
Maturity; by borrower and area	1984	1985	1986	Dec.	Маг.	June	Sept."		
1 Total	243,952	227,903	232,295	235,130	219,323	227,589	228,887		
By borrower  2 Maturity of 1 year or less <sup>2</sup> 3 Foreign public borrowers  4 All other foreigners  5 Maturity over 1 year  6 Foreign public borrowers  7 All other foreigners	167,858 23,912 143,947 76,094 38,695 37,399	160,824 26,302 134,522 67,078 34,512 32,567	160,555 24,842 135,714 71,740 39,103 32,637	163,997 25,889 138,108 71,133 38,625 32,507	152,658 24,488 128,171 66,664 35,879 30,785	162,912 25,608 137,304 64,677 35,613 29,064	166,342 27,721 138,622 62,545 35,101 27,445		
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 1 year² 14 Europe 15 Canada 16 Latin America and Caribbean 17 Asia 18 Africa 19 All other³	58.498 6,028 62,791 33,504 4,442 2,593 9,605 1,882 56,144 5,323 2,033 1,107	56,585 6,401 63,328 27,966 3,753 2,791 7,634 1,805 50,674 4,502 1,538 926	61,784 5,895 56,271 29,457 2,882 4,267 6,737 1,925 56,719 4,043 1,539	59,027 5,680 56,535 35,919 2,833 4,003 6,696 2,661 53,817 3,830 1,747 2,381	51,552 4,978 55,544 35,579 2,596 2,410 5,914 2,213 51,541 3,680 2,201 1,114	55,242 6,426 56,333 38,893 2,914 3,103 5,420 2,337 49,775 3,711 2,429 1,006	53,859 5,913 55,661 41,909 3,112 5,888 5,323 2,075 48,293 3,954 2,265 635		

<sup>1.</sup> Reporting banks include all kinds of depository institutions besides commercial banks, as well as some brokers and dealers.

<sup>2.</sup> 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 parent foreign bank.

3. Assets owned by customers of the reporting bank located in the United States that represent claims on foreigners held by reporting banks for the account of their domestic customers.

4. Principally negotiable time certificates of deposit and bankers acceptances.

5. Includes demand and time deposits and negotiable and nonnegotiable certificates of deposit denominated in U.S. dollars issued by banks abroad. For description of changes in data reported by nonbanks, see July 1979 BULLETIN, p. 550.

Remaining time to maturity.
 Includes nonmonetary international and regional organizations.

### 3.21 CLAIMS ON FOREIGN COUNTRIES Held by U.S. Offices and Foreign Branches of U.S.-Chartered Banks<sup>1,2</sup> Billions of dollars, end of period

	1001	1005	19	86		19	87			1988	
Area or country	1984	1985	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.
1 Total	405.7	385.4	381.6	385.1	395.4	384.6	387.7	381.4	373.1	352.6	356.9
2 G-10 countries and Switzerland. 3 Belgium-Luxembourg 4 France.	148.1 8.7 14.1	146.0 9.2 12.1	154.8 8.3 14.5	156.6 8.3 13.7	162.7 9.1 13.3	158.1 8.3 12.5	155.2 8.2 13.7	160.0 10.1 13.8	156.7 9.3 11.5	150.5 9.2 10.8	149.5' 9.5 10.0
5 Germany 6 Italy. 7 Netherlands	9.0 10.1	10.5 9.6	12.4 7.8	11.6 9.0	12.7 8.7	11.2 7.5	10.5 6.6	12.6 7.3	11.8 7.4	10.6 6.1	8.9 5.9
8 Sweden. 9 Switzerland 10 United Kingdom.	3.9 3.2 3.9 60.3	3.7 2.7 4.4 63.0	3.9 2.7 4.7 68.8	4.6 2.4 5.8 71.0	4.4 3.0 5.8 73.7	7.3 2.4 5.7 72.0	4.8 2.6 5.4 72.1	4.0 2.1 5.6 69.1	3.3 2.1 5.1 71.4	3.3 1.9 5.6 69.8	3.0 2.0 5.2 68.0
11 Canada 12 Japan	7.9 27.1	6.8 23.9	5.9 25.8	5.3 24.9	5.3 26.9	4.7 26.3	4.7 26.5	5.6 29.8	4.9 29.9	5.4 27.9	5.2 31.7
13 Other developed countries	33.6 1.6 2.2 1.9 2.9 3.0	29.9 1.5 2.3 1.6 2.6 2.9	28.9 1.7 2.2 1.6 2.3 2.7	25.7 1.7 1.7 1.4 2.3 2.4	25.7 1.9 1.7 1.4 2.1 2.2	25.2 1.8 1.5 1.4 2.0 2.1	25.9 1.9 1.6 1.4 1.9 2.0	26.2 1.9 1.7 1.3 2.0 2.3	26.2 1.6 1.4 1.0 2.3 2.0	23.7 1.6 1.0 1.2 2.2 2.0	22.7 1.6 1.1 1.3 2.1 2.0
19   Portugal	1.4 6.5 1.9 1.7 4.5 6.0	1.2 5.8 1.8 2.0 3.2 5.0	1.0 6.7 1.9 1.6 3.0 4.2	.8 5.8 1.8 1.4 3.0 3.5	.9 6.3 1.7 1.4 3.0 3.2	,8 6.1 1.7 1.5 3.0 3.1	.8 7.4 1.5 1.6 2.9 2.9	3.5 8.0 1.6 1.6 2.9 2.4	9.0 1.6 1.9 2.8 2.1	7.2 1.5 1.6 2.8 2.2	.4 6.3 1.3 1.9 2.7 1.8
25 OPEC countries³. 26 Ecuador 27 Venezuela. 28 Indonesia 29 Middle East countries 30 African countries	24.9 2.2 9.3 3.3 7.9 2.3	21.3 2.1 8.9 3.0 5.3 2.0	19.7 2.2 8.7 2.8 4.4 1.7	19.3 2.2 8.6 2.5 4.3 1.7	20.0 2.1 8.5 2.4 5.4 1.6	18.8 2.1 8.4 2.2 4.4 1.7	19.0 2.1 8.3 2.0 5.0 1.7	17.1 1.9 8.1 1.9 3.6 1.7	17.2 1.9 8.1 1.9 3.6 1.7	16.4 1.8 8.0 1.9 3.1 1.7	17.6 1.8 7.9 1.9 4.3 1.7
31 Non-OPEC developing countries	111.8	104.2	99.1	99.1	100.7	100.4	97.7	97.7	94.0	91.3	87.0
Latin America  Argentina  Brazil  Chile  Chile  Colombia  Mexico  Peru  Cher Latin America	8.7 26.3 7.0 2.9 25.7 2.2 3.9	8.8 25.4 6.9 2.6 23.9 1.8 3.4	9.2 25.2 7.1 1.9 23.9 1.5 3.3	9.5 25.2 7.1 2.1 23.8 1.4 3.1	9.5 26.2 7.3 2.0 24.1 1.4 3.0	9.5 25.1 7.2 1.9 25.3 1.3 2.9	9.3 25.1 7.0 1.9 24.8 1.2 2.8	9.4 24.7 6.9 2.0 23.7 1.1 2.7	9.5 23.9 6.6 1.9 22.5 1.1 2.8	9.4 23.7 6.4 2.1 21.1 .9 2.6	9.2 22.4 6.2 2.1 20.6 .8 2.5
Asia China 39 Mainland. 40 Taiwan 41 India 42 Israel 43 Korea (South) 44 Malaysia 45 Philippines 46 Thailand 47 Other Asia	.7 5.1 .9 1.8 10.6 2.7 6.0 1.8 1.1	.5 4.5 1.2 1.6 9.2 2.4 5.7 1.4 1.0	.6 4.3 1.3 1.4 7.1 2.1 5.4 1.0	.4 4.9 1.2 1.5 6.6 2.1 5.4 .9	.9 5.5 1.8 1.4 6.2 1.9 5.4 .9	.6 6.6 1.7 1.3 5.6 1.7 5.4 .8	.3 6.0 1.9 1.3 4.9 1.6 5.4 .7	3.3 8.2 1.9 1.0 5.0 1.5 5.1 .7	6.1 2.1 1.0 5.7 1.5 5.1 1.0	.3 4.9 2.3 1.0 5.9 1.5 4.9 1.1	2 <sup>r</sup> 3.2 <sup>r</sup> 2.0 1.0 6.0 1.6 4.5 1.2
Africa 48 Egypt. 49 Morocco 50 Zaire 51 Other Africa <sup>4</sup> .	1.2 .8 .1 2.1	1.0 .9 .1 1.9	.7 .9 .1 1.6	.7 .9 .1 1.6	.6 .9 .1 1.4	.6 .9 .1 1.3	.6 .8 .1 1.3	.5 .9 .0 1.3	.5 .9 .1 1.0	.6 .9 .1 1.2	.5 .8 .0 1.2
52 Eastern Europe 53 U.S.S.R. 54 Yugoslavia 55 Other	4.4 .1 2.3 2.0	4.1 .1 2.2 1.8	3.3 .1 1.9 1.4	3.2 .1 1.7 1.4	3.0 .1 1.6 1.3	3.3 .3 1.7 1.3	3.3 .5 1.7 1.2	3.0 .4 1.6 1.0	2.9 .3 1.7 .9	3.1 .4 1.7 1.0	3.0° .4 1.7 1.0°
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*	65.6 21.5 .9 11.8 3.4 6.7 .1 11.4 9.8	62.9 21.2 .7 11.6 2.2 6.0 .1 11.4 9.8 .0	58.3 19.6 .4 11.3 1.8 5.1 .1 10.3 9.7 .0	61.3 22.0 .7 12.4 1.8 4.0 .1 11.1 9.2 .0	63.1 23.9 .8 12.2 1.7 4.3 .1 11.4 8.6 .0	60.7 19.9 .6 14.0 1.3 3.9 .1 12.5 8.3 .0	64.3 25.5 .6 12.8 1.2 3.7 .1 12.3 8.1	54.3 17.1 .6 13.3 1.2 3.7 .1 11.3 7.0	54.6 18.3 .8 12.2 1.3 3.2 .1 11.3 7.4	45.3 11.0 1.0 10.6 1.2 3.0 .1 11.7 6.8	49.8° 15.8 .9 11.5° 1.2 2.7 .1 10.6 7.0
66 Miscellaneous and unallocated <sup>7</sup>	17.3	16.9	17.3	19.8	20.1	18.1	22.3	23.2	21.5	22.2	27.0

<sup>1.</sup> The banking offices covered by these data are the U.S. offices and foreign branches of U.S.-owned banks and of U.S. subsidiaries of foreign-owned banks. Offices not covered include (1) U.S. agencies and branches of foreign banks, and (2) foreign subsidiaries of U.S. banks. To minimize duplication, the data are adjusted to exclude the claims on foreign branches held by a U.S. office or another foreign branch 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 branks and those constituting claims on own foreign branches).

