Volume 86 □ Number 1 □ January 2000



# Table of Contents

# 1 RECENT CHANGES IN U.S. FAMILY FINANCES: RESULTS FROM THE 1998 SURVEY OF CONSUMER FINANCES

Using data from the Federal Reserve Board's two most recent Surveys of Consumer Finances, this article provides a detailed picture of changes in the financial condition of U.S. families between 1995 and 1998.

The financial situation of families changed notably in the three-year period. While income continued a moderate upward trend, net worth grew strongly, and the increase in net worth was broadly shared by different demographic groups. A booming stock market accounts for a substantial part of the rise in net worth, but the data also suggest that improvements in financial circumstances extended to many families that did not own stocks.

The indebtedness of families grew, but less rapidly than their assets. Nonetheless, compared with 1995, debt repayments in 1998 accounted for a larger share of the income of the typical family with debt, and the proportion of debtors who were late with their payments by sixty days or more in the year preceding the survey was also higher.

#### 30 STAFF STUDY SUMMARY

A growing number of observers have proposed using subordinated notes and debentures (SND) as a way of increasing market discipline on banks and banking organizations. Although policy proposals vary, all would mandate that banks subject to the policy must issue and maintain a minimum amount of SND. In recent years, the perceived need for more market discipline has derived primarily from the realization that the increasing size and complexity of the major banking organizations has made the supervisor's job of protecting bank safety and soundness ever more difficult. A second important motivation is the desire to find market-based ways of better insulating the banking system from systemic risk. A Federal Reserve staff study of these issues, Using Subordinated Debt as an Instrument of Market Discipline, begins by carefully defining market discipline, discusses the motivation for and theory behind a subordinated debt policy, and presents an extensive summary of existing policy proposals. It then reviews the economic literature on the potential for SND to exert market discipline on banks and presents a wide range of new evidence acquired by the study group. The third major section of the study analyzes many characteristics that an SND policy could have, in terms of both their contribution to market discipline and their operational feasibility.

# 32 INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION FOR NOVEMBER 1999

Industrial production advanced 0.3 percent in November, to 139.5 percent of its 1992 average, after a 0.8 percent increase in October. The rate of capacity utilization for total industry was unchanged at 81.0 percent, a level 1 percentage point below its 1967–98 average.

#### 35 STATEMENT TO THE CONGRESS

Richard A. Small, Assistant Director, Division of Banking Supervision and Regulation, discusses the Federal Reserve's role in the government's efforts to detect and deter money laundering and other financial crimes, particularly as these issues relate to the private banking operations of financial institutions; he states that the Board will continue its cooperative efforts with other bank supervisors and the law enforcement community to develop and implement effective antimoney-laundering programs addressing the everchanging strategies of criminals who attempt to launder their illicit funds through private banking organizations, as well as through other components of banking organizations in the United States and abroad (Testimony before the Permanent Subcommittee on Investigations of the Senate Committee on Governmental Affairs, November 10, 1999).

#### 40 ANNOUNCEMENTS

Action by the Federal Open Market Committee and an increase in the discount rate.

Modifications to the settlement finality for automated clearinghouse credit transactions processed by Federal Reserve Banks.

Adjustment of the dollar amount that triggers certain disclosure requirements under the Truth in Lending Act.

Proposed revisions to the official staff commentary that applies and interprets the requirements of Regulation Z.

Review of publications activities of the Federal Reserve Board.

Survey results on consumer confidence in banks' Y2K preparations.

Release of a report on a survey of web site privacy policies of banking and thrift institutions.

Increase in adversely classified syndicated bank loans.

Enforcement actions.

# 44 MINUTES OF THE MEETING OF THE FEDERAL OPEN MARKET COMMITTEE HELD ON OCTOBER 5, 1999

At this meeting, the Committee adopted a directive that called for maintaining the federal funds rate at an average of around 51/4 percent and that contained a bias toward a possible firming of policy during the intermeeting period.

#### 51 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 November 26, 1999.

# A3 GUIDE TO TABULAR PRESENTATION

- A4 Domestic Financial Statistics
- A42 Domestic Nonfinancial Statistics
- A50 International Statistics

# A63 GUIDE TO STATISTICAL RELEASES AND SPECIAL TABLES

- A66 INDEX TO STATISTICAL TABLES
- A68 BOARD OF GOVERNORS AND STAFF
- A70 FEDERAL OPEN MARKET COMMITTEE AND STAFF; ADVISORY COUNCILS
- A72 FEDERAL RESERVE BOARD PUBLICATIONS
- A74 MAPS OF THE FEDERAL RESERVE SYSTEM
- A76 FEDERAL RESERVE BANKS, BRANCHES, AND OFFICES

Publications Committee
Lynn S. Fox, <i>Chair</i> □ Jennifer J. Johnson □ Karen H. Johnson □ Donald L. Kohn □ Stephen R. Malphrus □ J. Virgil Mattingly, Jr. □ Michael J. Prell □ Dolores S. Smith □ Richard Spillenkothen □ Richard C. Stevens

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

# Recent Changes in U.S. Family Finances: Results from the 1998 Survey of Consumer Finances

Arthur B. Kennickell, Martha Starr-McCluer, and Brian J. Surette, of the Board's Division of Research and Statistics, prepared this article with assistance from Gerhard Fries, Annelise K. Li, and Amber Lynn Lytle.

Using data from the Federal Reserve Board's two most recent Surveys of Consumer Finances, this article provides a detailed picture of changes in the financial condition of U.S. families between 1995 and 1998. The discussion also refers to selected data from the two preceding surveys to provide a broader context within which to interpret the more recent changes.<sup>1</sup>

The financial situation of families changed notably between 1995 and 1998. While income continued a moderate upward trend, net worth grew strongly, and the increase in net worth was broadly shared by different demographic groups. A continued rise in the holding of stock equity combined with a booming stock market accounts for a substantial part of the rise in net worth. The 3.5 percentage point decline in the proportion of families without some type of transaction account—a group that tends to have low incomes—suggests that improvements in financial circumstances were also shared by many people who did not own stocks. The indebtedness of families grew, but less rapidly than their assets. Nonetheless, compared with 1995, debt repayments in 1998 accounted for a larger share of the income of the typical family with debt, and the proportion of debtors who were late with their payments by sixty days or more in the year preceding the survey was also higher.

#### BACKGROUND

In 1998, the U.S. economy entered the seventh year of an economic expansion. The civilian unemployment rate had fallen from 5.7 percent in September 1995 to 4.5 percent in September 1998. At the same time, inflation remained subdued, with the consumer price index rising at an average annual rate of 2.2 percent over the period.<sup>2</sup>

Interest rates on deposits remained fairly steady. Mortgage rates fluctuated over the period but declined overall, from 7.4 percent in 1995 to 6.9 percent in 1998. Over the same period, key asset prices rose markedly. Standard and Poor's index of 500 stock prices registered an extraordinary gain of 76 percent, and the median price of existing homes sold rose 15 percent, to \$129,400.

Institutional, regulatory, and market changes during this time altered the context in which families planned their finances. Employers continued to expand offerings of tax-deferred retirement accounts for their workers; new means of stock trading emerged, such as Internet-based brokerage services; automobile dealers added less-expensive models to the range of vehicles available for leasing; lenders became increasingly willing to accept mortgages with very low down payments; and many banks faced increased regulatory pressure to provide equitable access to credit.<sup>3</sup>

Ongoing demographic trends continued to change the structure of the population. Overall population growth was about 2.8 percent between 1995 and 1998. With the aging of the "baby boom" population, the number of people aged 45 to 64 grew about 9.5 percent. The population in some other age groups grew less, and the number of children aged less than 5 declined slightly. The number of households rose

<sup>1.</sup> The four surveys were conducted in 1989, 1992, 1995, and 1998. For a detailed discussion of results from earlier surveys, see Arthur B. Kennickell and Martha Starr-McCluer, "Changes in Family Finances from 1989 to 1992: Evidence from the Survey of Consumer Finances," Federal Reserve Bulletin, vol. 80 (October 1994), pp. 861–82; and Arthur B. Kennickell, Martha Starr-McCluer, and Annika E. Sundén, "Family Finances in the U.S.: Recent Evidence from the Survey of Consumer Finances," Federal Reserve Bulletin, vol. 83 (January 1997), pp. 1–24. Tabulations of data from the four surveys will be available on the Internet at www.federalreserve.gov/pubs/oss/oss2/98/scf98home.html.

<sup>2.</sup> All aggregate statistics cited in this section are for September except as noted; September is the midpoint of the period during which interviews were conducted.

<sup>3.</sup> For an examination of the wider availability of mortgage credit over this period, see Glenn B. Canner, Wayne Passmore, and Elizabeth Laderman, "The Role of Specialized Lenders in Extending Mortgages to Lower-Income and Minority Households," *Federal Reserve Bulletin*, vol. 85 (November 1999), pp. 709–23.

3.5 percent, while the average number of people per household declined somewhat.

#### FAMILY INCOME

To measure income, the survey requests information on families' total cash income, before taxes, for the full calendar year preceding the interview (see box "The Survey of Consumer Finances"). In the 1998 survey, inflation-adjusted mean and median family incomes continued the upward trend observed between the 1992 and 1995 surveys; they also sur-

passed the levels observed in the 1989 survey, toward the end of the previous economic expansion (table 1). Overall, trends in mean and median income shown in the four surveys accord well with those shown in the Current Population Survey (CPS) of the Bureau of the Census.

From 1995 to 1998, the proportion of families with incomes of \$50,000 or more rose about one-fifth, to 33.8 percent, while the proportion with incomes below \$10,000 fell about one-sixth, to 12.6 percent.

Some cross-sectional patterns hold consistently in the survey data since 1989. Median income is successively higher for each age group through 45–54 and

#### The Survey of Consumer Finances

The Survey of Consumer Finances (SCF) is a triennial survey of U.S. families sponsored by the Board of Governors of the Federal Reserve System with the cooperation of the U.S. Department of the Treasury. The term "family" as it is used here is more comparable to the U.S. Bureau of the Census definition of "household" than to their use of "family," which excludes the possibility of a family of one individual. The appendix to this article provides a full technical definition of "family" for the SCF. The survey is designed to provide detailed information on U.S. families' balance sheets and their use of financial services, as well as on their pensions, labor force participation, and demographic characteristics as of the time of the interview. It also collects information on families' total cash income, before taxes, for the calendar year preceding the survey. Because only minor changes have been made in the wording of the questionnaire since 1989, the underlying measurements are highly comparable over time.

The need to measure financial characteristics imposes special requirements on the sample design for the survey. The survey is expected to provide reliable information both on attributes that are broadly distributed in the populationfor example, home ownership—and on those that are highly concentrated in a relatively small part of the populationfor example, ownership of closely held businesses. To address this requirement, the SCF employs a dual-frame sample design consisting of both a standard, geographically based random sample and a special oversample of relatively wealthy families. This design has been essentially unchanged since 1989. Weights are used to combine information from the two samples to make estimates for the full population. Recent modifications to the survey weights. which are described in the appendix, have enhanced the comparability of the time series of survey estimates.

This article draws principally upon the final data from the 1995 survey and nearly final data from the 1998 survey. To provide a larger context, some information is also included from the final versions of the 1989 and 1992 surveys. Differences between estimates from earlier surveys as

reported here and as reported in earlier Federal Reserve Bulletin articles are attributable to additional statistical processing of the data, to revisions of the weights, and to adjustments for inflation. Since 1992, the SCF has been conducted by the National Opinion Research Center at the University of Chicago (NORC) between July and December of each survey year. The 1989 SCF was conducted by the Survey Research Center at the University of Michigan. In the 1995 survey, 4,299 families were interviewed, and in the 1998 survey, 4,309 were interviewed.

All dollar figures from the SCF in this article are adjusted to 1998 dollars using the "current methods" version of the consumer price index (CPI) for all urban consumers. In an ongoing effort to improve accuracy, the Bureau of Labor Statistics has introduced a number of revisions to the CPI methodology. The current-methods index attempts to extend these changes to earlier years to obtain a series as consistent as possible with the current practices in the official CPI. Because the current-methods index shows a lower rate of past price inflation than does the official CPI, upward adjustments for inflation made to the pre-1998 nominal values are smaller than they would have been under the official CPI.

To provide a measure of the significance of the developments discussed in this article, standard errors due to sampling are given for selected estimates. Space limits prevented the inclusion of the standard errors for all estimates. Although we do not directly address the statistical significance of the results, the article highlights findings that are significant or are interesting in a broader context.

<sup>1.</sup> For technical information about the construction of this index, see Kenneth J. Stewart and Stephen B. Reed, "Consumer Price Index Research Series Using Current Methods, 1978–98," *Monthly Labor Review*, vol. 122 (June 1999), pp. 29–38. To adjust assets and liabilities to 1998 dollars, the following factors were applied to the earlier survey figures: for 1989, 1.2733; for 1992, 1.1417; and for 1995, 1.0622. To adjust family income for the previous calendar year to 1998 dollars, the following factors were applied: for 1989, 1.3285; for 1992, 1.1697; for 1995, 1.0904; and for 1998, 1.0135.

then declines. Mean income has a similar pattern, but the age group at which it reaches its peak varies somewhat across survey years. In part because income in the survey includes returns on assets, mean and median incomes increase steadily with net worth. Education is also positively associated with income in the surveys.

# Income by Demographic Category

Between 1995 and 1998, mean inflation-adjusted family income either held steady or rose for all age groups. The percentage increases were particularly strong for families headed by those in the 55-to-74 age groups. Median income, which is the income of the "typical" family, showed a similar pattern, but it also grew substantially for the 45-to-54 age group.

Across education groups, mean income grew between 1995 and 1998 only for families headed by individuals with at least some college education. However, mean incomes for all education groups in 1998 were lower than they had been in 1989.4 This broad decrease in the face of the rise in the overall mean since 1989 is explained, at least in part, by a large gain in the proportion of all families headed by those with a college degree or at least some college education; these two groups have the highest means. Indeed, median income between 1989 and 1998 rose appreciably only for families headed by college graduates. Between 1995 and 1998, median income grew for all families except those whose head had not completed a high school degree.

Mean and median income rose between 1995 and 1998 both for families with white non-Hispanic respondents and for all other families, but over the 1989 to 1998 interval these measures increased only for the latter group. At the same time, the data show increases in the proportions of respondents reporting that they were white non-Hispanic.<sup>5</sup> The change is

largely explained by a decrease in the fraction of respondents reporting themselves as "Hispanic" in the SCF.

Families headed by the self-employed showed the strongest gains in mean and median income of all the work-status groups over the 1995 to 1998 period. At the same time, mean income rose in all regions of the country, although the median fell slightly for families in the north central region. Mean income increased over this time for all the net worth groups shown in the table, but the median increased markedly only for families in the top half of the net worth distribution.

# Family Saving

Because saving out of current income is an important determinant of changes in family net worth, the 1992 and later surveys have asked respondents whether, over the preceding year, the family spent less than its income, more than its income, or about as much as its income. Though only qualitative, these answers provide a useful indicator of whether families are saving. Asking instead for a specific dollar amount of spending or saving would require substantial additional time from respondents and might lower the rate of response to the survey.

Overall, the proportion of families reporting that they saved in the preceding year rose only slightly between 1995 and 1998 and was still below the level in 1992, near the outset of the current expansion. Between the two most recent surveys, large declines in the saving measure for the youngest and oldest groups were offset by increases for most of the other age groups. Across net worth groups, the measure increased most for the groups with net worth between the 50th and 90th percentiles of the net worth distribution, and it decreased most for the top decile.

The upward movement in the SCF saving indicator contrasts with household saving as measured in the national income and product accounts (NIPA), which declined between 1995 and 1998. However, there are

<sup>4.</sup> Data from the CPS give a similar result for the 1989-98 period.

<sup>5.</sup> The SCF question that is used to determine race and Hispanic origin was changed in 1998. In earlier surveys, respondents were asked to choose a single category that described their race or ethnicity best. In 1998, respondents were allowed to choose as many as seven responses, but they were asked to report first the category with which they identified most strongly.

For comparability with the earlier surveys, this article uses only the first 1998 response. Very few respondents gave more than a single response, and more complex treatments of the data do not yield conclusions that are substantively different from those reported in this article.

The proportion of respondents reporting Hispanic origin differs from estimates based on the CPS, most likely because the CPS asks directly about ethnicity in a question separate from the one that asks about race. Thus, in the CPS, even respondents who do not normally identify themselves as Hispanic might provide an ethnic origin that is later classified as Hispanic. The 1998 SCF estimates of the proportion of African-Americans and other minorities are close to CPS estimates.

<sup>6.</sup> For a more detailed discussion of this variable, see Arthur B. Kennickell, *Saving and Permanent Income*, Finance and Economics Discussion Series 95–41 (Board of Governors of the Federal Reserve System, November 1995). Available at www.federalreserve.gov/pubs/oss/oss2/method.html.

Before-tax family income, and distribution of families, by selected characteristics of families, 1989, 1992, 1995, and 1998 surveys, and percentage of families who saved, 1992, 1995, and 1998 surveys.
 Thousands of 1998 dollars except as noted

		1989			1	992	
Family characteristic	Median	Mean	Percentage of families	Median	Mean	Percentage of families who saved	Percentage of families
All families	32.8 (1.3)	<b>51.7</b> (3.6)	100.0	<b>30.4</b> (.7)	45.6 (1.1)	57.1	100.0
Income (1998 dollars)							
Less than 10,000	6.6	6.3	15.1	6.5	6.2	27.9	14.8
10,000-24,999	16.5	16.9	23.9	17.5	17.2	47.8	27.0
25,000-49,999	35.9	36.2	29.7	36.3	36.7	63.3	29.8
50.000-99.999	66.4	68.9	22.7	65.7	68.8	71.4	20.7
100,000 or more	144.8	235.0	8.6	140.4	195.5	83.3	7.6
100,000 of more	144.0	233.0	0.0	140.4	175.5	05.5	7.0
Age of head (years)	24.5	35.5	20.1	20.1	24.5	50.1	35.0
Less than 35	26.6	35.5	28.1	28.1	34.6	59.1	25.8
35–44	46.5	62.9	21.5	40.9	53.2	56.9	22.8
45-54	49.2	76.8	15.1	47.6	64.7	59.0	16.2
55–64	33.6	60.7	13.9	33.9	56.5	59.2	13.2
65–74	20.6	42.2	12.5	20.4	33.0	54.0	12.6
75 or more	17.6	32.2	8.9	15.7	26.6	49.4	9.4
Education of head							
No high school diploma	17.3	24.8	24.3	14.0	19.9	38.1	20.4
High school diploma	28.8	38.1	32.2	27.2	34.3	56.8	30.0
Some college	37.2	51.8	15.7	31.6	42.2	59.5	17.8
College degree	53.1	90.7	27.8	51.5	74.7	68.1	31.9
Ruce or ethnicity of respondent	38.5	59.2	74.8	35.1	50.4	61.1	75.3
White non-Hispanic			25.2	21.1		44.9	73.3 24.7
Nonwhite or Hispanic	18.6	29.3	25.2	21.1	31.1	44.9	24.7
Current work status of head							
Working for someone else	40.9	52.2	57.0	39.3	50.0	63.2	54.8
Self-employed	47.8	117.6	11.i	51.2	86.8	59.4	10.9
Retired	18.5	30.3	25.2	17.3	26.1	48.2	26.0
Other not working	9.3	17.9	6.7	12.9	23.9	41.3	8.3
Region							
Northeast	37.2	59.3	20.8	37.9	52.8	57.5	20.2
North central	31.8	53.9	24.4	33.0	47.1	61.3	24.4
South	27.9	44.1	34.4	26.9	38.8	54.2	34.6
West	38.5	54.0	20.4	30.2	48.4	56.4	20.9
Harrier status							
Housing status	12.5	65.0	620	20.0	55.9	62.0	63.9
Owner	42.5	65.0	63.9	39.8		63.2	
Renter or other	17.5	28.0	36.1	19.5	27.5	46.2	36.1
Percentiles of net worth							
Less than 25	13.3	18.6	25.0	14.9	19.8	37.4	25.0
25–49.9	28.0	32.0	25.0	27.8	31.5	52.4	25.0
50–74.9	40.2	46.0	25.0	37.4	41.7	63.5	25.0
7589.9	53.1	64.7	15.0	49.1	58.0	70.8	15.0
90–100	99.6	178.0	10.0	92.3	137.0	81.0	10.0

some important conceptual differences between the two measures. First, the underlying SCF question asks only whether the family has spent more, less, or about the same as its income over the past year. Thus, the *amounts* by which families' expenditures differed from their income might have changed appreciably but without necessarily altering the outcome of the SCF variable. Second, the NIPA measure of saving relies on definitions of income and consumption that may not be the same as those used by individual families. Notably, the NIPA measure excludes saving in the form of capital gains, whereas families might include such gains when reporting their saving in the SCF; hence, a strongly rising stock market could well

have caused the SCF saving indicator to suggest more saving than the NIPA.

The survey also collects information on motivations for saving (table 2).<sup>7</sup> Several trends appear in the data: Retirement-related reasons for saving have consistently increased in importance since 1989. This result is not surprising given the increased public

<sup>7.</sup> Although families were asked to report their motives for saving regardless of whether they were currently saving, some families reported only that they do not save. The analysis here is confined to the first reason reported by families that provided a motive. The proportion of families reporting only that they do not save declined almost 2 percentage points from 1995 to 1998.

1.—Continued

Thousands of 1998 dollars except as noted

		1	995			i	998	
Family characteristic	Median	Мезп	Percentage of families who saved	Percentage of families	Median	Меап	Percentage of families who saved	Percentas of families
All families	<b>32.7</b> (.9)	<b>47.5</b> (1.1)	55.2	100.0	33.4 (1.0)	53.1 (1,6)	55.9	100.0
Income (1998 dollars)								
Less than 10,000	6.2	5.6	31.2	15.1	6.2	5.6	30.7	12.6
10.000-24,999	17.9	17.4	41.4	25.4	16.9	17.1	40.2	24.8
25,000-49,999	36.8	36.7	60.4	31.0	35.5	35.9	58.9	28.8
50.000-99.999	67.6	69.3	70.4	21.0	66.0	68.8	71.8	25.2
HOD, INDO wind more	147.9	218.9	86.5	7.4	142,4	239.5	81,6	8.6
Age of head (years)								
Less than 35	27.3	33.2	56.4	24.8	27,4	36.1	53.0	23,3
35-44	40.8	51.9	54.3	23.0	42.1	60.0	57.3	23.3
45-54	42.9	70.3	58.0	17.9	50,7	69.7	37.8	19.3
55–64	36.0	57.3	58.0	12.5	38.5	71.7	61.1	12.8
65-74	20.5	39.8	50.0	12.0	24.3	46.6	56.3	11.2
75 or more	<b>£</b> 7.1	28.2	51.7	9.8	16.7	29.2	48.6	10.2
Education of head								
No high school diploma	15.5	22.3	42.8	18.5	15.5	21.7	39.5	16.5
High school diploma	27.7	37.2	50.6	31.7	29,2	3.7.0	\$3.7	31.9
Some college	32.7	43.2	54.1	19,0	35.5	50.8	56,7	18.5
College degree	48.7	75.9	68.2	30.7	54.7	85.5	65.6	33.2
Race or ethnicity of respondent								
White non-Hispanic	35.2	52.2	59.1	77.6	37.7	58.8	59.8	77.7
Nonwhite or Hispanic	21.1	31.1	41.7	22.4	23.3	33.5	42.1	22.3
Current work status of head	20.2	c. c		50.3	10.5	52.5	70.0	# A
Working for someone else	39.3	51.5	60.4	58.3	40.5	53.5	59.8	59.2
Self-employed	40.3	85.0	63.4	10.3	52.7	109.0	61.1	14.3
Retired	17.9	29.7	46.1	25.0	19.3	32.9	48.6	24.4
Other not working	12.0	19.8	30.6	6.5	11.7	21.9	33.7	5,1
Region	מ מל	en 1	52.6	10.0	25.5	(0.0	52.5	10.2
Northesist	32.7	52.4	52.6	19.8	35.5	60.9	53.5	19.3
North Gentral	33.3	48.4	59.2	23.9	32.9	48.9	58.3	23.6
South	30.2	43.9	54.6	35.1	31.6	49.4	55.0	35.7
West	33.8	47.7	54.1)	21.2	36.2	56.9	56.9	21.3
Housing status	40.3	58.8	61.3	64.7	43.7	66.6	62.2	66.2
	40.3 19.6	26.7		35.3	20.3	26.7	43.4	33.8
Renter of other	19.0	20.7	44.0	33.3	20.,7	20.7	43.4	23.0
Percentiles of net worth Ltss than 25	15.4	19.8	35.8	25.0	15.9	20.4	36.4	25.0
25-49.5	30.5	33.3	51.A	25.0	30.4	33.8	50.1	25.0
50=34.9	30.3 37.7	.3.3 43.3	59.4	25.0	40.5	46.7	61.9	25.0
75-89.9	45.8	56.3	68.5	15.0	56.8	67.9	71,8	15.0
90-100	85.6	149.0	82.6	10.0	39.5 88.3	177.2	80.2	10.0
747 14/47	0.7.0	177.0	pare	10.0	CAD	177	00.2	

Note. In this and the following tables, percentage distributions may not sum to 100 because of rounding. Dollars have been converted to 1998 values with the current-methods consumer price index for all urban consumers (see text box "The Survey of Consumer Finances"). See appendix for details on standard errors (shown above, in parentheses in the first row of data. For the means and medians) and for definitions of family and family head.

In providing data on income, respondents were asked to base their answers on the calendar year preceding the interview. In providing data on saving, respondents were asked to base their answers on the year (that is, not specifically the calendar year) preceding the interview. The 1989 survey did not ask families whether they had saved in the preceding year.

discussion of the future of social security, the movement toward greater reliance on account-type pension plans, and the aging of the baby-boom generation. The proportion of families reporting educationrelated reasons for saving has also risen since 1989. This result likely reflects both the increases in the costs of education and the increasing number of children of the baby-boom generation at or near college age. Over the same period, the reporting of liquidity-related reasons (for example, "saving for a rainy day") and of investment-related reasons declined.8

<sup>8.</sup> The proportion of families citing "other reasons" increased strongly from 1995 to 1998, mostly because of a greater frequency of general responses about the future (for example, "saving for the future").

 For respondents who gave a reason, distribution of reasons most important for their families' saving, 1989, 1992, 1995, and 1998 surveys

Reason	1989	1992	1995	1998
Education	9.2	10.3	11.6	11.5
For the family	3.4	3.0	2.8	4.1
Buying own home	5.3	4.5	5.5	4.6
Purchases	8.4	5.8	8.1	5.7
Retirement	20.4	22.0	25.5	34.7
Liquidity	37.5	38.5	35.4	23.2
Investments	8.7	8.7	4.6	2.1
Other	7.0	7.1	6.6	14.1
MEMO When asked for a reason.				
reported do not save	8.4	12.0	6.8	4.9

NOTE. See note to table 1.

#### NET WORTH

In an acceleration of a trend dating from the 1992 SCF, both mean and median net worth—the difference between families' gross assets and their liabilities—rose strongly between 1995 and 1998 (table 3).9 Between those two years, mean net worth rose 25.7 percent, and the median rose 17.6 percent.<sup>10</sup> The levels of both of these measures surpassed the levels observed in 1989, toward the end of the last expansion: Compared with the 1989 figures, 1998 mean and median net worth were both nearly 20 percent higher.

# Net Worth by Demographic Category

Income and net worth have a clear, positive association in each of the four surveys. As for changes between years, mean net worth declined between 1995 and 1998 for the lowest income group and increased for all other income groups; the strongest gain was for families with incomes of \$100,000 or more, a group likely to have had large gains in the stock market. Extending the comparison back to 1989 also shows substantial increases in mean net worth for higher-income families, but it shows an increase of nearly one-third for the group with incomes below \$10,000.

The medians for the income groups show a somewhat different pattern than the means. Median net worth increased from 1995 to 1998 for those families in the groups with incomes from \$25,000 to \$99,999, while slipping somewhat for the other groups. However, compared with the 1989 data, median net worth was higher in 1998 for all families except those with incomes of \$100,000 or more. The divergence of the mean and median outcomes for this income group is indicative of a widening dispersion of net worth among the families in this group.

Within any of the surveys, net worth shows the classic, hump-shaped pattern across age groups that is suggested by the life-cycle theory of household saving. In contrast to the mixed changes in net worth over income groups from 1995 to 1998, the changes in means and medians across age groups tended to go in the same direction: Mean net worth rose for all groups, and the median increased for all groups except for families in the less-than-35 age group. The medians rose particularly strongly for the families in the 65-and-older groups. By 1998, mean net worth for each age group was above its 1989 level. However, for the under-55 groups, the medians of net worth were still substantially below their 1989 levels, while the medians for the top two age groups were up notably.

Education tends to be a good predictor of earning ability over the long term, and also of net worth. Recently, the differences in net worth among certain education groups have widened. Over the 1995–98 period, median net worth rose most markedly for families headed by someone with at least some college education, while it fell for families headed by those with less than a high school diploma; indeed, for the latter group, the median has fallen over the period of the four surveys. Since 1989, the gap between families whose head does not have a high school diploma and the families in the other education groups has been widening; the groups with a high school diploma or some college (but not a college degree) have gained the most.

The mean and median net worth of white non-Hispanics rose between 1995 and 1998. The mean net worth of nonwhites and Hispanics also rose, but the median leveled off after increasing steadily between 1989 and 1995. Over the full 1989–98 period, both groups showed gains in the mean and the median. Nevertheless, the net worth of families with nonwhite or Hispanic respondents remained substantially below that of other families.

Families headed by the self-employed had the highest mean and median levels of net worth in each of the surveys. The self-employed group showed the

<sup>9.</sup> The asset values reported in this article do not account for future tax liabilities. For example, a family that sold its stock would be required to pay taxes on any increase in the value of the stock.

<sup>10.</sup> Shifts of mean net worth relative to the median provide some information about changes in the concentration of net worth. But the shift alone does not reveal which net worth groups are affected (see Arthur B. Kennickell and R. Louise Woodburn, "Consistent Weight Design for the 1989, 1992, and 1995 SCFs, and the Distribution of Wealth," *Review of Income and Wealth*, series 42, June 1999, pp. 193–215).

largest increases in net worth between 1995 and 1998: 24.0 percent for the mean and 49.9 percent for the median. The median net worth of all the workstatus groups grew from 1989 to 1998, although from 1995 to 1998 it declined a small amount for families with heads who were neither working nor retired—including unemployed workers, students, homemakers, and others not currently working for pay.

Across the four principal regions of the country, the mean and median net worth of families increased from 1995 to 1998. However, the longer-term patterns are more mixed, reflecting such factors as differing cyclical variations in labor and housing markets across regions.

Mean and median net worth of homeowners moved up between 1995 and 1998, surpassing the 1989 levels for the first time since that year. For renters, mean and median net worth slipped a bit over the recent three-year period. Over the nine-year period, the mean net worth of renters declined about 10 percent, while their median net worth rose about 68 percent from a very low initial level. As noted later in this article, the proportion of homeowners has increased notably in recent years, and this movement may have entailed the transition of wealthier renters into home ownership.

#### ASSETS

Over the four surveys, the share of financial assets in families' total asset holdings has risen steadily, from 30.4 percent in 1989 to 40.6 percent in 1998 (table 4). Ownership and holdings of a broad spectrum of financial assets rose, but direct and indirect holdings of stocks were the most important factor in the rising share of financial assets (tables 5 and 6). By definition, the share of nonfinancial assets—mainly vehi-

 Family net worth, by selected characteristics of families, 1989, 1992, 1995, and 1998 surveys Thousands of 1998 dollars

Family	19	989	19	92	19	95	19	98
characteristic	Median	Mean	Median	Mean	Median	Mean	Median	Mean
All families	<b>59.7</b> (5.2)	<b>236.9</b> (50.1)	<b>56.5</b> (3.3)	212.7 (13.8)	<b>60.9</b> (2.4)	<b>224.8</b> (14.9)	<b>71.6</b> (4.1)	282.5 (16.4)
Income (1998 dollars) Less than 10,000 10,000–24,999 25,000–49,999 50,000–99,999 100,000 or more	1.9	30.5	2.9	32.1	4.8	46.6	3.6	40.0
	22.8	72.0	27.1	69.8	31.0	80.3	24.8	85.6
	58.1	134.2	55.6	131.4	56.7	124.0	60.3	135.4
	131.4	247.4	129.9	245.6	126.6	258.1	152.0	275.5
	542.1	1,378.3	481.9	1,300.8	511.4	1.411.9	510.8	1,727.8
Age of head (years) Less than 35 35—14 45—54 55–64 65–74 75 or more	9,9	60.5	10.4	53.1	12.7	47.4	9.0	65.9
	71.8	188.2	50.9	152.7	54.9	152.8	63.4	196.2
	125.7	351.7	89.3	304.4	100.8	313.0	105.5	362.7
	124.6	391.4	130.2	384.9	122.4	404.7	127.5	530.2
	97.1	356.0	112.3	326.1	117.9	369.3	146.5	465.5
	92.2	307.4	99.2	244.4	98.8	273.8	125.6	310.2
Education of head  No high school diploma  High school diploma  Some college  College degree	30.7	106.0	21.3	80.2	24.0	89.6	20.9	79.1
	46.9	142.0	43.9	127.7	54.7	141.3	53.8	157.8
	58.5	237.2	65.9	195.8	49.7	201.2	73.9	237.8
	141.4	460.6	112.1	387.0	110.9	407.2	146.4	528.2
Race or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic	90.5	289.6	79.5	253.5	81.2	265.9	94.9	334.4
	8.5	80.6	13.7	88.7	16.8	82.5	16.4	101.7
Current work status of head Working for someone else Self-employed Retired Other not working	48.3	145.0	44.7	139.6	51.9	145.2	52.4	168.9
	216.0	829.0	164.7	682.3	165.5	742.0	248.1	919.8
	84.2	232.5	80.7	214.0	86.2	239.4	113.0	307.2
	1.0	52.7	4.5	72.2	3.9	62.9	3.6	76.5
Region Northeast North central South West	111.1	275.1	73.2	240.0	88.0	266.9	94.2	302.4
	66.9	238.8	65.0	198.0	69.2	210.0	80.3	248.8
	44.9	167.6	39.4	160.4	46.6	197.6	61.3	267.5
	58.3	312.6	81.4	290.2	58.1	247.1	61.3	327.1
Housing status Owner	127.7	342.6	112.8	307.4	110.5	321.3	132.1	403.5
	2.5	50.0	3.7	45.1	5.2	47.9	4.2	45.1

NOTE. See note to table 1.

cles, real estate, and businesses—fell correspondingly (table 7).

Overall, the percentage of families with assets moved up slightly, to 96.8 percent, between the 1995 and 1998 surveys (table 8). With ownership of assets in both surveys at 100 percent for families with incomes of \$50,000 or more, this movement was the result of small increases for the lowest income groups. By age of family head, the ownership rate declined for the 45-to-54 group and the oldest group. Increases in median amounts of total assets were most pronounced for families with incomes of \$50,000 or more, families headed by those aged 55 and older, and families in the top half of the net worth distribution.

#### Financial Assets

Largely continuing earlier trends, the composition of families' financial assets shifted from 1995 to 1998 (table 4). The share of financial assets held in transaction accounts and certificates of deposit fell sharply, to 15.7 percent in 1998—down from 19.7 percent in 1995 and 29.3 percent in 1989. The shares of savings bonds, other bonds, and the "other" category of financial assets have also fallen since 1989. Growth over the nine-year period was concentrated among stocks, mutual funds, tax-deferred retirement accounts, and other managed assets; together these assets accounted for 48.4 percent of financial assets in 1989 and 71.3 percent in 1998.

In both the 1995 and 1998 surveys, the proportion of families having financial assets rose with income;

 Value of financial assets of all families, distributed by type of asset, 1989, 1992, 1995, and 1998 surveys Percent

Type of financial asset	1989	1992	1995	1998
Transaction accounts	19.1	17.5	14.0	11.4
Certificates of deposit	10.2	8.1	5.7	4.3
Savings bonds	1.5	1.1	آءاً	0.7
Bonds	10.2	8.4	6.3	4.3
Stocks	15.0	16.5	15.7	22.7
Mutual funds (excluding				
money market funds)	5.3	7.7	12.7	12.5
Retirement accounts	21.5	25.5	27.9	27.5
Cash value of life insurance	6.0	6.0	7,2	6.4
Other managed assets	6.6	5.4	5.9	8.6
Other	4.8	3.8	3.4	1.7
Total	100	100	1100	100
Мемо				
Financial assets as a				
percentage of total assets	30.4	31.5	36.6	40.6

NOTE. For this and following tables, see text for definition of asset categories. Also see note to table 1.

across age groups, the proportion owning financial assets does not vary much except for the lower frequency of ownership among the youngest age group (table 5). Within each survey, the median holding among families having such assets rose strongly with income. The median holding generally rose and then fell with age.

The overall proportion of families having any financial asset rose almost 2 percentage points from 1995 to 1998. Among all the demographic groups not already at or near 100 percent, the percentage of families with financial assets moved up except among families headed by those aged 75 or more. The largest increases were among families in the 55-to-64 age group, in the nonwhite or Hispanic group, among the group of families headed by someone neither working nor retired, among renters, and among families in the bottom 25 percent of the net worth distribution.

For families with financial assets, the median holding rose 35.8 percent overall across the three-year period. Gains were spread broadly, but the largest were among families with incomes of \$25,000 or more, families in the 65-to-74 age group, homeowners, families headed by the self-employed or retirees, with white non-Hispanic respondents, and those in the upper half of the distribution of net worth. The median level of financial assets fell for families with incomes of less than \$25,000, those in the younger-than-35 group, and those that were renters.

# Transaction Accounts and Certificates of Deposit

In 1998, 90.5 percent of families had some type of transaction account—a category comprising checking, savings, and money market deposit accounts, money market mutual funds, and call accounts at brokerages. The families without such accounts in 1998 were disproportionately likely to have low incomes; to be renters; to be in the bottom quarter of the distribution of net worth; to be headed by a person younger than 35 or at least 75; to be headed by a person neither working nor retired; and to have a nonwhite or Hispanic respondent (see box "Families without a Checking Account").

<sup>11</sup> In discussing the dollar value of families' holdings of detailed components of net worth, we present only the median amounts held for those having such items. In general, the median is a statistically more robust indicator of the typical amount held than is the mean when relatively few members of a group hold an item or when a relatively large fraction of the total holdings is concentrated among a small proportion of families.

# Families without a Checking Account

The portion of families without any type of transaction account has fallen in each SCF since 1989. In 1989, 14.9 percent of families did not have a transaction account. By 1998, the figure was 9.5 percent.

The portion of families without a checking account also fell continuously, from 18.7 percent in 1989 to 13.2 percent in 1998 (data not shown). Among these families in 1998, 47.9 percent had owned a checking account at some time in the past. The great majority of families without a checking account—82.6 percent—had incomes of less than \$25,000, and 44.7 percent of them had incomes of less than \$10,000; 60.9 percent of them were headed by individuals under the age of 45, and 35.6 percent of them by those under 35; 57.1 percent of these families were nonwhite or Hispanic.

The survey asked all families without checking accounts to give the reason for not having an account (table). The proportion of families reporting that they did not like banks moved up from 15.3 percent in 1992 to 18.6 percent in 1995, and it stayed near this level in 1998. The proportion of families reporting that they did not write enough checks to make an account worthwhile edged up, to 28.4 percent in 1998, but was still below the levels seen in the 1989 and

1992 surveys. Altogether, 19.6 percent of families in 1998 reported that either minimum balances or service charges were too high. Only 1.2 percent reported that bank location or banking hours deterred them from having a checking account.

The pattern of responses for families that once had a checking account differs substantially from that of other families without accounts. Those who had accounts in the past were much more likely to report that fees were a deterrent and much less likely to report that they did not write enough checks or that they did not like banks.

Distribution of reasons cited by respondents for their families' not having a checking account, by reason, 1989, 1992, 1995, and 1998 surveys

Percent

Reason	1989	1992	1995	1998
Do not write enough checks				
to make it worthwhile	34,4	30.4	25.3	28.4
Minimum balance is too high	7.7	8.7	8.8	8.6
Do not like dealing with banks	15.0	15.3	18.6	18.5
Service charges are too high	8.6	11.3	8.4	11.0
Cannot manage or balance				
a checking account	5.0	6.5	8.0	7.2
No bank has convenient hours				
or location	1.2	.8	1.2	1.2
Do not have enough money	21.2	21.2	20.0	12.9
Credit problems	•	.7	1.4	2.7
Do not need/want an account	*	3.2	4.9	6.3
Other	6.8	1.9	3.5	3.1
Total	100	100	100	100

Responses not coded separately in 1989.

From 1995 to 1998 the proportion of families having transaction accounts rose 3.5 percentage points. Ownership of transaction accounts rose for every group that had less than a 100 percent ownership rate except for families in the 75-or-older group, for whom the ownership rate fell 3.5 percentage points. Gains in ownership were particularly large for the nonwhite or Hispanic group (7.7 percentage points), for families headed by those neither working nor retired (11.0 percentage points), and for families in the bottom quarter of the net worth distribution (8.4 percentage points).

Overall, median holdings of transaction accounts among those who had such accounts rose about one-third, to \$3,100; holdings were steady or rose for all demographic groups considered here except families with incomes of less than \$10,000 and renters.

Ownership of certificates of deposit, a traditional savings vehicle, also edged up over the three-year period, though it remained below the 1989 level. Increases for families in the bottom 90 percent of the net worth distribution were offset by a large decline in ownership by the wealthiest 10 percent of families. Overall, for those having certificates of deposit, the median value of holdings rose 41.5 percent over the period.

# Savings Bonds and Other Bonds

The percentage of all families owning savings bonds fell substantially between 1995 and 1998. The ownership rate declined for every demographic group; the median holding among those with savings bonds hardly changed.

Other types of bonds—excluding bonds held through mutual funds, retirement accounts, and other managed assets—were held by only 3.0 percent of families in 1998, virtually unchanged from 1995.

For the definition of transaction account, see text. For a discussion of the ways that lower-income families obtain checking and credit services and the effects that developments in electronic transactions may have on such families, see Jeanne M. Hogarth and Kevin H. O'Donnell, "Banking Relationships of Lower-Income Families and the Governmental Trend toward Electronic Payment," Federal Reserve Bulletin, vol. 85 (July 1999), pp. 459-73.

<sup>12.</sup> This rise was driven in part by a notable increase in the proportion of families with savings accounts.

Family holdings of financial assets, by selected characteristics of families and type of asset, 1995 and 1998 surveys
 A. 1995 Survey of Consumer Finances

Family characteristic	Trans- action accounts	Certifi- cates of deposit	Savings bonds	Bonds	Stocks	Mutual funds	Retire- ment accounts	Life insurance	Other managed assets	Other	Any financial asset
		•		-	ercentage (	of families 1	nolding usse	t t			•
All families	87.0	14.3	22.8	3.1	15.2	12.3	45.2	32.0	3.9	H.1	91.0
Income (1998 dollars) Less than 10,000 10,000-24,999 25,000-49,999 50,000-99,999 100,000 or more	59.2 82.3 93.4 98.7 99.8	7.9 15.6 13.8 16.2 20.0	5.3 12.4 25.7 38.0 38.2	* 2.7 4.6 14.6	2.3 8.4 13.9 24.7 43.6	1.3 4.9 12.2 20.9 36.7	7.9 25.1 52.5 71.6 84.3	15.2 24.8 32.3 44.8 52.6	3.1 4.3 5.3 8.1	9.5 8.3 13.1 11.6 14.7	67.4 87.8 97.0 99.5 100.0
Age of head (years) Less than 35 35-44 45-54: 55-64 65-74 75 or more	80.4	7.2 8.1 12.5 17.1 24.0 34.7	20.4 31.0 25.3 20.3 17.0 15.3	* 1.7 4.5 3.1 5.6 7.0	10.8 14.6 17.7 15.0 18.6 19.7	8.0 11.2 16.3 16.3 15.0 10.3	40.7 54.3 57.4 50.9 36.6 15.7	22.8 29.3 38.4 37.4 37.5 35.8	1.6 3.5 3.0 7.7 5.9 5.2	13.8 10.9 12.9 9.3 10.0 5.4	86.9 91,8 92,8 90,8 92,6 94,2
Race or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic	92.5 68.1	16.7 6.2	26.2 10.8	3.8 0.6	18.2 5.1	14.8 3.6	49.1 31.5	34.0 24.8	4,8 1.0	11.7 9.1	94.9 77.4
Current work status of head Warking for someone else Self-employed Retired Other not working	89.6 91.5 86.6 58.1	10.4 18.7 23.4 7.8	26.6 25.8 15.3 12.6	2.5 5.3 4.2	15.3 18.7 16.5 4.3	12.4 19.0 11.5 4.3	55.8 50.7 24.9 18.4	32.2 41.9 32.0 13.7	3.6 3.1 5.3	11.8 16.8 7.1 11.5	94.1 94.6 88.7 65.2
Housing status Owner Renter or other	95.0 72.4	17.4 8.7	28.3 12.7	4.3 .9	19.2 7.9	16.0 5.5	54.3 28.4	38.8 19.4	5.0 1.9	9.5 14.0	96.5 80.8
Percentiles of net worth Less than 25 25-49.9 50-74.9 75-89.9 90-100	63.7 89.1 96.1 98.7 99.7	1.8 8.7 17.7 27.1 32.2	8.4 19.9 27.3 34.8 36.5	* 1.4 4.9 18.2	2.9 8.8 13.5 29.2 45.6	1.9 5.3 11.3 23.4 41.8	15.1 41.9 51.8 66.3 80.2	11.3 27.4 38.4 47.3 56.1	* 1.9 3.4 6.3 14.5	9.1 10.7 11.3 10.9 17.3	71.6 94.3 97.9 100.0 100.0
			Median val	ue of holdi	ngs for fam	ilies holdin	g asset (tho	usands of I	998 dollars;		
All families	2.3	10.6	1.1	31.1	9.6	21.2	18.1	5.3	31.9	3.2	16.5
Income (1998 dollars) Less than 10,000 10,000-24,999 25,000-49,999 50,000-99,999 100,000 or more	.7 1.3 2.0 4.4 15.9	7.4 10.6 10.6 13.8 19.1	.8 .7 1.3 1.6	* 30.8 15.9 61.6	1.6 6.4 6.4 7.4 23.4	26.6 9.2 13.8 17.8 63.4	5.3 11.1 10.6 24.6 88.2	2.1 3.2 5.0 7.4 13.8	15.9 22.3 42.5 65.9	2.1 1.9 2.1 5.0 13.8	1.4 5.9 13.3 44.0 218.5
Age of head (years) Less than 35 35-44 45-54 55-64 65-74 75 or more	1.3 2.1 3.2 3.3 3.5 5.3	5.6 5.6 12.7 14.9 21.2 13.8	.5 1.1 1.1 1. <b>6</b> 1.6 5.1	11.7 26.6 10.6 53.1 42.5	3.2 4.8 10.6 20.6 21.2 19.1	5.8 10.6 22.3 59.5 58.4 53.1	6.4 15.6 29.7 33.6 30.3 25.0	3.7 5.6 8.3 5.6 5.3 5.3	4.8 11.5 60.3 53.1 37.2 69.0	1.1 2.1 5.3 10.6 9.6 37.2	5.7 14.6 29.7 34.8 22.5 24.3
Race or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic	2.6 1.5	11.2 10.6	1.1 0.5	31.1 28.7	9.8 2.5	22.3 6.8	19.5 12.7	5.3 5.6	31.9 6.4	4.2 1.4	19.9 6.2
Current work status of head Working for someone else Self-employed Retired Other not working	4.8 3.2	8.5 17.0 16.5 9.0	1.0 .9 2.7 0.4	18.9 53.1 41.4	6.1 19.1 20.2 5.5	13.8 26.6 53.1 24.4	17.0 26.0 27.6 12.7	5.8 6.4 4.5 3.7	15.4 45.7 53.1	2.1 4.2 10.6 5.3	15.6 26.5 20.6 2.7
Housing status Owner Renter or other	3.2 1.3	11.7 8.5	1.1 1.1	41.4 7.4	10.6 3.9	23.4 10.6	21.5 7.6	6.4 3.7	37.2 14.9	5.3 1.7	26.0 4.9
Percentiles of net worth Less than 25 25-49.9 50-74.9 75-89.9 90-100		1.4 5.3 10.6 15.9 37.2	.2 .6 1.1 1.6 2.9	10.6 21.2 74.4	.6 1.9 5.0 10.6 53.1	2.1 3.7 10.6 22.3 86.0	1.3 8.0 17.0 37.7 104.1	1.3 3.6 5.3 7.4 18.1	9.0 11.5 26.6 125.3	.9 1.6 4.2 10.6 31.9	1.1 8.9 26.2 88.6 341.0

5.—Continued

B. 1998 Survey of Consumer Finances

Family characteristic	Trans- action accounts	Certiti- cates of deposit	Savings bonds	Bonds	Stocks	Mutual funds	Retire- ment accounts	Life insurança	other Other	Other	Any financial asset
				1	ercentage (	of families	holding asse	: :			-
All families	90,5	15.3	19.3	3.0	19.2	16.5	48.8	29.6	5.9	9,4	92.9
Income (1998 dollars)											
Less than 10,000	61.9	7.7	3.5	*	3.8	1.9	6.4	15.7	4.9	8.0	70.6
10,000-24,999 25,000-49,999	86.5 95.8	16.8 15.9	10.2 20.4	1.3 2.4	7. <b>2</b> 17. <b>7</b>	7.6 14:0	25.4 54.2	20.9 28.1	4.9° 3.9	8.2 10.2	8949 97.3
25,000-49,999 50,000-99,999	99.3	15.9	30.6	3.3	27.7	25:8	73.5	39.8	8.0	9.1	99.8
anone of 000,001	100.0	16.8	32.3	12.2	56.6	44.8	88.6	50.1	15.8	12.7	T00:0
Age of head (years)											
Less than 35		6.2	17.2	1.0	13.1	12.2	39.8	18.0	1.9	10.1	88.6
35-44 45-54	90.5 93.5	9, <b>4</b> 11.8	24.9 21.8	1.5 2,8	18.9 22.6	16.0 23.0	59.5 59.2	29.0 32.9	3.9. 6.5	11.8 9.1	93.3 94.9
55-64	93.9	18.6	18.1	3.5	25.0	15.2	58.3	35,8	6.5	8.4	95.6
65–74	94,1	29.9	16.1	7:2	21.0	18.0	46.1	39.1	8.11	7.3	95.6
75 or more	89.7	35.9	12.0	5.9	18.0	15.1	16.7	32.6	11.6	6.4	92:1
Race or ethnicity of respondent	04.7	170	22.2	2.7	22.1	100	52 T	22.1	7.1	9.7	04:2
White gon-Hispanic	94.7 75,8	17.9 6.4	22.2 9.2	3.7 .4	22.1 9.1	18.8 8,4	53.7 32.0	32:1 20:8	1.7	8.3	96.3 81.2
•	, ,,,,,	u.,	7.2	•••		٠, .	7=11	4504	•••	4.2	w.·
Current work status of head Working for someone else	92.7	11.1	21.8	1,9	19.5	16.5	58.9	27.5	4.2	9.4	94,8
Self-employed	95.4	11.7	20.2	5.4	26.5	24.8	53.5	39.5	8.7	143	96.9
Retired	87.2	28.8	14.4	<b>5.</b> I	17.1	14.8	28.8	32.4	9.9	6.8	9 <b>0.3</b>
Other not working	69.1	7.6	11.8		8.8	4,8	17.5	17.6	.•.	10.9	75.2
Housing status	ļ										
Owner	96.2 79.2	18.9	23.3	3;8 1,3	24.9 8.0	21,0 7.5	58.4 30.1	36.9 15.2	7.7 2: <b>4</b> :	-8:7 10.8	97.5 84.1
Renter of other	19.2	8.3	11.5	1.3	0.0	7.3	30.1	13.2	Z)M:	hico	Ø47t
Percentiles of net worth	72.	2.0	7.0		7 1	4.1	10.4	10.0	14	7.10	์ ซื้อก
Less than 25	72.1 91.4	3.0 9.8	7.0 16.3	*	3.1 9.4	2.1 8.7	18.4 44.2	10.8 23.7	2:3	7,5	78.0 <b>94.</b> 7
50-74.9	98.5	19.7	23.9	2.2	18.8	15.1	56.4	35.6	5.9	8.3	99-1
75–89.9		30.0	27.9	3.4	36.3	35.7	71.9	45.7	1.01	10.2	99.9
90-100	100.0	26.9	33,1	16.9	58.9	46,4	82.9	52.1	22.2	13.1	100.0
			Median val	lue of holdi	ngs for fam	ilies holdin	g asset (tho	usands of I	998 dollars)		
All families	3.1	15,0	1.0	44.8	17.5	25.0	24.0	7.3	31.5.	3.0	22.A
Income (1998 dollars)											
Less than 10,000		7.0 20.0	1,8 1.0	* 8.4	14.0 10,0	6.0 26.0	7. <b>5</b> 8.0	3.0 5.0	<b>30</b> ,0	,5 1,1	1,1 #£8
25,000-49,999		14,5	.6	25.0	8.0	11.0	13.0	5.0	15.0	-2.0	17.6
50,000-99,999	6.0	13.3	1.0	19.0	15.0	25.0	31.0	9.5	32,0	5.0	57.2
100,000 or more	19.0	22.0	1.5	108.0	55.0	65.0	93:0	18.0	100.0	25.0	244,3
Age of head (years)									. 4. 9	2-2	
Less than 35		2.5 8.0	.5 .7	3.0 55.3	5.0 12.0	7.0° 14.0	7,0 21,0	2.7 8.5	19,4 25.0	1.0 2.5	4.5 22.9
45-54		11.5	1.0	31,7	24.0	30.0	34.0	10.0	39.3	6.0	37.8
55-64		17.0	1.5	100.0	21.0	58.0	46.8	9.5	65.0	100	45.6
65–74	5.6 6.1	20.0 30.0	2.0 5.0	52.0 18.8	50.0 50.0	60.0 59.0	38.0 30.0	8.5 5.0	41.3 30.0	6.0 8.2	45.8 36.6
									••		•
Race or ethnicity of respondent White non-Hispanic	3.7	17.0	1.0	46.0	20.0	29.0	26.0	7.5	32.0	4.0	29.9
Nonwhite or Hispanic	1.5	6.3	.7	14.2	9.0	10.0	13.0	5.0	23.0	1.0	6.4
Current work status of head										:	
Working for someone else		9,0	.7	15.0	10.0	16.0	20.0	7,0	30.0	1.8	19,0
Self-employed	6.3 5.0	22.0 24.0	.9 2.5	150.0 50.0	52.0 50.0	40.0 55.0	49.5 31.0	11,5 6,0	39.3 32.0	7.0	45.0 32.8
Other not working		10.0	.8	*	11.0	17.5	15.0	5.0	*	0.5	2.5
Housing status											
Owner		18.0	1.0	41.5	20.0	30.0	30.0	8.0	32.0	5.0	<b>41.2</b>
Renter or other		10.0	.6	50.0	8.0	12.0	<b>7</b> :5	5:0	23.0	1.0	3:4
Percentiles of net worth											•
Less than 25	.6	1.5	.2	#	.7 3.0	1.5	2.0 8.1	1.2 5.0	10,0	.5 1:18	1.1 10.4
THE JOB AND											111.4
25–49.9		6.2 15.0	.5 L0	10.0		6.0 14.0					
25-49.9 50-74.9 75-89.9 90-100	4.8 10.5	0.2 15.0 25.0 44.0	1.0 2.0 2.0	10.0 25.0 100.0	8.0 26.3 85.0	14.0 35.3 107.0	28.0 59.8 125.0	7.0 10.0 <b>20</b> .0	21.4 23.4 120.0	5.0 7.0 20.0	42.7 144.4 456.8

NOTE. See note to table 1.

<sup>\*</sup> Ten or fewer observations.

At the same time, the median amount of bonds among families that had them rose 44.1 percent. Changes for the different demographic groups were quite mixed, but among the groups with relatively large holdings in 1995—the top income and top net worth groups—ownership moved down while the median holding rose substantially. The increase in the median holding for families headed by the self-employed was also notable. Given the sparseness of bond ownership among most other groups, estimates of the amounts of their holdings are subject to a relatively high level of statistical variability.

# Publicly Traded Stocks

The fraction of families having direct ownership of publicly traded stocks—that is, stocks other than those held through mutual funds, retirement accounts, or other managed assets—rebounded to 19.2 percent in 1998; the proportion had fallen to 15.2 percent in 1995 from about 17 percent in both 1989 and 1992. Although the largest increases in ownership were in the highest income and net worth groups, almost all of the groups showed some increase. Among families with incomes from \$25,000 to \$49,999, the proportion owning stock rose 3.8 percentage points. For those in the 55-to-64 age group, the increase was 10.0 percentage points. Some of the additional ownership may be attributable to the increasing ease of individual stock trading.

Fueled by a rising stock market, the median amount of stock held by those having direct holdings rose 82.3 percent, from \$9,600 in 1995 to \$17,500 in 1998.<sup>13</sup> Most of the demographic groups also had large proportional increases. Among the work-status groups, the increases in holdings were most notable for the self-employed and retired. Of all the demographic categories, only one, the 55-to-64 age group, had minimal growth in their holdings over the period, probably because of an influx of new owners with relatively small holdings.

#### Mutual Funds

Continuing a trend going back at least to 1989, the proportion of families owning mutual funds of any type (excluding money market funds or funds held through retirement accounts or other managed assets) rose 4.2 percentage points, to 16.5 percent, between 1995 and 1998. Ownership increased substantially for most of the demographic groups, and it eased off only for the families in the 55-to-64 age group, which had a particularly large rise in the fraction of families with directly held stock.

Between 1995 and 1998, median holdings of mutual funds among those who had them rose 17.9 percent. The changes in holdings over demographic groups were more mixed than was the case for directly held stocks, but increases were nonetheless broadly spread. As was the case with bonds and directly held stocks, the increase among the workstatus groups was particularly notable for the self-employed. Among the net worth groups, the largest proportional increases were for families between the 25th and 90th percentiles of the distribution.

#### Retirement Accounts

Continuing earlier trends, the ownership of tax-deferred retirement accounts rose broadly, from 45.2 percent of families in 1995 to 48.8 percent in 1998.<sup>14</sup> Across the income groups, ownership declined only among the under-\$10,000 group; however, the shrinkage of this group over the three years suggests that its composition may have changed in important ways. Ownership also declined for the younger-than-35 and neither-working-nor-retired groups. Ownership of retirement accounts increased 4.6 percentage points for families with white non-Hispanic respondents, while it rose ½ percentage point for other families.

<sup>13.</sup> During the interview period of the 1998 survey—July to December—the stock market, as measured by the Wilshire index of 5000 companies, slipped from an average of 10,770 in July to 9,270 in September but bounced back to an average of 10,840 in December. This variation raises a concern that the net worth values reported in the survey may be affected by the date of the interview. Regression analysis of the 1998 survey data suggests that the reporting of equity values was not significantly affected by fluctuations in the value of the market index except for families that were relatively active stock traders. Reporting by other families may have been based on brokerage statements, which are typically mailed quarterly.

<sup>14.</sup> The tax-deferred retirement accounts include individual retirement accounts (IRAs), Keogh accounts, and certain employer-sponsored accounts. The amounts held in retirement accounts may be invested in virtually any asset, including stocks, bonds, mutual funds, options, and real estate.

Here, employer-sponsored accounts are those from current jobs held by the family head and that person's spouse or partner as well as those from past jobs held by them. The accounts from current jobs are restricted to those in which loans or withdrawals can be made, such as 401(k) accounts; those from past jobs are restricted to accounts from which the family expects to receive the account balance in the future. These restrictions on the types of accounts are intended to confine the analysis to amounts that are portable across jobs and to which families will ultimately have full access. Earlier articles on the survey in the Federal Reserve Bulletin included only the accounts from current jobs.

For families with tax-deferred retirement accounts, median holdings jumped 32.6 percent. Increases appeared in all the demographic groups except renters and families with incomes from \$10,000 to \$24,999. The median value of holdings of the white non-Hispanic group rose considerably, but for the nonwhite or Hispanic group, median holdings only edged up.

Tax-deferred retirement accounts are only a part of the retirement assets that families have. Many families also have coverage under defined-benefit pension plans, which typically provide annuity income at retirement based on workers' salaries and years of service. Most families also have some entitlement to social security retirement income. Unfortunately, future retirement income from these sources is difficult to value because it depends crucially on assumptions about future events and conditions—work decisions, earnings, inflation rates, discount rates, mortality, and so on. Because of the lack of widely agreed standards for these assumptions, this article does not include a measure of the present value of such income in families' net worth.<sup>15</sup>

However, the survey does provide general information on pension coverage, which consists of definedbenefit plans and defined-contribution—that is, account-type—plans. According to the 1998 survey, 41.0 percent of families had some type of pension coverage through a current job of either the family head or the spouse or partner of that person; the level was 39.1 percent in 1995 (not shown in table). Continuing a trend away from defined-benefit pension plans, the share of families with pension coverage through a current job that participated in a definedbenefit plan slipped from 47.5 percent in 1995 to 42.9 percent in 1998, while the share participating in an account-type plan rose from 73.9 percent in 1995 to 79.4 percent in 1998. The share with both types of plans went up from 21.4 percent in 1995 to 22.3 percent in 1998.

In many account-type pension plans, contributions may be made by the employer, the worker, or both. In some cases these contributions represent a substantial amount of saving, though workers may offset this saving by reducing their saving in other forms. The employer's contributions also represent additional income for the worker. In 1998, 82.7 percent of families with account-type pension plans on a current job had employers who made a contribution to the plan, and 86.6 percent of families with such plans made contributions themselves.

Participation in defined-contribution plans is usually voluntary. In 1998, 22.7 percent of family heads who were eligible to participate in such a plan failed to do so, down from 26.0 percent in 1995. The data indicate that this choice is related strongly to income: Heads of families with incomes of less than \$25,000 were less likely to participate than others. Among the family heads who were eligible but chose not to participate, 40.2 percent were covered by a defined-benefit plan.

#### Cash Value Life Insurance

Cash value life insurance combines insurance coverage in the form of a death benefit with an investment vehicle. Some types of cash value policies offer a high degree of choice on the investments. Like returns earned within IRAs, Keoghs, and personal annuities, investment returns on cash value life insurance are typically shielded from taxation until money is withdrawn. Ownership of cash value policies declined 2.4 percentage points between 1995 and 1998. This decline continued a downward trend from the 1989 survey, and it was shared by almost every demographic group. This movement may reflect several factors. First, other investments may have become more attractive to consumers than cash value insurance. Second, term life insurance—which pays a death benefit if the insured dies within the term of the coverage but pays nothing otherwise—has been competitive with cash value insurance; in addition, advances in the availability of information may have made it easier for consumers to compare costs. Finally, consumers' demand for life insurance may have eased somewhat: As with the ownership of cash value insurance, ownership of any type of life insurance policy has slipped, from 75.1 percent of families in 1989 to 69.2 percent in 1998.

For families that held cash value insurance, the median cash value increased 37.7 percent between 1995 and 1998. The median also rose for all groups except the youngest and oldest age classes, families with incomes from \$25,000 to \$49,999, and families in the bottom quarter of the distribution of net worth. The decline in ownership, taken together with the increase in the median holding, suggests that the typical family owning this asset is using it more intensively as an investment vehicle.

<sup>15.</sup> For one possible calculation of net worth that includes the annuity value of pension benefits and social security retirement payments, see Arthur B. Kennickell and Annika E. Sundén, *Pensions, Social Security, and the Distribution of Wealth,* Finance and Economics Discussion Series 1997–55 (Board of Governors of the Federal Reserve System, October 1997). Papers in this series from 1996 to date are available at www.federalreserve.gov/pubs/feds.

## Other Managed Assets

Ownership of other managed assets—including personal annuities and trusts with an equity interest and managed investment accounts—rose from 3.9 percent of families in 1995 to 5.9 percent in 1998. Part of the rise is attributable to the increased holding of personal annuities with an equity interest: 4.5 percent of families had such annuities in 1998, up from 3.9 percent in 1995. Most groups increased their ownership of other managed assets over the three-year period, with a particularly notable rise for families with incomes of \$100,000 or more and those in the top 10 percent of the distribution of net worth.

Median holdings for those having other managed assets declined slightly. In light of the sparseness of ownership for many of the groups, much of the large change observed in various groups is likely attributable to sampling variation.