2. Beginning with June 1984 data, reported claims held by foreign branches have been reduced by an increase in the reporting threshold for "shell" branches

from \$50 million to \$150 million equivalent in total assets, the threshold now applicable to all reporting branches.

3. This group comprises the Organization of Petroleum Exporting Countries shown individually, other members of OPEC (Algeria, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, and United Arab Emirates), and Bahrain and Oman (not formally members of OPEC).

Excludes Liberia.
 Includes Canal Zone beginning December 1979.

<sup>6.</sup> Foreign branch claims only.7. Includes New Zealand, Liberia, and international and regional organiza-

#### 3.22 LIABILITIES TO UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States<sup>1</sup>

Millions of dollars, end of period

				19	<b>98</b> 7		1988	
Type, and area or country	1984	1985	1986	Sept.	Dec.	Маг.	June	Sept.
1 Total	29,357	27,825	25,587	28,571	27,852	28,877	29,387	30,989
2 Payable in dollars	26,389	24,296	21,749	24,006	22,468	23,293	24,136	25,758
	2,968	3,529	3,838	4,565	5,384	5,584	5,251	5,231
By type 4 Financial liabilities 5 Payable in dollars 6 Payable in foreign currencies	14,509	13,600	12,133	12,936	11,828	13,134	13,112	13,512
	12,553	11,257	9,609	9,945	8,303	9,459	9,607	10,090
	1,955	2,343	2,524	2,991	3,525	3,675	3,505	3,422
7 Commercial liabilities 8 Trade payables 9 Advance receipts and other liabilities 10 Payable in doilars 11 Payable in foreign currencies	14,849	14,225	13,454	15,635	16,025	15,743	16,275	17,477
	7,005	6,685	6,450	7,548	7,425	6,560	6,867	6,586
	7,843	7,540	7,004	8,086	8,600	9,183	9,409	10,891
	13,836	13,039	12,140	14,061	14,165	13,834	14,529	15,668
	1,013	1,186	1,314	1,574	1,859	1,909	1,746	1,809
By area or country	6,728	7,700	7,917	9,162	8,065	8,983	8,758	9,450
	471	349	270	230	202	241	269	326
	995	857	661	615	364	365	332	329
	489	376	368	505	583	586	626	709
	590	861	542	505	884	883	880	893
	569	610	646	685	493	652	707	697
	3,297	4,305	5,140	6,357	5,346	6,074	5,772	6,326
19 Canada	863	839	399	397	400	467	461	439
20 Latin America and Caribbean 21 Bahamas 22 Bermuda 23 Brazil 24 British West Indies 25 Mexico 26 Venezuela	5,086	3,184	1,944	998	829	1,178	1,175	894
	1,926	1,123	614	280	278	249	211	233
	13	4	4	0	0	0	0	0
	35	29	32	22	25	23	20	35
	2,103	1,843	1,146	618	459	807	878	581
	367	15	22	17	13	15	26	2
	137	3	0	3	0	2	0	0
27 Asia	1,777	1,815	1,805	2,300	2,429	2,426	2,641	2,672
28 Japan	1,209	1,198	1,398	1,830	2,042	1,987	2,066	2,076
29 Middle East oil-exporting countries <sup>2</sup>	155	82	8	7	8	11	11	11
30 Africa	14 0	12 0	1	2 0	4 1	5 3	2	3
32 All other <sup>4</sup>	41	50	67	76	100	75	74	55
Commercial liabilities   33	4,001	4,074	4,446	4,951	5,635	5,738	5,836	6,855
	48	62	101	59	134	156	150	203
	438	453	352	437	451	441	433	470
	622	607	715	674	916	818	798	1,203
	245	364	424	336	428	463	535	653
	257	379	385	556	559	527	482	510
	1,095	976	1,341	1,473	1,668	1,798	1,848	2,186
40 Canada	1,975	1,449	1,405	1,399	1,301	1,392	1,168	1,106
41 Latin America and Caribbean 42 Bahamas 43 Bermuda 44 Brazil 45 British West Indies 46 Mexico 47 Venezuela	1,871	1,088	924	1,082	865	938	996	995
	7	12	32	22	19	15	58	20
	114	77	156	252	168	325	272	222
	124	58	61	40	46	59	53	58
	32	44	49	47	19	14	28	30
	586	430	217	231	189	164	233	178
	636	212	216	176	162	85	111	204
48 Asia	5,285	6,046	5,080	6,511	6,573	5,888	6,262	6,644
	1,256	1,799	2,042	2,422	2,580	2,510	2,659	2,767
	2,372	2,829	1,679	2,104	1,964	1,062	1,318	1,312
51 Africa	588	587	619	572	574	575	624	462
	233	238	197	151	135	139	115	106
53 All other <sup>4</sup>	1,128	982	980	1,119	1,078	1,211	1,390	1,414

Comprises Algeria, Gabon, Libya, and Nigeria.
 Includes nonmonetary international and regional organizations.
 Revisions include a reclassification of transactions, which also affects the totals for Asia and the grand totals.

<sup>1.</sup> 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).

# International Statistics April 1989

#### 3.23 CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States<sup>1</sup>

Millions of dollars, end of period

	****	4004		19	987		1988	
Type, and area or country	1984	1985	1986	Sept.	Dec.	Маг.	June	Sept.
1 Total	29,901	28,876	36,265	33,265	31,967	31,445	38,716	37,497
2 Payable in dollars	27,304	26,574	33,867	30,705	29,114	29,368	36,637	34,899
	2,597	2,302	2,399	2,561	2,854	2,077	2,078	2,597
By rype 4 Financial claims 5 Deposits 6 Payable in dollars 7 Payable in foreign currencies 8 Other financial claims 9 Payable in dollars 10 Payable in foreign currencies.	19,254	18,891	26,273	22,847	21,338	20,612	27,102	26,508
	14,621	15,526	19,916	17,274	15,214	13,257	20,037	19,866
	14,202	14,911	19,331	16,366	13,997	12,604	19,195	18,666
	420	615	585	908	1,217	654	842	1,200
	4,633	3,364	6,357	5,572	6,124	7,355	7,064	6,642
	3,190	2,330	5,005	4,448	5,020	6,301	6,238	5,814
	1,442	1,035	1,352	1,124	1,104	1,054	826	828
11 Commercial claims 12 Trade receivables 13 Advance payments and other claims	10,646	9,986	9,992	10,419	10,630	10,832	11,614	10,989
	9,177	8,696	8,783	9,420	9,565	9,719	10,558	10,004
	1,470	1,290	1,209	9 <del>99</del>	1,065	1,113	1,056	985
14 Payable in dollars	9,912	9,333	9,530	9,891	10,097	10,464	11,204	10,419
	735	652	462	528	533	369	410	570
By area or country	5,762	6,929	10,744	10,785	10,182	10,314	12,577	11,126
	15	10	41	26	7	15	16	49
	126	184	138	171	360	335	185	212
	224	223	116	103	122	112	181	119
	66	161	151	157	351	336	337	364
	66	74	185	44	84	57	82	84
	4,864	6,007	9,855	10,074	9,008	9,210	11,407	9,675
23 Canada	3,988	3,260	4,808	3,295	3,293	2,777	3,074	3,473
24 Latin America and Caribbean 25 Bahamas 26 Bermuda 27 Brazil 28 British West Indies 29 Mexico 30 Venezuela	8,216	7,846	9,291	7,568	6,817	6,572	10,898	11,177
	3,306	2,698	2,628	3,299	1,804	2,349	4,145	4,088
	6	6	6	2	7	43	126	138
	100	78	86	113	63	86	46	65
	4,043	4,571	6,078	3,705	4,427	3,561	6,077	6,421
	215	180	174	174	172	154	147	133
	125	48	21	18	19	35	28	27
31 Asia	961	731	1,317	1,105	908	874	446	610
	353	475	999	737	628	708	211	425
	13	4	7	10	10	7	6	6
34 Africa	210	103	85	71	65	53	60	96
	85	29	28	14	7	7	10	9
36 All other <sup>4</sup>	117	21	28	24	72	23	47	26
Commercial claims   37	3,801	3,533	3,725	4,166	4,190	4,201	4,901	4,261
	165	175	133	169	179	192	159	171
	440	426	431	462	652	554	686	535
	374	346	444	551	562	637	770	604
	335	284	164	190	135	151	173	146
	271	284	217	206	185	172	262	182
	1,063	898	999	1,228	1,086	1,084	1,300	1,187
44 Canada	1,021	1,023	934	1,051	931	1,155	946	933
45 Latin America and Caribbean 46 Bahamas 47 Bermuda 48 Brazil 49 British West Indies 50 Mexico 51 Venezuela	2,052	1,753	1,857	1,732	1,947	1,973	2,090	2,122
	8	13	28	12	19	14	13	12
	115	93	193	143	170	171	174	161
	214	206	234	231	227	214	234	236
	7	6	39	20	26	24	25	22
	583	510	412	369	368	374	399	462
	206	157	237	192	298	314	343	293
52 Asia	3,073	2,982	2,755	2,800	2,919	2,857	3,002	2,981
	1,191	1,016	881	1,027	1,160	1,109	1,169	956
	668	638	563	434	450	408	445	407
55 Africa	470	437	500	407	401	419	422	419
	134	130	139	124	144	126	136	136
57 All other <sup>4</sup>	229	257	222	262	241	227	253	272