#### Other Financial Assets

For the other financial assets—a heterogeneous category including oil and gas leases, futures contracts, royalties, proceeds from lawsuits or estates in settlement, and loans made to others—ownership fell 1.7 percentage points from 1995 to 1998. The decline was broadly spread across demographic groups. For those having such assets, the median holding dipped about \$200 from the 1995 level. The pattern of changes across the demographic groups appears to have no straightforward interpretation.

Publicly traded companies have increasingly been offering stock options to their employees as a form of compensation.<sup>17</sup> Although such stock options, when executed, may make an appreciable contribution to family net worth, the survey did not specifically ask for the value of these options because their valuation is not straightforward until their exercise date.<sup>18</sup> Instead, in 1998 the survey for the first time asked whether the family head or that person's spouse or partner had been given stock options by

Direct and Indirect Holdings of Publicly Traded Stocks

Families may hold stock in publicly traded companies in many different ways-through direct ownership of shares or through mutual funds, retirement accounts, or other managed assets—and information about each of these asset types is collected separately in the SCF. When all these forms of stock ownership are combined, the data show considerable growth in stock ownership in every survey since 1989 (table 6). In 1998, 48.8 percent of families owned stock equity through some means. Since 1989, the ownership rate has grown 17.2 percentage points, with nearly half of the gain since 1995. Between 1995 and 1998, ownership rose for all family income and age groups; among these, the increases were largest in the \$50,000-\$99,999 income group and the 55-to-64 age group.

Not surprisingly, given the robust growth in stock prices, the median value of stock holdings among those having any rose strongly—from \$15,400 in 1995 to \$25,000 in 1998, a 62.3 percent increase. Moreover, the proportion of financial assets attributable to all forms of stock ownership also moved up, from 40.0 percent in 1995 to 53.9 percent in 1998. The rise reflects both an increase in the market valuation of stocks and the increased tendency of families to hold stock.

# Nonfinancial Assets

Nonfinancial assets as a proportion of the total assets of all families fell from 69.6 percent in 1989 to 59.4 percent in 1998 (table 7). The proportion of nonfinancial assets attributable to the primary residence or other residential property held steady at about 55 percent over the 1989–98 period. At the same time, the part attributable to vehicles and net equity in privately owned businesses rose slightly, while the proportion attributable to net equity in nonresidential properties and other nonfinancial assets fell. The patterns across demographic groups in 1995 and 1998 are similar to those seen for financial assets: Ownership and median holdings rise with income; by age group, they rise initially and then decline (table 8).

Overall, the proportion of families with any type of nonfinancial asset slipped a bit, from 90.9 percent in

an employer during the preceding year. Overall, 11.2 percent of families in the 1998 survey reported having received stock options.

<sup>16.</sup> In 1998, the SCF questionnaire was changed so that information on annuities was collected separately from information on trusts and managed investment accounts. The earlier surveys had asked about the total value of holdings in these types of assets after respondents had specified the types they had. Some of the increase in the ownership of annuities may reflect this change.

<sup>17.</sup> See David Lebow, Louise Sheiner, Larry Slifman, and Martha Starr-McCluer, *Recent Trends in Compensation Practices*. Finance and Economics Discussion Series 1999-32 (Board of Governors of the Federal Reserve System, July 1999).

<sup>18.</sup> Because such options are typically not publicly traded, their value is uncertain until the exercise date; until then, meaningful valuation would require complex assumptions about future movements in stock prices.

Family characteristic	Fam	ilies having direct or	stock hold indirect!	ings.	Median value among families with holdings (thousands of 1998 dollars)				Stock holdings as share of group's financial assets			
	1989	1992	1995	1998	1989	1992	1995	1998	1989	1992	1995	1998
All families	31.6	36.7	40.4	48.8	10.8	12.0	15.4	25.0	27.8	33.7	40.0	53.9
Income (1998 dollars)			<i>5</i>			4.3	3.5			150	120	24.
Less than 10,000	12.7	6.8 17.8	5. <del>4</del> 22.2	7.7 24.7	* 6.4	6.2 4.6	3.2 6.4	4.0 9.0	11.7	15.9 15.3	12,9 26.7	24. 27.:
25,600-49,999	31.5	40.2	45.4	52.7	6.0	7.2	8.5	11.5	16.9	23.7	30.3	39.
50,000-99,999	51.5	62.5	65.4	74.3	10.2	15.4	23.6	35.7	23.2	33.5	39.9	48.
100.000 or more	81.8	78.3	81,6	91,0	53,5	71.9	85.5	150.0	35.3	40.2	46.4	63.
Age of head (years)												
Less than 35	22.4	28.3	36.6	40.7	3.8	4.0	5.4	7.0	20.2	24.8	27.2	44
35-44	38.9	42.4	46.4	56.5	6.6	8.6	10.6	20.0	29.2	31.0	39.5	54.
45–54	41.8	46.4	48.9	58.6	16.7	17.1	27.6	38.0	33.5	40.6	42.9	55.
55-64	36.2	45.3	40.0	55.9	23.4	28.5	32.9	47.0	27.6	37.3	44.4	58.
65-74	26.7	30.2	34.4	42,6	25.8	18.3	36.1	56.0	26.0	31.6	35.8	51.
75 or more	25.9	25.7	27.9	29.4	31.8	28.5	21.2	60,0	25.0	25.4	39.8	48.

6. Direct and indirect family holdings of stock, by selected characteristics of families, 1989, 1992, 1995, and 1998 surveys Percent except as noted

75 or more ...... NOTE. See note to table 1.

1995 to 89.9 percent in 1998. Declines were spread fairly evenly over most demographic groups except the income and net worth groups, in which the decreases were largest for families at the lower ends of the scales. The median holding of nonfinancial assets for all families with such assets rose 11 percent over the three-year period. Although most groups shared in the rise, the increases in the medians for the nonwhite or Hispanic group and for the selfemployed were particularly noteworthy.

## Vehicles

Vehicles continue to be the most widely held nonfinancial asset; 86 percent of families either owned them (table 8) or leased them (not shown) in both the 1995 and 1998 surveys.19 Although the share of families leasing vehicles is still fairly small (6.4 percent in 1998), it has been growing quickly, while the rate of ownership slid down a bit between 1995 and 1998, to 82.8 percent.<sup>20</sup>

Between the 1992 and 1995 surveys, the greatest growth in leasing was among families with incomes

Among owners, the median value of owned vehicles rose about \$300 between 1995 and 1998, a 2.9 percent increase. Across income groups, the value of vehicles owned rose notably only for families with incomes of \$100,000 or more. The median value of vehicles owned also increased substantially for families in the top 10 percent of the net worth distribution and in the 55-or-older age groups.

Primary Residence and Other Residential Real Estate

Continuing a trend since 1989, home ownership rose 1.5 percentage points from 1995, reaching 66.2 per-

 Value of nonfinancial assets of all families, distributed by type of asset, 1989, 1992, 1995, and 1998 surveys Percent

Type of nonfinancial asset	1989	1992	1995	1998
Vehicles	5.6	5.7	7.1	6.5
Primary residence	45,9	47.0	47.4	47.1
Other residential property	8.1	8.5	8.0	8.5
Equity in nonresidential property	¥1.0	10.9	7.9	7.7
Business equity	26.9	26.3	27.3	28.5
Other	2.5	1.6	2.3	1.7
Total	100	100	100	100
Мемо				
Nonfinancial assets				
as a share of total assets	69.6	68.5	63.4	59.4

NOTE. See note to table 1.

<sup>1.</sup> Indirect holdings are those in mutual funds, retirement accounts, and other managed assets.

Ten or fewer observations.

of \$100,000 or more. However, between the 1995 and 1998 surveys, the growth of leasing among families in that income group had leveled off, while it had picked up among families with incomes below \$50,000.

<sup>19.</sup> Vehicles include automobiles, vans, trucks, sport utility vehicles, motorcycles, recreational vehicles, airplanes, and boats that are owned for personal use. Counting families that have personal use of a car owned by a business raises the proportion of families with a vehicle to 87.2 percent in 1998.

<sup>20.</sup> The share of families leasing a vehicle was 2.9 percent in 1992 and 4.5 percent in 1995. Leased vehicles represented 25.0 percent of all new vehicles acquired by families in 1998, up from 20.5 percent in 1995 and 10.1 percent in 1992. For additional evidence on vehicle leasing, see Ana Aizcorbe and Martha Starr-McCluer, "Vehicle Ownership, Vehicle Acquisitions and the Growth of Auto Leasing,' Monthly Labor Review, vol. 120 (June 1997), pp. 34-40.

- 8. Family holdings of nonlinancial assets, by selected characteristics of families and type of asset, and of any asset, by family characteristic, 1995 and 1998 surveys
  - A. 1995 Survey of Consumer Finances

Family characteristic	Vehicles	Primary residence	Other residential property	Equity in nonresidential property	Business equity	Other	Any nonfinancial asset	Any asset
			Po	ercentage of fam	ilies holding as	set		
All families	84.1	64.7	11.8	9.4	11.1	9.0	90.9	96.3
Income (1998 dollars)								
Less than 10,000	54.9	36.1	3.9	4.0	4.8	3.8	66.8	83.0
10,000–24,999	82.3 91.7	54.9	7.0 9.9	5.5 8.0	6.6 9.4	5.9 9.4	89.4 96.4	96.0 <b>99</b> .7
25,000–49,999	93.4	67.0 84.5	16.7	14.5	16.3	11.0	98.8	100,0
100,000 or more	91.6	91.1	38.4	24.5	31.5	23.0	99.5	100.0
Age of head (years)								
Less than 35	83.8	37.9	4.2	3.6	8.3	7.2	87.1	94.3
35-44	84.7 88.2	64.7 75.3	9.7 16.3	7.1 14.3	14.3 15.5	10.0 11.4	90.6 93.6	96.0 97.3
45-54	88.4	73.3 82.0	19.9	13.4	12.7	10.2	93.9	96.4
65-74	82.5	79.5	16.1	16.2	8.7	9.0	92.6	97.7
75 or more	72.2	72.8	12.2	6.4	3.7	5.6	89.9	98.4
Race or ethnicity of respondent								
White non-Hispanic	88.2	70.6	13.2	10.4	12.8	10.6	95.1	98.6
Nonwhite or Hispanic	69.7	44.3	7.1	5.7	5.3	3.6	76.3	88.5
Current work status of head	90.0	620	10.2	9.45	6.0	0.4	93.9	Oo x
Working for someone else	89.9 86.1	63.8	10.3	8.0 22.2	6.9 58.1	9,6 15.5	93.9 96.0	98.6 97.8
Self-employed	86.1 76.2	74.5 70.6	21.3 13.1	8.5	3.3	5.8	96.0 88.1	97.8 95.6
Other not working	59.0	34.4	5.0	4.2	4.0	5.9	66.2	76.9
Housing status						.e. =		ADV. A
Owner	90.9 71.6	100.0	15.1 5.7	12.1 4.4	13.7 6.3	10.5 6.3	100.0 74.1	100.0 89.6
Percentiles of net worth Less than 25	65.4	13.7	4	.9	1.6	3.0	68.4	85.3
25-49.9	87.8	64.1	5.4	4.5	5.7	7.0	96.3	100.0
50-74.9	90.9	88.3	11.1	9.0	12.3	10.5	99.0	100.0
75–89.9	92.3	92.2	21.3	15.8	16.5	12.4	99.8	100.0
90–100	92.3	93.5	42.6	33.8	37.1	20.3	99.9	100.0
		Median	value of holdin	gs for families h	olding asset (th	ousands of 1995	8 dollars)	
All families	10.5	95.6	53.1	31.9	47.8	9.3	88.1	108.1
Income (1998 dollars)				0		4.5		
Less than 10,000	4.0	41.4	28.0	15.9	54.1	6.2	14.2 45.7	13.5 55.5
10,000–24,999	6.2 11.1	69.0 85.0	31.9 45.1	14.9 42.5	35.1 26.0	6.4 6.2	43.7 84.0	33.3 1 <b>04.</b> 4
50,000–49,999	16.9	126.4	63.7	21.2	31.9	14.3	146.7	202.2
100,000 or more	24.4	196.5	106.2	106.2	265.5	19.1	314.7	608.5
Age of head (years)								
Less than 35	9.4	80.7	36.1	12.7	21.2	5.3 10.6	23.2 102.2	34.1 118.1
35–44 45–54	11.3 13.7	100.9 106.2	49.9 63.7	18.1 19.1	37.2 74.4	10.6	120.0	159.8
55–64	12.2	92.4	58.4	67.8	69.0	10.6	114.7	170.8
65–74	8.7	90.3	60.5	42.5	106.8	14.9	100.7	132.9
75 or more	5.6	85.0	28.7	6.4	37.4	8.5	83.9	102.3
Race or ethnicity of respondent	(1.4	06.7	\$0 A	240	52.1	10.6	00.5	176.2
White non-Hispanic Nonwhite or Hispanic	11.4 7.8	96.7 74.4	58.4 30.9	34.0 21.2	53.1 27.9	10.6 6.9	99.5 37.0	126.3 40.9
Current work status of head								
Working for someone else	11.5	95.6	49.9	18.1	22.3	10.6	86.4	105.0
Self-employed	13.4	127.5	85.0	55.8	79.7	8.5	189.0	243.5
Retired	7.8	80.7	47.8	37.2	106.2	10.6 7.4	83.9 21.2	102.0 22.3
Other not working	6.6	63.7	45.1	53.1	21.2	1.4	41.4	44.3
Housing status Owner	12.7	95.6	55.2	37.2	58.4	10.6	123.0	168.1
Renter or other	6.7	95.0	39.8	12.7	23.4	5.3	7.9	13.1
Percentiles of net worth								
Less than 25	4.8	28.7	*	2.1	1.6	2.7	6.2	6.1
25–49.9	9.1	53.1	29.7	7.4	10.6	5.3	43.6	51.7
50–74.9	11.9 15.1	90.3 136.0	32.4 53.1	10.6 37.2	23.4 95.6	8.5 10.6	107.7 180.5	137.1 273.3
90–100	21.6	196.5	132.8	108.9	345.2	26.6	421.2	802.3
	_1				1- 71-144			

# 8.—Continued

B. 1998 Survey of Consumer Finances

Family characteristic	Vehicles	Primary residence	Other residential property	Equity in nonresidential property	Business equity	Other	Any nonfinancial asset	Any asset		
Ì	Percentage of families holding agest									
All Families	82.8	66.2	12.8	8.6	11.5	8.5	89,9	96,8		
ncome (1998 dollars)										
.ess than 10,000 0,000-24,999	51.3 78.0	34.5 51.7	* 5,8	* 5.0	3,8 5.0	2.6 5. <b>6</b>	62.7 85.9	83.8 96.4		
5,DDD-49,999	89.6	68.2	11.4	7,6	10.3	9.4	95.6	99.2		
0,000-99,999	93.6	85.0	19.0	12.0	15.0	10.2	98.Q	100.0		
DD DDD or more	88.7	93.3	37.3	22.6	34.7	17.1	98.9	100.0		
ge of head (years) ess than 35	78.3	38.9	2.5	27	7.2	7.3	83.3	94.8		
5-44	85.8	67.1	3.5 12.2	2.7 7.5	14.7	8.8	92.0	97.0		
5–54	87.5	74.4	16.2	12.2	16.2	9.2	92.9	96.		
5–64	88.7	80.3	20.4	10.4	14.3	8.5	93.8	98.		
5–74	83.4	81.5	18.4	15.3	10.1	10,3	92.0	98.		
5 or anone	69.8	77.0	13.6	8.1	2.7	7,0	87.2	96.4		
Rece or ethnicity of respondent  Vhise non-Hispanic	87.3	71.8	[4.]	9.4	13.2	10.0	93.8	98.8		
onwhite or hispanic	67.2	46.8	8.4	5.8	5.4	3.1	76.4	89.9		
urrent work status of head	07.4	42.5	10.4	4.7	5.5	00	02.4	no r		
Varking for someone olse	87.6 89.5	63.5 81.3	10.6 25.3	6.7 17.7	5.5 63.4	8.8 13.3	92,4 98,1	98. 99.		
enred	73.3	72.4	14.3	10.1	3.6	6.4	85,2	94.		
Other not working	58.5	35.8	4.5	*	3.7	*	66.3	85.		
lousing status	00 %	100.0	16 0	11.2	14,5	0.5	100.0	100.0		
Owner	90.6 67.6	100.0	16.8 5.1	11.3 3.3	5.4	9.5 6.4	70.1	90.7		
ercentiles of net worth										
ess than 25	62.3	14.1	*	* 2.7	1.4	2.5	65.2	87.		
5-493 0-74D	87.4 90.4	67.2 89.3	5.8 11.8	3.5 7.9	6.5 10.6	8.0 8.9	96.1 99.1	100.0 100.0		
5-893	90.8	94.0	26.2	16.7	17.9	11.4	99.3	100.0		
ro-136	92.0	95.1	41.7	30.6	41.4	18.8	99.6	100.0		
	Median value of holdings for families holding asset (thousands of 1998 dollars)									
All families	10.8	190.9	65.0	38.0	60.0	10.0	97.8	123.5		
prome j.HDBK stedlars)	_									
5885 Hrain 10.000	4.0	51.0	*:	25.0	37.5	5.0	16.3	11.1 46.1		
0,000-24,566 5,600-49,566	5.7 10.2	71.9 85.0	70.0 50.0	25.0 28.0	31.1 37.5	5.0 6.0	43.7 83.5	112.0		
0.000-39.000	16.6	130.0	60.0	30.0	56.0	12.0	156.3	233.		
00,000 or those	26.8	240.0	132.0	114.1	230.0	36.0	380.0	665.6		
ge of theid (seems)	8:9	84.0	42.5	25.0	34.0	5.0	22.7	28.9		
\$-44	8.9 [1.4]	0.101	45.0	20.0	62.5	8.0	103.5	128.0		
5-54	12.8	120.0	74.0	45.0	100.0	14.0	126.8	178.9		
5-64	13.5	110.0	70.0	54.0	62.5	28.0	126.9	198.		
5–74	10.8 7:0	95.0 85.0	75.0 103.0	45.0 54.0	61.1 40.0	10.0 10.0	109.9 96.1	165.1 135.0		
tuce or vidanicity of respondent										
White non-Hispanic tourshire or Dispanic	8.11 8.0	10 <b>0</b> .0 85.0	67.0 59.0	42.5 24.0	67.6 30.0	10.0 5.0	107.6 52.0	144.9 43.1		
Timena work status of liveal										
Norking for Mineone the	14.2	98.0	50.0	24.0	30.0	7.0	89.6	112.4		
elf-employed	15.5	150.0	85.0	80.0	100.0	50.0	256.6	329.		
Chred Ohor ata working	8.6 7.2	89.0 90.0	100.D 64.6	50,0 ≠:	50.0 39.0	10.b *	97.8 28.5	134.1 18.0		
Touššing status										
	13.2 6.2	100.0	65.0 64.6	45.0 15.0	75.0 31.0	13.0 5.0	130.6 7.2	193 11.0		
วงรัสว่าำ			31.0	.5.0	2 4167					
Duries device of outer	0.2									
Outes The outes The top outes The top outes The outes The outes The outes	4.49	40.0	*	#: 10.0	3.5	1.0	6.4			
Duenes Rentes of outner Personites of ner worth 1858 then 25 18-49.5	4.9 8.6	60,0	37.5	0.01	12.0	5.0	51.5	5.9 60.7		
Outer Contex of outer Coresolites of our worth cost than 25	4.49									

Note. See note to table 1.

<sup>\*</sup> Ten or fewer observations.

<sup>. .</sup> Not applicable.

cent in 1998. Ownership grew strongly for families with incomes of \$100,000 or more, for families headed by those younger than 45 or those 65 or older, for those with nonwhite or Hispanic respondents, and for families headed by the self-employed. Home ownership fell for families with less than \$25,000 of income and for families headed by those aged 45 to 64.

The median value of a primary residence among homeowners rose only 4.6 percent from 1995 to 1998, but increases for some groups were very large: 23.2 percent for families with less than \$10,000 of income, 22.1 percent for those with incomes of \$100,000 or more, 13.0 percent for the 45-to-54 age group, and 27.2 percent among the wealthiest 10 percent of families. The median home value for families with nonwhite or Hispanic respondents increased 14.2 percent, compared with 3.4 percent for other families.<sup>21</sup>

In 1998, 12.8 percent of families had some form of residential real estate besides a primary residence (second homes, time shares, one- to four-family rental properties, and other types of residential property), up from 11.8 percent in 1995. The pattern of changes was mixed across demographic groups, with a notable increase for families headed by the self-employed. For families with this kind of property, the median value of their property rose 22.4 percent over the three-year period. Percentage gains were particularly large for families in the 75-or-older age group, for families with nonwhite or Hispanic respondents, and for families headed by retirees; however, because relatively few families in these groups have such property, these estimates may be imprecise.

### Net Equity in Nonresidential Real Estate

Continuing a trend observed since the 1989 SCF, ownership of nonresidential real estate (commercial properties, rental properties with five or more units, farm land, undeveloped land, and all other types of nonresidential real estate except property owned through a business) slipped between 1995 and 1998. This trend partly reflects the expiration of real estate partnerships that had been established before changes in the tax code limited the deductibility of losses on investments in which a person has a "passive" interest. Ownership fell for most of the demographic

groups; notable exceptions were families headed by those aged 75 or more and by retirees.

Among owners of nonresidential real estate, the median net equity in such property—its value less the amount of any outstanding loans secured by it—rose 19.1 percent over the 1995–98 period. The increase was shared by most of the demographic groups.

# Net Equity in Privately Held Businesses

In 1998, 11.5 percent of families owned privately held business interests, a proportion that has hardly changed since 1989.<sup>22</sup> Between 1995 and 1998, business ownership rose 3.2 percentage points for families with \$100,000 or more of income, while moving only slightly for the other income groups.

Among families with business interests, the median value of the business net of borrowing done by the business rose 25.5 percent over the three-year period. Changes were quite mixed across the demographic groups considered. The median increased for families with incomes from \$25,000 to \$99,999 but declined for the other income groups. By age of family head, the median fell for the 55-to-74 groups, while it rose for the others. The median holding fell for families in the top 25 percent of the net worth distribution, for whom business interests have been a key asset. The increase in business ownership for these families suggests that the decline in the median may have been driven by the startup of new businesses that have relatively low initial net values and possibly by the change in form of ownership of particularly successful businesses to that of publicly traded corporation.

#### Other Nonfinancial Assets

For the remaining nonfinancial assets (a broad category of tangible items including artwork, jewelry, precious metals, and antiques), ownership rates fell a bit between 1995 and 1998. The decline was spread across most of the demographic groups. In contrast, the median value of holdings for those who had such assets rose slightly. Although patterns of change in median holdings were varied across groups, the median grew strongly for the 55-or-older and self-employed groups and families in the top quarter of the net worth distribution.

<sup>21.</sup> Among homeowners, mean and median equity in a primary residence—that is, the difference between the market value of the property and the amounts outstanding on any debt secured by the property—also rose over the 1995–98 period: The median increased from \$53,100 in 1995 to \$57,000 in 1998, while the mean jumped from \$78,300 to \$87,400.

<sup>22.</sup> The forms of business in this category are sole proprietorships, limited partnerships, other types of partnerships, subchapter S corporations, other types of corporations that are not publicly traded, and other types of private businesses.

Pamily characteristic	1989		. 19	1992		1995		1998	
	Median	Mean	Median	Меал	Median	Mean	Median	Меал	
Alf families	12.7	91.5	8.6	79.8	6.3	71.8	10.8	96.3	
ncome (1998 do(lars)									
cas then t0,000	t	11.9	<b>*</b>	15.3	+	16.5	†	16.0	
10.000-24.999	t	30.1	.6	28.4	t	25.7	Ť	26.6	
25,000-49.999	12.7	55.3	6.9	49.4	5.3	37.6	10.0	46.9	
50,000-29,999	38.2	0.98	27.4	85.8	26.1	69.3	27.0	80.8	
10/0,000 or more	159.0	531.5	134.7	490.7	81.3	493.8	105.3	629.2	
Age of head (years)									
ess than 35	t	20.6	†	15.4	†	10.1	†	15.4	
35-44	14.1	<b>6</b> 8. <b>6</b>	5.7	62.2	4.2	38,8	7.1	63.3	
15–54	40.7	132.3	20.6	117.9	19.8	101,3	22.4	125,6	
55–64	38:2	160.7	33.1	150.1	30.8	145.7	35.6	185.8	
5–74	33.7	139.5	34.3	123.9	31.9	125.5	46.5	163.5	
75 OF MODE	21.5	126.2	28.9	75.8	34.7	91.3	36.0	114.7	

 Family holdings of unrealized capital gains, by selected characteristics of families, 1989, 1992, 1995, and 1998 surveys Thousands of 1998 dollars.

NOTE. See note to table 1.

## Unrealized Capital Gains

Changes in the values of assets such as businesses, real estate, and stocks are a key determinant of changes in family net worth. Unrealized gains are increases in the value of assets that are yet to be sold. To obtain information on this part of net worth, the survey asks about changes in value from the time of purchase for certain key assets-the primary residence, other real estate, businesses, publicly traded stock, and mutual funds.<sup>23</sup> Driven by the appreciation of residential real estate and especially by the strong rise in the stock market, the median unrealized capital gain rose 71.4 percent between 1995 and 1998, while the mean moved up 34.1 percent (table 9). The mean in 1998 was above its value in 1989, whereas the median was a bit below its 1989 level.

#### LIABILITIES

The substantial growth in family assets from 1995 to 1998 was accompanied by substantial growth in family debt. The growth in assets was somewhat faster, however, producing a slight decline in the ratio of family debts to assets (the leverage ratio), from 14.7 percent in 1995 to 14.4 percent in 1998 (table 10). But the movement in the ratio reversed only part of the upward trend observed from 1989 to 1995.

## Families' Holdings of Debt

From 1995 to 1998, the overall proportion of families with any sort of debt inched down from 74.5 percent to 74.1 percent (table 11). Nonetheless, the 1998 level remained above the 73.0 percent figure registered in 1989. Among families with debt, the median amount of debt outstanding rose 42.3 percent from 1995 to 1998, and in 1998 stood 73.3 percent above its level in 1989.

In all the surveys, the prevalence of debt rises with income through the \$99,999 mark and then drops off. In contrast, the median amount of debt among those with debt rises continuously across income groups, probably because of borrowing associated with the acquisition of nonfinancial assets by higher-income groups. Across age groups, the proportion of families with debt rises relatively slowly up to about age 45 and then declines; the median shows a similar pattern. The drop-off in debt for older families is driven by the paying off of mortgages on primary residences.

 Amount of debt of all families, distributed by type of debt. 1989, 1992, 1995, and 1998 surveys Percent

Type of debt	1989	1992	1995	1998
Home-secured debt Other residential property Installment loans Other lines of credit Credit card balances Other Total	69.4 7.6 16.6 1.4 2.8 2.2	72,5 10.0 11.3 .7 3.2 2.3 100	73.3 7.5 11.8 .6 3.9 2,8	71.9 7.4 12.8 .3 3.8 3.7
Мемо Debt as a percentage of total assets	12.4	14.6	14.7	14.4

NOTE. See note to table 1.

<sup>†</sup> Less than \$50.

<sup>23.</sup> The survey does not collect information on capital gains for every asset. Most notably, it does not collect such information for retirement accounts.

Family holdings of debt, by selected characteristics of families and type of debt, 1995 and 1998 surveys
 A. 1995 Survey of Consumer Finances

Family characteristic	Home-secured	Other residential property	Installment loans	Other lines of credit	Credit card balances	Other	Any debi
	<del>,1</del>	,	Percenta	ge of families hol	ding debt		
All families	41.0	4.7	45.9	1.9	47.3	8.5	74.5
Income (1998 dollars)							
Less than 10,000	9,0	1.6	25.1	*	23.9	6.1	47.2
10,000-24,999	23.9	1.3	38.9		41.2	8.1	65.8
25,000-49,999	44.9	3.9	53.7 60.0	2.2 3.1	54.5	8.7 8.6	82.2 89.4
50,000-99,999 100,000 or more	67,6 72.7	7,0 1 <b>9</b> .7	39.7	4.6	62.8 41.2	13.5	85.3
Age of head (years)	1						
Less than 35	33.0	2.1	62.5	2.7	54.7	7.4	83.5
35–44	54.3	4.9	59.7	2.1	55.9	10.5	86.9
45-54	61.8	8.4	53.3	2.2	56.4	13,0	86.3
55-64	45.2	8.3	34.8	1.7 1.3	43.2 30.5	7.8 5.4	73.7 53.4
65-74	24.7 6.8	3.5 1.0	16.5 8.8	1.0 #	17.5	2.9	28.4
75 or more	0.8 	1.0	0.0	•	17.3	4.7	20.4
Race or ethnicity of respondent		·	46.1			0.7	74.7
White non-Hispanic	1 44.1 1 30.2	5.0 3.5	46.1 45.3	2.1	47.1 48.0	8.5 8.5	75.3 71.6
·					210	<b>3</b>	- <del>-</del>
Current work status of head Working for someone else	51.2	5.4	58.6	2.3	58.0	9.9	87.4
Self-employed	J 51.6	8.1	45.3	3.6	45.3	8.8	80.9
Retired	18.7	2.4	18.0	*	25.8	4.6	44.8
Other not working	18.2	•	40.8	•	36.8	9.6	63.2
Housing status							
Owner	63.3	5.8	45.4	1.5	51.1	8.0	79.6
Renicr or other		2.7	46.9	2.6	40.3	9.4	65.2
Percentiles of net worth							
Less than 25	9.6	* -	48.9	2.4	41.4	9.6	66.7
25-49.9	47.3	2.5	55.0	2.2	55.5	9.4	81.4
50-74.9 75-89.9	55.6 49.5	3.4 8.0	47.0 36.2	1.2	57.3 39.5	7.0 8.1	79.3 70.5
90-100	54.4	18.6	27.9	3.2	27.9	7.4	70.8
		Median value	of holdings for	families holding o	lebt (thousands of	1998 dotlars)	
A D. Com (II)					1.6	2.1	23.4
All families	54.9	31.9	6.4	3.7	1.6	2.1	23.4
Income (1998 dollars) Less than 10,000	19.1	10.6	2.7	_	.6	2.1	2.2
10,000-24.999	29.7	19.1	3.8	¥ *	t.3	1.2	8.4
25,000-49,999	45.7	29.7	6,9	3,2	1.6	1.8	21.6
50,000=99,999	69.2	33.8	9.5	2.3	2.1	3.7	64.1
100,000 or more	105.2	42.5	9.1	5.3	2.7	7.4	114.8
Age of head (years)		_		_			
Less than 35	65.9	26.6	7.5	1.5	1.4	1.6	16.1
35-44	64.8	33.8	5.9	2.1	2.0	2.1 3.2	40.0 42.4
45-54 55-64	53.1	31.9	7.6	6.4	2.1 1.4	3.2 4.2	22.4
65-74						4.∠	22,4
	39.3	35.1 35.4	5.3	3.6		7	74
75 or more	39.3 20.2 (9.3	35.1 35.4 8.5	5.3 5.2 3.6	3.0 4.0 *	.9 .4	2.1 4.2	7.4 2.0
	20.2	35.£	5.2	4.0	.9		
Ruce or ethnicity of respondent	20.2 (9.3	35.1 8.5	5.2 3.6	4.0 *	.9 .4		
	20.2	35.£	5.2	4.0	.9	4.2	2.0
Ruce or ethnicity of respondent White non-Hispanic	20.2 19.3 57.4 42.0	35.1 8.5 35.1	5.2 3.6 6.9 5.2	4.0 * 4.0 •	.9 .4 1.6 1.3	2.7 1.6	2.0 28.6 (1.2
Race or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else	20.2 19.3 57.4 42.0 59.5	35.1 8.5 35.1 26.6 30.8	5.2 3.6 6.9 5.2	4.0 4.0 •	.9 .4 1.6 1.3	2.7 1.6	2.0 28.6 11.2 30.8
Race or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else Self-employed	20.2 (9.3 57.4 42.0 59.5 65.9	35.4 8.5 35.1 26.6 30.8 44.6	5.2 3.6 6.9 5.2 7.3 6.4	4.0 4.0 • 2.6 7.4	.9 .4 1.6 1.3	4.2 2.7 1.6 2.1 5.3	2.0 28.6 (1.2 30.8 44.1
Ruce or edmicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else Self-employed Retired	20.2 19.3 57.4 42.0 59.5 65.9 24.4	35.4 8.5 35.1 26.6 30.8 44.6 35.1	5.2 3.6 6.9 5.2 7.3 6.4 4.3	4.0 4.0 • 2.6 7.4 *	1.6 1.3 1.7 2.7	2.7 1.6 2.1 5.3 3.2	2.0 28.6 11.2 30.8 44.1 6.4
Ruce or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work stutus of head Working for someone else Self-employed	20.2 (9.3 57.4 42.0 59.5 65.9	35.4 8.5 35.1 26.6 30.8 44.6	5.2 3.6 6.9 5.2 7.3 6.4	4.0 4.0 • 2.6 7.4	.9 .4 1.6 1.3	4.2 2.7 1.6 2.1 5.3	2.0 28.6 (1.2 30.8 44.1
Race or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone clse Self-employed Retired Other not working Housing status	20.2 19.3 57.4 42.0 59.5 65.9 24.4 47.8	35.4 8.5 35.1 26.6 30.8 44.6 35.1	5.2 3.6 6.9 5.2 7.3 6.4 4.3 5.2	4.0 4.0 • 2.6 7.4 *	1.6 1.3 1.7 2.7 .9	2.7 1.6 2.1 5.3 3.2 1.6	2.0 28.6 11.2 30.8 44.1 6.4 8.2
Ruce or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic  Current work status of head Working for someone else Self-employed Retired Other not working	20.2 19.3 57.4 42.0 59.5 65.9 24.4 47.8	35.4 8.5 35.1 26.6 30.8 44.6 35.1	5.2 3.6 6.9 5.2 7.3 6.4 4.3	4.0 4.0 • 2.6 7.4 *	1.6 1.3 1.7 2.7	2.7 1.6 2.1 5.3 3.2	2.0 28.6 11.2 30.8 44.1 6.4
Ruce or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else Self-employed Retired Other not working Housing status Owner Renter or other	20.2 19.3 57.4 42.0 59.5 65.9 24.4 47.8	35.4 8.5 35.4 26.6 30.8 44.6 35.1	5.2 3.6 6.9 5.2 7.3 6.4 4.3 5.2	4.0 4.0 • 2.6 7.4 •	1.6 1.3 1.7 2.7 .9 .9	4.2 2.7 1.6 2.1 5.3 3.2 1.6	2.0 28.6 11.2 30.8 44.1 6.4 8.2
Ruce or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else Self-employed Retired Other not working Housing status Owner	20.2 19.3 57.4 42.0 59.5 65.9 24.4 47.8	35.4 8.5 35.4 26.6 30.8 44.6 35.1	5.2 3.6 6.9 5.2 7.3 6.4 4.3 5.2	4.0 4.0 • 2.6 7.4 •	1.6 1.3 1.7 2.7 .9 .9	4.2 2.7 1.6 2.1 5.3 3.2 1.6	2.0 28.6 11.2 30.8 44.1 6.4 8.2 48.8 5.1
Ruce or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else Self-employed Retired Other not working Housing status Owner Renter or other Percentiles of net worth Less than 25	20.2 19.3 57.4 42.0 59.5 65.9 24.4 47.8 54.9	35.4 8.5 35.1 26.6 30.8 44.6 35.1	5.2 3.6 6.9 5.2 7.3 6.4 4.3 5.2 7.3 5.3	4.0 * 4.0  • 2.6 7.4  * • 5.1	1.6 1.3 1.7 2.7 .9 .9	2.7 1.6 2.1 5.3 3.2 1.6 3.2 1.6	2.0 28.6 11.2 30.8 44.1 6.4 8.2 48.8 5.1 6.6 22.5
Ruce or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else Self-employed Retired Other not working Housing status Owner Renter or other Percentiles of net worth Less than 25 25–49.9 50–74.9	20.2 19.3 57.4 42.0 59.5 65.9 24.4 47.8 54.9 	35.4 8.5 35.1 26.6 30.8 44.6 35.1 31.9 52.0	5.2 3.6 6.9 5.2 7.3 6.4 4.3 5.2 7.3 5.3	4.0 4.0 • 2.6 7.4 • • 5.1 t.5	1.6 1.3 1.7 2.7 .9 .9	4.2 2.7 1.6 2.1 5.3 3.2 1.6 3.2 1.6	2.0 28.6 11.2 30.8 44.1 6.4 8.2 48.8 5.1 6.6 22.5 39.1
Race or ethnicity of respondent White non-Hispanic Nonwhite or Hispanic Current work status of head Working for someone else Self-employed Retired Other not working Housing status Owner Renter or other Percentiles of net worth Less than 25	20.2 19.3 57.4 42.0 59.5 65.9 24.4 47.8 54.9 	35.4 8.5 35.1 26.6 30.8 44.6 35.1 31.9 52.0	5.2 3.6 6.9 5.2 7.3 6.4 4.3 5.2 7.3 5.3	4.0 * 4.0 • 2.6 7.4 * • 5.1 1.5	1.6 1.3 1.7 2.7 .9 .9	2.7 1.6 2.1 5.3 3.2 1.6 3.2 1.6	2.0 28.6 11.2 30.8 44.1 6.4 8.2 48.8 5.1 6.6 22.5

11.—Continued

B. 1998 Survey of Consumer Finances

Family characteristic	Home-secured	Other residential property	Installment loans	Other lines of credit	Credit card balances	Other	Any debt
-			Percenta	ge of families hol	ding debt		L
All families	43.1	5.1	43.7	2.3	44.1	8.8	74,1
Income (1998 dollars)							
Less than 10,000	8.3	*	25.7	*	20.6	3.6	41.7
10,000-24,999	21.3	1.8	34.4	1.2	37.9	7.0	63.7
25,000-49,999 50,000-99,999	43.7 71.0	4.1 7.7	50.0 55.0	2,9 3.3	49,9 56.7	7.7 12.2	79.6 89.4
100,000 or more	73.4	16.4	43.2	2.6	40.4	14.8	87.8
Age of head (years)							
ess than 35	33.2	2.0	60.0	2,4	50.7	9.6	81.2
35-44	58.7	6.7	53.3	3.6	51.3	11.4	87.6
15–54	58.8	6.7	51.2	3,6	52.5	11.1	87,0
55-64	49.4	7.8	37.9	1.6	45.7 29.2	8.3 4.1	76.4 51.4
55–74	26.0 11.5	5.1 1.8	20.2 4.2	*	11.2	2.0	24.6
Race or ethnicity of tespondent							
White non-Hispanic	46.7	5.4	44.3	2.4	44,4	8.8	74.9
Nonwhite or Hispanic	30.7	4.0	41.6	1.9	43,3	8.8	71.1
Current work status of head						10.0	0.0
Working for someone else	50.8	5.2	55.2	2.7	53.5	10.8	§6.8
Self-employed	63.1	10.7	46.3	3.7	47.5	10.7	84.6 39.9
Retired	18.6 26.8	3.1	15.8 39.0	*	20.9 39,0	3.3 7.5	65.7
Housing status							
Owner	65.1	6.2	44.3	1.8	46.2	9,3	79,4
Renter or other		2.9	42.6	3.4	40,0	7.8	63.5
Percentiles of net worth			47.1	2.0	20.2	0.2	62.5
Less than 25	11.3 47.2	* 3.2	47.1 50.0	2.8 2.5	39.5 54.8	9.3 9.2	65.5 81.5
50-7439	56.2	3.2 4.8	30.0 46.4	1.7	48.7	7.7	76.8
75-89.9	57.0	8.9	34.3	1.9	36.9	7.6	70.2
00–100	58.9	14.8	27.2	2.6	28.2	10.8	75.9
		Median valu	e of holdings for t	families holding d	ebt (thousands of	1998 dollars)	
All families	62.0	40.0	8.7	2.5	1.7	3.0	33.3
Income (1998 dollars)							
Less than 10,000	16.0	#	4.0	*	1.1	.6	4.1
10,000-24,999	.34.2	34.0	6.0	1.1	1.0	1.3	8.0
25,000-49,999	47.0	20.0	8.0	3.0	1.9	2.2	27.1
50,000-99,999	75:0	42.0	11.3	2.8	2.4	3.8	75.0
100.000 or more	123.8	60.0	15.4	5.0	3.2	10.0	135.4
Age of head (years) Luss भारता 35	71.0	55.0	9.1	1.0	1.5	1.7	19.2
25~44	70.0	40.0	7.7	1.4	2.0	3.0	55.7
45-54	68.8	40.0	10.0	3.0	1.8	5.0	48.4
55-64	49.4	41.0	8.3	4.9	2.0	5.0	34.6
65-74 75 or mole	29:0 21.2	56.0 29.8	6.5 8.9	₩ *-	1.1 .7	4.5 1.7	11.9 8.0
Raiv or vilvaicits of respondent							
White non-Hispanic	62.0	42.6	9.0	2.8	2.0	3.3	40.0
Nonwhite or Hispanic	62.0	30.0	7.2	0.7	1.1	1.7	15.3
Current work status of head Working for someone else	(£66)	37.0	8.8	2.8	2.0	3.0	35.5
Self-employed	74.0	54.0	11.0	3.8	2.0	6.5	67.9
Retired	37.0	34.0	5.8	#	1.0	1.9	10.2
Other not working	57.0	•	6.7		1.2	1.1	12.6
Houning status	<i>(</i> 2.0	42.4	0.5	2.2	2.24	4.0	60.9
Owiner	62.0	42.6 27.5	9.5 7.7	2.2 2.8	2.0 1.3	4.0 1.3	6.0
Percuntities of the worth							
Less than 25		*	8.0	1.0	1.6	1.5	8.4
25-49.9		29.0	7.8	3.0	1.7	2.0	28.4 46.2
50=74.9 75-89.9	59.0 72.0	22.0 54.0	8.9 10.1	3,0 1,3	1.8 1.5	5.0 6.0	46.2 67.4
75-89.9 90-100	190:0	72.0	14.7	10.0	2.0	20.0	98.0
	100.0	12-11	170.7	10.0			,

NOTE. See note to table 1.

. . Not applicable.

<sup>\*</sup> Ten or fewer observations.

Between 1995 and 1998, changes in the proportion of families in different demographic groups holding debt were mixed. Although the proportion declined in most groups, increases were appreciable for families with incomes of \$100,000 or more, for the 55-to-64 age group, and for families headed by the self-employed. The median amount of debt increased for most of the demographic groups, and many of the changes were large.

Mortgages and Other Home Equity Borrowing on the Primary Residence

Home-secured debt (first and second mortgages and home equity loans and lines of credit secured by the primary residence) declined slightly as a share of total family debt between 1995 and 1998 (table 10). Nonetheless, the proportion of families with such debt rose over the period, from 41.0 percent to 43.1 percent (table 11), a level substantially above the 40.0 percent registered in 1989.<sup>24</sup> The proportion of families holding such debt rose for most groups in the 1995–98 period. Increases were particularly notable for families headed by the self-employed and for families in the top quarter of the net worth distribution.

While home purchase continues to be the main purpose of home-secured debt, the use of such borrowing for other purposes has become increasingly important since the Tax Reform Act of 1986, which phased out the deductibility of interest payments on most debt other than that secured by the primary residence. Moreover, declining interest rates during most of 1998 strengthened families' incentives that year to refinance existing mortgages and, by refinancing for more than the existing balance, use the opportunity to obtain funds for other purposes.

For families with home-secured debt, the median amount of home-secured debt moved up 12.9 percent over the recent three-year period, while the median value of primary residences rose 5.4 percent for this group. Taken together with the fact that the share of families with home-secured debt rose by more than the share who were homeowners, this result suggests that many families may have been using such borrowing to extract equity from their homes. The median amount of home-secured debt rose for almost every group, with the increases especially marked among the top income and net worth groups. The proportion of families in the nonwhite or Hispanic group bor-

rowing against a primary residence remained 16 percentage points below that of other families; however, the median level of borrowing by the nonwhite or Hispanic group jumped to the level of the other families in 1998.

For home equity lines of credit, the amount included in home-secured debt is only the balance outstanding at the time of the interview. The use of home equity credit lines has expanded since 1995, when 5.1 percent of families had a line and 56.0 percent of those families were drawing funds on it; in 1998 the figures were 7.0 percent with lines and 63.7 percent drawing on them (not shown in table).

#### Borrowing on Other Residential Real Estate

Across income and net worth groups, borrowing for other residential real estate is most prevalent in all the surveys among families at the upper ends of the distributions. While the overall proportion of families having this type of debt rose slightly from 1995 to 1998, the shares of families in the top income and net worth groups having such debt fell distinctly. At the same time, for those having this type of debt, the median amount owed rose in almost every demographic group.

#### Installment Borrowing

Although the share of installment borrowing in total family debt rose 1.0 percentage point between 1995 and 1998, its prevalence dropped 2.2 percentage points, to 43.7 percent; the prevalence of such borrowing stood at 49.4 percent in 1989.<sup>25</sup> Over the recent three-year period, the prevalence declined for all income groups except the top and bottom and for all age groups except those between 55 and 74. At least some of the decline is attributable to the substitution of other types of borrowing and to the growth of vehicle leasing.

Over the same period, for those with installment loans the median amount owed on such loans climbed 36.0 percent, to \$8,700. The median rose for most demographic groups, with pronounced increases for families with incomes of \$100,000 or more, for families headed by those aged 75 or older and retirees, and for the wealthiest 10 percent of families.

<sup>24.</sup> In 1998, 65.1 percent of homeowners had some type of homesecured debt.

<sup>25.</sup> The term "installment borrowing" in this article describes consumer loans that typically have fixed payments and a fixed term. Examples are automobile loans, student loans, and loans for furniture, appliances, and other durable consumer goods.

## Borrowing on Other Lines of Credit

The use of personal lines of credit other than home equity lines rebounded slightly from 1995 to 1998. Still, only 2.3 percent of families used such debt in 1998, and usage was similarly thin across demographic groups. At the same time, among those borrowers the median amount borrowed declined 32.4 percent, with mixed changes across family groups.

# Credit Card Borrowing

The proportion of families that had an outstanding balance on any of their credit cards after paying their most recent bills dropped 3.2 percentage points from 1995 to 1998, to 44.1 percent.<sup>27</sup> The decline was shared by all of the demographic groups except for families headed by those aged 55 to 64, by the self-employed, and by those neither working nor retired and families in the highest net worth group.

Among families having balances outstanding on any of their credit cards, the median total balances owed by the family hardly changed over the period, standing at \$1,700 in 1998. Nonetheless, increases were much more common than declines across the demographic groups.

Bank-type cards are the most widely held and most widely accepted credit cards. In 1998, 67.6 percent of families had a bank-type card—up from 66.5 percent in 1995 (not shown in table). Of families with such cards, the share carrying a balance edged down a bit, from 56.0 percent in 1995 to 54.8 percent in 1998; this result suggests some increase in the relative importance of convenience use of bank-type cards over the period (that is, use in which the balance is paid in full each month).

Among families with bank-type cards, the median total credit limit on all their bank-type cards rose from \$8,700 in 1995 to \$10,000 in 1998. Among families with balances on their cards, the median limits were somewhat lower, at \$8,000 in 1995 and \$9,500 in 1998; the median fraction of the available credit limit used by this group was about 28 percent in 1998, up slightly from 24 percent in 1995. The survey asks for the interest rate paid on the card on which the family has the largest balance, or on the

26. In 1998, another 0.9 percent of all families had such credit lines

newest card for families without balances. In both 1995 and 1998, the median interest rate reported was 15 percent; the result is nearly the same if attention is restricted only to families borrowing on their cards.

#### Other Debt

Other borrowing (loans on insurance policies, loans against pension accounts, borrowing on a margin account, and unclassified loans) was slightly more prevalent in 1998 than in 1995. Increases and decreases were scattered across the demographic groups. At the same time, for borrowers, the median amount of other debt owed rose from \$2,100 to \$3,000. On a percentage basis, most of the changes across the demographic groups were sizable. The increase in the amount of borrowing was driven by somewhat greater borrowing against pension accounts and cash value life insurance; while the share of families reporting balances outstanding on margin loans ticked up from 0.2 percent in 1995 to 0.8 percent in 1998, the median amount of such loans actually slipped a bit over the period.

#### Reasons for Borrowing

The SCF provides detailed information on the reasons that families borrow money (table 12).<sup>28</sup> One subtle problem with the use of these data is that, even though money is borrowed for a particular purpose, it may be used to offset some other use of funds. For example, a family may have sufficient assets to purchase a home without using a mortgage but may instead choose to finance the purchase to free existing funds for another purpose. Thus, trends in the data can be only suggestive of the underlying use of funds by families.

The survey shows that the proportion of total borrowing directly attributable to home purchase fell 2.3 percentage points between 1995 and 1998, although the 68.1 percent level seen in 1998 was still above that observed in 1989 or 1992. Almost offset-

available but had no outstanding balance at the time of the interview.

27. The debt could have been on bank-type cards (such as Visa, Mastercard, Discover, and Optima), store and gasoline company cards, so-called travel and entertainment cards (such as American Express and Diners Club), and other credit cards.

<sup>28.</sup> The survey does not collect exhaustive detail on the uses of borrowed funds. In the case of credit cards, it was deemed impractical to ask about the purposes of borrowing. For the analysis here, credit card debt is included in the category "goods and services." In the case of first mortgages taken out when a property was obtained, it was assumed that the funds were used for the purchase of the home. The surveys before 1995 did not collect information on the use of funds from refinancing a first mortgage; in the table, such borrowing is attributed to home purchase in all the years shown. The surveys before 1998 did not collect information on the uses of funds borrowed from pension accounts; the table reports borrowing from pension accounts as a separate category, unclassified as to purpose.

 Amount of debt of all families, distributed by purpose of debt, 1989, 1992, 1995, and 1998 surveys Percent

Purpose of debt	1989	1992	1995	1998
Home purchase	63.5	67.4	70.4	— 68.1
Home improvement	2.5	2.5	2.0	2.0
Other residential property	9.8	10.8	8.2	7.8
Investments, excluding real estate	3.8	1.8	1.0	3.3
Vehicles	10.4	7.0	7.5	7.5
Goods and services	5.9	5.6	5.7	6.0
Education	2.3	2.8	2.7	3.4
Unclassifiable loans against				
pension accounts	.2	. 1	.2	.4
Other	1.5	2.1	2.2	1.5
Total	100	100	100	100

NOTE. See note to table 1.

ting this decline was an increase in borrowing for investment purposes; in light of the rising stock market and strong business conditions, some of this borrowing may include borrowing to invest in equities or to start a new business. The shares of borrowing for education, borrowing for purchases of goods and services, and borrowing from pension accounts all rose. Borrowing for other residential real estate and for miscellaneous purposes both declined.

First mortgages on primary residences may be used to purchase a home or to extract equity for other purposes. Borrowing for the initial home purchase accounts for the great majority of debt owed on first mortgages. However, in 1998 approximately 41 percent of all families with first mortgages had refinanced their home at some time, and 26.1 percent of

 Amount of debt of all families, distributed by type of lending institution, 1989, 1992, 1995, and 1998 surveys

Percent

Type of institution	1989	1992	1995	1998
Commercial bank Savings and loan or savings bank. Credit union Finance or loan company Brokerage Mortgage or real estate lender Individual lender Other nonfinancial Government Credit card and store card Pension account Other Total		33.3 16.8 4.0 3.2 3.1 27.1 4.3 1.6 2.0 3.3 1.1 1.1	35.1 10.8 4.5 3.2 1.9 32.7 5.0 .8 1.3 3.9 .2 .7	32.6 9.6 4.2 4.2 3.7 35.9 3.4 1.3 .6 3.8 .4 .3

NOIL. See note to table 1.

them had extracted some of their home equity (not shown in table). Among families that removed some equity when they refinanced, the major uses reported for the funds were home improvements or repairs (43.1 percent), payment of bills or bill consolidation (20.8 percent), investments (7.8 percent), education (6.4 percent), and vehicle purchases (4.5 percent).

# Choice of Lenders

Reflecting ongoing changes in markets for financial services, the mix of institutions that families used for borrowing shifted markedly (table 13). Continuing a secular decline, the share of family borrowing attrib-

14. Ratio of debt payments to family income, share of debtors with ratio above 40 percent, and share of debtors with any payment sixty days or more past due, by selected family characteristics, 1989, 1992, 1995, and 1998 surveys

Percent

Family		Aggr	egate		Median			
characteristic	1989	1992	1995	1998	1989	1992	1995	1998
All families	12.7	14.1	13.6	14.5	15.9	16.1	16.1	17.6
Income (1998 dollars)								
Less than 10.000	16.2	16.8	19,5	19.4	23.0	19.5	15.4	20.3
10,000-24,999	12.5	14.8	16.1	16.2	16.4	15.3	17.7	17.8
25,000-49,999	16.0	16.5	16.2	17.4	16.1	16,3	16.6	18.1
50,000-99.999	16.5	15.3	16.0	17.4	16.2	17.0	16.9	(8.3
100,000 or more	8.0	10.7	8.7	10.0	11.8	13.7	11.1	13.1
Age of head (years)								
Less than 35	18.0	16.5	17.1	16.6	17.3	16.6	16.9	17.4
35-44	16.7	17.8	16.6	17.0	17.9	19.0	18.1	19.4
45-54	12.2	14.6	14.6	16.3	16.2	16.1	16.6	17.8
55-64	9.0	11.4	11.5	12.9	12.6	14.5	14.0	16.7
55-74	5.5	7.8	6.9	8.5	11.1	10.6	12.2	13.9
75 and more	2.1	3.4	2.9	3.9	9.8	5.0	3.4	8.9
Percentiles of net worth								
Less than 25	11.5	10.9	12.5	14.0	11.2	10.6	12.1	14.5
25-49.9	16.0	17.1	17.9	19.0	16.9	19.0	18.6	19.0
50-74.9	17.8	17.8	17.3	17.7	18.5	18.3	18.3	19.7
75–89.9	14.6	14.3	13.5	14.4	15.2	16.0	15.3	17.5
90-100	7.3	10.5	9.1	10.3	12.2	14.0	13.3	14.5
70-100	1	10.5	7, 1	10	14.4	14.0	1.7.3	14

utable to savings and loan institutions and savings banks moved down 1.2 percentage points from 1995 to 1998. After rising in earlier surveys, the share of lending attributable to commercial banks also declined, by 2.5 percentage points over the period. The share of families' debts held by mortgage and real estate lenders rose 3.2 percentage points, the share held by finance companies ticked up by 1 percentage point, and the share held by brokerages moved up 1.8 percentage points.<sup>29</sup> The shares of other nonfinancial lenders and of pension accounts also rose. At the same time, the importance of lending by credit unions, individuals, government, credit card lenders, and other lenders all declined.

#### Debt Burden

The rise in family indebtedness over the past decade has raised a concern that the debt might become excessively burdensome to families. The ability of families to service their loans is a function of two factors: the terms of the loan payments and the income and assets that families have available to meet those payments. In planning their borrowing, families make assumptions about their future ability to repay the loans. If events are sufficiently contrary to their assumptions, the resulting defaults might induce restraint in spending and a broader pattern of financial distress in the economy.

Interest rates on many types of loans fell somewhat toward the end of the 1995–98 period. Over the three-year period, family income rose broadly, the proportion of families with any type of debt fell slightly, but the median amount owed increased substantially.<sup>30</sup> The net effect of all these movements on the ability of families to service their loans is not immediately obvious.

The ratio of total family debt payments to total family income is a common measure of "debt burden." Most often, this ratio is computed from aggregate data as the ratio of the total debt payments of all families to the total income of all families. Estimates of this ratio constructed from the SCF data rose from 13.6 percent in 1995 to 14.5 percent in 1998 (table 14). This figure surpasses the 14.1 percent level recorded in the 1992 SCF, the previous high point since 1989.

The SCF data can also be used to compute the ratio by demographic group. With the exception of families in the less-than-35 age group, the ratio of payments to income held steady or rose between 1995 and 1998 for every group in the table.<sup>31</sup> The relative size of the increase was particularly notable for families with incomes of \$100,000 or more and those in the 65-or-older age groups.

14.—Continued

Percent

Family	Ratio above 40 percent				Any payment sixty days or more past due				
characteristic -	1989	1992	1995	1998	1989	1992	1995	1998	
All families	10.1	10.9	10.5	12.7	7.3	6.0	7.1	8.1	
Income (1998 dollars)									
Less than 10.000	28.6	28.4	27.6	32.0	20.9	11.6	8.4	15.1	
10,000-24,999	15.0	15.5	17.3	19.9	12.2	9.3	11.3	12.3	
25,000-49,999	9.1	9.6	8.0	13.8	4.8	6.3	8.6	9.2	
50,000-99,999	4.9	4.4	4.2	5.7	4.5	2.2	2.7	4.5	
100.000 or more	1.8	2.2	1.7	2.1	1.2	.5	1.3	1.5	
Age of head (years)									
Less than 35	12.7	10.5	11.0	11.8	11.2	8.3	8.7	11.1	
35–44	7.8	11.6	9.2	11.6	6.4	6.8	7.7	8.4	
45-54	10.9	10.2	10.4	11.6	4.5	5.4	7.4	7.4	
55-64	8.6	14.3	14.5	13.9	7.4	4.7	3.2	7.5	
65-74	7.7	7.8	7.8	17.5	3.3	1.0	5.3	3.1	
75 and more	14.1	8.7	8.9	20.9	1.2	1.8	5.4	1.1	
Percentiles of net worth									
Less than 25	7.7	9.6	9.7	11.9	17.7	14.4	14.5	16.2	
25-49.9	11.9	11.9	11.1	14.8	7.6	5.5	8.2	9.8	
50-74.9	11.1	11.8	10.8	12.5	3.8	3.1	4.4	5.5	
75–89.9	10.1	10.1	8.7	11.5	2.2	2.3	2.4	1.0	
90-100	7.8	10.0	12.4	11.5	1.6	1.8	.7	2.4	
70-100	7.0	10.0	12.7	11.3	1.0	1.0		2.7	

NOTE. See note to table 1.

<sup>29.</sup> In this analysis, the mortgages reported to be held by finance companies are classified with mortgage and real estate lenders.

<sup>30.</sup> As noted above, the SCF measures before-tax cash family income for the calendar year preceding the survey.

<sup>31.</sup> If the calculation of the ratio is limited to families that actually had debt, the results show very similar patterns of change between 1995 and 1998.

While the aggregate ratios indicate the trends in debt burdens for families and groups overall, the SCF data also make it possible to look at the ratio of total loan payments to income for typical borrowers. Among families with debt, the median ratio of payments to income stood at 15.9 percent in 1989; in 1992 and 1995 it was only marginally higher, but in 1998 it jumped to 17.6 percent. The median ratio also rose for almost every demographic group. The most striking increases were among families with incomes of less than \$10,000 and those in the 75-or-older group.

Although both the aggregate and median measures of debt burden increased over the 1995-98 period, the levels of these ratios were still well below those often considered to be indicative of financial distress for individual borrowers. However, these measures may not fully reflect problems among families with high levels of debt. One indicator of the prevalence of financial distress is the proportion of families whose debt payments represent more than 40 percent of their income. The fraction of such families, which was 10.1 percent in 1989, rose appreciably between 1995 and 1998, from 10.5 percent to 12.7 percent. The measure rose for most demographic groups, with particularly large increases among families with incomes below \$50,000 and those in the 65-or-older age groups.

If a family has any sort of debt at the time of the survey, the SCF asks whether any payments have been late by sixty days or more at least once in the preceding year.<sup>32</sup> The data show that the fraction of families with debt who had been late rose from 7.1 percent in 1995 to 8.1 percent in 1998—a high since 1989. Over the three-year period, the proportion rose notably in the under-\$10,000 income group and the 55–64 age group and decreased in the oldest two age groups.

#### **SUMMARY**

Between 1995 and 1998, the mean and median net worth of U.S. families rose considerably. These measures of net worth rose for most of the demographic

groups considered in the article, but they declined for a few groups. Underlying the rise in net worth was wider ownership of many types of assets combined with higher valuations in key asset markets and a lesser rise in levels of indebtedness.

Ownership of primary residences and retirement accounts increased notably between 1995 and 1998. In addition, the proportion of families owning publicly traded stocks (either directly or through mutual funds, retirement accounts, or other managed assets) jumped more than 8 percentage points, with substantial gains across income and age groups. For some demographic groups, increased ownership of assets corresponded to declines in median holdings, most likely because the "new" holders of these assets had relatively small amounts.

The proportion of families with debt declined slightly over the period, but the median amount owed jumped more than 42 percent. The median amount of mortgage debt grew strongly, although the overall fraction of debt accounted for by mortgages declined. On net, the ratio of debts to assets for all families declined a bit. However, some indicators of debt burden, such as the median ratio of debt payments to income among debtors, showed substantial increases.

Increases in overall mean and median income were less dramatic than those for net worth, but for the first time since their low points observed in the 1992 SCF, the mean and median pushed above their 1989 levels. At least some part of the recent increases must be attributable to capital gains from the sale of assets. However, the 2.5 percentage point drop in the fraction of families with incomes below \$10,000 suggests that improved employment and earnings for some families were also key factors.

# APPENDIX: SURVEY PROCEDURES AND STATISTICAL MEASURES

The 1998 data used here represent the best estimates at the current advanced stage of data processing, but they may differ in some ways from the final version. Data from the 1998 SCF, suitably altered to protect the privacy of respondents, will be available in February 2000 at www.federalreserve.gov/pubs/oss/oss2/98/scf98home.html.

The data used in this article from the 1989, 1992, and 1995 SCFs are derived from the final versions of those surveys. Results reported in this article may differ in some details from results reported earlier either because of additional data processing, revisions to the survey weights, or adjustments for inflation. Further discussion of the methodology

<sup>32.</sup> The measure of late payments in the SCF differs conceptually from the aggregate delinquency rate in some important respects. Whereas the delinquency rate records late payments on each loan in a given period, the survey asks families whether they have been late or behind in any of their payments during the past year. Thus, for example, a family with three delinquent loans would be counted three times in the aggregate data but only once in the SCF.

underlying the SCF is available at the above web address.

Generally, the survey estimates correspond fairly well to external estimates. Comparisons of SCF estimates with aggregate data from the Federal Reserve flow of funds accounts suggest that when adjustments are made to achieve conceptual comparability, these aggregate estimates and the SCF estimates are usually very close.<sup>33</sup> In general, only medians from the SCF can be compared with those of other surveys because of the special design of the SCF sample.

# Definition of Family in the SCF

The definition of "family" used throughout this article differs from that typically used in other government studies. In the SCF, a household unit is divided into a "primary economic unit" (PEU)—the family—and everyone else in the household. The PEU is intended to be the economically dominant single individual or couple (whether married or living together as partners) and all other persons living in the household who are financially dependent on that person or those persons. In other government studies—for example, those of the Bureau of the Census—an individual is not considered a family. In this report, the head of the family is taken to be the central individual in a PEU without a core couple, the male in a mixed-sex core couple of the PEU, or the older person in a same-sex core couple. The term "head" used in this article is an artifact of the organization of the data and implies no judgment about the actual structure of families.

#### The Sampling Techniques

The survey is expected to provide a core set of data on family assets and liabilities. The major aspects of the sample design that address this requirement have been fixed since 1989. The SCF combines two techniques for random sampling.<sup>34</sup> First, a standard, multistage area-probability sample (a geographically based random sample) is selected to provide good coverage of characteristics, such as home ownership, that are broadly distributed in the population.

Second, a supplemental sample is selected to disproportionately include wealthy families, who hold a disproportionately large share of such thinly held assets as noncorporate businesses and tax-exempt bonds. This sample is drawn from a list of statistical records derived from tax data. These records are made available for this purpose under strict rules governing confidentiality, the rights of potential respondents to refuse participation in the survey, and the types of information that can be made available.

Of the 4,299 completed interviews in the 1995 survey, 2,780 families came from the area-probability sample, and 1,519 were from the list sample; the comparable figures for the 4,309 cases completed in 1998 are 2,813 families from the area-probability sample and 1,496 from the list sample.<sup>35</sup>

#### The Interviews

Since 1989, only minor changes to the SCF questionnaires have been made, and then only in response to financial innovations or to gather additional information on the structure of family finances. Thus, the information obtained by the survey is highly comparable over this period.

The generosity of families in giving their time for interviews has been crucial to the success of the SCF. In the 1998 SCF, the median interview required about 1½ hours. However, for some particularly complicated cases, the amount of time needed was substantially more than 2 hours. The role of interviewers in this effort is also critical: Without their dedication and perseverance, the survey would not have been possible.