<sup>1.</sup> 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

_	Millions of dollars										
				1988				1988			
	Transactions, and area or country	1986	1987	Jan. – Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec. <sup>p</sup>
					υ	.S. согрога	ate securitie	es			
	STOCKS										
1	Foreign purchases	148,114	249,122	180,951	20,007	19.207	17,275	11.971	13,232	11.973	11,215
2	Foreign sales	129,395	232,849	183,014	19,678	18,383	16,704	12,552	14,852	11,861	12,464
3	Net purchases, or sales (-)	18,719	16,272	-2,062	329	824	572	581	-1,620	112	-1,249
4	Foreign countries	18,927	16,321	-1,887	287	793	548	-554	-1,507	89	-1,204
6 7 8 9 10 11 12 13 14 15 16	Europe France Germany Netherlands Switzerland United Kingdom Canada Latin America and Caribbean Middle East Other Asia Japan Africa Other countries	9,559 459 341 936 1,560 4,826 816 3,031 976 3,876 3,305 297 373	1,932 905 -70 892 -1,123 631 1,048 1,318 -1,360 12,896 11,365 123 365	-3,428 -281 223 -535 -2,242 -1,034 1,088 1,248 -2,466 1,362 1,923 188 121	33 121 -36 -56 -204 146 -172 -116 -549 1,039 1,187 3	227 -34 -3 20 -90 253 58 58 -159 518 475 78 13	287 -21 9 -5 -37 234 162 159 91 -228 -282 41 36	-616 -37 -14 -56 -506 245 44 310 -188 -127 24 5	-128 89 107 17 -217 -41 -116 374 -846 -693 -626 5 -102	-901 -49 -20 -30 -268 -579 98 151 138 133 21 6	-776 -64 -59 -1 -273 -423 275 -23 -132 -567 -407 -1
18	Nonmonetary international and regional organizations	-208	-48	-175	42	31	23	-28	-112	23	45
10	Bonds <sup>2</sup>	122 160	105 956	94 343	0 241	e 277	5 066	7 450	7,552	7 650	8 422
	Foreign purchases	123,169 72,520	105,856 78,312	86,362 57,721	8,341 4,590	8,277 5,064	5,966 4,144	7,450 5,048	4,674	7,650 4,794	8,423 4,447
	Net purchases, or sales (-)	50,648	27,544	28,641	3,751	3,213	1,822	2,401	2,878 <sup>r</sup>	2,856	3,976
	Foreign countries	49,801	26,804	29,188	3,569	3,190	1,837	2,337	3,002 <sup>r</sup>	2,825	3,973
23 24 25 26 27 28 29 30 31 32 33 34 35	Europe France France Germany Netherlands Switzerland United Kingdom Canada Latin America and Caribbean Middle East Other Asia Japan Africa Other countries	39,313 389 -251 387 4,529 33,900 548 1,552 -3,113 11,346 9,611 16	21,989 194 33 269 1,587 19,770 1,296 2,857 -1,314 2,021 1,622 16 -61	17,886 143 1,344 1,514 513 13,642 711 1,930 -174 8,900 7,686 -8 -58	2,203 15 226 55 -71 1,738 216 174 -124 1,091 1,049 4 5	1,744 -7 8 17 -139 1,685 130 254 -101 1,152 1,035 0 10	1,482 5 166 41 84 1,188 27 193 -87 254 178 1 -33	1,611 90 160 415 97 793 -155 45 -14 916 575 1 -67	2,341 45 34 545 175 1,339 20 198 -45 485' 381' 4 -1	1,240 13 -122 171 -13 1,141 5 58 143 1,353 1,210 -1 26	2,554 -130 75 17 273 2,468 178 240 159 840 746 0
30	Nonmonetary international and regional organizations	847	740	-547	182	23	-14	64	-124	31	3
						Foreign	securities				
37	Stocks, net purchases, or sales (-)	-1,853	1,081	-1,685	-160	-126	-257	-57	-126 <sup>r</sup>	-186	-1,046
38 39	Foreign purchasesForeign sales	49,149 51,002	95,458 94,377	74,720 76,405	6,413 6,573	7,052 7,178	5,904 6,161	5,054 5,111	6,070° 6,196	7,625 7,810	7,414 8,460
40 41 42	Bonds, net purchases, or sales (~) Foreign purchases Foreign sales	-3,685 166,992 170,677	-7,946 199,089 207,035	-9,999 217,576 227,575	-699 17,033 17,732	-659 19,224 19,882	-363 17,038 17,401	-509 25,271 25,780	-3,407' 20,525 23,932'	431 20,873 20,443	-1,550 21,627 23,177
43	Net purchases, or sales (-), of stocks and bonds	-5,538	-6,865	-11,684	-858	-785	-620	-566	-3,533 <sup>r</sup>	245	-2,595
44	Foreign countries	-6,493	-6,757	-12,160	-770	-759	-650	-547	-3,582 <sup>r</sup>	209	-2,690
46 47 48 49	Europe Canada Latin America and Caribbean Asia Africa Other countries	-18,026 -876 3,476 10,858 52 -1,977	-12,101 -4,072 828 9,299 89 -800	-10,315 -3,799 1,477 1,097 -54 -566	-1,185 -190 301 552 1 -248	-488 -319 -48 237 11 -153	-897 216 -34 -114 37 143	-446 -730 290 189 28 121	-2,881 -273 -120 112' -189 -230	-479 392 59 166 18 52	-1,545 -658 -33 39 -33 -461
51	Nonmonetary international and regional organizations	955	-108	476	-89	-26	30	-19	49	36	95
_	<del></del>										

Comprises oil—exporting countries as follows: Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
 Includes state and local government securities, and securities of U.S. government agencies and corporations. Also includes issues of new debt securi-

ties sold abroad by U.S. corporations organized to finance direct investments

# International Statistics ☐ April 1989

#### 3.25 MARKETABLE U.S. TREASURY BONDS AND NOTES Foreign Transactions

Millions of dollars

			1988	1988							
Country or area	1986	1987	Jan Dec.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.p	
			Transac	tions, net	purchases	or sales (	(–) during	period <sup>1</sup>			
1 Estimated total <sup>2</sup>	19,388	25,587	48,529	-2,161	905	-383	-1,937	2,193'	8,582	133	
2 Foreign countries <sup>2</sup>	20,491	30,889	47,842	-3,336	2,156	-149	~2,259	-244 <sup>r</sup>	8,247	2,144	
3 Europe <sup>2</sup> 4 Belgium—Luxembourg. 5 Germany <sup>2</sup> 6 Netherlands. 7 Sweden Switzerland <sup>2</sup> 9 United Kingdom 10 Other Western Europe 11 Eastern Europe 12 Canada	16,326 -245 7,670 1,283 132 329 4,546 2,613 0 881	23,716 653 13,330 -913 210 1,917 3,975 4,563 -19 4,526	14,255 923 -5,348 -356 -323 -1,074 9,667 10,776 -10 3,761	-3,226 -68 -4,241 -796 -232 654 47 1,420 -10 669	-1,460 122 -4,240 312 -187 -51 837 1,755 -9 -314	-836 -209 -2,020 -346 175 344 416 803 0 -315	-1,233 -333 -720 -58 -121 -1,355 2,023 -663 -7 -167	-175 -3 277 41 -162 87 -1,019 615 -10 633	1,719 133 -1,015 135 355 -411 1,945 577 -2 -368	299 -90 -406 -114 118 -18 -231 1,054 -15 788	
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	926 -96 1,130 -108 1,345 -22 -54 1,067	-2,192 150 -1,142 -1,200 4,488 868 -56 407	695 -109 1,112 -308 27,357 21,753 -13 1,786	-580 2 63 -645 -381 -52 -1 183	0 -2 57 -55 3,246 3,006 -10 694	-312 -128 -292 108 919 1,540 5	269 -17 285 1 -1,351 -2,841 31 193	-574 1 -331 -244 -107' 220' 0 -21	582 0 506 77 6,870 4,224 -8 -548	-105 0 139 -244 812 -157 -7 358	
21 Nonmonetary international and regional organizations	-1,104 -1,430 157	-5,300 -4,387 3	689 1,142 -31	1,174 1,546 -38	-1,251 -1,137 -14	-234 -282 -8	323 294 0	2,438 2,365 0	335 489 10	-2,011 -2,019 10	
Memo 24 Foreign countries <sup>2</sup> 25 Official institutions 26 Other foreign <sup>2</sup>	14,214	30,889 31,064 -181	47,842 26,593 21,246	-3,336 -1,658 -1,678	2,156 -2,362 4,518	-149 -1,450 1,301	-2,259 -1,481 -779	-244 <sup>r</sup> 577 <sup>r</sup> -821 <sup>r</sup>	8,247 2,196 6,050	2,144 2,212 -68	
Oil-exporting countries 27 Middle East 3	-1,529 5	-3,142 16	1,715	-201 0	295 0	449 0	-182 0	-1,023 0	2,121 0	881 0	

<sup>1.</sup> Estimated official and private transactions in marketable U.S. Treasury securities with an original maturity of more than 1 year. Data are based on monthly transactions reports. Excludes nonmarketable U.S. Treasury bonds and notes held by official institutions of foreign countries.

2. Includes U.S. Treasury notes publicly issued to private foreign residents denominated in foreign currencies.

Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
 Comprises Algeria, Gabon, Libya, and Nigeria.

#### 3.26 DISCOUNT RATES OF FOREIGN CENTRAL BANKS

Percent per year

	Rate on	Feb. 28, 1989		Rate on Feb. 28, 1989		Rate on	Feb. 28, 1989	
Country	Percent	Month effective	Country	Percent	Month effective	Country	Percent	Month effective
Austria Belgium Brazil Canada Denmark	4.5 8.25 49.0 11.86 7.0	Jan. 1989 Jan. 1989 Mar. 1981 Feb. 1989 Oct. 1983	France <sup>1</sup> Germany, Fed. Rep. of Italy Japan Netherlands	8.25 4.0 12.5 2.5 5.0	Jan. 1989 Jan. 1989 Aug. 1988 Feb. 1987 Jan. 1989	Norway. Switzerland United Kingdom <sup>2</sup> . Venezuela.	8.0 4.0  8.0	June 1983 Jan. 1989 Oct. 1985

As of the end of February 1981, the rate is that at which the Bank of France discounts Treasury bills for 7 to 10 days.
 Minimum lending rate suspended as of Aug. 20, 1981.
 NOTE. Rates shown are mainly those at which the central bank either discounts

or makes advances against eligible commercial paper and/or government commercial banks or brokers. For countries with more than one rate applicable to such discounts or advances, the rate shown is the one at which it is understood the central bank transacts the largest proportion of its credit operations.

#### 3.27 FOREIGN SHORT-TERM INTEREST RATES

Percent per year, averages of daily figures

Country, or type 1986 1987	1096 1097		1988	1988						1989		
	1987	Aug.		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.			
1 Eurodollars 2 United Kingdom 3 Canada 4 Germany. 5 Switzerland	6.70	7.07	7.86	8.47	8.31	8.51	8.91	9.30	9.28	9.61		
	10.87	9.65	10.28	11.29	12.09	11.94	12.23	13.07	13.06	12.97		
	9.18	8.38	9.63	9.92	10.48	10.48	10.86	11.15	11.34	11.69		
	4.58	3.97	4.28	5.28	4.93	5.03	4.91	5.32	5.63	6.36		
	4.19	3.67	2.94	3.57	3.34	3.62	4.10	4.77	5.31	5.69		
6 Netherlands 7 France. 8 Italy 9 Belgium. 10 Japan.	5.56	5.24	4.72	4.50	5.51	5.35	5.30	5.60	5.99	6.75		
	7.68	8.14	7.80	7.58	7.86	7.87	8.03	8.36	8.55	9.11		
	12.60	11.15	11.04	11.02	11.27	11.30	11.48	11.96	11.84	12.26		
	8.04	7.01	6.69	7.25	7.39	7.24	7.18	7.38	7.59	8.04		
	4.96	3.87	3.96	3.98	4.15	4.26	4.22	4.16	4.24	4.21		

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 April 1989

#### 3.28 FOREIGN EXCHANGE RATES<sup>1</sup>

Currency units per dollar

	1004	400			19	88		19	89
Country/currency	1986	1987	1988	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
1 Australia/dollar <sup>2</sup> 2 Austria/schilling 3 Belgium/franc 4 Canada/dollar 5 China, P.R./yuan 6 Denmark/krone	67.093	70.136	78.408	79.15	80.96	85.07	85.73	87.05	85.64
	15.260	12.649	12.357	13.135	12.777	12.307	12.359	12.904	13.022
	44.662	37.357	36.783	39.149	38.077	36.670	36.815	38.441	38.792
	1.3896	1.3259	1.2306	1.2267	1.2055	1.2186	1.1962	1.1913	1.1891
	3.4615	3.7314	3.7314	3.7314	3.7314	3.7314	3.7314	3.7314	3.7314
	8.0954	6.8477	6.7411	7.1764	7.0055	6.7547	6.7891	7.1143	7.2094
7 Finland/markka 8 France/franc 9 Germany/deutsche mark 10 Greece/drachma 11 Hong Kong/dollar 12 India/rupee 13 Ireland/punt <sup>2</sup>	5.0721	4.4036	4.1933	4.4282	4.3041	4.1522	4.1408	4.2553	4.3006
	6.9256	6.0121	5.9594	6.3515	6.1975	5.9746	5.9994	6.2538	6.3004
	2.1704	1.7981	1.7569	1.8668	1.8165	1.7491	1.7563	1.8356	1.8505
	139.93	135.47	142.00	151.47	148.71	145.22	146.10	152.25	154.72
	7.8037	7.7985	7.8071	7.8106	7.8133	7.8095	7.8062	7.8047	7.8009
	12.597	12.943	13.899	14.490	14.720	14.966	15.019	15.092	15.240
	134.14	148.79	152.49	143.60	147.30	152.70	152.29	145.82	144.10
14 Italy/lira 15 Japan/yen 16 Malaysia/ringgit. 17 Netherlands/guilder 18 New Zealand/dollar <sup>2</sup> 19 Norway/krone 20 Portugal/escudo	1491.16	1297.03	1302.39	1393.15	1353.36	1300.22	1295.61	1345.12	1355.28
	168.35	144.60	128.17	134.32	128.68	123.20	123.61	127.36	127.74
	2.5830	2.5185	2.6189	2.6643	2.6785	2.6779	2.6935	2.7221	2.7307
	2.4484	2.0263	1.9778	2.1063	2.0486	1.9729	1.9824	2.0723	2.0895
	52.456	59.327	65.558	61.480	62.113	64.067	63.621	62.412	61.629
	7.3984	6.7408	6.5242	6.9150	6.7400	6.5796	6.5234	6.6808	6.7254
	149.80	141.20	144.26	154.18	150.13	145.57	145.56	150.74	152.10
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 <sup>2</sup>	2.1782	2.1059	2.0132	2.0409	2.0202	1.9616	1.9442	1.9404	1.9285
	2.2918	2.0385	2.1900	2.4575	2.4662	2.3943	2.3487	2.3847	2.4570
	884.61	825.93	734.51	723.00	712.72	696.08	687.89	685.28	680.28
	140.04	123.54	116.52	124.36	120.02	115.17	113.73	114.78	115.67
	27.933	29.471	31.847	32.953	32.989	32.989	33.016	33.132	33.115
	7.1272	6.3468	6.1369	6.4448	6.2694	6.0968	6.0888	6.2725	6.3238
	1.7979	1.4918	1.4642	1.5763	1.5372	1.4675	1.4799	1.5619	1.5740
	37.837	31.756	28.636	28.914	28.880	28.170	28.199	27.821	27.716
	26.314	25.774	25.312	25.548	25.365	25.146	25.146	25.322	25.386
	146.77	163.98	178.13	168.40	173.87	180.85	182.58	177.37	175.34
MEMO 31 United States/dollar <sup>3</sup>	112.22	96.94	92.72	97.91	95.10	91.91	91.88	95.12	95.77

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.

 Yalue 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
p	Preliminary	n.e.c.	Not elsewhere classified
r	Revised (Notation appears on column heading when	IPCs	Individuals, partnerships, and corporations
	about half of the figures in that column are changed.)	REITs	Real estate investment trusts
*	Amounts insignificant in terms of the last decimal place	RPs	Repurchase agreements
	shown in the table (for example, less than 500,000	SMSAs	Standard metropolitan statistical areas

#### General Information

Minus signs are used to indicate (1) a decrease, (2) a negative figure, or (3) an outflow.

when the smallest unit given is millions)

"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.

Cell not applicable

In some of the tables, details do not add to totals because of rounding.

#### STATISTICAL RELEASES

### List Published Semiannually, with Latest Bulletin Reference

	Issue	Page
Anticipated schedule of release dates for periodic releases	December 1988	A77

### SPECIAL TABLES

#### Published Irregularly, with Latest Bulletin Reference

Assets and liabilities of commercial banks, March 31, 1987	October 1987	A70
Assets and liabilities of commercial banks, June 30, 1987	February 1988	A70
Assets and liabilities of commercial banks, September 30, 1987	April 1988	A70
Assets and liabilities of commercial banks, December 31, 1987	June 1988	A70
Assets and liabilities of U.S. branches and agencies of foreign banks, September 30, 1987	February 1988	A76
Assets and liabilities of U.S. branches and agencies of foreign banks, December 31, 1987	June 1988	A76
Assets and liabilities of U.S. branches and agencies of foreign banks, March 31, 1988	September 1988	A82
Assets and liabilities of U.S. branches and agencies of foreign banks, June 30, 1988	January 1989	A78
Terms of lending at commercial banks, February 1988	May 1988	A70
Terms of lending at commercial banks, May 1988	September 1988	A70
Terms of lending at commercial banks, August 1988	January 1989	A72
Terms of lending at commercial banks, November 1988	April 1989	A72
Pro forma balance sheet and income statements for priced service operations, June 30, 1987	November 1987	A74
Pro forma balance sheet and income statements for priced service operations, September 30, 1987	February 1988	A80
Pro forma balance sheet and income statements for priced service operations, March 31, 1988	August 1988	A70

### 4.23 TERMS OF LENDING AT COMMERCIAL BANKS Survey of Loans Made, November 7-11, 19881

A. Commercial and Industrial Loans<sup>2</sup>

	Amount of	Average	Weighted average	Lo	an rate (perce	ent)	Loans made	Partici-	Most
Characteristic	loans (thousands of dollars)	size (thousands of dollars)	maturity <sup>3</sup> Days	Weighted average effective <sup>4</sup>	Standard error <sup>5</sup>	Inter- quartile range <sup>6</sup>	under commit- ment (percent)	pation loans (percent)	common base pricing rate?
ALL BANKS									
1 Overnight <sup>8</sup>	10,032,481	4,728	*	9.27	.10	8.94-9.35	58.9	10.7	Fed funds
2 One month and under 3 Fixed rate 4 Floating rate	5,792,879 4,782,599 1,010,280	776 1,044 374	18 17 20	9.51 9.39 10.11	.19 .24 .16	9.11-9.95 9.11-9.70 9.36-10.49	77.9 76.6 84.2	12.2 13.5 6.1	Other Other Other
5 Over one month and under a year 6 Fixed rate	6,938,988 4,276,464 2,662,525	129 154 102	141 105 199	10.51 10.15 11.10	.17 .20 .16	9.58-11.34 9.35-11.07 10.38-11.63	81.4 84.4 76.5	11.8 11.6 12.1	Prime Domestic Prime
8 Demand <sup>9</sup> 9 Fixed rate 10 Floating rate	13,378,620 1,714,414 11,664,206	267 666 245	* *	10.80 9.66 10.96	.20 .14 .20	9.25-12.01 9.00-10.22 9.57-12.13	83.4 92.4 82.1	8.4 15.7 7.3	Prime Domestic Prime
11 Total short term	36,142,969	318	48	10.11	.15	9.09–11.02	75.3	10.3	Prime
12 Fixed rate (thousands of dollars) 13 1-24. 14 25-49. 15 50-99. 16 100-499. 17 500-999. 18 1000 and over.	20,378,070 199,044 124,207 147,692 377,087 334,234 19,195,807	547 8 33 64 184 671 7,885	29 106 99 98 89 47 26	9.51 12.19 11.52 12.10 10.86 10.03 9.42	.14 .16 .15 .30 .12 .11	8.97-9.76 11.46-13.00 10.71-12.19 11.22-12.72 10.05-11.57 9.20-10.71 8.94-9.67	70.4 20.0 26.1 24.0 47.9 72.5 71.9	12.2 .1 3.6 .9 2.8 10.3 12.7	Fed funds Other Prime Prime Prime Domestic Fed funds
19 Floating rate (thousands of dollars) 20 1-24 21 25-49 22 50-99 23 100-499 24 500-999 25 1000 and over	15,764,899 355,261 413,527 677,716 2,651,834 1,210,272 10,456,288	207 10 34 66 198 653 5,212	134 149 169 163 182 157	10.89 12.12 11.92 11.65 11.38 11.20 10.59	.19 .09 .08 .08 .06 .07	9.62-11.91 11.55-12.68 11.30-12.68 11.02-12.13 10.52-11.91 10.47-11.85 9.20-11.63	81.8 69.3 77.6 79.5 86.0 86.0 80.9	7.8 .9 3.3 2.8 10.0 7.7 8.0	Prime Prime Prime Prime Prime Prime Prime
			Months	l I	]				
26 Total long term	2,576,575	173	47	10.79	.25	9.54–11.63	70.8	9.1	Prime
27 Fixed rate (thousands of dollars) 28 1-99 100-499 30 500-999 31 1000 and over	1,074,644 126,456 48,232 32,073 867,884	147 19 172 635 5,393	46 74 59 56 40	10.48 12.65 11.53 10.60 10.11	.43 .31 .27 .41	9.12-11.29 11.57-12.68 11.00-12.40 9.64-11.49 8.88-11.07	79.7 26.4 35.3 85.6 89.7	3.1 .2 2.9 .0 3.7	Domestic Other Prime Other Domestic
32 Floating rate (thousands of dollars)	1,501,931 152,876 362,589 137,278 849,187	196 27 220 657 3,942	49 63 48 53 46	11.00 12.05 11.69 11.30 10.47	.22 .17 .20 .21	9.96-11.74 11.57-12.68 10.52-12.13 10.52-11.91 9.29-11.57	64.4 25.8 48.5 50.1 80.5	13.3 1.7 16.1 5.8 15.5	Prime Prime Prime Prime Prime
				Loan rate	(percent)			 	}
			Days	<del></del>	<u> </u>	Prime rate <sup>11</sup>		İ	
	1		! 	Effective <sup>4</sup>	Nominal <sup>10</sup>	}			
LOANS MADE BELOW PRIME 12							4		
37 Overnight <sup>8</sup> 38 One month and under 39 Over one month and under a year 40 Demand <sup>9</sup>		9,008 3,056 628 1,728	16 128 *	9.13 9.19 9.54 9.21	8.74 8.80 9.18 8.84	10.00 10.00 10.07 10.01	56.7 78.3 93.4 65.4	12.5 13.5 12.1 8.6	
41 Total short term	22,399,574	2,096	30	9.22	8.84	10.01	68.8	11.9	
42 Fixed rate	17,441,987 4,957,587	2,500 1,337	23 94	9.19 9.33	8.81 8.96	10.01 10.04	69.0 68.1	13.9 4.9	
			Months						
44 Total long term	1,015,037	750	31	9.43	9.11	10.11	94.0	9.8	
45 Fixed rate	512,241 502,796	813 695	26 37	9.20 9.66	8.94 9.27	10.02 10.19	91.7 96.3	0.0 19.7	