Data for the 1995 and 1998 surveys were collected by the National Opinion Research Center at the University of Chicago (NORC) between the months of June and December in each of the two years. The great majority of interviews were obtained in-person, although interviewers were allowed to conduct telephone interviews if that was more convenient for the respondent. In both years, interviewers used a program running on laptop computers to administer the survey and collect the data.

The use of computer-assisted personal interviewing (CAPI) has the great advantage of enforcing systematic collection of data across all cases. In the implementation of CAPI for the SCF, the program was tailored to allow the collection of partial informa-

<sup>33.</sup> For the details of this comparison, see Rochelle L. Antoniewicz, A Comparison of the Household Sector from the Flow of Funds Accounts and the Survey of Consumer Finances, Finance and Economics Discussion Series 1996-26 (Board of Governors of the Federal Reserve System, June 1996).

<sup>34.</sup> For additional technical details, see Kennickell and Woodburn, "Consistent Weight Design."

<sup>35.</sup> The 1995 SCF represents 99.0 million families, and the 1998 SCF represents 102.6 million families.

tion in the form of ranges whenever a respondent either did not know or did not want to reveal an exact dollar figure.<sup>36</sup>

Response rates differ strongly in the two parts of the SCF sample. In both 1995 and 1998 about 70 percent of households selected into the area-probability sample actually completed interviews. The overall response rate in the list sample was about 35 percent; in the part of the list-sample likely containing the wealthiest families, the response rate was only about 10 percent. Analysis of the data confirms that the tendency to refuse participation is highly correlated with net worth.

# Sources of Error

Errors may be introduced into survey results at many stages. Sampling error, the variability expected to occur in estimates based on a sample instead of a census, is a particularly important source of error. Such error may be reduced either by increasing the size of a sample or, as is done in the SCF, by designing the sample to reduce important sources of variability. Sampling error can be estimated, and for this article we use replication methods to do so.

Replication methods draw samples from the set of actual respondents in a way that incorporates the important dimensions of the original sample design. In the SCF, weights were computed for all the cases in each of the selected replicates. For each statistic for which standard errors are reported in this article, the weighted statistic is estimated using the replicate samples, and a measure of the variability of these estimates is combined with a measure of the variability due to imputation (see below) to yield the standard error.<sup>37</sup>

In addition to errors of sampling, interviewers may introduce errors by failing to follow the survey protocol or misunderstanding a respondent's answers. SCF interviewers are given lengthy, project-specific training to minimize such problems. Respondents may introduce error by interpreting a question in a sense different from that intended by the survey. For the SCF, extensive pre-testing of questions and thorough review of the data tends to reduce this source of error.

Nonresponse—either complete nonresponse to the survey or nonresponse to selected items within a survey—may be another important source of error. As noted in more detail below, the SCF uses weighting to adjust for differential nonresponse to the survey. To deal with missing information on individual questions within the interview, the SCF uses statistical methods to impute missing data.<sup>38</sup>

## Weighting

To provide a measure of the frequency with which families similar to the sample families could be expected to be found in the population of all families, analysis weights are computed for each case to account for both the systematic properties of the design and for differential patterns of nonresponse. The SCF response rates are low by the standards of other major government surveys. However, unlike other surveys, which almost certainly also have differential nonresponse by wealthy households, the SCF has the means to adjust for such nonresponse. A major part of SCF research is devoted to the evaluation of nonresponse and adjustments for nonresponse in the analysis weights for the survey.<sup>39</sup>

Preparations for the description of the 1998 SCF data included a detailed analysis of the assets and liabilities of families classified by a large number of characteristics. At this stage, it became clear that the 1998 SCF estimates of home ownership rates for nonwhites and Hispanics were substantially understating the levels observed in other surveys, particularly the Current Population Survey (CPS). The CPS was already used in weighting adjustments to benchmark the overall home ownership rate in the SCF. An examination of data from the earlier SCFs indicated problems in other years as well, but the directions of the differences were not consistent.

Because of the importance of SCF data in assessing the financial behavior and well-being of non-whites and Hispanics, and because of the importance of home ownership as an indicator of key financial relationships, it was decided to add a new adjustment to the SCF weighting design to bring the survey's estimates of home ownership for nonwhites and His-

<sup>36.</sup> For a review of the SCF experience in the collection of range data, see Arthur B. Kennickell, "Using Range Techniques with CAPI in the 1995 Survey of Consumer Finances" (Board of Governors of the Federal Reserve System, January 1997). Available at www.federalreserve.gov/pubs/oss/oss2/method.html,

<sup>37.</sup> See Kennickell and Woodburn, "Consistent Weight Design."

<sup>38.</sup> For a description of the imputation procedures used in the SCF, see Arthur B. Kennickell, "Multiple Imputation in the Survey of Consumer Finances," in *Proceedings of the Section on Business and Economic Statistics* (1998 Annual Meetings of the American Statistical Association, Dallas, August), pp. 11–20.

<sup>39.</sup> For a description of the weighting methodology, see Kennickell and Woodburn, "Consistent Weight Design."

panics more in line with the CPS estimates.<sup>40</sup> Such adjusted weights were computed for the 1989, 1992, 1995, and 1998 surveys, and these weights were used in all calculations reported in this article. These weights are available in the public version of the SCF data sets as X42001.

For this article, the weights of a small number of cases have been further adjusted to diminish the possibility that the results reported could be unduly affected by influential observations. Such influential observations were detected using a graphical technique to inspect the weighted distribution of the underlying data. Most of the cases found were holders of an unusual asset or liability or members of demographic groups in which such holdings were rare. These weight adjustments are likely to make the key findings in the article more robust.

<sup>40.</sup> Details of the adjustments are given in Arthur B. Kennickell, "Revisions to the SCF Weighting Methodology: Accounting for Race/Ethnicity and Homeownership" (Board of Governors of the Federal Reserve System, December 1999). Available at www.federalreserve.gov/pubs/oss/oss2/method.html.

# 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 studies that are of general interest are published in the Staff Studies series and 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 members of their staffs.

Single copies of the full text of each study are available without charge. The titles available are shown under "Staff Studies" in the list of Federal Reserve Board publications at the back of each Bulletin.

STUDY SUMMARY

#### USING SUBORDINATED DEBT AS AN INSTRUMENT OF MARKET DISCIPLINE

Federal Reserve System Study Group on Subordinated Notes and Debentures

A growing number of observers have proposed using subordinated notes and debentures (SND) as a way of increasing market discipline on banks and banking organizations. Although policy proposals vary, all would mandate that banks subject to the policy must issue and maintain a minimum amount of SND. In recent years, the perceived need for more market discipline has derived primarily from the realization that the increasing size and complexity of the major banking organizations has made the supervisor's job of protecting bank safety and soundness ever more difficult. A second important motivation is the desire to find market-based ways of better insulating the banking system from systemic risk. In light of the ongoing interest in using SND as an instrument of market discipline, in mid-1998 staff of the Federal Reserve System undertook a study of the issues surrounding an SND policy.1

The study begins by carefully defining market discipline, discusses the motivation for and theory behind a subordinated debt policy, and presents an extensive summary of existing policy proposals. The study then reviews the economic literature on the

potential for SND to exert market discipline on banks and presents a wide range of new evidence acquired by the study group. This includes information gathered from extensive interviews with market participants, new econometric work, and the experience of bank supervisors. The third major section of the study analyzes many characteristics that an SND policy could have, in terms of both their contribution to market discipline and their operational feasibility. These potential characteristics include the types of institutions that should be subject to an SND policy; the amount that should be required; the maturity, optionality, interest rate cap, and other possible features of the debt instrument; the frequency of issuance; and the way a transition period might work. The study also includes appendixes that (1) provide a detailed summary of the study group's interviews with market participants, (2) examine the potential for banks to avoid SND discipline, (3) analyze the potential macroeconomic effects of an SND policy, and (4) review the Argentine experience with implementing a mandatory subordinated debt policy.

Because the overall purpose of the study is to conduct a broad review and evaluation of the issues, no policy conclusions are advanced. However, the overall tone of the study suggests that a properly designed SND policy is operationally feasible and would likely impose significant additional market discipline on the banking institutions to which it applied. In addition, the study makes clear that

<sup>1.</sup> This study was completed in May 1999, before enactment of the Gramm–Leach–Bliley Act in November 1999. That act requires that the Federal Reserve Board and the U.S. Department of the Treasury conduct a joint study of the feasibility and appropriateness of requiring large insured depository institutions and depository holding companies to hold a portion of their capital in subordinated debt. The joint study must be submitted to the Congress within eighteen months of the date of enactment.

assessment of a policy proposal would be helped greatly by additional research in several areas: for example, the marginal costs and benefits of required SND issuance relative to those of the existing subordinated debt market and the potential costs and benefits of using the existing SND market, along with existing markets for bank equity and other uninsured liabilities, to aid in bank supervisory surveillance activities.

# Industrial Production and Capacity Utilization for November 1999

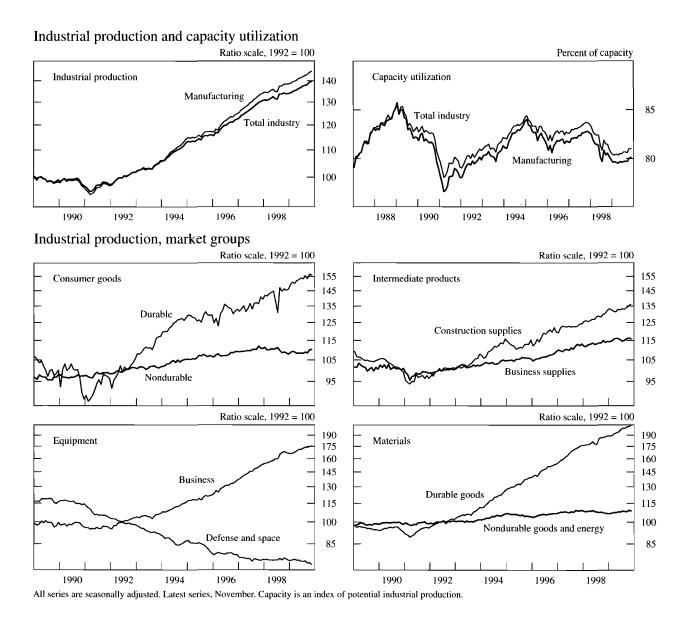
# Released for publication December 15

Industrial production advanced 0.3 percent in November after a 0.8 percent increase in October. At 139.5 percent of its 1992 average, industrial production in November was 4.3 percent higher than in November 1998. The rate of capacity utilization for

total industry was unchanged at 81.0 percent, a level 1 percentage point below its 1967–98 average.

### MARKET GROUPS

The output of consumer goods ticked up 0.1 percent in November after having risen 1.6 percent in Octo-



Industrial production and capacity utilization, November 1999

	Industrial production, index, 1992=100								
Category	1999				Percentage change				
					19991				Nov. 1998
	Aug. r	Sept.1	Oct. r	Nov. p	Aug. r	Sept.	Oct. r	Nov. p	to Nov. 1999
Total	137.7	138.0	139.1	139.5	.3	.2	.8	.3	4.3
Previous estimate	137.6	137.6	138.5		.2	.0	.6		
Major market groups Products, total <sup>2</sup> Consumer goods Business equipment Construction supplies Materials	127.6 117.6 173.9 132.9 154.6	127.5 116.9 173.8 134.0 155.6	128.8 118.8 174.9 135.0 156.3	129.0 118.9 175.4 136.0 157.3	.6 .7 .7 2 3	1 6 1 .8	1.1 1.6 .6 .8 .5	.1 .1 .3 .7 .6	3.1 2.8 5.0 4.4 6.3
Major industry groups         142.5           Manufacturing         142.5           Durable         174.4           Nondurable         111.5           Mining         98.5           Utilities         117.8	174.4 111.5 98.5	142.9 174.9 111.8 98.4 116.9	144.0 176.1 112.8 99.2 119.2	144.6 177.0 113.2 99.9 116.4	.4 .3 .4 .8 -1.7	.3 .3 .2 1 8	.8 .7 .9 .8 1.9	.5 .6 .3 .7 -2.3	4.6 7.0 1.4 -1.5 5.0
	Capacity utilization, percent								Мемо Сарасіту,
	Averege		High, 1988–89	1998	1999			per- centage change,	
	1967–98			Nov.	Aug.	Sept. <sup>r</sup>	Oct.	Nov. p	Nov. 1998 to Nov. 1999
Total	82.1	71.1	85.4	80.9	80.7	80.6	81.0	81.0	4.2
Previous estimate					80.6	80.4	80.7		
Manufacturing Advanced processing Primary processing Mining Utilities	81.1 80.5 82.4 87.5 87.4	69.0 70.4 66.2 80.3 75.9	85.7 84.2 88.9 88.0 92.6	80.2 79.4 82.6 84.2 87.6	79.7 78.8 82.8 81.9 92.2	79.7 78.7 82.8 81.9 91.4	80.0 79.1 83.0 82.6 93.0	80.1 79.1 83.3 83.2 90.8	4.7 5.6 2.4 2 1.4

Note. Data seasonally adjusted or calculated from seasonally adjusted monthly data.

1. Change from preceding month.

Contains components in addition to those shown.

p Preliminary.

ber. The production of durable consumer goods fell 0.3 percent, pulled down by a drop in home appliances and televisions. After having advanced nearly 1½ percent in October, the output of nondurable non-energy consumer goods rose 3/4 percent, led by increases in food, tobacco, and consumer chemical production. A 3.6 percent decline in the output of energy products reflected an unusually warm November as well as disruptions at a couple of petroleum refineries.

The production of business equipment increased for a second month; gains in information processing equipment and other equipment offset decreases in industrial and transit equipment. Within the information processing group, the output of computers increased 2.1 percent, a step down from the high rates of growth seen recently. Within the "other equipment" category, farm machinery posted a large increase after having fallen much more sharply during the past spring and summer. The output of transit equipment was once again constrained by a drop in the production of commercial aircraft and parts.

The production of construction supplies rose <sup>3</sup>/<sub>4</sub> percent for the third month in a row, to a level 4½ percent higher than in November 1998. The output of materials increased 0.6 percent, a rise similar to the gains posted in the previous two months. Sizable increases in the production of steel and semiconductors (the output of which has accelerated in the past two months) lifted the production of durable goods materials 1.2 percent in November. The output of nondurable goods materials, which had jumped nearly 1 percent in October, edged up 0.1 percent.

#### INDUSTRY GROUPS

Manufacturing output rose ½ percent in November after a 3/4 percent gain in October. The increase in the output of durables was led by gains at makers of primary metals (particularly iron and steel), motor

Revised.

vehicles and parts, computers, semiconductors, and communications equipment. While most other durable goods industries recorded increases, the output of commercial aircraft and construction machinery declined noticeably. The ongoing contraction in the production of commercial aircraft reduced the output of aerospace and miscellaneous transportation equipment in November to a level about 13 percent below that of November 1998.

Production in nondurable manufacturing increased for a fourth month after earlier weakness; the level of production for nondurable manufacturing is 1.4 percent higher than a year earlier. Among nondurables, food production increased nearly 1 percent for a second month, as did chemicals and products. Losses were posted by the petroleum products, textile, apparel, and printing and publishing industries.

The factory operating rate edged up 0.1 percentage point, to 80.1 percent, the highest level since November 1998. The utilization rate for durable manufacturing was a bit above its 1967–98 average, while the rate for nondurable manufacturing industries was well below its average.

The output at utilities fell 2½ percent in November; mine production, which was boosted by an increase in oil and gas well drilling, increased for the second straight month.

# REVISION OF INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

On November 30, 1999, the Federal Reserve Board published a revision to the index of industrial production (IP) and the related measures of capacity and capacity utilization for the period from January 1992 to October 1999. The updated measures reflect both the incorporation of newly available, more comprehensive source data typical of annual revisions and, for some series, the introduction of improved methods for compiling the series. The new source data are for recent years, primarily 1997 and 1998, and the modified methods affect data from 1992 onward. In addition, the supplementary series on the gross value of products leaving the industrial sector are

now expressed in 1996 dollars; these series begin in 1977.

The updated IP measures include some annual data from the Census Bureau's 1997 Census of Manufactures and from selected editions of its 1998 Current Industrial Reports. Annual data from the U.S. Geological Survey on metallic and nonmetallic minerals (except fuels) for 1997 and 1998 are also introduced. The updating includes revisions to the monthly indicator for each industry (either physical product data, production worker hours, or electric power usage) and revised seasonal factors.

The revision introduced improved measures of production for computers and office equipment (SIC 357) and motor vehicles (SIC 3711, 3). The new monthly measure for computers is derived from detailed information on the major products produced by the industry. For example, from 1994 to 1998, quarterly data on the physical quantity and average unit values of about 1,100 distinct models of personal computers, notebooks, servers, and workstations are used to construct the new IP index for computers; previously, monthly electric power use by the industry was used as the within-year indicator of production. The new measures of motor vehicle production incorporate price weights for the different models of light vehicles; previously, all autos and light trucks were weighted equally in compiling an aggregate figure. In addition, the monthly production indicators for bolts and fasteners (SIC 345) and for metalworking machinery (SIC 354) were changed from electric power use to production worker hours.

Capacity and capacity utilization rates have been revised to incorporate preliminary data from the Census Bureau's 1998 Survey of Plant Capacity, which covers manufacturing, along with other new data on capacity from the U.S. Geological Survey, the Department of Energy, and other organizations.

The revision is available on the Board's web site, at www.federalreserve.gov/releases/g17, and on diskettes from Publications Services (telephone 202-452-3245). The revised data are also available through the STAT-USA web site of the Department of Commerce (www.stat-usa.gov). Further information on these revisions is available from the Board's Industrial Output Section (telephone 202-452-3197).

# Statement to the Congress

Statement by Richard A. Small, Assistant Director, Division of Banking Supervision and Regulation, Board of Governors of the Federal Reserve System, before the Permanent Subcommittee on Investigations of the Committee on Governmental Affairs, U.S. Senate. November 10, 1999

I am pleased to appear before the Permanent Subcommittee on Investigations to discuss the Federal Reserve's role in the government's efforts to detect and deter money laundering and other financial crimes, particularly as these issues relate to the private banking operations of financial institutions.

You have asked the Federal Reserve to address several matters, including the Federal Reserve's review of private banking activities; the extent to which private banking is vulnerable to money laundering and what private banking activities raise concerns in this regard; the Federal Reserve's experience in obtaining information from U.S. banks that conduct private banking activities outside the United States; and any recommendations or comments the Federal Reserve may have with regard to the strengthening of anti-money-laundering controls for private banking or on pending legislation. You have also asked us to comment on the operations of a specific banking organization. I will address each of these matters; however, I am not at liberty to discuss the activities of any one organization because of the confidentiality of examination findings that must be maintained.

In order to better understand the money laundering issues related to private banking, it would be very useful to first provide you with some background information on what we consider to be private banking and the way in which private banks operate. But first, let me start by stating that, as a bank supervisor, of primary interest to the Federal Reserve is the need to ensure that banking organizations operate in a safe and sound manner and have proper internal control and audit infrastructures to support effective compliance with necessary laws and regulations. A key component of internal controls and procedures is effective anti-money-laundering procedures. Moreover, as part of our examination process, we review the anti-money-laundering policies and procedures

adopted by financial institutions to ensure their continued adequacy.

The Federal Reserve places a high priority on participating in the government's efforts designed to attack the laundering of proceeds of illegal activities through our nations's financial institutions. Over the past several years, the Federal Reserve has been actively engaged in these efforts by, among other things, redesigning the Bank Secrecy Act examination process, developing anti-money-laundering guidance, regularly examining the institutions we supervise for compliance with the Bank Secrecy Act and relevant regulations, conducting money laundering investigations, providing expertise to the U.S. law enforcement community for investigation and training initiatives, and providing training to various foreign central banks and government agencies.

## OVERVIEW OF PRIVATE BANKING

Private banking offers the personal and discrete delivery of a wide variety of financial services and products to the affluent market, primarily high net worth individuals and their corporate interests who generally, on average, have minimum investable assets of \$1 million. Customers most often seek out the services of a private bank for issues related to privacy, such as security concerns related to public prominence or family considerations or, in some instances, tax considerations. The private banking relationship is usually managed by a "relationship manager," who is responsible for providing a high degree of personalized service to the customer and for developing and maintaining a strong, long-term banking relationship with that customer.

Private banking accounts can typically be opened in the name of an individual, a commercial business, a law firm, an investment adviser, a trust, a personal investment company, or an offshore mutual fund. A private banking operation usually offers its customers an all-inclusive money management relationship that could include investment portfolio management, financial planning advice, custodial services, funds transfer, lending services, overdraft privileges, hold mail, letter-of-credit financing, and bill paying services. These services, some of which I will

describe in some further detail in my testimony, may be performed through a specific department of a commercial bank, an Edge corporation, a nonbank subsidiary, or a branch or agency of a foreign banking organization or in multiple areas of the institution, or such services may be the sole business of an institution.

Private banking services almost always involve a high level of confidentiality regarding customer account information. Consequently, it is not unusual for private bankers to assist their customers in achieving their financial planning, estate planning, and confidentiality goals through offshore vehicles such as personal investment corporations, trusts, or more exotic arrangements, such as mutual funds. Through a financial organization's global network of affiliated entities, private banks often form the offshore vehicles for their customers. These shell companies, which are incorporated in such offshore jurisdictions as the Bahamas, the British Virgin Islands, the Cayman Islands, the Netherlands Antilles, and countries in the South Pacific, such as the Cook Islands, Fiji, Nauru, and Vanuatu, are formed to hold the customer's assets, as well as offer confidentiality because the company, rather than the beneficial owner of the assets, becomes the account holder at the private bank.

A customer's private banking relationship frequently begins with a deposit account and then expands into other products. Many banks require private banking customers to establish a deposit account before opening or maintaining any other accounts. To distinguish private banking accounts from retail accounts, institutions usually require significantly higher minimum account balances and assess higher fees. The customer's transactions, such as wire transfers, check writing, and cash deposits and withdrawals, are conducted through these deposit accounts.

Investment management for private banking customers usually consists of either discretionary accounts in which portfolio managers make the investment decisions based on recommendations from the bank's investment research resources or nondiscretionary accounts in which customers make their own investment decisions. Private banking customers may request extensions of credit. Loans backed by cash collateral or managed assets held by the private banking function are quite common, especially in international private banking. Private banking customers may pledge a wide range of their assets, including cash, mortgages, marketable securities, land, or buildings, to secure their loans.

## THE PRIVATE BANKING INDUSTRY

As the affluent market grows, both in the United States and globally, competition to serve it has become more intense. Consequently, new entrants in the private banking marketplace include nonbank financial institutions, as well as banks, and the range of private banking products and services continues to grow. A 1997 study estimated the private banking industry at \$17 trillion globally and predicted that the private banking industry would grow at two to three times the pace of the overall consumer banking market for the foreseeable future.

Approximately 4,000 financial organizations are competing worldwide in the private banking market with no one organization currently managing more than 2.5 percent of the estimated available business. Private banking has a proven track record of being profitable for banking organizations.

Typically, private banking services are organized as a separate functional entity within the larger corporate structure of a banking organization. As the private banking industry has developed over the past several years, the expectations of the customers have evolved. Historically, clients sought discretion, confidentiality, and asset preservation. This emphasis has shifted as capital restraints have been dismantled, and in some countries, autocratic regimes have been replaced with free market economies.

Today, while confidentiality is still important, investment performance has taken precedence. Private banking customers' portfolios typically now include a greater proportion of equities and sophisticated investment products.

## REVIEW OF PRIVATE BANKING ACTIVITIES

The Federal Reserve has long recognized that private banking facilities, while providing necessary services for a specified group of customers, can, without careful scrutiny, be susceptible to money laundering. In our continuing efforts to provide relevant information and guidance in the area of effective anti-money-laundering policies and procedures for private banking, in 1997, the Federal Reserve published guidance on sound risk-management practices for private banking activities. Besides distributing the guidance to all banking organizations supervised by the Federal Reserve, the guidance was made publicly available through the Federal Reserve's web site. More recently, the Federal Reserve developed enhanced examination guidelines specifically designed to assist

examiners in understanding and reviewing private banking activities.

Since 1996, the Federal Reserve has undertaken two significant reviews of private banking. In the fall of 1996, the Federal Reserve Bank of New York began a yearlong cycle of on-site examinations of the risk-management practices of approximately forty banking organizations engaged in private banking activities. Last year, a Private Banking Coordinated Supervisory Exercise by several Reserve Banks and Board staff was undertaken to better understand and assess the current state of risk-management practices at private banks throughout the Federal Reserve System.

The examinations by the Federal Reserve Bank of New York focused principally on assessing each organization's ability to recognize and manage the potential risks, such as credit, market, legal, reputational, or operational, that may be associated with an inadequate knowledge and understanding of its customers' personal and business backgrounds, sources of wealth, and uses of private banking accounts.

These reviews were prompted by the Federal Reserve's desire to enhance its understanding of the risks associated with private banking. We recognized, for example, that some private banking operations may not have been conducting adequate due diligence with regard to their international customers. While all organizations had anti-money-laundering policies and procedures, the implementation and effectiveness of those policies and procedures ranged from exceptional to those that were clearly in need of improvement.

As a result of the examinations of the private banking activities of these organizations, which began in 1996, certain essential elements associated with sound private banking activities were identified. These elements include the need for the following:

- Senior management oversight of private banking activities and the creation of an appropriate corporate culture that embraces a sound risk-management and control environment to ensure that organization personnel apply consistent practices, communicate effectively, and assume responsibility and accountability for controls.
- Due diligence policies and procedures that require banking organizations to obtain identification and basic information from their customers, understand sources of funds and lines of business, and identify suspicious activity.
- Management information systems that provide timely information necessary to analyze and effec-

tively manage the private banking business and to monitor for and report suspicious activity.

• Adequate segregation of duties to deter and prevent insider misconduct and such things as unauthorized account activity and unapproved waivers of documentation requirements.

During the course of the examinations, a number of banking organizations were reluctant to release information on the beneficial ownership of personal investment corporations established in recognized secrecy jurisdictions that maintained accounts at the banks. The banks raised concerns regarding the prohibition on disclosure imposed by the laws of the countries in which the personal investment corporations were formed, as well as concerns that such disclosures would lead to customer backlash. However, as the result of continued persistence by Federal Reserve examiners, all banks provided the requested information. Very few customers closed their accounts even after being asked to waive any confidentiality protections that they may have had under foreign law so that the beneficial ownership information could be made available to examiners.

In last year's Coordinated Supervisory Exercise, a sample consisting of the private banking activities of seven banking organizations was reviewed by a Systemwide team of examiners during regularly scheduled safety and soundness examinations. As a result of the examinations, we concluded that the strongest risk-management practices existed at private banks with high-end domestic customers. We found that among private banks with primarily international customers, stronger risk-management practices were in place at those organizations that had a prior history of problems in this area but, as a result of regulatory pressure, had successfully corrected the problems. The weakest risk-management practices were identified at organizations whose private banking activities were only marginally profitable and who were attempting to build a customer base by targeting customers in Latin America and the Caribbean.

This exercise also identified emerging trends in the private banking industry, some of which were the following:

- Established private banking operations maintain strong risk-management controls and strong earnings, in contrast to relatively new entrants that have no specific criteria for seeking customers and tend to have inadequate customer screening procedures.
- New software and hardware products are being introduced into the marketplace that allow for banking organizations to direct products to their custom-

ers, with the byproduct that these systems will allow for more effective identification of potentially suspicious or criminal activity.

# VULNERABILITIES TO MONEY LAUNDERING

The Federal Reserve has addressed and continues to address perceived vulnerabilities to money laundering in private banking by issuing private banking sound practices guidance and developing targeted examination procedures for private banking, as well as our regular on-site examinations of private banking operations. There are some practices within private banking operations that we believe pose unique vulnerabilities to money laundering and, therefore, require a commitment by the banking organizations to increased awareness and due diligence.

Personal investment corporations that are incorporated primarily in offshore secrecy or tax haven jurisdictions and are easily formed and generally free of tax or government regulation are routinely used to maintain the confidentiality of the beneficial owner of accounts at private banks. Moreover, and of primary interest to the beneficial owners, are the apparent protections afforded the account holders by the secrecy laws of the incorporating jurisdictions. Private banking organizations have at times interpreted the secrecy laws of the foreign jurisdictions in which the personal investment corporations are located as a complete prohibition to disclosing beneficial ownership information. The Federal Reserve, however, has continually insisted that for those accounts that are maintained within the United States, banking organizations must be able to provide evidence that they have sufficient information regarding the beneficial owners of the accounts to appropriately apply sound risk-management and due diligence procedures.

A variant of personal investment corporation accounts that could increase the risk of the accounts being used for money laundering purposes are personal investment corporations that are owned through bearer shares. Bearer shares are negotiable instruments with no record of ownership so that title of the underlying entity is held essentially by anyone who possesses the bearer shares. Historically, bearer shares were used as a vehicle for estate planning in that at death the shares would be passed on to the deceased beneficiaries without the need for probate of the estate. However, in the context of potential illicit activity being conducted through an entity whose ownership is identified by bearer shares, it is virtually impossible for a banking organization to apply sound risk-management procedures, including

identifying the beneficial owner of the account, unless the banking organization physically holds the bearer shares in custody for the beneficial owner, which of course we encourage.

The use of omnibus or concentration accounts by private banking customers that seek confidentiality for their transactions poses an increased vulnerability to banking organizations that the transactions could be the movement of illicit proceeds. Omnibus or concentration accounts are a variation of suspense accounts and are legitimately used by banks, among other things, to hold funds temporarily until they can be credited to the proper account. However, such accounts can be used to purposefully break or confuse an audit trail by separating the source of the funds from the intended destination of the funds. This practice effectively prevents the association of the customer's name and account numbers with specific account activity and easily masks unusual transactions and flows that would otherwise be identified for further review.

Much has been said about the use of correspondent accounts in facilitating money laundering transactions. Admittedly, correspondent accounts may raise money laundering concerns because the interbank flow of funds may mask the illicit activities of customers of a bank that is using the correspondent services. However, it is our belief that correspondent banking relationships, if subject to appropriate controls, play an integral role in the financial market-place by allowing banks to hold deposits and perform banking services, such as check clearing, for other banks. This allows certain banks, especially smaller institutions, to gain access to financial markets on a more cost-effective basis than otherwise may be available.

## FOREIGN JURISDICTIONS

A primary obstacle to our supervision of offshore private banking activities by U.S. banking organizations, not only with regard to beneficial ownership information but also with regard to the safety and soundness of the operations, is our inability to conduct on-site examinations in many offshore jurisdictions. While it appears that nearly all institutions that we supervise have adequate anti-money-laundering policies and procedures, our examination process is most effective when we have the ability to review and test an organization's policies and procedures. Secrecy laws in some jurisdictions limit or restrict our ability to conduct these on-site reviews or to obtain pertinent information. In such instances,

practically our only alternative is to rely on a bank's internal auditors.

A number of offshore jurisdictions are currently preparing for on-site examinations by home country supervisors. This effort is being led in large part by members of the Basle Committee on Banking Supervision and the Offshore Group of Banking Supervisors. A report issued by these groups in 1996 stated,

While recognizing that there are legitimate reasons for protecting customer privacy . . . secrecy laws should not impede the ability of supervisors to ensure safety and soundness of the international banking system.

# LEGISLATIVE AND REGULATORY INITIATIVES

The Federal Reserve has continually supported efforts to better and more effectively attack money laundering activities because of our supervisory interests in establishing policies and procedures thwarting money laundering, as well as our interests in supporting and participating in law enforcement's efforts to detect and deter money laundering. The use of the banking system to launder the proceeds of criminal activity can certainly damage the reputation of the banks involved, as well as have a detrimental impact on the banking sector as a whole.

The proposed "Foreign Money Laundering Deterrence and Anticorruption Act" addresses a number of areas in which current requirements would be strengthened. We note that a number of the provisions of the proposed legislation address similar issues to those set forth in the recently released National Money Laundering Strategy. The Strategy requires a review of a number of critical areas in which the Federal Reserve will be an active participant, and we believe that the results of the reviews will provide information that should be useful to the legislative process.