# 4.23—Continued

# A. Commercial and Industrial Loans<sup>2</sup>—Continued

	Amount of	Average	Weighted	Lo	an rate (perce	ent)	Loans made	Partici-	Most
Characteristic	loans (thousands of dollars)	size (thousands of dollars)	average maturity <sup>3</sup> Days	Weighted average effective <sup>4</sup>	Standard error <sup>5</sup>	Inter- quartile range <sup>6</sup>	under commit- ment (percent)	pation loans (percent)	common base pricing rate <sup>7</sup>
LARGE BANKS			-				· <del></del>		
1 Overnight <sup>8</sup>	7,580,092	7,985	*	9.36	.16	8.94-9.42	66.1	13.9	Fed funds
2 One month and under	4,379,053 3,729,185 649,869	3,029 3,951 1,295	18 17 21	9.38 9.29 9.90	.29 .42 .18	9.11-9.89 9.04-9.70 9.30-10.47	76.8 75.2 85.9	12.4 13.8 4.6	Other Other Domestic
5 Over one month and under a year 6 Fixed rate	4,458,520 3,313,942 1,144,578	903 2,006 349	125 99 202	10.18 10.03 10.62	.14 .15 .27	9.44-11.07 9.35-10.94 9.88-11.48	91.7 93.9 85.5	11.9 14.4 4.6	Domestic Domestic Prime
8 Demand <sup>9</sup>	8,766,153 976,243 7,789,910	634 2,411 580	* *	10.78 9.89 10.90	.39 .17 .40	9.20-12.01 9.18-10.47 9.20-12.19	80.5 90.0 79.3	6.3 1.4 6.9	Prime Domestic Prime
11 Total short term	25,183,818	1,190	39	10.00	.13	9.09-10.61	77.5	10.6	Prime
12 Fixed rate (thousands of dollars) 13 1-24 14 25-49 15 50-99 16 100-499 17 500-999 18 1000 and over	15,177,755 7,762 10,019 20,468 118,503 169,961 14,851,042	3,877 10 33 67 217 693 8,547	28 81 73 60 55 34 28	9.52 11.78 11.38 11.42 10.76 10.27 9.50	.18 .22 .26 .32 .14 .08	9.02-9.80 11.35-12.57 10.51-12.05 10.94-12.09 10.09-11.50 9.55-11.03 9.01-9.80	75.0 21.7 41.3 46.7 69.7 78.3 75.1	13.6 .0 .0 .4 3.4 13.9 13.7	Fed funds Prime Prime Prime Prime Prime Domestic Fed funds
19 Floating rate (thousands of dollars) 20 1-24 21 25-49 22 50-99 23 100-499 24 500-999 25 1000 and over	10,006,063 61,274 92,129 178,726 898,907 595,723 8,179,305	580 11 34 67 209 658 6,774	112 133 154 157 148 150 104	10.73 11.88 11.75 11.53 11.24 11.07 10.61	.36 .15 .13 .13 .09 .07	9.25-12.01 11.02-12.68 11.02-12.40 10.75-12.13 10.47-11.71 10.47-11.63 9.18-12.01	81.3 83.1 85.8 88.4 89.3 92.1 79.4	6.2 .4 1.0 2.1 5.2 8.2 6.4	Prime Prime Prime Prime Prime Prime Prime Prime
			Months	ļ					
26 Total long term	1,538,426	972	42	10.22	.29	9.19-11.07	93.3	9.5	Domestic
27 Fixed rate (thousands of dollars) 28 1-99 29 100-499 30 500-999 31 1000 and over	815,479 5,155 9,015 12,287 789,021	2,081 25 244 648 6,179	39 46 61 43 39	10.06 12.46 10.68 10.09 10.04	.61 .44 .50 .72 .26	8.88-11.07 11.07-13.24 10.47-12.01 9.59-10.47 8.88-11.07	95.6 34.9 54.6 94.5 96.5	3.9 .0 .0 .0 4.1	Domestic Other Other Other Domestic
32 Floating rate (thousands of dollars)	722,947 20,573 77,293 59,726 565,355	607 34 211 633 4,841	45 35 45 40 46	10.40 12.15 11.33 10.97 10.15	.29 .35 .25 .23 .31	9.28-11.57 11.02-12.75 10.52-11.73 10.38-11.71 9.23-11.07	90.6 65.2 77.7 81.4 94.3	15.8 .5 5.5 8.7 18.6	Prime Prime Prime Prime Domestic
				Loan rate	(percent)				
			Days	Effective <sup>4</sup>	Nominal <sup>10</sup>	Prime rate <sup>11</sup>		!	
12			-	Luccave	TVOIMINAL				
LOANS MADE BELOW PRIME <sup>12</sup> 37 Overnight <sup>8</sup>	7,039,554	10,028		9.20	8.80	10.00	63.7	14.9	
38 One month and under 39 Over one month and under a year 40 Demand	3,867,427 2,708,342 3,317,365	5,576 5,569 5,428	17 121 *	9.15 9.54 9.18	8.77 9.19 8.81	10.00 9.99 10.00	76.0 96.1 56.0	13.2 12.0 .5	
41 Total short term	16,932,688	6,792	29	9.24	8.86	10.00	70.2	11.3	
42 Fixed rate	13,004,772 3,927,916	7,002 6,180	22 96	9.23 9.25	8.85 8.88	10.00 10.00	72.2 63.5	14.5 .5	
			Months	]					
44 Total long term	819,308	4,031	32	9.22	8.94	9.99	96.9	6.2	
45 Fixed rate	478,578 340,730	4,613 3,425	26 40	9.14 9.34	8.90 8.99	10.00 9.98	95.4 98.9	.0 15.0	

# 4.23 TERMS OF LENDING AT COMMERCIAL BANKS Survey of Loans Made, November 7-11, 1988<sup>1</sup>—Continued A. Commercial and Industrial Loans—Continued<sup>2</sup>