The Federal Reserve has been contemplating, in cooperation with the banking industry, developing guidance to assist banking organizations in implementing money laundering risk assessments of their customer base. These risk assessments would be used to determine the appropriate due diligence required to identify and, when necessary, report suspicious activity. For example, because of the increased concern that private banking accounts could be used for money laundering, we would expect that guidance in this area would suggest that it may be necessary to engage in a more in-depth analysis of a customer's intended use of the account coupled with a heightened ongoing review of account activity to determine if, in fact, the customer has acted in accordance with the expectations developed at the inception of the relationship. We believe that such policies and procedures will be an effective tool against potential money laundering activity.

The banking system has a significant interest in protecting itself from being used by criminal elements. Individual banking organizations have committed substantial resources and achieved noticeable success in creating operational environments that are designed to protect their institutions from unknowingly doing business with unsavory customers and money launderers. Clearly, these efforts need to continue and the momentum needs to be maintained. I want to emphasize that the Federal Reserve actively supports these efforts. Consequently, we will continue our cooperative efforts with other bank supervisors and the law enforcement community to develop and implement effective anti-money-laundering programs addressing the ever-changing strategies of criminals who attempt to launder their illicit funds through private banking operations, as well as through other components of banking organizations here and abroad.

# **Announcements**

# ACTION BY THE FEDERAL OPEN MARKET COMMITTEE AND AN INCREASE IN THE DISCOUNT RATE

The Federal Open Market Committee on November 16, 1999, voted to raise its target for the federal funds rate by 25 basis points to 5½ percent. In a related action, the Board of Governors approved a 25 basis point increase in the discount rate to 5 percent.

Although cost pressures appear generally contained, risks to sustainable growth persist. Despite tentative evidence of a slowing in certain interest-sensitive sectors of the economy and of accelerating productivity, the expansion of activity continues in excess of the economy's growth potential. As a consequence, the pool of available workers willing to take jobs has been drawn down further in recent months, a trend that must eventually be contained if inflationary imbalances are to remain in check and economic expansion continue.

Today's increase in the federal funds rate, together with the policy actions in June and August and the firming of conditions more generally in U.S. financial markets over the course of the year, should markedly diminish the risk of inflation going forward. As a consequence, the directive the Federal Open Market Committee adopted is symmetrical with regard to the outlook for policy over the near term.

In taking the discount rate action, the Federal Reserve Board approved requests submitted by the Boards of Directors of the Federal Reserve Banks of Boston, Cleveland, Richmond, and Kansas City. Subsequently the Board approved similar requests by the board of directors of the Federal Reserve Bank of San Francisco, also effective on November 16; by the boards of directors of the Federal Reserve Banks of Atlanta and Dallas, effective November 17; and by the boards of directors of the Federal Reserve Banks of St. Louis, New York, Philadelphia, Chicago, and Minneapolis, effective November 18. The discount rate is the rate charged depository institutions when they borrow short-term adjustment credit from their District Federal Reserve Banks.

# MODIFICATIONS TO THE SETTLEMENT FINALITY FOR ACH CREDIT TRANSACTIONS PROCESSED BY FEDERAL RESERVE BANKS

The Federal Reserve Board on November 12, 1999, approved modifications to the settlement finality for automated clearinghouse (ACH) credit transactions processed by the Federal Reserve Banks so that settlement becomes final when posted to depository institutions' accounts. The Board will require prefunding for any ACH credit transactions that settle through a Federal Reserve account that is being monitored in real time to help manage settlement risk.

The Reserve Banks will be modifying their software and their ACH operating circular to implement settlement-day finality. To permit time for these changes, settlement-day finality and prefunding will be implemented in early 2001. A specific implementation date will be announced three months in advance of the effective date.

ADJUSTMENT OF THE DOLLAR AMOUNT THAT TRIGGERS CERTAIN DISCLOSURE REQUIREMENTS UNDER THE TRUTH IN LENDING ACT

The Federal Reserve Board on November 3, 1999, published its annual adjustment of the dollar amount that triggers additional disclosure requirements under the Truth in Lending Act for mortgage loans that bear fees above a certain amount.

The Board has adjusted the dollar amount from \$441 for 1999 to \$451 for 2000 based on the annual percent change reflected in the consumer price index that was in effect on June 1, 1999. The adjustment is effective January 1, 2000.

The Home Ownership and Equity Protection Act of 1994 bars credit terms such as balloon payments and requires additional disclosures when total points and fees payable by the consumer exceed \$400 (to be adjusted annually) or 8 percent of the total loan amount, whichever is larger.

## PROPOSED ACTION

The Federal Reserve Board on November 3, 1999, published proposed revisions to the official staff commentary that applies and interprets the requirements of Regulation Z (Truth in Lending). Comments are requested by January 10, 2000.

# REVIEW OF PUBLICATIONS ACTIVITIES OF THE FEDERAL RESERVE BOARD

The Federal Reserve Board on November 3, 1999, announced a review of its publications activities. As part of this effort, the Board is seeking public comment on how the Board's publications are individually and collectively meeting information needs and to offer suggestions for improving or possibly eliminating some publications or adding new ones. Comments are requested by December 17, 1999.

# SURVEY RESULTS ON CONSUMER CONFIDENCE IN BANKS' Y2K PREPARATIONS

The Federal Reserve Board and the Federal Deposit Insurance Corporation (FDIC) announced on November 18, 1999, the results of a survey by the Gallup Organization. According to the survey, current figures indicate that nine out of ten U.S. bank customers believe that their banks are ready for the Year 2000—or Y2K. By comparison, a March survey found that an estimated 76 percent of bank customers were confident that their banks would solve the Y2K problem.

Both surveys were sponsored by federal financial institution regulatory agencies. The Federal Reserve Board and the FDIC sponsored the current survey, which was delivered to the agencies on November 15, 1999. The results, which are based on about 1,400 completed interviews, are from an ongoing survey of adult Americans who have bank accounts.

"The survey underscores growing consumer confidence that banks are prepared for Y2K and that it will be business as usual for bank customers on January 1, 2000 and thereafter," said FDIC Chairman Donna Tanoue.

The most recent Gallup report indicates that financial institutions have been informing their customers

about their Year 2000 readiness. The percentage of American adult depositors who have received information about Y2K readiness from their financial institutions has significantly increased over the past seven months: An estimated 70 percent now report receiving information from their financial institution, compared with 23 percent in March. Additionally, in March, 52 percent of respondents reported having seen or heard a great deal about the Y2K issue, but that percentage is now up to 68 percent.

Only about 5 percent of bank customers currently indicate that they are very concerned about the Y2K issue, down from 11 percent in the March report. The November findings support the notion that a decreased level of concern about the likely effect of the century date change on computers is related to increased information about the Y2K issue. Consumer confidence in their own financial institutions has also increased. More than 90 percent of those surveyed expressed confidence in their own banks, with the proportion of those saying they would definitely or probably take extra cash declining from 62 percent to 39 percent in the period between the March and October surveys. A majority of those who plan to withdraw extra cash say that they will take less than \$500.

The survey results also indicate that the public is increasingly confident that basic payment systems will work properly during the century date change. Most American adult depositors believe that they will have access to their money; that checks will continue to be processed accurately; and that automatic teller machines, credit card systems, and electronic direct deposits will function normally.

Edward W. Kelley, Jr., a member of the Board of Governors of the Federal Reserve System stated,

From the beginning of our preparations for Y2K we said that there were two challenges facing us—the technical challenge and the challenge of public confidence. I believe we've met the technical challenge and these data indicate we've made good progress in ensuring Americans know we are ready for the century rollover.

Over the past three years, FDIC-insured financial institutions have been identifying and overhauling systems to make them Year 2000-ready. At the same time, the regulatory agencies have been closely monitoring their efforts. As of today, the regulators have assigned a "Satisfactory" rating, the highest possible rating, to 99.9 percent of FDIC-insured financial institutions.

# RELEASE OF A REPORT ON A SURVEY OF WEB SITE PRIVACY

The four federal banking agencies (the Federal Reserve Board, the Federal Deposit Insurance Corporation, the Comptroller of the Currency, and the Office of Thrift Supervision) on November 9, 1999, released a report on the results of a survey of Internet privacy policies of banking and thrift institutions.

The survey report, titled *Interagency Financial Institution Web Site Privacy Survey Report*, examined 314 World Wide Web sites selected randomly, plus those of the 50 largest banks and thrift institutions with web sites. Conducted during May and July by the federal agencies that supervise the institutions, the survey examined the collection of consumer information, interactive capabilities, and privacy disclosures at these sites. The purpose of the survey was to provide an indication of the state of the industry with respect to data collection and on-line privacy disclosures.

Overall, 48 percent of the 364 web sites surveyed posted a privacy disclosure—a privacy policy (a comprehensive statement regarding the collection and use of consumer information) or an information practice statement (a statement describing a particular information handling policy or practice, such as data security). Sixty-two percent of web sites that collected personal information provided a privacy disclosure. Sites that collected personal information were three times as likely to post a privacy policy as sites that did not collect personal information. The survey also found that 96 percent of the nation's fifty largest banks and thrifts that are on-line provided a privacy policy or information practice statement.

The agencies began work on the survey in February 1999. The agencies will monitor, as appropriate, the industry's progress in responding to consumer privacy issues and complying with the new legal mandates contained in the financial services reform legislation through regular supervisory activities.

This survey supplements previous web site surveys that did not focus on financial institutions, such as the Federal Trade Commission's "Privacy Online: A Report to Congress" (June 1998), and the Georgetown Internet Privacy Policy Survey "Privacy Online in 1999: A Report to the Federal Trade Commission" (June 1999). Because the sample population and content of the questionnaire used to conduct the interagency survey differ materially from those in the surveys cited, direct comparisons between the results of the various surveys should not be made.

Copies of the survey report are available on the agencies's web sites.

# INCREASE IN ADVERSELY CLASSIFIED SYNDICATED BANK LOANS

The Federal Reserve Board, the Federal Deposit Insurance Corporation, and the Office of the Comptroller of the Currency released data on November 10, 1999, on syndicated bank loans rated adversely by examiners. According to the data, syndicated bank loans rated adversely by examiners increased in 1999 from low levels. The agencies released aggregate data for the past six years and data by major industry sector for the past three years.

Under the Shared National Credit (SNC) Program, the agencies review large syndicated loans annually, usually in May and June. The program, established in 1977, is designed to provide an efficient and consistent review and classification of any loan or loan commitment shared by three or more institutions and totaling \$20 million or more.

In 1999, the SNC Program covered 8,974 credits to 5,587 borrowers totaling \$1.8 trillion in drawn and undrawn loan commitments. Of the total, \$37.4 billion, or 2 percent, was classified adversely because of default or other significant credit concerns. That was up from the lowest level this decade, 1.3 percent in 1998, but still significantly below the 4.1 percent level reached in 1994.

Borrowers have drawn down about a third of the \$1.8 trillion in loan commitments, or \$630 billion. Of this amount, \$33 billion, or 5.3 percent, was classified adversely, up from 3.2 percent in 1998 but down from 11 percent in 1994.

The percentage of adversely classified credits rose in 1999 for most major industry sectors compared with 1998. The rise was sharpest for service industries because of a large increase in problem loans in the health-care sector. Other industries recording an increase included oil and gas and wholesale and retail trade

Credits listed as "special mention" by examiners because of potential weakness—a less serious category than the three adverse classifications: substandard, doubtful, and loss—totaled \$31.4 billion in 1999, up from \$22.8 billion in 1998 but about the same as in 1994.

# **ENFORCEMENT ACTIONS**

The Federal Reserve Board on November 16, 1999, announced the issuance of a consent order against Robert and Adele Barber, both institution-affiliated parties of the First Western Bank, Cooper City, Florida, a state member bank.

The individuals, without admitting to any allegations, consented to the order to resolve allegations that they violated the Change in Bank Control Act in connection with their acquisition of beneficial ownership of the shares of the bank.

The Federal Reserve Board on November 16, 1999, announced the issuance of a consent order against Matthew J. Callahan, an institution-affiliated party of the First Western Bank, Cooper City, Florida, a state member bank.

The individual, without admitting to any allegations, consented to the order to resolve allegations that he violated the Change in Bank Control Act in connection with his acquisition of beneficial ownership of the shares of the bank.

The Federal Reserve Board on November 16, 1999, announced the issuance of a consent order against

Bertram Smith, an institution-affiliated party of the First Western Bank, Cooper City, Florida, a state member bank.

The individual, without admitting to any allegations, consented to the order to resolve allegations that he violated the Change in Bank Control Act in connection with his acquisition of beneficial ownership of the shares of the bank.

The Federal Reserve Board on November 16, 1999, announced the execution of a written agreement by and among Heritage Bancorp Company, Inc., Cleveland, Oklahoma; the First Bank of Cleveland, Cleveland, Oklahoma; the Federal Reserve Bank of Kansas City; and the Oklahoma State Banking Department.

# Minutes of the Meeting of the Federal Open Market Committee Held on October 5, 1999

A meeting of the Federal Open Market Committee was held in the offices of the Board of Governors of the Federal Reserve System in Washington, D.C., on Tuesday, October 5, 1999, at 9:00 a.m.

#### Present:

Mr. Greenspan, Chairman

Mr. McDonough, Vice Chairman

Mr. Boehne

Mr. Ferguson

Mr. Gramlich

Mr. Kelley

Mr. McTeer

Mr. Meyer

Mr. Moskow

Mr. Stern

Messrs. Broaddus, Guynn, Jordan, and Parry, Alternate Members of the Federal Open Market Committee

Mr. Hoenig, Ms. Minehan, and Mr. Poole, Presidents of the Federal Reserve Banks of Kansas City, Boston, and St. Louis respectively

Mr. Kohn, Secretary and Economist

Ms. Fox, Assistant Secretary

Mr. Gillum, Assistant Secretary

Mr. Mattingly, General Counsel

Mr. Prell, Economist

Ms. Johnson, Economist

Ms. Cumming, Messrs. Howard, Lang, Lindsey, Rolnick, Rosenblum, Slifman, and Stockton, Associate Economists

Mr. Fisher, Manager, System Open Market Account

Messrs. Ettin and Reinhart, Deputy Directors, Divisions of Research and Statistics and International Finance respectively, Board of Governors

Messrs. Madigan and Simpson, Associate Directors, Divisions of Monetary Affairs and Research and Statistics respectively, Board of Governors

Mr. Whitesell, Assistant Director, Division of Monetary Affairs, Board of Governors Mr. Kumasaka, Assistant Economist, Division of Monetary Affairs, Board of Governors

Ms. Low, Open Market Secretariat Assistant, Division of Monetary Affairs, Board of Governors

Ms. Browne, Messrs. Eisenbeis, Goodfriend, Kos, Rasche, and Sniderman, Senior Vice Presidents, Federal Reserve Banks of Boston, Atlanta, Richmond, New York, St. Louis, and Cleveland respectively

Messrs. Judd and Sullivan, Vice Presidents, Federal Reserve Banks of San Francisco and Chicago respectively

Mr. Filardo, Assistant Vice President, Federal Reserve Bank of Kansas City

By unanimous vote, the minutes of the meeting of the Federal Open Market Committee held on August 24, 1999, were approved.

The Manager of the System Open Market Account reported on recent developments in foreign exchange markets. There were no open market operations in foreign currencies for the System's account in the period since the previous meeting, and thus no vote was required of the Committee.

The Manager also reported on developments in domestic financial markets and on System open market transactions in government securities and federal agency obligations during the period August 24, 1999, through October 4, 1999. By unanimous vote, the Committee ratified these transactions.

The information reviewed at this meeting suggested that the expansion of economic activity was substantial in the quarter just ended. Consumer spending and business investment in durable equipment remained strong, and inventory investment picked up from the sluggish pace of the second quarter, while residential housing activity showed some signs of deceleration. To meet aggregate demand, industrial production increased further and employment gains continued to be relatively robust, keeping labor markets taut. Inflation was moderate,

but somewhat above that in 1998, owing to a sharp rebound in energy prices.

Although private nonfarm payroll employment expanded relatively slowly in August, the slowdown had followed a surge in July, and growth for the two months was very close to the brisk pace of the first half of the year. Job gains in the service-producing sector remained strong in the July-August period, while employment in the goods-producing sector continued to decline, though at a slightly slower rate than earlier in the year. The civilian unemployment rate dropped back to 4.2 percent in August, matching its low for the year.

Industrial production was up appreciably further on balance in July and August. Mining activity rose markedly, utility output increased moderately on balance, and manufacturing production recorded a further sizable advance over the two months. Within manufacturing, high-tech goods and motor vehicles were sources of particular strength, while the production of nondurable goods changed little. The rate of utilization of manufacturing capacity climbed over the two months but remained well below its long-term average.

Total retail sales posted strong gains over July and August. Increases in sales were spread across all major categories, with spending for nondurable goods and motor vehicles notably strong. Expenditures on services rose moderately in the two-month period. There were mixed signals with regard to the housing sector. Construction was at a high level, the inventory of unsold homes remained quite low, and starts of multifamily units rose over the July–August period. However, single-family housing starts edged lower on balance over July and August, and sales of existing homes weakened.

The available information suggested that business capital spending continued to climb rapidly. Shipments of nondefense capital goods posted further large gains in July and August, with outlays for high-tech machinery and transportation equipment particularly strong. In addition, new orders for durable equipment turned up sharply in the two months. Nonresidential construction activity changed little on balance in July as continued strength in the office and an increase in the lodging and miscellaneous categories offset reductions in the industrial and non-office commercial categories.

Manufacturing and trade inventories, outside of motor vehicles, picked up sharply in July after posting a small increase in the first half of the year, but inventories remained lean in relation to sales. In manufacturing, stocks rebounded from a substantial June decline; however, the aggregate stock—

shipments ratio remained at the bottom of its range for the past twelve months. Wholesalers also increased their inventories in July; while the inventory-shipments ratio for this sector rose, it was in the low end of its range for the past year. In the retail sector, inventories contracted somewhat in July, and the inventory-sales ratio for this sector also was near the bottom of its range over the past year.

The nominal deficit on U.S. trade in goods and services widened in July from its second-quarter average, with the value of imports rising more than the value of exports. The increase in imports was concentrated in aircraft, consumer goods, industrial supplies, and oil. The step-up in exports occurred primarily in industrial machinery and semiconductors. Among the major foreign industrial countries, the limited available information suggested that economic activity was strengthening in Europe and the United Kingdom in the third quarter while economic indicators for Japan were mixed after the strong advance in the first half of the year. Economic growth in Canada seemed to be continuing at a robust pace, and economic recovery in most of the Asian emerging-market economies was proceeding briskly.

Inflation remained relatively moderate, though somewhat above the pace of 1998 because of a sharp rebound in energy prices. Overall consumer prices increased in July and August at about the secondquarter rate. Abstracting from the sharp advances in energy prices and the mild increases in food prices, consumer inflation continued to be relatively subdued over the two months. In the past twelve months, the core CPI rose less than in the previous twelve-month period. At the producer level, prices of finished goods other than food and energy were essentially unchanged over the two months; moreover, the change in core producer prices in the past year was about the same as in the year-earlier period. At earlier stages of processing, however, producer prices of crude and intermediate materials excluding food and energy had firmed noticeably over recent months. Average hourly earnings continued to grow at a moderate pace over July and August, and the rise over the past year was considerably smaller than that for the year-earlier period.

At its meeting on August 24, 1999, the Committee adopted a directive that called for a slight tightening of conditions in reserve markets consistent with an increase of ½ percentage point in the federal funds rate to an average of around 5½ percent. The members noted that this move, together with the firming in June, should help to keep inflation subdued and to promote sustainable economic expansion. The Committee also agreed that the directive should be sym-

metric. A possible rise in inflation remained the main threat to sustained economic expansion, but it was not anticipated that further tightening would be needed in the near term and there would be time to gather substantially more information about the balance of risks relating to trends in aggregate demand and supply.

Open market operations after the meeting were directed toward implementing and maintaining the desired slight tightening of pressure on reserve positions, and the federal funds rate averaged very close to the Committee's 51/4 percent target. Most other short-term market interest rates posted small mixed changes on balance because the policy action was widely anticipated and the FOMC's policy announcement after the August 24 meeting referenced markedly diminished inflation risks. However, longer-term yields rose somewhat over the intermeeting period in response to the receipt of new information indicating both surprisingly strong spending at home and abroad and higher commodity prices. Most measures of share prices in equity markets registered sizable declines over the intermeeting period, apparently reflecting not only higher interest rates but also concerns that U.S. stocks might be overvalued and that foreign equities were becoming relatively more attractive as economic prospects brightened abroad.

In foreign exchange markets, the trade-weighted value of the dollar changed little over the period in relation to the currencies of a broad group of important U.S. trading partners. The dollar depreciated against the currencies of the major foreign industrial countries, especially the Japanese yen, in response to generally stronger-than-expected incoming data on spending and production in those countries. However, the dollar rose against the currencies of the other important trading partners in the broad group, reflecting sizable declines in the currencies of several countries in Latin America and Asia.

Despite a further rise in opportunity costs, M2 and M3 continued to grow at moderate rates in August and evidently in September as well. Expansion of these two monetary aggregates was supported by further rapid expansion in the demand for currency and stronger inflows to retail money market funds at a time of weakness in U.S. bond and equity markets. In addition, growth of M3 was sustained by large flows into institution-only money market funds as the yields on those funds caught up to earlier increases in short-term market rates. For the year through September, M2 was estimated to have increased at a rate somewhat above the Committee's annual range and M3 at a rate just above the upper end of its range. Total domestic nonfinancial debt continued

to expand at a pace somewhat above the middle of its range.

The staff forecast prepared for this meeting suggested that the expansion would gradually moderate to a rate around or perhaps a little below the growth of the economy's estimated potential. The growth of domestic final demand increasingly would be held back by the anticipated waning of positive wealth effects associated with earlier large gains in equity prices; the slower growth of spending on consumer durables, houses, and business equipment in the wake of the prolonged buildup in the stocks of these items; and the higher intermediate- and longer-term interest rates that had evolved as markets came to expect that a rise in short-term interest rates would be needed to achieve a better balance between aggregate demand and aggregate supply. The lagged effects of the earlier rise in the foreign exchange value of the dollar were expected to place continuing, but substantially diminishing, restraint on U.S. exports for some period ahead. Core price inflation was projected to rise somewhat over the forecast horizon, in part as a result of higher non-oil import prices and some firming of gains in nominal labor compensation in persistently tight labor markets that would not be fully offset by rising productivity growth.

In the Committee's discussion of current and prospective economic conditions, members commented that the incoming information suggested that the expansion had been considerably stronger in recent months than many had anticipated, while most measures of inflation had remained subdued. The economy's substantial momentum seemed likely to persist over the balance of the year, but the members continued to expect some slackening during the year ahead. This outlook was supported by the emergence of somewhat less accommodative conditions in financial markets, including the increases that had occurred in interest rates over the past several months and the steadying of stock market prices over the same period. On the other hand, foreign economies were strengthening more quickly than anticipated and rising exports were likely to offset part of the slowdown in domestic demand.

The implications of continued robust growth for the inflation outlook depended critically on judgments about the supply side of the economy. Productivity and economic potential seemed to have been growing at an increasingly rapid rate in recent years. That acceleration had itself tended to boost consumption and investment demand—in complex interactions of aggregate supply and demand—but it also had held down increases in unit costs and prices. A great deal of uncertainty surrounded the behavior of

productivity growth going forward, but some further pickup, and the associated ability of the economy to accommodate more rapid growth without added inflation, was a possibility that could not be overlooked. However, a further pickup in productivity growth was by no means assured, and a number of other favorable developments in supply and prices that had acted to restrain inflation in recent years had already begun to dissipate or reverse. These included the substantial upturn in energy prices, the ebbing of import price declines, and the pickup in health care costs; adverse trends in the latter two factors in particular were likely to be extended. In these circumstances, members generally saw some risk of rising inflation going forward, but they also recognized that similar forecasts in recent years had proved wrong and that considerable uncertainty surrounded expectations of somewhat higher core inflation.

In their review of developments across the nation, members reported continued high levels of activity in all regions and few indications of moderating growth, though agriculture remained relatively depressed in many areas. The anecdotal information from around the nation clearly supported the overall statistical evidence of persisting strength in key components of domestic demand. Consumer spending, notably for light motor vehicles, was continuing to rise at a brisk pace. Some of the strength in consumer durables was related to purchases associated with homebuilding, which, though likely to slacken a little owing to the rise in mortgage interest rates, seemed to be staying at a high level. While consumer spending probably would be sustained by further anticipated growth in employment and incomes, the pause in the stock market, should it persist, and the attendant effects on financial wealth were expected with some lag to damp further gains in consumer expenditures.

Business fixed investment appeared to have accelerated to a surprising extent in the third quarter from an already robust pace earlier in the year. Further noteworthy gains were recorded in business expenditures for computing and communications equipment, evidently reflecting ongoing efforts to take advantage of declining prices and improving technology. Some of the rise in such spending could represent accelerated purchases in advance of the century date change and might well tend to be offset in early 2000. Over time, however, ongoing efforts to enhance productivity for competitive reasons suggested further vigorous growth in spending for such equipment. Forecasts of other business investment expenditures were much less ebullient and on the whole pointed to little change. Building activity currently displayed substantial strength in some major cities, largely involving office and hotel structures, but nonresidential construction activity more generally was relatively sluggish. It seemed likely that commercial building activity would be damped later as new capacity was completed and financing became less attractive in response to the rise that had occurred in market interest rates.

The prospects for business inventories over coming months were difficult to evaluate, with the usual uncertainties accentuated by century date change effects. According to fragmentary information, inventory investment picked up during the summer months from a very low pace in the second quarter. To some extent, the recent strengthening may have reflected precautionary stockbuilding as insurance against potential supply disruptions relating to the century date change. Such stockbuilding might well intensify during the closing months of the year and be reversed early next year, with effects of uncertain magnitude on overall economic activity in that period. Looking beyond such a swing, business inventories, which currently appeared to be near desired levels in most industries, were projected to grow at a moderate pace broadly in line with the expansion in final sales.

The strengthening of many economies around the world was seen as a harbinger of increasing demand for U.S. exports, a view that was reinforced by growing anecdotal indications of improving foreign markets for a wide range of U.S. products. An aspect of that improvement was more attractive investment opportunities abroad and some associated weakening in the foreign exchange value of the dollar that implied upward pressure on the prices of imports and to an uncertain extent on those of competing domestically produced products. Moreover, some members saw the possibility of a steeper drop in the dollar under pressure from burgeoning foreign dollar portfolios as a consequence of very large U.S. current account deficits—as an added source of risk to the maintenance of sustainable growth and low inflation in the United States.

In the Committee's discussion of the outlook for inflation, a number of members emphasized that the behavior of prices had remained surprisingly benign for an extended period, confounding earlier forecasts of appreciable acceleration stemming from tight labor markets and rising labor costs. That experience argued forcefully in their view for the need to regard forecasts of increasing inflation with considerable caution. Most members nonetheless continued to view some increase in core price inflation as a definite possibility. This view reflected their expectations that the current expansion, even if it did moderate to a pace approximating the economy's trend potential

growth, would do so at a level of resource use that, based on the historical record, exceeded the economy's sustainable capacity—perhaps by even more than at present, given the evident strength of aggregate demand. Such an outcome seemed likely to generate further pressures on unit labor costs, which had tended in recent years to be contained by accelerating productivity. There was no evidence that the acceleration was coming to an end, but the members saw a clear risk that upward pressures on labor costs could at some point outpace gains in productivity. Members also mentioned that labor compensation would come under greater pressures as a result of rising healthcare benefit costs and possible increases in the minimum wage.

Other factors cited as pointing to a less benign inflation performance involved the waning or reversal of a number of temporary influences that had exerted a beneficial effect on prices in recent years. In particular, the decline of the dollar from its recent high in July, especially if it were to continue, would mean higher import prices and reduced price competition for a wide range of domestic goods. In this regard, several members observed that they were hearing noticeably fewer comments by business contacts about their inability to raise prices. Members also noted that, in the context of apparently strengthening economic activity worldwide, non-oil commodity prices seemed poised to turn upward, though they had risen only slightly thus far. While oil prices, which had increased sharply this year, had changed relatively little recently and could move down in the future, secondary effects of the earlier increase on costs and prices in other sectors of the economy seemed likely. Nonetheless, considerable uncertainty surrounded expectations of rising inflation. Labor cost increases had not turned up, and core inflation continued to edge lower. Further improvements in productivity growth could keep price pressures in check for some time.

In the Committee's discussion of policy for the intermeeting period ahead, all the members indicated that they favored or could accept an unchanged policy stance. Members commented that they saw little risk of a surge in inflation over coming months, though some pickup from the currently subdued level of core price inflation was a distinct possibility under prospective economic conditions. It was noted that expanding aggregate supply, boosted by accelerating productivity, had remained in reasonable balance with rapidly growing aggregate demand despite an already high level of economic activity; however, substantial uncertainty surrounded the outlook for aggregate supply and aggregate demand going forward, and it was

unclear how their interaction would affect the behavior of inflation. In light of the uncertainties surrounding these developments, the members agreed that it would be desirable to await more evidence on the performance of the economy, and in this regard considerable new information on the behavior of the economy and the outlook for inflation would become available during the intermeeting period. The risks of waiting seemed small at this juncture, in part because inflation and inflation expectations were not likely to worsen substantially in the near term, and the Committee had demonstrated its willingness to take needed anticipatory action to curb rising inflationary pressures that could threaten the overall performance of the economy. They also agreed that century date change concerns were not likely to be of a kind or magnitude that would preclude a policy tightening move at the November meeting, should such an action seem warranted at that time.

On the issue of the tilt in the Committee's directive, a majority of the members favored associating an unchanged policy stance with a directive that was biased toward restraint. These members did not anticipate that intermeeting developments would require policy to be tightened during the weeks immediately ahead, but they believed that the Committee probably would need to move to a less accommodative policy stance in the relatively near future, possibly at the November meeting. They also believed that, given the Committee's recently adopted practice of immediately announcing its decisions to change the symmetry of the directive, an asymmetrical directive would help convey the message that policy adjustments might not yet be completed for the balance of this year and that the Committee remained concerned about potential inflationary developments in coming months. Other members, while generally agreeing that the risks pointed on balance to some rise in inflation over time, nonetheless were quite uncertain about the timing of any additional firming in monetary policy and preferred to leave the Committee's possible future course of action more open. Even so, they could accept an asymmetric directive in light of the consensus that had emerged at this meeting in favor of an unchanged policy stance.

With regard to the Committee's announcement of its decision to adopt an asymmetric directive, members observed that the recent practice of making such announcements had led to some misinterpretations of the Committee's intentions and seemed to have added to volatility in financial markets. As a consequence, Committee members briefly considered alternative treatments of symmetry and disclosure for this meet-

ing. Because the Committee had begun a process for examining the wording of its directive and its announcement policy, most of the members concluded that the most satisfactory alternative for now, though it was not fully satisfactory, was to continue with the Committee's recent announcement practice. However, the working group chaired by Governor Ferguson was requested to expedite its report, if possible.

At the conclusion of this discussion, the Committee voted to authorize and direct the Federal Reserve Bank of New York, until it was instructed otherwise, to execute transactions in the System Account in accordance with the following domestic policy directive:

The information reviewed at this meeting suggests that the expansion of economic activity was substantial in the quarter just ended. Nonfarm payroll employment increased briskly through August, and the civilian unemployment rate dropped back to 4.2 percent, matching its low for the year. Industrial production was up appreciably further in July and August. Total retail sales posted sizable gains over the two months. Housing construction apparently has slowed somewhat but has remained at a high level. Available indicators suggest that the expansion in business capital spending has continued to be rapid. The nominal deficit on U.S. trade in goods and services widened in July from its average in the second quarter. Inflation has continued at a moderate pace, albeit somewhat above that in 1998 owing to a sharp rebound in energy prices.

Most short-term interest rates have posted small mixed changes since the meeting on August 24, 1999, while longer-term yields have risen somewhat. Most measures of share prices in equity markets have registered sizable declines over the intermeeting period. In foreign exchange markets, the trade-weighted value of the dollar has changed little over the period in relation to the currencies of a broad group of important U.S. trading partners.

M2 and M3 have continued to grow at a moderate pace. For the year through September, M2 is estimated to have

increased at a rate somewhat above the Committee's annual range and M3 at a rate just above the upper end of its range. Total domestic nonfinancial debt has continued to expand at a pace somewhat above the middle of its range.