	Amount of	Average	Weighted average	Lo	an rate (perce	ent)	Loans made	Partici-	Most
Characteristic	loans (thousands of dollars)	size (thousands of dollars)	maturity <sup>3</sup> Days	Weighted average effective <sup>4</sup>	Standard error <sup>5</sup>	Inter- quartile range <sup>6</sup>	under commit- ment (percent)	pation loans (percent)	base pricing rate <sup>7</sup>
OTHER BANKS		-							
1 Overnight <sup>8</sup>	2,452,389	2,092	*	8.99	.12	8.73-9.14	36.7	.7	Fed funds
2 One month and under	1,413,826 1,053,415 360,411	235 276 164	17 17 18	9.92 9.72 10.49	.17 .19 .20	9.15-10.15 9.15-9.74 9.83-11.57	81.4 81.5 81.2	11.5 12.4 8.6	Fed funds Fed funds Other
5 Over one month and under a year 6 Fixed rate 7 Floating rate	2,480,468 962,522 1,517,947	51 37 67	170 129 1 <b>9</b> 6	11.11 10.57 11.46	.13 .30 .08	10.38-11.85 9.23-11.96 10.92-11.85	62.8 51.9 69.8	11.7 2.1 17.7	Prime Prime Prime
8 Demand <sup>9</sup>	4,612,468 738,171 3,874,297	127 340 114	* *	10.82 9.36 11.10	.13 .16 .07	10.22–11.57 9.00–9.54 10.47–11.85	88.9 95.5 87.7	12.3 34.7 8.1	Prime Domestic Prime
11 Total short term	10,959,151	119	71	10.36	.22	9.05–11.57	70.4	9.5	Prime
12 Fixed rate (thousands of dollars) 13 1-24 14 25-49 15 50-99 16 100-499 17 500-999 18 1000 and over	5,200,315 191,282 114,188 127,224 258,583 164,273 4,344,766	156 8 33 63 171 650 6,236	33 107 101 104 104 61 19	9.48 12.21 11.53 12.21 10.90 9.79 9.13	.21 .14 .13 .35 .22 .17	8.83-9.52 11.46-13.10 10.92-12.19 11.46-12.83 10.05-11.63 9.00-10.38 8.79-9.27	56.9 19.9 24.8 20.4 37.9 66.5 61.2	8.1 .1 3.9 1.0 2.5 6.5 9.2	Fed funds Other Prime Prime Prime Fed funds Fed funds
19 Floating rate (thousands of dollars) 20 1-24 21 25-49 22 50-99 23 100-499 24 500-999 25 1000 and over	5,758,836 293,988 321,398 498,989 1,752,928 614,549 2,276,984	98 9 33 66 193 648 2,851	161 151 171 164 191 162 128	11.15 12.17 11.97 11.69 11.45 11.32 10.52	.06 .08 .07 .06 .04 .10	10.47-11.85 11.57-12.71 11.35-12.68 11.02-12.19 10.75-12.13 10.47-12.13 9.50-11.19	82.6 66.4 75.3 76.3 84.3 80.1 86.4	10.6 1.0 3.9 3.0 12.4 7.2 14.1	Prime Prime Prime Prime Prime Prime Prime
			Months						
26 Total long term	1,038,149	78	56	11.62	.12	10.75–12.13	37.4	8.4	Prime
27 Fixed rate (thousands of dollars) 28 1–99	259,165 121,301 39,217 19,786 78,862	38 18 161 628 2,374	66 76 59 64 57	11.82 12.66 11.72 10.92 10.82	.45 .48 .14 .52 .13	10.86-12.40 11.57-12.68 11.02-12.40 9.66-11.85 10.76-10.86	29.4 26.1 30.8 80.0 21.2	.6 .2 3.6 .0	Other Other Prime Other Other
32 Floating rate (thousands of dollars) 33 1-99 34 100-499 35 500-999 36 1000 and over	778,983 132,303 285,296 77,552 283,832	121 27 223 677 2,877	52 67 49 64 45	11.56 12.04 11.78 11.55 11.10	.19 .09 .30 .25	10.47-12.13 11.57-12.68 10.52-12.68 11.57-11.91 10.42-11.63	40.1 19.6 40.6 26.0 53.0	11.0 1.9 19.0 3.5 9.3	Prime Prime Prime Prime Prime
				Loan rate	(percent)				
		l	Days	Effective <sup>4</sup>	Nominal <sup>10</sup>	Prime rate <sup>11</sup>			]
LOANS MADE BELOW PRIME <sup>12</sup>	·								•
37 Overnight <sup>8</sup> 38 One month and under 39 Over one month and under a year 40 Demand <sup>5</sup>	2,416,621 1,094,967 635,688 1,319,610	6,950 1,177 131 637	* 15 159	8.93 9.33 9.50 9.28	8.56 8.93 9.14 8.92	10.00 10.01 10.39 10.04	36.3 86.4 81.8 89.2	5.6 14.2 12.4 28.9	
41 Total short term	5,466,886	667	30	9.16	8.79	10.06	64.4	13.8	
42 Fixed rate	4,437,215 1,029,671	867 335	23 88	9.06 9.62	8.68 9.24	10.03 10.19	59.4 86.0	12.0 21.4	
			Months						
44 Total long term	195,729	170	30	10.28	9.81	10.59	81.9	24.7	
45 Fixed rate	33,663 162,066	64 260	26 31	10.03 10.34	9.57 9.86	10.41 10.63	39.3 90.7	0.4 29.7	

### 4.23—Continued

### B. Construction and Land Development Loans<sup>1</sup>

	Amount of	Average	Weighted	L	oan rate (percei	nt)	Loans made	Partici-
Characteristic	loans (thousands of dollars)	size (thousands of dollars)	average maturity (months) <sup>3</sup>	Weighted average effective <sup>4</sup>	Standard error <sup>5</sup>	Inter- quartile range <sup>6</sup>	under commitment (percent)	pation loans (percent)
ALL BANKS								
1 Total	2,404,957	196	15	11.04	.14	10.62-11.57	84.9	17.2
2 Fixed rate (thousands of dollars)	718,378 19,298 13,750 6,219 27,971 651,141	170 6 34 76 214 3,076	7 5 10 10 18 6	10.41 11.59 11.64 11.44 11.27 10.31	.20 .25 .19 .27 .32	9.92-10.64 11.05-12.13 11.02-12.13 11.26-11.57 10.61-12.13 9.92-10.64	81.6 75.9 63.4 68.4 74.8 82.5	7.4 .0 .0 .0 30.4 6.8
8 Floating rate (thousands of dollars) 9 1-24	1,686,579 42,052 45,693 76,861 251,029 1,270,943	209 10 36 67 228 2,765	20 11 8 9 16 22	11.30 12.12 11.83 12.18 11.57 11.15	.10 .11 .10 .12 .05 .15	11.02-11.57 11.57-12.68 11.57-12.19 11.57-13.31 11.03-11.85 11.02-11.57	86.4 83.8 85.9 89.1 88.4 85.9	21.3 3.4 4.6 2.6 3.1 27.3
By type of construction  14 Single family  15 Multifamily  16 Nonresidential	304,238 235,929 1,864,790	40 304 470	13 23 14	11.44 10.98 10.98	.12 .16 .16	11.02–12.13 9.92–11.57 10.61–11.57	82.1 49.4 89.9	1.1 1.7 21.8
Large Banks <sup>13</sup>								
1 Total	1,418,010	897	14	11.02	.21	10.64-11.30	88.6	27.2
2 Fixed rate (thousands of dollars)	484,890 669 665 *	2,888 11 33 *	2 7 9 *	10.46 11.45 11.43 *	.23 .45 .34 *	10.34-10.64 10.94-11.57 11.31-11.57	95.1 79.2 80.1 * *	9.5 .0 .0 * * 9.3
7 500 and over	478,966	9,566	2 21	10.46	.24 .12	10.34-10.64	95.2 85.2	36.4
8 Floating rate (thousands of dollars) 9 1-24 10 25-49 11 50-99 12 100-499 13 500 and over	933,121 4,701 5,965 12,357 99,219 810,879	660 10 36 71 253 3,587	10 14 15 16 21	11.31 12.15 11.63 11.74 11.54 11.27	.12 .18 .16 .11 .07	11.02-11.37 11.57-12.75 11.30-12.13 11.30-12.13 11.30-11.85 11.02-11.57	88.7 92.6 97.8 95.3 83.7	1.1 .8 7.3 1.7 41.6
By type of construction 14 Single family 15 Multifamily 16 Nonresidential	91,849 143,194 1,182,967	152 911 1,443	15 25 13	11.60 11.31 10.94	.14 .12 .21	11.30—12.01 11.02–11.57 10.64–11.30	92.6 63.3 91.3	.0 1.4 32.5
OTHER BANKS <sup>13</sup>								
1 Total	986,946	92	17	11.06	.22	10.47-11.57	79.7	2.7
2 Fixed rate (thousands of dollars)	233,488 18,629 13,085 5,311 24,289	58 6 34 77 223	16 5 10 8 19	10.31 11.59 11.65 11.52 11.32	.35 .21 .24 .48 .43	9.42–11.02 11.06–12.13 11.02–12.13 11.35–11.57 10.67–12.13	53.4 75.8 62.5 65.0 72.2	2.9 .0 .0 .0 27.6
8 Floating rate (thousands of dollars) 9 1-24 10 25-49 11 50-99 12 100-499 13 500 and over	753,458 37,351 39,727 64,504 151,811 460,064	113 10 36 67 213 1,970	18 11 7 9 16 23	11.30 12.12 11.86 12.27 11.59 10.95	.17 .14 .11 .19 .06 .24	10.75-11.63 11.57-12.68 11.57-12.19 11.57-13.31 11.02-12.13 10.47-11.57	87.8 83.1 84.9 87.5 83.9 89.8	2.6 3.6 5.2 1.7 4.0 2.0
By type of construction 14 Single family 15 Multifamily 16 Nonresidential	212,389 92,735 681,823	31 150 216	13 22 18	11.37 10.47 11.05	.21 .31 .27	11.02-12.17 9.92-11.02 10.47-11.57	77.6 27.9 87.4	1.5 2.0 3.2

4.23 TERMS OF LENDING AT COMMERCIAL BANKS Survey of Loans Made, November 7-11, 1988<sup>1</sup>—Continued C. Loans to Farmers<sup>14</sup>

			Size clas	ss of loans (thou	ısands)		
Characteristic	All sizes	\$1-9	\$10-24	\$25-49	\$50-99	\$100-249	\$250 and over
ALL BANKS							
1 Amount of loans (thousands of dollars)	\$753,960 32,302 7.4	\$72,689 19,936 6.1	\$94,609 6,515 8.0	\$93,406 2,611 9.3	\$126,989 1,947 10.2	\$166,393 1,077 7.2	\$199,874 216 4.6
4 Weighted average interest rate (percent) <sup>4</sup>	11.59 .60 10.74–12.13	12.10 .52 11.57–12.55	11.91 .45 11.42–12.40	12.01 .89 11.40–12.68	12.03 .55 11.63–12.47	11.49 .97 10.56–12.01	10.84 .22 10.38-11.57
By purpose of loan Feeder livestock Other livestock Other current operating expenses Farm machinery and equipment Farm real estate Other	11.57 11.72 11.57 12.22 11.53 11.35	12.25 13.31 12.06 11.89 11.54 11.58	11.53 12.75 11.93 12.33 12.14 12.40	12.19 11.62 11.87 * *	11.76 11.98 12.17 * *	11.34 * 11.06 * * 11.71	11.02 * 10.73 * 11.03
Percentage of amount of loans 13 With floating rates	62.6 61.6	51.7 43.2	53.7 48.5	65.8 58.0	52.7 38.5	71.1 56.9	68.4 94.7
By purpose of loan  Feeder livestock  Other livestock  To Other current operating expenses  Farm machinery and equipment  Farm real estate  Other	28.6 13.8 38.0 3.5 3.1 13.1	14.4 4.2 68.6 5.4 1.2 6.2	31.1 6.8 46.5 6.2 4.6 4.7	39.2 6.3 41.1 *	27.7 17.3 32.7 * 9.5	42.0 * 34.8 * * 6.0	16.9 * 27.4 * * 32.4
LARGE BANKS <sup>14</sup>							
Amount of loans (thousands of dollars)     Number of loans     Weighted average maturity (months) <sup>3</sup>	\$273,529 3,480 5.6	\$6,442 1,555 7.0	\$10,980 706 5.7	\$17,162 479 9.7	\$22,379 332 9.6	\$35,282 242 12.3	\$181,285 165 4.0
4 Weighted average interest rate (percent) <sup>4</sup>	11.10 .56 10.47–11.63	12.37 .49 11.81–12.83	12.09 .43 11.57–12.68	11.89 .85 11.46–12.40	11.76 .51 11.30–12.28	11.58 .68 11.02–12.02	10.75 .18 10.38–11.07
By purpose of loan Feeder livestock Other livestock Other current operating expenses Farm machinery and equipment Farm real estate Other	11.08 10.73 11.22 11.99 11.98 11.17	11.86 12.46 12.41 12.71 *	11.71 12.14 12.14 * * 12.29	11.67 12.04 11.87 * 12.00	11.62 * 11.60 * 11.95	11.35 * 11.69 * * * * * * * * * * * * * * * * * * *	10.71 * 10.73 * 10.93
Percentage of amount of loans 13 With floating rates	74.9 91.4	86.8 78.5	94.4 89.7	96:4 87.8	91.2 81.2	95.9 88.3	65.1 94.1
By purpose of loan Feeder livestock Other livestock Other current operating expenses Farm machinery and equipment Farm real estate Other.	16.5 19.0 35.4 .8 .9 27.4	8.7 5.8 68.2 4.2 *	13.7 6.0 61.4 * *	19.1 7.5 52.3 * *	23.3 41.2 * 21.3	28.5 * 35.7 * 28.2	13.5 * 30.2 * 30.5
OTHER BANKS <sup>14</sup>							ļ
1 Amount of loans (thousands of dollars)	\$480,431 28,822 8.2	\$66,248 18,381 6.0	\$83,628 5,808 8.2	\$76,244 2,132 9.2	\$104,611 1,616 10.3	\$131,111 835 6.7	* *
4 Weighted average interest rate (percent) <sup>4</sup>	11.86 .20 11.30–12.47	12.07 .16 11.57–12.50	11.89 .12 11.41–12.36	12.04 .27 11.40–12.68	12.09 .19 11.63–12.47	11.46 .68 10.56–11.91	* *
By purpose of loan Feeder livestock Other livestock  Parm machinery and equipment Farm real estate Other.	11.70 12.72 11.75 12.24 11.48 11.91	12.27 13.43 12.03 11.83 *	11.52 * 11.89 * * *	12.24 11.88 *	11.79 * * * * *	* * * * *	* * * * *

#### 4.23—Continued

#### C. Loans to Farmers14—Continued

	Size class of loans (thousands)						
Characteristic	All sizes	\$1-9	\$10-24	\$25-49	\$50-99	\$100-249	\$250 and over
Percentage of amount of loans 13 With floating rates 14 Made under commitment	55.6 44.6	48.3 39.8	48.4 43.1	58.9 51.3	44.5 29.4	64.5 48.4	*
By purpose of loan 15 Feeder livestock 16 Other livestock 17 Other current operating expenses 18 Farm machinery and equipment 19 Farm real estate 20 Other	35.4 10.8 39.5 5.0 4.4 5.0	15.0 4.0 68.6 5.5 *	33.4 ** 44.6 * *	43.7 * 38.6 * *	28.7	* * * * *	* * * *

\*Fewer than 10 sample loans.

1. The survey of terms of bank lending to business collects data on gross loan extensions made during the first full business week in the mid-month of each quarter by a sample of 340 commercial banks of all sizes. A subsample of 250 banks also report loans to farmers. The sample data are blown up to estimate the lending terms at all insured commercial banks during that week. The estimated terms of bank lending are not intended for use in collecting the terms of loans extended over the entire quarter or residing in the portfolios of those banks. Construction and land development loans include both unsecured loans and loans secured by real estate. Thus, some of the construction and land development loans would be reported on the statement of condition as real estate loans and the

loans would be reported on the statement of condition as real estate loans and the remainder as business loans. Mortgage loans, purchased loans, foreign loans, and loans of less than \$1,000 are excluded from the survey.

As of Dec. 31, 1987, assets of most of the large banks were at least \$6.0 billion.

Por all insured banks total assets averaged \$220 million.

Beginning with the August 1986 survey respondent banks provide information on the type of base rate used to price each commercial and industrial loan made during the survey week. This reporting change is reflected in the new column on the most common base pricing rate in table A and footnote 13 from table B.

3. Average maturities are weighted by loan size and exclude demand loans.
4. Effective (compounded) annual interest rates are calculated from the stated rate and other terms of the loan and weighted by loan size.
5. The chances are about two out of three that the average rate shown would differ by less than this amount from the average rate that would be found by a complete rate of the property complete survey of lending at all banks.

The interquartile range shows the interest rate range that encompasses the

6. The interquartile range shows the interest rate range that encompasses the middle 50 percent of the total dollar amount of loans made.

7. The most common base rate is that rate used to price the largest dollar volume of loans. Base pricing rates include the prime rate (sometimes referred to as a bank's "basic" or "reference" rate); the federal funds rate; domestic money market rates other than the federal funds rate; foreign money market rates; and other base rates not included in the foregoing classifications.

8. Overnight loans are loans that mature on the following business day.

9. Demand loans have no stated date of maturity.

9. Demand loans have no stated date of maturity.

10. Nominal (not compounded) annual interest rates are calculated from survey data on the stated rate and other terms of the loan and weighted by loan size.

11. The prime rate reported by each bank is weighted by the volume of loans extended and then averaged.

12. The proportion of loans made at rates below prime may vary substantially from the proportion of such loans outstanding in banks' portfolios.

13. 58.5 percent of construction and land development loans were priced relative to the prime rate.

14. Among banks reporting loans to farmers (Table C), most "large banks" (survey strata 1 to 3) had over \$600 million in total assets, and most "other banks" (survey strata 1 to 6) had total assets below \$600 million.

The survey of terms of bank lending to farmers now includes loans secured by farm real estate. In addition, the categories describing the purpose of farm loans have now been expanded to include "purchase or improve farm real estate." In previous surveys, the purpose of such loans was reported as "other."

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# Index to Statistical Tables

References are to pages A3-A77 although the prefix "A" is omitted in this index

ACCEPTANCES, bankers (See Bankers acceptances) Agricultural loans, commercial banks, 19, 20, 76 Assets and liabilities (See also Foreigners) Banks, by classes, 18-20 Domestic finance companies, 36 Federal Reserve Banks, 10 Financial institutions, 26 Foreign banks, U.S. branches and agencies, 21 Automobiles Consumer installment credit, 39, 40 Production, 49, 50	Depository institutions Reserve requirements, 8 Reserves and related items, 3, 4, 5, 12 Deposits (See also specific types) Banks, by classes, 3, 18-20, 21 Federal Reserve Banks, 4, 10 Turnover, 15 Discount rates at Reserve Banks and at foreign central banks and foreign countries (See Interest rates) Discounts and advances by Reserve Banks (See Loans) Dividends, corporate, 35
BANKERS acceptances, 9, 23, 24	EMPLOYMENT, 47
Bankers balances, 18-20. (See also Foreigners) Bonds (See also U.S. government securities)	Eurodollars, 24
New issues, 34 Rates, 24	FARM mortgage loans, 38 Federal agency obligations, 4, 9, 10, 11, 31, 32
Branch banks, 21, 57	Federal credit agencies, 33
Business activity, nonfinancial, 46	Federal finance
Business expenditures on new plant and equipment, 35	Debt subject to statutory limitation, and types and own-
Business loans (See Commercial and industrial loans)	ership of gross debt, 30
CARACTER (III )	Receipts and outlays, 28, 29
CAPACITY utilization, 48	Treasury financing of surplus, or deficit, 28
Capital accounts Banks, by classes, 18	Treasury operating balance, 28 Federal Financing Bank, 28, 33
Federal Reserve Banks, 10	Federal funds, 6, 17, 19, 20, 21, 24, 28
Central banks, discount rates, 69	Federal Home Loan Banks, 33
Certificates of deposit, 24	Federal Home Loan Mortgage Corporation, 33, 37, 38
Commercial and industrial loans	Federal Housing Administration, 33, 37, 38
Commercial banks, 16, 19, 72–74	Federal Land Banks, 38
Weekly reporting banks, 19–21 Commercial banks	Federal National Mortgage Association, 33, 37, 38 Federal Reserve Banks
Assets and liabilities, 18–20	Condition statement, 10
Commercial and industrial loans, 16, 18, 19, 20, 21, 72–74	Discount rates (See Interest rates)
Consumer loans held, by type, and terms, 39, 40	U.S. government securities held, 4, 10, 11, 30
Loans sold outright, 19	Federal Reserve credit, 4, 5, 10, 11
Nondeposit funds, 17	Federal Reserve notes, 10
Real estate mortgages held, by holder and property, 38 Terms of lending, 72–77	Federal Savings and Loan Insurance Corporation insured institutions, 26
Time and savings deposits, 3	Federally sponsored credit agencies, 33
Commercial paper, 23, 24, 36	Finance companies
Condition statements (See Assets and liabilities)	Assets and liabilities, 36
Construction, 46, 51, 73	Business credit, 36
Consumer installment credit, 39, 40	Loans, 39, 40
Consumer prices, 46, 48 Consumption expenditures, 53, 54	Paper, 23, 24 Financial institutions
Corporations	Loans to, 19, 20, 21
Nonfinancial, assets and liabilities, 35	Selected assets and liabilities, 26
Profits and their distribution, 35	Float, 4
Security issues, 34, 67	Flow of funds, 41, 43, 44, 45
Cost of living (See Consumer prices)	Foreign banks, assets and liabilities of U.S. branches and
Credit unions, 26, 39. (See also Thrift institutions) Currency and coin, 18	agencies, 21 Foreign currency operations, 10
Currency in circulation, 4, 13	Foreign deposits in U.S. banks, 4, 10, 19, 20
Customer credit, stock market, 25	Foreign exchange rates, 70
	Foreign trade, 56
DEBITS to deposit accounts, 15	Foreigners
Debt (See specific types of debt or securities)	Claims on, 57, 59, 62, 63, 64, 66
Demand deposits  Ranks by classes 18, 21	Liabilities to, 20, 56, 57, 59, 60, 65, 67, 68
Banks, by classes, 18–21 Ownership by individuals, partnerships, and	GOLD
corporations, 22	Certificate account, 10
Turnover, 15	Stock, 4, 56