The Federal Open Market Committee seeks monetary and financial conditions that will foster price stability and promote sustainable growth in output. In furtherance of these objectives, the Committee reaffirmed at its meeting in June the ranges it had established in February for growth of M2 and M3 of 1 to 5 percent and 2 to 6 percent respectively, measured from the fourth quarter of 1998 to the fourth quarter of 1999. The range for growth of total domestic nonfinancial debt was maintained at 3 to 7 percent for the year. For 2000, the Committee agreed on a tentative basis in June to retain the same ranges for growth of the monetary aggregates and debt, measured from the fourth quarter of 1999 to the fourth quarter of 2000. The behavior of the monetary aggregates will continue to be evaluated in the light of progress toward price level stability, movements in their velocities, and developments in the economy and financial markets.

To promote the Committee's long-run objectives of price stability and sustainable economic growth, the Committee in the immediate future seeks conditions in reserve markets consistent with maintaining the federal funds rate at an average of around 51/4 percent. In view of the evidence currently available, the Committee believes that prospective developments are more likely to warrant an increase than a decrease in the federal funds rate operating objective during the intermeeting period.

Votes for this action: Messrs. Greenspan, McDonough, Boehne, Ferguson, Gramlich, McTeer, Meyers, Moskow, Kelley, and Stern. Votes against this action: None.

It was agreed that the next meeting of the Committee would be held on Tuesday, November 16, 1999.

The meeting adjourned at 1:25 p.m.

Donald L. Kohn Secretary

# Legal Developments

JOINT FINAL RULE—AMENDMENTS TO SAFETY AND SOUNDNESS STANDARDS

The Office of the Comptroller of the Currency (OCC), the Board of Governors of the Federal Reserve System (Board), the Federal Deposit Insurance Corporation (FDIC), and the Office of Thrift Supervision (OTS) (collectively, the Agencies) are updating their procedural rules pertaining to safety and soundness standards issued under section 39 of the Federal Deposit Insurance Act (FDI Act). This joint final rule adopts, with only one technical change, the Agencies' interim rules.

Effective November 29, 1999, 12 C.F.R. Parts 30, 263, 364, and 570 are amended as follows:

# Part 30-Safety and Soundness Standards

Accordingly, the interim rule amending 12 C.F.R. Part 30, which was published at 63 *Federal Register* 55,486 on October 15, 1998, was superseded by an interim rule published at 64 *Federal Register* 52,638 on September 30, 1999.

# Part 263-Rules of Practice for Hearings

Accordingly, the interim rule amending 12 C.F.R. Part 263, which was published at 63 *Federal Register* 55,486 on October 15, 1998, is adopted as a final rule without change.

# Part 364-Standards for Safety and Soundness

Accordingly, the interim rule amending 12 C.F.R. Part 364, which was published at 63 *Federal Register* 55,486 on October 15, 1998, is adopted as a final rule without change.

Part 570–Submission and Review of Safety and Soundness

Compliance Plans and Issuance of Orders to Correct Safety and Soundness Deficiencies

1. The authority citation for Part 570 continues to read as follows:

Authority: 12 U.S.C. 1831p-1.

2. Section 570.1(c) is revised to read as follows:

Section 570.1–Authority, purpose, scope and preservation of existing authority.

(c) Scope. This part and the Interagency Guidelines Establishing Safety and Soundness Standards as set forth at Appendix A to this part and the Interagency Guidelines Establishing Year 2000 Standards for Safety and Soundness as set forth at Appendix B to this part implement the provisions of section 39 of the FDI Act as they apply to savings associations.

FINAL RULE—AMENDMENT TO REGULATION A

The Board of Governors has amended 12 C.F.R. Part 201, its Regulation A (Extensions of Credit by Federal Reserve Banks; Change in Discount Rate), to reflect its approval of an increase in the basic discount rate at each Federal Reserve Bank. The Board acted on requests submitted by the Boards of Directors of the twelve Federal Reserve Banks.

Effective November 16, 1999, 12 C.F.R. Part 201 is amended as follows. The rate changes for adjustment credit were effective on the dates specified in 12 C.F.R. 201.51.

Part 201–Extensions of Credit by Federal Reserve Banks (Regulation A)

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

Authority: 12 U.S.C. 343 et seq., 347a, 347b, 347c, 347d, 348 et seq., 357, 374, 374a, and 461.

2. Section 201.51 is revised to read as follows:

Section 201.51-Adjustment credit for depository institutions.

The rates for adjustment credit provided to depository institutions under section 201.3(a) are:

Federal Reserve Bank	Rate	Effective		
Boston	5.0	November 16, 1998		
New York	5.0	November 18, 1998		
Philadelphia	5.0	November 18, 1998		
Cleveland	5.0	November 16, 1998		
Richmond	5.0	November 16, 1998		
Atlanta	5.0	November 17, 1998		
Chicago	5.0	November 18, 1998		
St. Louis	5.0	November 18, 1998		
Minneapolis	5.0	November 18, 1998		
Kansas City	5.0	November 16, 1998		
Dallas	5.0	November 17, 1998		
San Francisco	5.0	November 16, 1998		

ORDERS ISSUED UNDER BANK HOLDING COMPANY ACT

Orders Issued Under Section 3 of the Bank Holding Company Act

Brookline Bancorp, MHC Brookline, Massachusetts

Brookline Bancorp, Inc. Brookline, Massachusetts

Order Approving Acquisition of Shares of a Bank Holding Company

Brookline Bancorp, MHC and its subsidiary, Brookline Bancorp, Inc., both of Brookline, Massachusetts (collectively "Brookline"), bank holding companies within the meaning of the Bank Holding Company Act ("BHC Act"), have requested the Board's approval under section 3 of the BHC Act (12 U.S.C. §1842) to acquire up to 9.9 percent of the voting shares of Medford Bancorp, Inc. ("Medford") and thereby acquire an interest in Medford's wholly owned subsidiary bank, Medford Savings Bank, both of Medford, Massachusetts.1

Notice of this proposal, affording interested persons an opportunity to submit comments, has been published (64 Federal Register 55,290 (1999)). The time for filing comments has expired, and the Board has considered this proposal and all comments received in light of the factors set forth in section 3 of the BHC Act. Brookline is the 33rd largest depository institution in Massachusetts, controlling total deposits of \$509.3 million, representing less than 1 percent of total deposits in depository institutions in the state.2 Medford is the 15th largest depository institution in Massachusetts, controlling \$902.6 million in deposits, representing less than 1 percent of total deposits in depository institutions in the state. Brookline has stated that it proposes to acquire the shares of Medford as a passive investment and that Brookline would not control Medford after this investment.

In connection with this proposal, the Board received comments from Medford objecting to the proposal on the grounds that the investment would have an adverse effect on the managerial resources and financial condition of Brookline and Medford, and would harm the communities that Medford serves. The Board has considered carefully Medford's comments in light of the factors that the Board must consider under section 3(c) of the BHC Act.3

The Board previously has stated that the acquisition of less than a controlling interest in a bank or bank holding company is not a normal acquisition for a bank holding company.4 However, the requirement in section 3(a)(3) of the BHC Act for Board approval before a bank holding company acquires more than 5 percent of the voting shares of a bank suggests that Congress contemplated the acquisition by bank holding companies of between 5 and 25 percent of the voting shares of banks.<sup>5</sup> On this basis, the Board previously has approved the acquisition by a bank holding company of less than a controlling interest in a bank or bank holding company where the proposal meets the factors set forth in the BHC Act.6

Medford contends that the proposed investment would constitute a controlling investment in Medford, and would enable Brookline to exercise a coercive influence on Medford's corporate affairs. Brookline has agreed to abide by certain commitments that the Board has relied on in other cases to determine that an investing bank holding company would not be able to exercise a controlling influence over another bank holding company or bank for purposes of the BHC Act. For example, Brookline has committed not to exercise or attempt to exercise a controlling influence over

<sup>1.</sup> The proposed acquisition would be made by Brookline Securities Corp., a wholly owned subsidiary of Brookline Bancorp, Inc.

<sup>2.</sup> Asset and deposit data are as of June 30, 1999. In this context, depository institutions include commercial banks, savings banks, and savings associations.

<sup>3.</sup> The Board may not approve an application that would violate state law. Whitney Nat'l Bank in Jefferson Parish v. Bank of New Orleans & Trust Co., 379 U.S. 411, 419 (1965). Medford contends that Massachusetts law requires Brookline to file an application with the Massachusetts Board of Bank Incorporation ("State Bank Board"). The Massachusetts Commissioner of Banks ("Commissioner") has been provided with notice of the application filed with Board, as required under section 3 of the BHC Act, 12 U.S.C. § 1842(b)(1), and is reviewing whether Brookline also is required to file an application with the State Bank Board. The Commissioner has not filed any comments with the Board about this proposal. In addition, Massachusetts law appears to require Brookline to file such an application only if Brookline owns or controls 25 percent or more of the voting stock of each of two or more banking institutions. Mass. Gen. Laws ch. 167A, § 2(2)(b). At this time, Brookline owns or controls 25 percent or more of the voting stock of only one banking institution. Accordingly, it does not appear at this time that the Board is precluded from approving this proposal. The Board's approval of the application is conditioned on Brookline obtaining any approval that is required by Massachusetts law.

<sup>4.</sup> See, e.g., First Mariner Bancorp, 84 Federal Reserve Bulletin 956, 957 (1998); Sun Banks, Inc., 71 Federal Reserve Bulletin 243 (1985) ("Sun Banks"); State Street Boston Corp., 67 Federal Reserve Bulletin 862, 863 (1981).

<sup>5.</sup> See 12 U.S.C. § 1842(a)(3).

<sup>6.</sup> See, e.g., GB Bancorporation, 83 Federal Reserve Bulletin 115 (1997) (acquisition of up to 24.9 percent of the voting shares of a bank); Mansura Bancshares, Inc., 79 Federal Reserve Bulletin 37 (1993) (acquisition of 9.7 percent of the voting shares of a bank holding company).

<sup>7.</sup> See, e.g., National Bancshares Corp. of Texas, 82 Federal Reserve Bulletin 565 (1996); First Southern Bancorp, Inc., 82 Federal

the management or policies of Medford or any of its subsidiaries; not to seek or accept representation on the board of directors of Medford or any of its subsidiaries; and not to have any director, officer, employee, or agent interlocks with Medford. Brookline also has committed not to attempt to influence the dividend policies, loan decisions, or operations of Medford or any of its subsidiaries. Moreover, Brookline, which proposes to acquire less than 10 percent of the voting shares of Medford, may not acquire any additional shares of Medford without prior Board approval under the BHC Act.

Medford contends that these commitments by Brookline are insufficient to prevent Brookline from exercising a controlling influence on Medford. The Board notes, however, that it has adequate supervisory authority to monitor Brookline's compliance with its commitments, and expressly retains authority to initiate a control proceeding against Brookline if facts presented later indicate that Brookline or any of its subsidiaries or affiliates, in fact, controls Medford for purposes of the BHC Act. Based on these commitments and all other facts of record, it is the Board's judgment that Brookline would not acquire control of Medford for purposes of the BHC Act through consummation of this proposal.

# Competitive Considerations

In considering an application under section 3 of the BHC Act, the Board is required to evaluate a number of factors, including the competitive effects of the proposal. The Board previously has noted that one company need not acquire control of another company in order to substantially lessen competition between them.<sup>8</sup> The Board has found that noncontrolling interests in directly competing depository institutions may raise serious questions under the BHC Act, and has concluded that the specific facts of each case will determine whether the minority investment in a company would be anticompetitive.<sup>9</sup>

Brookline and Medford compete directly in the Boston banking market. <sup>10</sup> If Brookline and Medford are considered as a combined organization, Brookline would be the 12th largest depository institution organization in the Boston banking market, controlling \$1.3 billion in deposits, representing less than 1 percent of total deposits in depository institutions in the market. <sup>11</sup> The Herfindahl–Hirschman Index ("HHI") for the Boston banking market would remain unchanged at 1899.12. <sup>12</sup> Accordingly, based

Reserve Bulletin 424 (1996). These commitments are set forth in the Appendix.

on all the facts of record, the Board concludes that consummation of this proposal would not have a significantly adverse effect on competition or on the concentration of resources in any relevant market in which Brookline and Medford compete.<sup>13</sup>

#### Other Factors

The Board also is required under section 3(c) of the BHC Act to consider the financial and managerial resources and future prospects of the companies and banks concerned. Medford contends that Brookline's investment could distract the attention of Medford's management from the operation of Medford, restrict Medford's ability to effect a merger, and adversely affect Medford's employees and its ability to retain customers. The Board believes that the commitments made by Brookline to maintain its investment as a passive investment and not to exercise a controlling influence over Medford reduce the potential adverse effects of the proposal. Moreover, the Board notes that Brookline currently is well capitalized and would remain well capitalized on consummation of the proposal. Based on all the facts of record, the Board has concluded that the financial and managerial resources and the future prospects of Brookline, Medford, and their subsidiaries are consistent with approval of this application, as are the other supervisory factors the Board must consider under section 3 of the BHC Act. In addition, considerations relating to the convenience and needs of the communities to be served, including the record of performance of the institutions involved under the Community Reinvestment Act (12 U.S.C. § 2901 et seq.), are consistent with approval of the application.

#### Conclusion

Based on the foregoing, and on all other facts of record, the Board has determined that this application should be, and hereby is, approved. The Board's approval is specifically conditioned on compliance by Brookline with all commitments made in connection with this application, including the commitments discussed in this order. The commitments and conditions relied on by the Board in reaching this decision are deemed to be conditions imposed in writing

become, significant competitors of commercial banks. See, e.g., Midwest Financial Group, 75 Federal Reserve Bulletin 386, 387 (1989); National City Corporation, 70 Federal Reserve Bulletin 743, 744 (1984). Thus, the Board regularly has included thrift deposits in the calculation of market share on a 50-percent weighted basis. See, e.g., First Hawaiian, Inc., 77 Federal Reserve Bulletin 52, 55 (1991).

13. Under the DOJ Guidelines, 49 Federal Register 26,823 (June 29, 1984), a market in which the post-merger HHI is above 1800 is considered to be highly concentrated. The 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 more than 200 points. The Department of Justice has stated that the higher than normal thresholds for an increase in the HHI when screening bank mergers and acquisitions for anticompetitive effects implicitly recognize the competitive effects of limited-purpose and other nondepository financial entities.

<sup>8.</sup> See, e.g. First State Corp., 76 Federal Reserve Bulletin 376, 379 (1990); Sun Banks at 243.

<sup>9.</sup> See, e.g. Sun Banks at 244.

<sup>10.</sup> The Boston banking market is defined as the Boston Ranally Metropolitan Area and the town of Lyndeboro in New Hampshire.

<sup>11.</sup> Market deposit data are as of June 30, 1998, and reflect acquisitions through October 15, 1999.

<sup>12.</sup> Market share data are based on calculations that include the deposits of thrift institutions at 50 percent. The Board previously has indicated that thrift institutions have become, or have the potential to

by the Board in connection with its findings and decision, and, as such, may be enforced in proceedings under applicable law.

The transaction shall not be consummated before the fifteenth 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 Boston, acting pursuant to delegated authority.

By order of the Board of Governors, effective November 29, 1999.

Voting for this action: Chairman Greenspan, Vice Chairman Ferguson, and Governors Kelley, Meyer, and Gramlich.

> ROBERT DEV. FRIERSON Associate Secretary of the Board

# Appendix

As part of this proposal, Brookline Bancorp, MHC ("MHC"), Brookline Bancorp, Inc. ("SHC"), and Brookline Securities Corp. ("Securities Corp"), each of Brookline, Massachusetts, commit that they will not, without the prior approval of the Federal Reserve Board, directly or indirectly:

- (1) Exercise or attempt to exercise a controlling influence over the management or policies of Medford Bancorp, Inc. ("Medford") or any of its subsidiaries:
- (2) Seek or accept representation on the board of directors of Medford or any of its subsidiaries;
- (3) Have or seek to have any employee or representative serve as an officer, agent, or employee of Medford or any of its subsidiaries;
- (4) Take any action that would cause Medford or any of its subsidiaries to become a subsidiary of MHC, SHC, Securities Corp, or any of their subsidiaries;
- (5) Acquire or retain shares that would cause the combined interests of MHC, SHC, Securities Corp, and any of their subsidiaries and their officers, directors, and affiliates to equal or exceed 25 percent of the outstanding voting shares of Medford or any of its subsidiaries;
- Propose a director or slate of directors in opposition to a nominee or slate of nominees proposed by the management or the board of directors of Medford or any of its subsidiaries;
- (7) Solicit or participate in soliciting proxies with respect to any matter presented to the shareholders of Medford or any of its subsidiaries;
- (8) Attempt to influence the dividend policies or practices; the investment loan, or credit decisions or policies; the pricing of services; personnel decisions; operations activities (including the location of any offices or branches or their hours of operation, etc.); or any similar activities or decisions of Medford or any of its subsidiaries;

- (9) Dispose or threaten to dispose of shares of Medford or any of its subsidiaries as a condition of specific action or nonaction by Medford or any of its subsidiaries; or
- (10) Enter into any other banking or nonbanking transactions with Medford or any of its subsidiaries, except that MHC or SHC may establish and maintain deposit accounts with Medford's subsidiary depository institution, provided that the aggregate balance of all such deposit accounts does not exceed \$500,000 and that the accounts are maintained on substantially the same terms as those prevailing for comparable accounts of persons unaffiliated with Medford or any of its subsidiaries.

The Sanwa Bank, Limited Osaka, Japan

Order Approving the Acquisition of a Bank Holding Company

The Sanwa Bank, Limited ("Sanwa"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), has requested the Board's approval under section 3 of the BHC Act (12 U.S.C. § 1842) to retain up to 32 percent of the voting shares of The Toyo Trust and Banking Company, Limited, Tokyo, Japan ("Toyo"), and thereby retain control of Toyo's wholly owned U.S. subsidiary bank, Toyo Trust Company of New York, New York, New York ("Toyo Bank").1

Notice of the proposal, affording interested persons an opportunity to submit comments, has been published (64 Federal Register 25,041 (1999)). The time for filing comments has expired, and the Board has considered the proposal and all comments received in light of the factors set forth in section 3 of the BHC Act.

Sanwa, with total consolidated assets of approximately \$418 billion, is the fourth largest banking organization in Japan.<sup>2</sup> In the United States, Sanwa owns Sanwa Bank California, San Francisco, California ("Sanwa Bank"), a state-chartered commercial bank. In addition, Sanwa operates branches in New York, New York, Chicago, Illinois, and San Francisco and Los Angeles, California; and representative offices in Houston, Texas, and New York, New York. Sanwa also engages in a broad range of permissible

<sup>1.</sup> On March 30, 1999, Sanwa acquired newly issued shares of Toyo that, when aggregated with the 4.9 percent of Toyo's voting shares previously held by Sanwa, represented approximately 32 percent of Toyo's voting shares. This investment was part of a plan to increase Toyo's capital, which was approved by the Japanese government. On consummation of the investment, Sanwa placed the newly acquired Toyo voting shares in a voting trust that does not permit Sanwa to vote such shares until U.S. regulators act on Sanwa's proposed acquisition of control of Toyo. Under the terms of the trust agreement, the voting trust terminates if the Board and the New York State Banking Department ("Department") approve Sanwa's retention of its ownership interest in Toyo. The Department approved Sanwa's application to acquire control of Toyo on April 8, 1999.

<sup>2.</sup> Asset data are as of March 31, 1999, and are based on exchange rates then applicable. Ranking data are as of December 31, 1998.

nonbanking activities in the United States through subsidiaries, including underwriting and dealing in debt and equity securities to a limited extent.

Toyo, with total consolidated assets of approximately \$66 billion, is the 19th largest banking organization in Japan. Toyo controls Toyo Bank and operates a branch in New York, New York.

## Interstate Analysis

Section 3(d) of the BHC Act allows the Board to approve an application by a bank holding company to acquire control of a bank located in a state other than the home state of the bank holding company if certain conditions are met. For purposes of the BHC Act, the home state of Sanwa is California,<sup>3</sup> and Toyo Bank is located in New York. All the conditions for an interstate acquisition enumerated in section 3(d) are met in this case.<sup>4</sup> In light of all the facts of record, the Board is permitted to approve the proposal under section 3(d) of the BHC Act.

## Competitive Considerations

Sanwa and Toyo compete directly in the New York/New Jersey Metropolitan banking market ("New York banking market").<sup>5</sup> Sanwa's New York branch controls deposits representing less than 1 percent of the deposits in the market. Toyo, through its New York branch and Toyo Bank, also controls deposits representing less than 1 percent of the deposits in the market.<sup>6</sup> On consummation of the proposal, numerous competitors would remain in the market, and the market would remain unconcentrated. Based on these and all other facts of record, the Board concludes that consummation of the proposal would not result in any significantly adverse effects on competition or on the concentration of banking resources in the New York banking market or any other relevant banking market.

# Certain Supervisory Considerations

Under section 3 of the BHC Act, the Board may not approve an application involving a foreign bank unless the bank is "subject to comprehensive supervision or regulation on a consolidated basis by the appropriate authorities in the bank's home country." The Board previously has determined, in applications under the International Banking Act (12 U.S.C. § 3101 et seq.) ("IBA") and the BHC Act, that certain Japanese commercial banks were subject to comprehensive consolidated supervision by their home country supervisor. In this case, the Board has determined that Sanwa is supervised on substantially the same terms and conditions as the other Japanese banks. Based on all the facts of record, the Board has concluded that Sanwa is subject to comprehensive supervision and regulation on a consolidated basis by its home country supervisor.

The BHC Act also requires the Board to determine that the foreign bank has provided adequate assurances that it will make available to the Board such information on its operations and activities and those of its affiliates that the Board deems appropriate to determine and enforce compliance with the BHC Act. The Board has reviewed the restrictions on disclosure in jurisdictions where Sanwa has material operations and has communicated with relevant government authorities concerning access to information. Sanwa has committed that, to the extent not prohibited by applicable law, it will make available to the Board such information on the operations of Sanwa and any of its affiliates that the Board deems necessary to determine and enforce compliance with the BHC Act, the IBA, and other applicable federal law. Sanwa also has committed to cooperate with the Board to obtain any waivers or exemptions that may be necessary in order to enable Sanwa to make any such information available to the Board. In light of these commitments and other facts of record, the Board has concluded that Sanwa has provided adequate assurances of access to any appropriate information the Board may request. For these reasons, and based on all the facts of record, the Board has concluded that the supervisory factors it is required to consider under section 3(c)(3) of the BHC Act are consistent with approval.

<sup>3.</sup> A bank holding company's home state is that state in which the total deposits of all banking subsidiaries of such company were the largest on July 1, 1966, or the date on which the company became a bank holding company, whichever is later. 12 U.S.C. § 1841(o) (4) (C).

<sup>4.</sup> Sanwa is adequately capitalized and adequately managed, as defined by applicable law. 12 U.S.C. § 1842(d)(1)(A). Toyo Bank has been in existence and operated continuously for at least the period of time required by New York state banking law. See 12 U.S.C. § 1842 (d) (1) (B); N.Y. Banking Law §142-a (1998). On consummation of the proposal, Sanwa and its affiliates would control less than 10 percent of the total amount of deposits of insured depository institutions in the United States. 12 U.S.C. § 1842(d)(2). All other requirements of section 3(d) of the BHC Act would be met on consummation of the proposal.

<sup>5.</sup> The New York banking 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, Warren, and a portion of Mercer Counties in New Jersey; Pike County in Pennsylvania; and portions of Fairfield and Litchfield Counties in Connecticut.

<sup>6.</sup> Deposit data are as of June 30, 1998.

<sup>7. 12</sup> U.S.C. § 1842(c)(3)(B). As provided in Regulation Y, the Board determines whether a foreign bank is subject to consolidated home country supervision under the standards set forth in Regulation K. 12 C.F.R. 225.13(a)(4). Regulation K provides that a foreign bank may be considered subject to consolidated supervision if the Board determines that the bank is supervised or regulated in such a manner that its home country supervisor receives sufficient information on the worldwide operations of the foreign bank, including the relationships of the bank to its affiliates, to assess the foreign bank's overall financial condition and compliance with law and regulation. 12 C.F.R. 211.24(c)(1)(ii).

<sup>8.</sup> See The Fuji Bank, Limited, 85 Federal Reserve Bulletin 338 (1999); and The Mitsubishi Bank, Limited, 82 Federal Reserve Bulletin 436 (1996).

Financial, Managerial, and Convenience and Needs **Considerations** 

The Board also has carefully considered the financial and managerial resources and future prospects of Sanwa, Toyo, and their respective subsidiaries, and the effect the proposal would have on such resources. The Board notes that the proposal is incidental to a corporate restructuring of Japanese banking organizations that is intended to enhance the overall financial strength and future prospects of both organizations. Sanwa's reported capital levels exceed the minimum levels that would be required under the Basle Capital Accord, and its capital levels are considered equivalent to the capital levels that would be required of a U.S. banking organization under similar circumstances. The Board notes, moreover, that the proposal does not involve any expansion of the banking or nonbanking activities of Toyo, and that Sanwa's investment in Toyo has strengthened Toyo's capital position and made additional financial resources available to Toyo Bank.

In addition, the Board has reviewed supervisory information from the home country authorities responsible for supervising Sanwa and Toyo concerning the proposal and the condition of the parties, confidential financial information from Sanwa and Toyo, and reports of examination from the appropriate federal and state supervisors of the affected organizations assessing the financial and managerial resources of the organizations. Based on all the facts of record, the Board has concluded that the financial and managerial resources and future prospects of the organizations involved in the proposal are consistent with approval.

Sanwa Bank received an "outstanding" performance rating at its most recent examination under the Community Reinvestment Act (12 U.S.C. § 2901 et seq.) ("CRA") by the Federal Deposit Insurance Corporation ("FDIC"), as of August 24, 1998. Toyo Bank also received an "outstanding" CRA performance rating from the FDIC at its most recent examination, as of June 8, 1998. In light of all the facts of record, the Board has concluded that considerations relating to the convenience and needs of the communities to be served, including the records of performance of the relevant depository institutions under the CRA, are consistent with approval.

#### Conclusion

Based on the foregoing and all the facts of record, the Board has determined that the application should be, and hereby is, approved. The Board's approval is specifically conditioned on compliance by Sanwa with all the commitments made in connection with the application and on the Board receiving access to information on the operations or activities of Sanwa and any of its affiliates that the Board determines to be appropriate to determine and enforce compliance by Sanwa and its affiliates with applicable federal statutes. The commitments and conditions relied on by the Board in reaching its decision are deemed to be conditions imposed in writing by the Board in connection with its findings and decision, and, as such, may be enforced in proceedings under applicable law.

By order of the Board of Governors, effective November 24, 1999.

Voting for this action: Chairman Greenspan, Vice Chairman Ferguson, and Governors Kelley, Meyer, and Gramlich.

> ROBERT DEV. FRIERSON Associate Secretary of the Board

Orders Issued Under Section 4 of the Bank Holding Company Act

Bayerische Hypo- und Vereinsbank AG Munich, Germany

Deutsche Bank AG Deutsche Bank AG Frankfurt, Germany

Stichting Prioriteit ABN AMRO Holding Stichting Administratiekantoor ABN AMRO Holding ABN AMRO Holding N.V. ABN AMRO Bank N.V. All of Amsterdam, The Netherlands

Order Approving Notices to Engage in Nonbanking Activities

Bayerische Hypo- und Vereinsbank AG ("BHV"), a foreign banking organization subject to the Bank Holding Company Act ("BHC Act"), and Deutsche Bank AG ("Deutsche Bank") and Stichting Prioriteit ABN AMRO Holding ("ABN AMRO"), Stichting Administratiekantoor ABN AMRO Holding, ABN AMRO Holding N.V., and ABN AMRO Bank N.V., bank holding companies within the meaning of the BHC Act, have requested the Board's approval under section 4(c)(8) of the BHC Act (12 U.S.C. §1843 (c) (8)), and section 225.24 of the Board's Regulation Y (12 C.F.R. 225.24) to retain up to 12.5 percent of the voting interests in Identrus, LLC, New York, New York ("Identrus"), and to engage through Identrus and other nonbank subsidiaries in acting as a certification authority ("CA") in the United States in connection with financial and nonfinancial transactions and other related activities.1

<sup>1.</sup> BHV, Deutsche Bank, and ABN AMRO and its subsidiaries listed above are hereafter collectively referred to as "Notificants". Foreign banks, such as Notificants, may engage in permissible banking activities in the United States directly through a U.S. branch or agency. A foreign bank must, however, receive the Board's prior approval under section 4(c)(8) to engage in the United States through a nonbank subsidiary in activities that are closely related to banking. In this case, Notificants have requested approval under section 4(c)(8) of the BHC Act to engage in the proposed activities in the United States through Identrus and other nonbank subsidiaries to provide themselves maximum flexibility in structuring their Identrus-related activities. For purposes of this order, references to activities conducted by Notificants are intended to refer to activities conducted through Identrus or other U.S. nonbanking companies.

Notice of the proposal, affording interested persons an opportunity to submit comments, has been published (64 Federal Register 22,866 (1999)). The time for filing comments has expired, and the Board has considered the proposal and all comments received in light of the factors set forth in section 4(c)(8) of the BHC Act. BHV, with total consolidated assets of \$575 billion,<sup>2</sup> is the second largest commercial banking organization in Germany, and operates branches in New York, New York, and Chicago, Illinois, and an agency in Los Angeles, California.

Deutsche Bank, with total consolidated assets of \$724 billion, is the largest commercial banking organization in Germany. Deutsche Bank controls three subsidiary banks in the United States, and operates a branch in New York, New York, and a representative office in San Francisco. California.

ABN AMRO, with total consolidated assets of \$544 billion, is the largest commercial banking organization in The Netherlands. ABN AMRO controls seven depository institutions in Illinois and one commercial bank in New York. ABN AMRO Bank N.V. also operates branches in Boston, Massachusetts; Chicago, Illinois; New York, New York; Pittsburgh, Pennsylvania; and Seattle, Washington; and agencies in Atlanta, Georgia; Miami, Florida; Houston, Texas; and Los Angeles and San Francisco, California.

Each Notificant also engages in a number of nonbanking activities in the United States.

## Proposed Activities

Identrus is a joint venture among Notificants and other commercial banks and foreign banking organizations.<sup>3</sup> Under the proposal, Identrus would act as the global rulemaking and coordinating body for a network of financial institutions that would act as CAs and thereby provide services designed to verify or authenticate the identity of customers conducting financial and nonfinancial transactions over the Internet and other "open" electronic networks. To provide these services, Identrus and its network of participating financial institutions (the "Identrus System") would utilize digital certificates and digital signatures created through the use of public key cryptography.

In a CA system using public key cryptography, a company generates (or is assigned) a public key/private key

pair and registers as the unique "owner" of the key pair with a CA.4 Private keys and public keys are a set of different but related mathematical functions that can be used to encrypt and decrypt electronic communications. A message encrypted by a particular private key can be decrypted only by its corresponding public key. Although a private key and its corresponding public key are related, a private key cannot feasibly be derived from its corresponding public key. Thus, while a private key must be kept confidential by the company that is the registered "owner" of the key pair, the company's public key can be made publicly available without jeopardizing the confidentiality of the company's private key. A company sending a business communication (e.g., a purchase order) over an open electronic network like the Internet to another entity uses its confidential private key to digitally sign the message being sent. A digital signature is a compressed and encrypted version of the message to which it is attached. The entity receiving the digitally signed message then uses the sender's public key to decrypt the digital signature.<sup>5</sup> If the receiver successfully decodes the signature with the sender's public key, the receiver can be assured that the message was created using the sender's private key.6 To be assured that the message was actually sent by the purported sender, however, the receiver must confirm that the private key/public key pair used to sign and decode the message is uniquely "owned" by the purported sender. A CA provides this assurance by issuing "digital certificates" certifying that the relevant private key/public key pair is uniquely associated with the message sender and verifying upon request the validity of such digital certificates. Notificants and other financial institutions participating in the Identrus System ("Participants") would create unique private key/ public key pairs for, and issue digital certificates on behalf of, eligible customers that contract with a Participant to receive Identrus identity authentication services.8 Each Par-

<sup>2.</sup> Asset data are as of June 30, 1999, and ranking data are as of December 31, 1998.