Government National Mortgage Association, 33, 37, 38 Gross national product, 53	Real estate loans—Continued Terms, yields, and activity, 37 Type of holder and property mortgaged, 38
HOUSING, new and existing units, 51	Repurchase agreements, 6, 17, 19, 20, 21 Reserve requirements, 8
INCOME, personal and national, 46, 53, 54 Industrial production, 46, 49 Installment loans, 39, 40 Insurance companies, 26, 30, 38 Interest rates Bonds, 24 Commercial banks, 72–77	Reserves Commercial banks, 18 Depository institutions, 3, 4, 5, 12 Federal Reserve Banks, 10 U.S. reserve assets, 56 Residential mortgage loans, 37 Retail credit and retail sales, 39, 40, 46
Consumer installment credit, 40 Federal Reserve Banks, 7 Foreign central banks and foreign countries, 69 Money and capital markets, 24 Mortgages, 37 Prime rate, 23	SAVING Flow of funds, 41, 43, 44, 45 National income accounts, 53 Savings and loan associations, 26, 38, 39, 41. (See also Thrift institutions)
International capital transactions of United States, 55–69 International organizations, 59, 60, 62, 65, 66 Inventories, 53	Savings banks, 26, 38, 39 Savings deposits (See Time and savings deposits) Securities (See also specific types) Federal and federally expected gradit appraise, 22
Investment companies, issues and assets, 35 Investments (See also specific types) Banks, by classes, 18, 19, 20, 21, 26 Commercial banks, 3, 16, 18–20, 38 Federal Reserve Banks, 10, 11 Financial institutions, 26, 38	Federal and federally sponsored credit agencies, 33 Foreign transactions, 67 New issues, 34 Prices, 25 Special drawing rights, 4, 10, 55, 56 State and local governments
LABOR force, 47 Life insurance companies (See Insurance companies) Loans (See also specific types) Banks, by classes, 18–20 Commercial banks, 3, 16, 18–20, 72–77 Federal Reserve Banks, 4, 5, 7, 10, 11 Financial institutions, 26, 38 Insured or guaranteed by United States, 37, 38	Deposits, 19, 20 Holdings of U.S. government securities, 30 New security issues, 34 Ownership of securities issued by, 19, 20, 26 Rates on securities, 24 Stock market, selected statistics, 25 Stocks (See also Securities) New issues, 34 Prices, 25
MANUFACTURING	Student Loan Marketing Association, 33
Capacity utilization, 48 Production, 48, 50 Margin requirements, 25 Member banks (See also Depository institutions) Federal funds and repurchase agreements, 6 Reserve requirements, 8 Mining production, 50 Mobile homes shipped, 51 Monetary and credit aggregates, 3, 12	TAX receipts, federal, 29 Thrift institutions, 3. (See also Credit unions and Savings and loan associations) Time and savings deposits, 3, 13, 17, 18, 19, 20, 21 Trade, foreign, 56 Treasury cash, Treasury currency, 4 Treasury deposits, 4, 10, 28 Treasury operating balance, 28
Money and capital market rates, 24 Money stock measures and components, 3, 13 Mortgages (See Real estate loans) Mutual funds, 35 Mutual savings banks (See Thrift institutions)	UNEMPLOYMENT, 47 U.S. government balances Commercial bank holdings, 18, 19, 20 Treasury deposits at Reserve Banks, 4, 10, 28
NATIONAL defense outlays, 29 National income, 53	U.S. government securities Bank holdings, 18–20, 21, 30 Dealer transactions, positions, and financing, 32 Federal Reserve Bank holdings, 4, 10, 11, 30
OPEN market transactions, 9	Federal Reserve Bank holdings, 4, 10, 11, 30 Foreign and international holdings and transactions, 10 30, 68
PERSONAL income, 54 Prices Consumer and producer, 46, 52 Stock market, 25 Prime rate, 23 Producer prices, 46, 52 Production, 46, 49 Profits, corporate, 35	Open market transactions, 9 Outstanding, by type and holder, 26, 30 Rates, 24 U.S. international transactions, 55-69 Utilities, production, 50 VETERANS Administration, 37, 38
REAL estate loans Banks, by classes, 16, 19, 20, 38	WEEKLY reporting banks, 19-21 Wholesale (producer) prices, 46, 52
Financial institutions, 26	YIELDS (See Interest rates)

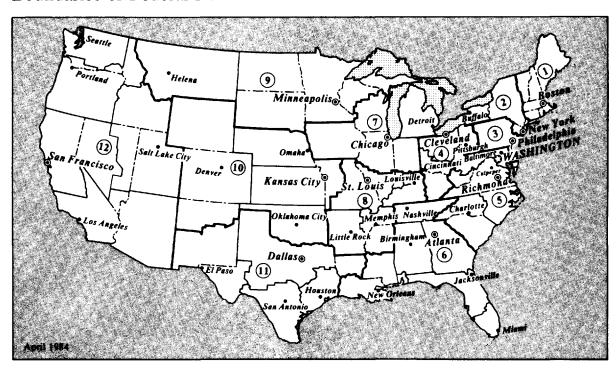
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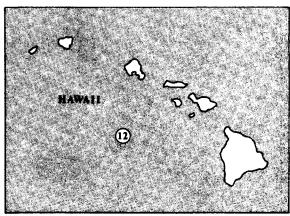
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KANSAS CITY64198	Fred W. Lyons, Jr. Burton A. Dole, Jr.	Roger Guffey Henry R. Czerwinski	
Denver       80217         Oklahoma City       73125         Omaha       68102	James C. Wilson Patience S. Latting Kenneth L. Morrison		Kent M. Scott David J. France Harold L. Shewmaker
DALLAS75222	Bobby R. Inman Hugh G. Robinson	Robert H. Boykin William H.Wallace	Tony J. Salvaggio <sup>1</sup>
El Paso	Diana S. Natalicio Andrew L. Jefferson, Jr. Lawrence E. Jenkins		Sammie C. Clay Robert Smith, III <sup>1</sup> Thomas H. Robertson
SAN FRANCISCO 94120	Robert F. Erburu Carolyn S. Chambers	Robert T. Parry Carl E. Powell	John F. Hoover <sup>1</sup>
Los Angeles.       90051         Portland.       97208         Salt Lake City.       84125         Seattle.       98124	Yvonne B. Burke Paul E. Bragdon Don M. Wheeler Carol A. Nygren	Ca. 2. 10001	Thomas C. Warren <sup>2</sup> Angelo S. Carella <sup>1</sup> E. Ronald Liggett <sup>1</sup> Gerald R. Kelly <sup>1</sup>

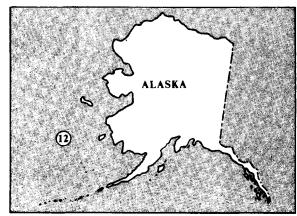
<sup>\*</sup>Additional offices of these Banks are located at Lewiston, Maine 04240; Windsor Locks, Connecticut 06096; Cranford, New Jersey 07016; Jericho, New York 11753; Utica at Oriskany, New York 13424; Columbus, Ohio 43216; Columbia, South Carolina 29210; Charleston, West Virginia 25311; Des Moines, Iowa 50306; Indianapolis, Indiana 46204; and Milwaukee, Wisconsin 53202.

# The Federal Reserve System

Boundaries of Federal Reserve Districts and Their Branch Territories







#### LEGEND

- Boundaries of Federal Reserve Districts
- Boundaries of Federal Reserve Branch
  Territories
- Board of Governors of the Federal Reserve System
- Federal Reserve Bank Cities
- Federal Reserve Branch Cities
- · Federal Reserve Bank Facility

# **Publications of Interest**

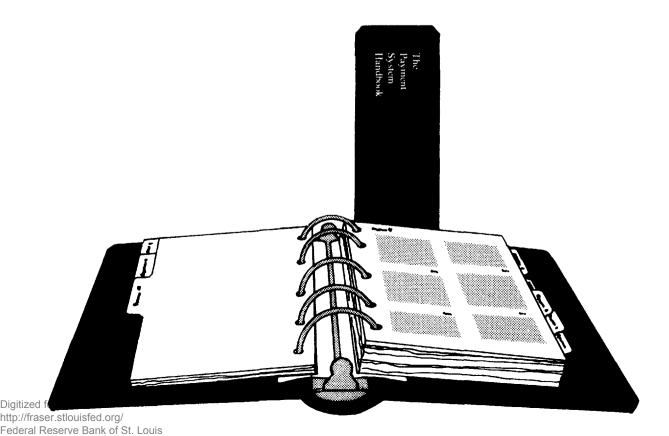
# NEW HANDBOOK AVAILABLE FROM THE REGULATORY SERVICE

The Federal Reserve Board has announced publication of *The Payment System Handbook*. The new handbook, which is part of the *Federal Reserve Regulatory Service*, deals with expedited funds availability, check collection, wire transfers, and risk-reduction policy. It includes Regulation CC (Availability of Funds and Collection of Checks), Regulation J (Collection of Checks and Other Items and Wire Transfers of Funds by Federal Reserve Banks), the Expedited Funds Availability Act and related statutes, official Board commentary on Regulation CC, and policy statements on risk reduction in the payment system. In addition, it contains detailed subject and citation indexes. It is published in loose-leaf binder form and is updated monthly.

To promote public understanding of its regulatory functions, the Board publishes the *Federal Reserve Regulatory Service*, a three-volume loose-leaf service

containing all Board regulations and related statutes, interpretations, policy statements, rulings, and staff opinions. For those with a more specialized interest in the Board's regulations, parts of this service are published separately as handbooks pertaining to monetary policy, securities credit, consumer affairs, and, available for the first time in September 1988, *The Payment System Handbook*.

For domestic subscribers, the annual rate for *The Payment System Handbook* is \$75. For subscribers outside the United States, the price, including additional air mail costs, is \$90. For the *Federal Reserve Regulatory Service*, not including handbooks, the annual rate is \$200 for domestic subscribers and \$250 for subscribers outside the United States. All subscription requests must be accompanied by a check payable to "Board of Governors of the Federal Reserve System." Orders should be addressed to Publications Services, Mail Stop 138, Board of Governors of the Federal Reserve System, Washington, D.C. 20551.



# **Publications of Interest**

# FEDERAL RESERVE CONSUMER CREDIT PUBLICATIONS

The Federal Reserve Board publishes a series of pamphlets covering individual credit laws and topics, as pictured below. The series includes such subjects as how the Equal Credit Opportunity Act protects women against discrimination in their credit dealings, how to use a credit card, and how to resolve a billing error.

The Board also publishes the Consumer Handbook to Credit Protection Laws, a complete guide to consumer credit protections. This 44-page booklet explains how to use the credit laws to shop for credit, apply for it, keep up credit ratings, and complain about an unfair credit.

Three booklets on the mortgage process are also available: A Consumer's Guide to Mortgage Refinancing, A Consumer's Guide to Mortgage Lock-Ins, and A Consumer's Guide to Mortgage Closings. These booklets were prepared in conjunction with the Federal Home Loan Bank Board and in consultation with other federal agencies and trade and consumer groups.

Copies of consumer publications are available free of charge from Publications Services, Mail Stop 138, Board of Governors of the Federal Reserve System, Washington, D.C. 20551. Multiple copies for classroom use are also available free of charge.