<sup>3.</sup> Bank of America NT & SA, Charlotte, North Carolina, and Citibank, N.A., New York, New York, have applications pending before the Office of the Comptroller of the Currency to invest indirectly in Identrus. The Chase Manhattan Bank, New York, New York, received the approval of the New York State Banking Department to invest indirectly in Identrus. See Letter from P. Vincent Conlon, Deputy Superintendent of Banks, New York State Banking Department, to Ronald C. Mayer, The Chase Manhattan Bank, dated April 9, 1999 ("Chase Letter"). Identrus expects other U.S. commercial banks and foreign banking organizations to seek approval from appropriate regulatory authorities to invest in Identrus and engage in related activities.

<sup>4.</sup> A number of nonbanking companies currently operate CA systems that rely on public key cryptography and provide identity authentication services to senders and receivers of electronic communications.

<sup>5.</sup> The sender's public key may be attached to the digitally signed communication, or the receiver of the message may obtain the sender's public key from a publicly available database.

<sup>6.</sup> The receiver also can confirm that the message was not altered after it was signed by comparing the message received to the decrypted version of the message text embedded in the digital signature.

<sup>7.</sup> Participation in the Identrus System is available only to organizations that are engaged primarily in the business of providing financial services, are subject to regulation and examination by a government authority in their home country, and that meet certain eligibility criteria, such as minimum capital requirements and debt rating criteria. A Participant also must agree to be bound by the Identrus operating rules and execute certain participation agreements. Financial institutions would not be required to purchase an ownership interest in Identrus to become a Participant.

<sup>8.</sup> Participants may provide Identrus-related services only to customers that have agreed to be bound by applicable provisions of the Identrus operating rules and have signed the appropriate customer agreements. The Identrus operating rules allow Participants to provide Identrus-related services only to business entities, such as corporations, and governmental organizations, and not to natural persons. The

ticipant would act as a repository for the digital certificates that it has issued, *i.e.*, it would maintain a database containing information on the status of the outstanding, expired, or revoked digital certificates that it has issued to customers. Participants also would verify for third parties the validity of digital certificates issued to their customers and, upon request of the third party, may provide an explicit warranty as to the validity of the customers' digital certificates. Participants also may process and transmit verification and warranty requests received from customers concerning digital certificates issued by other Participants in the Identrus System. In addition, Participants may provide customers with a limited range of software and hardware required for customers to utilize the Identrus System.

Identrus would provide the infrastructure framework within which Participants would act as CAs and provide related services. The primary function of Identrus would be to act as the "root certification authority" of the Identrus System, i.e., issuing digital certificates to Participants that establish the status of Participants as CAs in the Identrus System and authenticating for customers of, and Participants in, the Identrus System the identity of Participants.11 Identrus also would (i) establish and maintain the operating rules governing the Identrus System, including the minimum technical requirements for digital certificates and other components of the System; (ii) monitor compliance by Participants with the System's operating rules and technical standards; and (iii) monitor collateral requirements and aggregate warranty exposure for Participants in the Identrus System. 12

Identrus operating rules and customer agreements would make each customer contractually responsible for ensuring that its private key is kept confidential.

- 9. The operating rules of the Identrus System would provide that a company relying on a digital certificate issued by a Participant would have recourse against the Participant only if the company purchased an explicit warranty from the Participant and then only up to amount of the purchased warranty. A Participant that issues a digital certificate could refuse to issue a warranty with respect to a digital certificate for any bona fide reason. The Identrus System would limit the aggregate amount of warranties that a Participant may have outstanding at any one time and would require each Participant to post collateral with Identrus to cover its warranty exposure.
- 10. For example, Participants may provide smart cards containing digital certificates and smart card readers to their customers.
- 11. Digital certificates issued by a Participant to a customer are digitally signed by the Participant with the Participant's own private key and are accompanied by a digital certificate issued by Identrus. The digital certificates issued by Identrus would certify that the Participant is an authorized Participant in the Identrus System and that the private key used by a Participant to digitally sign its certificates is uniquely associated with the Participant, thereby authenticating the identity of the Participant.
- 12. The activities of Notificants and Identrus would be limited to providing the identity authentication and related services described above. Notificants and Identrus would not provide a general encryption or electronic message service, or any warranty of the underlying financial or nonfinancial transaction between customers whose identities are authenticated through the use of the Identrus System.

## Permissibility of Proposed Activities

Section 4(c)(8) of the BHC Act provides that a bank holding company may, with the Board's approval, engage in any activity that the Board determines to be closely related to banking.<sup>13</sup> The Board previously has authorized bank holding companies under section 4(c)(8) of the BHC Act to act as CAs and provide identity authentication services in connection with payment-related and other financial transactions conducted over electronic networks.<sup>14</sup> The Board has not previously authorized bank holding companies under section 4(c)(8) to act as CAs or provide identity authentication services in connection with nonfinancial transactions.

In determining whether an activity is closely related to banking, the Board and the courts look to whether (1) banks generally provide the proposed services; (2) banks generally provide services that are operationally or functionally so similar to the proposed services as to equip them particularly well to provide the proposed services; or (3) banks generally provide services that are so integrally related to the proposed services as to require their provision in a specialized form.<sup>15</sup>

Banks and bank holding companies have long provided identity authentication services in connection with nonfinancial transactions conducted by third parties and their own traditional banking and lending activities. For example, banks and bank holding companies are authorized to provide notary services to customers. The role of a notary is to authenticate signatures on financial or nonfinancial documents for the benefit of third parties. In order to verify a signature on a paper-based document, a notary must verify the identity of the person signing the document. The role served by a CA with respect to electronic documents is functionally similar to the role served by a notary with respect to paper-based documents.

Similarly, banks traditionally have identified their customers to third parties through the issuance of letters of

<sup>13. 12</sup> U.S.C. § 1843(c)(8).

<sup>14.</sup> See 12 C.F.R. 225.28(b)(14); Banc One Corporation, Inc., 83 Federal Reserve Bulletin 602, 606 (1997); Citicorp, 68 Federal Reserve Bulletin 505, 510 (1982).

<sup>15.</sup> See National Courier Association v. Board of Governors of the Federal Reserve System, 516 F.2d 1229, 1237 (D.C. Cir. 1975). In addition, the Board may consider any other basis that demonstrates that the proposed activity has a reasonable or close connection or relationship to banking or managing or controlling banks. See Board Statement Regarding Regulation Y, 49 Federal Register 806 (1984); Securities Industry Association v. Board of Governors of the Federal Reserve System, 468 U.S. 207, 210–11 n.5 (1984).

<sup>16.</sup> See OCC Unpublished Interpretive Letter dated June 11, 1985; Popular, Inc., 84 Federal Reserve Bulletin 481 (1998).

<sup>17. 58</sup> Am. Jur. 2d Notaries Public § 31 (2d ed. 1989).

<sup>18.</sup> The American Bar Association, for example, has noted that the issuance of digital certificates by CAs is "analogous to traditional certification processes undertaken by notaries with respect to documents executed with pen and ink." See Digital Signature Guidelines, Information Security Committee, Electronic Commerce and Information Technology Division, Section of Science and Technology, American Bar Association, p. 54 (Aug. 1, 1996).

introduction or letters of reference.<sup>19</sup> In addition, banks and bank holding companies routinely authenticate the identity of customers and noncustomers in connection with their authorized check cashing functions.<sup>20</sup>

Banks and bank holding companies also have long been authorized to issue signature guarantees to issuers of securities and their transfer agents in connection with the transfer of securities.<sup>21</sup> A bank issuing a signature guarantee warrants that the signature of the customer indorsing a certificated security or authorizing the transfer of an uncertificated security is authentic. The issuing bank also warrants that the signer was an appropriate person to indorse the security or authorization (or, if the signature is by an agent, that the agent had actual authority to act on behalf of the appropriate person) and the signer had legal capacity to sign.<sup>22</sup> In light of these warranties, a bank providing a signature guarantee must verify the identity of the customer providing the indorsement or signing the instruction.<sup>23</sup>

Furthermore, identity authentication services are an integral part of many traditional banking functions. Accordingly, banks and bank holding companies have developed sophisticated methods for authenticating the identity of customers and noncustomers that transact business or communicate with the bank or bank holding company through electronic means or otherwise. Many of these activities are operationally and functionally similar to the proposed activities and equip banks and bank holding companies particularly well to provide the proposed services. For example, banks and bank holding companies maintain systems to electronically authenticate the identity of persons engaged in credit and debit card, automated teller machine ("ATM"), home banking, and wire transfer transactions with the institution.<sup>24</sup> Banks and bank holding companies

also electronically authenticate the identity of persons in connection with the check and credit card verification services they are authorized to provide to merchants and other businesses.<sup>25</sup>

The Board notes, moreover, that state banks and national banks recently have been authorized to act as CAs and provide identity authentication services in connection with financial and nonfinancial transactions conducted over electronic networks.<sup>26</sup> Based on the foregoing, the Board concludes that acting as a CA and, more generally, authenticating the identity of customers conducting financial and nonfinancial transactions are activities that are closely related to banking within the meaning of section 4(c)(8) of the BHC Act.

As discussed above, Identrus and Notificants also propose to engage in a number of activities as part of and in connection with their proposed CA activities. These activities include (i) processing, transmitting, and storing data necessary for the operation of the Identrus System, such as digital certificates, requests for verification of digital certificates, and warranty requests; (ii) developing and marketing software and hardware necessary for the operation of the Identrus System; and (iii) complying with, monitoring, and enforcing the collateral posting requirements associated with identity warranties. In addition, Identrus would establish operating policies, procedures, and guidelines for the Identrus System.

The Board's Regulation Y permits bank holding companies to provide data processing and data transmission services and facilities (including software and hardware) for the processing and transmission of financial, banking, or economic data, and to engage in activities related to making, acquiring, brokering, or servicing extensions of credit, such as posting collateral and monitoring collateral requirements.27 Regulation Y also permits bank holding companies to engage in incidental activities that are necessary to the conduct of an activity that is closely related to banking.28 Identrus and Notificants have represented that they would engage in the additional activities only in connection with their CA activities and would not engage in such activities separate or apart from their CA activities. Notificants also have committed that the data processing and data transmission activities of Notificants and Identrus, including any proposed development or sale of hardware

<sup>19.</sup> Banks have drafted letters of introduction or letters of reference on behalf of their customers that serve the purpose of introducing the customer to other banks or third parties with which the customer seeks to do business. *See McLeod v. Fourth National Bank of St. Louis*, 122 U.S. 528, 534 (1887); OCC Interpretive Letter No. 610, reprinted in [1992-1993 Transfer Binder] CCH Fed. Banking L. Rep. 83,448 (Oct. 8, 1992).

<sup>20.</sup> Under the Uniform Commercial Code, a bank that accepts a check for deposit warrants to the drawee bank that all indorsements on the check are genuine, and the bank is liable to the drawee bank for the amount of the check plus expenses and lost interest if an indorsement on the check was forged. See, e.g., N.Y. U.C.C. § 4–207 (McKinney 1991).

<sup>21.</sup> See Letter from William B. Glidden, OCC Assistant Director, dated Dec. 5, 1985; see also Acceptance of Signature Guarantees from Eligible Guarantor Institutions, Exchange Act Rel. No. 29,663, [1983-1984 Transfer Binder] Fed. Sec. L. Rep. (CCH) 84,825. at 82,119 (Sept. 9, 1991); U.S. League of Savings Associations, SEC No-Action Letter, [1982-1983 Transfer Binder] Fed. Sec. L. Rep. (CCH) 77,412, at 78,500 (Apr. 29, 1983). Broker-dealer subsidiaries of bank holding companies also have provided signature guarantees.

<sup>22.</sup> See, e.g., N.Y. U.C.C. § 8-306(a) and (b) (McKinney 1999).

<sup>23.</sup> A bank issuing a signature guarantee is liable to the issuer of the security or its transfer agent for any loss that results from a breach of any of these warranties by the bank. See, e.g., N.Y. U.C.C. § 8–306(h) (McKinney 1999).

<sup>24.</sup> Article 4A of the Uniform Commercial Code, in fact, encourages banks to develop and maintain commercially reasonable security

procedures, such as algorithms or other encryption devices, for authenticating the identity of customers that transmit wire transfer instructions to the bank. See, e.g., N.Y. U.C.C. § 4-A-202 (McKinney 1999).

<sup>25.</sup> See 12 C.F.R. 225.28(b)(2)(iii); Barnett Banks of Florida, Inc., 71 Federal Reserve Bulletin 648 (1985); OCC Unpublished Interpretive Letter dated March 26, 1982.

<sup>26.</sup> See Chase Letter; OCC Conditional Approval No. 267 (Jan. 12, 1998).

<sup>27.</sup> See 12 C.F.R. 225.28(b)(2) and (14). Under Regulation Y, a bank holding company may develop and sell hardware and software that is designed and marketed for the processing and transmission of financial, banking, or economic data, and may develop and sell general purpose hardware so long as such general purpose hardware does not constitute more than 30 percent of the cost of any packaged offering. See 12 C.F.R. 225.28(b)(14).

<sup>28. 12</sup> C.F.R. 225.21(a)(2).

and software, will comply with the Board's regulations and interpretations. In light of the nature of these additional activities, the fact that they would be conducted only in connection with the CA activities of Identrus and Notificants, and all other facts of record, the Board concludes that these activities are encompassed within the activities previously approved by the Board by regulation or are incidental to the permissible CA activities of Identrus and Notificants and, therefore, are permissible under Regulation Y.29

## Other Considerations

In order to approve the notices, the Board also must determine that the performance of the proposed activities by Notificants and Identrus "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."30 As part of its evaluation of these factors, the Board considers the financial and managerial resources of Notificants and their subsidiaries, and the effect the transaction would have on such resources.31 The Board notes that each Notificant maintains capital equivalent to the capital levels that would be required of a U.S. banking organization. Based on all the facts of record, including confidential examination reports and financial information submitted by Notificants, the Board has concluded that financial and managerial considerations are consistent with approval of the proposal.

The Board has carefully considered the possibility that Identrus, Notificants, and their customers could expose themselves to the risks of electronic interception, interference, and fraud by operating and participating in a system that provides digital certification services for transactions conducted over open electronic networks like the Internet. The Board has carefully considered the proposal in light of these risks and the policies and procedures that the Identrus System would use to mitigate such risks. The Board notes that an organization would be eligible to become a Participant in the Identrus System only if it provides financial services, is regulated and examined by a government authority in its home country, meets minimum capital standards, and has a minimum long-term debt rating. Identrus and Notificants also intend to use sophisticated cryptographic methods to seek to ensure the security of digital certificates and to adopt a highly secure root CA technology.

In addition, as noted above, Participants and customers would be required to enter into written contracts that carefully define the functions, responsibilities, and scope of liability of the relevant parties and require the Participant and customer to comply with the operating rules of Identrus before they are permitted to participate in the Identrus System.32 Each digital certificate issued by a Participant would indicate that the recipient of the certificate may not rely on the certificate unless the recipient purchases a separate warranty from the Participant issuing the certificate. Furthermore, Identrus proposes to (i) establish limits on each Participant's per transaction and aggregate warranty exposure and monitor each Participant's compliance with these limits, (ii) require Participants to provide collateral to secure their warranty exposure and monitor compliance with such collateral requirements, and (iii) maintain a comprehensive auditing system that would monitor the adherence of Participants to the Identrus operating rules and technical standards.

The Board recognizes that neither the cryptographic methods employed by Identrus nor any other security system can provide absolute protection against the risks noted above. The nature of these risks is not different, however, from those to which more traditional banking operations are exposed in other forms. The Board expects banking organizations considering whether to act as CAs to analyze carefully the associated risks, and to evaluate carefully whether those risks are consistent with their policies relating to the security of customer information and other data.33 The Board believes that such analyses and evaluations would mitigate the risk that acting as a CA would result in unsound banking practices.34

The Board also has carefully considered the competitive effects of the proposal. Notificants do not currently act as CAs in the United States, and consummation of the proposal would increase competition in the market for CA services. In addition, the Board notes that the Identrus System would permit Notificants and other Participants in

<sup>29.</sup> Notificants may engage in data processing and data transmission activities, including the development and sale of hardware and software, pursuant to this order only to the extent such activities are necessary to permit the proper operation of the Identrus System. Notificants and Identrus also must conduct their data processing and data transmission activities subject to the software and hardware limitations contained in Regulation Y.

<sup>30. 12</sup> U.S.C. § 1843(c)(8).

<sup>31.</sup> See 12 C.F.R. 225.26(b).

<sup>32.</sup> Notificants have indicated that the Identrus System is in the process of finalizing its operating rules, including the technical specifications for the system, and sample Participant and customer agreements. The Board has carefully reviewed the Identrus System's draft operating rules and agreements, and Notificants have committed to provide the Federal Reserve System with the final version of the operating rules (including the technical specifications) and sample Participant and customer agreements prior to commencing operations.

<sup>33.</sup> The Board notes that Identrus has engaged an independent public accounting firm to conduct a detailed risk analysis of the Identrus System. Moreover, Notificants have agreed to treat Identrus as a subsidiary for purposes of the BHC Act, and Identrus has committed to include a provision in any contract with a vendor that provides services covered by the Bank Service Company Act (12 U.S.C. § 1861 et seq.) indicating that the Identrus-related operations of that vendor will be subject to the examination and regulatory authority of the Board.

<sup>34.</sup> Notificants have committed that neither Notificants nor Identrus will represent that the Board's approval of these notices constitutes an endorsement of Notificants' or Identrus's products or services by the Federal Reserve System, and neither Notificants nor Identrus will indicate in any of their marketing efforts or materials, either oral or written, that the Federal Reserve System assures or has approved or endorsed the security, functionality, or effectiveness of the products or services offered by Notificants or Identrus.

the Identrus System to compete with each other to provide CA and related services to customers.

Notificants have stated that consummation of the proposal would facilitate the use of the Internet and other open electronic networks for business-to-business electronic commerce, and allow companies to reduce the transaction costs associated with doing business. The Board also believes that consummation of the proposal would enhance the ability of Notificants to meet the needs of their customers. In addition, as the Board previously has noted, there are public benefits to be derived from permitting capital markets to operate so that banking organizations can make potentially profitable investments in nonbanking companies and from permitting banking organizations to allocate their resources in the manner they consider to be most efficient when such investments and actions are consistent. as in this case, with the relevant considerations under the BHC Act.35

Based on the foregoing and all other facts of record, the Board has determined that consummation of the proposal can reasonably be expected to produce benefits to the public that outweigh any potential adverse effects of the proposal. Accordingly, based on all the facts of record, the Board has determined that the balance of public interest factors that the Board must consider under the proper incident to banking standard of section 4(c)(8) of the BHC Act is favorable and consistent with approval.

#### Conclusion

Based on the foregoing and all the facts of record, the Board has determined that the proposal should be, and hereby is, approved. The Board's approval is specifically conditioned on compliance by Notificants with all the commitments made in connection with the notices, including the commitments discussed in this order, and the conditions set forth in this order. The Board's determination also is subject to all the conditions set forth in Regulation Y, including those in sections 225.7 and 225.25(c) of Regulation Y (12 C.F.R. 225.7 and 225.25(c)), 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 ensure compliance with, or to prevent evasion of, the provisions of the BHC Act and the Board's regulations and orders issued thereunder. These commitments and conditions are deemed to be conditions imposed in writing by the Board in connection with its findings and decision, and, as such, may be enforced in proceedings under applicable law. This proposal 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 appropriate Federal Reserve Bank, acting pursuant to delegated authority.

By order of the Board of Governors, effective November 10, 1999.

Voting for this action: Chairman Greenspan, Vice Chairman Ferguson, and Governors Kelley, Meyer, and Gramlich.

ROBERT DEV. FRIERSON Associate Secretary of the Board

J.P. Morgan & Co. Incorporated New York, New York

UBS AG Zurich, Switzerland

Order Approving Notices to Engage in Nonbanking Activities

J.P. Morgan & Co. Incorporated ("JPM"), a bank holding company within the meaning of the Bank Holding Company Act ("BHC Act"), and UBS AG ("UBS"), a foreign banking organization subject to the BHC Act, have requested the Board's approval under section 4(c)(8) of the BHC Act (12 U.S.C. § 1843(c)(8)) and section 225.24 of the Board's Regulation Y (12 C.F.R. 225.24) to acquire or retain more than 5 percent of the voting interests in TP Group LDC, Grand Cayman, Cayman Islands ("TP Group"), and its majority owned subsidiary, Tradepoint Financial Networks plc, London, United Kingdom ("Tradepoint"), and thereby engage in operating a securities exchange.

Notice of the proposals, affording interested persons an opportunity to submit comments, has been published (64 Federal Register 46,196, 48,397, and 48,643 (1999)). The time for filing comments has expired, and the Board has considered the notices and all comments received in light of the factors set forth in section 4(c)(8) of the BHC Act.

JPM, with total consolidated assets of \$269 billion, is the fifth largest banking organization in the United States. UBS, with total consolidated assets of \$583 billion, is the largest banking organization headquartered in Switzerland.¹ UBS operates branches in Los Angeles and San Francisco, California; Stamford, Connecticut; Chicago, Illinois; and New York, New York, and agencies in Miami, Florida; and Houston, Texas. JPM and UBS also engage through subsidiaries in a broad range of nonbanking activities in the United States and worldwide.

JPM proposes to control approximately 17 percent of the voting shares of TP Group, and UBS proposes to control approximately 11 percent of the voting shares of TP Group. TP Group owns approximately 54.1 percent of

<sup>35.</sup> See, e.g., Banc One Corporation, 84 Federal Reserve Bulletin 553 (1998).

<sup>1.</sup> Asset data are as of June 30, 1999, and ranking data are as of December 31, 1998.

<sup>2.</sup> JPM currently owns directly and indirectly an approximately 16 percent nonvoting interest in TP Group and UBS currently owns a 10.79 percent voting interest in TP Group. JPM and UBS acquired these interests in July 1999 in reliance on section 4(c)(13) of the BHC Act and the Board's Regulation K (12 C.F.R. Part 211). On consumation of the proposal, JPM would convert its entire non-voting interest in TP Group into a voting interest in the organization. In connection with this conversion, JPM also would acquire an addi-

the outstanding voting shares of Tradepoint, which operates the Tradepoint Stock Exchange ("Exchange"), an electronic securities exchange for the secondary trading of equity and equity-related securities listed on the London Stock Exchange. JPM and UBS also have stated that Tradepoint anticipates establishing an office or subsidiary in the United States. In light of these proposed actions, JPM and UBS have requested the Board's approval under section 4(c)(8) of the BHC Act to control their interests in TP Group.<sup>3</sup>

The Exchange is a screen-based electronic market that provides securities trade matching, execution, and related services to U.S. and foreign market-makers, broker-dealers, and institutional investors that become members of the Exchange.4 Currently, members may access the Exchange and enter bid and ask quotes through electronic terminals linked to certain financial networks (e.g., a Bloomberg terminal) or through a personal computer linked directly to the Exchange. Terminals linked to the Exchange can be located anywhere in the world, though trading currently may occur only during U.K. business hours.5 Orders entered into the Exchange's system are displayed on separate electronic order books for each security, which displays, in descending order, the best bid and ask quotations for the security. The Exchange automatically and continuously matches equal bid and ask offers for each listed security on a first-come, first-served basis.6

Tradepoint does not take a principal position in securities, clear or settle the securities transactions executed on the Exchange, or assume any principal risk for securities trades executed on the Exchange. Tradepoint and its shareholders also are under no obligation to guarantee a member's trades. Each member of the Exchange is required to be a member of the London Clearing House, or to appoint a member of the London Clearing House to clear the member's trades on the Exchange. Trades matched by the Exchange are registered at the end of each business day with the London Clearing House in the name of the appropriate clearing member. The London Clearing House then becomes the counterparty to each side of the trade until it is settled. Settlement occurs through the CREST system,

tional 1 percent of TP Group's shares from a third party. After the share conversion and purchase, JPM would control approximately 17 percent of the voting shares of TP Group.

which is operated by CRESTCo., a corporation established by the Bank of England for the settlement of uncertificated U.K. equities. Tradepoint is not affiliated with the London Clearing House or CRESTCo.

The Exchange is a recognized investment exchange under Section 37(3) of the U.K. Financial Services Act 1986, and is regulated and supervised by the U.K. Financial Services Authority ("FSA") under the securities laws of the United Kingdom. Although Tradepoint makes its services available to customers in the United States, the Securities and Exchange Commission ("SEC") has granted Tradepoint a limited volume exemption from the registration requirements of section 5 of the Securities Exchange Act of 1934 ("1934 Act").8 The SEC's exemptive order permits Tradepoint to operate in the United States without registering as a securities exchange so long as (i) the Exchange's average daily dollar value of trades involving U.S. members does not exceed \$40 million, and (ii) the Exchange's worldwide average daily volume does not exceed 10 percent of the average daily trading volume on the London Stock Exchange. The SEC's exemptive order also requires that the Exchange comply with a number of other conditions designed to protect U.S. investors and to ensure fair and orderly markets.

## Closely Related to Banking Standard

Section 4(c)(8) of the BHC Act provides that a bank holding company may, with Board approval, engage in any activity that the Board determines to be "so closely related to banking or managing or controlling banks as to be a proper incident thereto." In considering whether an activity is closely related to banking, the Board and the courts look to whether banks generally (1) conduct the proposed activity, (2) provide services that are operationally or functionally so similar to the proposed services as to equip them particularly well to provide the proposed services, or (3) provide services that are so integrally related to the proposed services as to require their provision in a specialized form.9

The Board has not previously determined by regulation or order that operating a securities exchange is closely related to banking within the meaning of section 4(c)(8) of the BHC Act. The principal function of a securities exchange is to provide a centralized facility for the execution,

<sup>3.</sup> A bank holding company must obtain the Board's approval under section 4(c)(8) of the BHC Act if a foreign company held by the bank holding company seeks to engage in business in the United States.

<sup>4.</sup> As of June 30, 1999, the Exchange had approximately 92 members. Unlike many U.S. securities exchanges, the Exchange is not owned by its members but rather by its shareholders, which may or may not be members of the exchange.

<sup>5.</sup> The Exchange's current trading hours are Monday to Friday, 7:30 A.M. to 5:30 P.M. London time, with a post-trade administration session from 5:30 P.M. to 6:00 P.M.

<sup>6.</sup> The Exchange also has the capacity to operate periodic auctions. In a periodic auction, bid and ask quotations would be allowed to accumulate and then filled, to the extent possible, at a single price calculated to match the largest possible number of accumulated buy and sell orders. The Exchange does not currently operate periodic auctions but may do so in the future for infrequently traded securities or the securities of smaller capitalization issuers.

<sup>7.</sup> Cross trades executed on the Exchange are not registered with the London Clearing House and are settled directly by the relevant member through CREST. Cross trades are trades where the buyer and seller are both customers of the same Exchange member.

<sup>8. 15</sup> U.S.C. § 78e; see Tradepoint Financial Networks plc, Exchange Act Release No. 41,199, 1999 SEC LEXIS 612 (March 22, 1999).

<sup>9.</sup> See National Courier Association v. Board of Governors of the Federal Reserve System, 516 F.2d 1229, 1237 (D.C. Cir. 1975). The Board may also consider any other basis that may demonstrate that the proposed activity has a reasonable or close connection or relationship to banking or managing or controlling banks. See Board Statement Regarding Regulation Y, 49 Federal Register 806 (1984); Securities Industry Association v. Board of Governors of the Federal Reserve System, 468 U.S. 207, 210–211 n.5 (1984).

clearance, and settlement of securities transactions. 10 Banks and bank holding companies currently are authorized to provide securities brokerage services to their customers and, as part of these services, to execute and clear such transactions on a securities exchange.11 Bank holding company subsidiaries authorized to act as a dealer in securities ("section 20 subsidiaries") also may provide securities execution, clearance, and settlement services in connection with their dealer operations. 12 In addition, subsidiaries of banks and bank holding companies that act as a broker or dealer frequently become members of securities exchanges and, in the case of mutually owned exchanges such as the New York Stock Exchange ("NYSE"), acquire small (less than 5 percent) ownership interests in the exchange. Through these relationships, banks and bank holding companies have gained extensive experience with and knowledge of the rules and operations of securities exchanges.

Banks and bank holding companies also provide services that are functionally and operationally similar to those provided by the Exchange. Subsidiaries of banks and bank holding companies acting as a securities broker may execute cross-trades for their customers and thereby match equal bid and offer orders received from their customers. In addition, section 20 subsidiaries of bank holding companies may act as a specialist or market-maker on a securities exchange, such as the NYSE or NASDAQ.13 A specialist generally maintains a book of current buy and sell orders received from other brokers and matches equal bid and offer quotes for execution.14 Market-makers for a security on the NASDAQ securities exchange also publish bid and offer prices at which they stand ready to execute transactions in the relevant security, either for their own account or for the account of customers. In addition, a marketmaker receives customer orders and matches them, to the extent possible, against an order received from another customer or against an order for the market-maker's own account.

For these reasons, and based on all the facts of record, the Board concludes that operating a securities exchange is an activity that is closely related to banking for purposes of section 4(c)(8) of the BHC Act.

Proper Incident to Banking Standard and Other Considerations

In order to approve the proposal, the Board also must determine that the proposed activities are a proper incident to banking, that is, 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." <sup>15</sup> As part of its evaluation of these factors, the Board considers the financial condition and managerial resources of the notificant and its subsidiaries and the effect the transaction would have on those resources. <sup>16</sup>

In considering the financial resources of the notificants, the Board has carefully reviewed the capitalization of JPM and UBS and has found the capitalization of each to be consistent with approval. In particular, the Board notes that JPM and its subsidiary bank, Morgan Guaranty Trust Company, New York, New York, are well capitalized and would remain so after consummation of the proposal, and that UBS's capital ratios satisfy applicable risk-based standards established under the Basle Accord, and are considered equivalent to the capital levels that would be required of a U.S. banking organization. The Board also has considered recent financial statements of JPM and UBS, including *pro forma* financial statements and other available information, and the condition of the U.S. operations of UBS.

Furthermore, as noted above, Tradepoint does not take a principal position in any security and does not assume any principal risk for the clearance or settlement of securities transactions executed on the Exchange. In addition, JPM and UBS would not guarantee any securities transactions executed on the Exchange. Based on these and other facts of record, including relevant supervisory information, the Board has determined that financial and managerial considerations are consistent with approval.

The Board also has carefully considered the competitive effects of the proposal. There are numerous existing and potential competitors for the proposed services. Accordingly, the Board concludes that consummation of the proposal would have a *de minimis* effect on competition.

In considering the potential for conflicts of interests and other adverse effects, the Board also has carefully reviewed the operational and supervisory framework within which the Exchange operates. As noted above, the Exchange is subject to regulation by the FSA under the securities laws of the United Kingdom, and its U.S. activities are subject to regulation by the SEC under the federal securities laws. U.K. law requires that recognized investment exchanges, such as the Exchange, promote and maintain high standards of integrity and fair dealing. <sup>17</sup> In furtherance of this requirement, the FSA has adopted a code of conduct gov-

<sup>10.</sup> The operations of the Exchange are more limited than many securities exchanges in that the Exchange does not directly or indirectly clear or settle securities transactions executed on the Exchange. Rather, the Exchange maintains systems to route trades to the London Clearing House for clearance and settlement through CREST.

<sup>11.</sup> See 12 C.F.R. 225.28(b)(7)(i); BankAmerica Corporation, 69 Federal Reserve Bulletin 105 (1983). See also 12 U.S.C. § 24 (Seventh); OCC Interp. Letter No. 622 (April 9, 1993).

<sup>12.</sup> See J.P. Morgan & Co., Inc. et al., 75 Federal Reserve Bulletin 192 (1989), aff'd sub nom. Securities Industry Ass'n v. Board of Governors, 900 F.2d 360 (D.C. Cir. 1990); First of America Corporation, 80 Federal Reserve Bulletin 1120 (1994).

<sup>13.</sup> See, e.g., Fleet Financial Group, 84 Federal Reserve Bulletin 227 (1998); Dresdner Bank AG, 82 Federal Reserve Bulletin 850 (1996).

<sup>14.</sup> See 5 L. Loss & J. Seligman, Securities Regulation 2513-14 (3d ed. 1990); New York Stock Exchange Rule 104.

<sup>15.</sup> See 12 U.S.C. § 1843(c)(8).

<sup>16.</sup> See 12 C.F.R. 225.26.

<sup>17.</sup> See Financial Services Act of 1986, sch. 4, par. 5.

erning recognized investment exchanges that is designed to ensure that the decisions of an exchange are not improperly influenced by conflicts of interest. Staff of the FSA has advised Board staff that the FSA could take supervisory action against a recognized investment exchange under U.K. law if the exchange sought to deny a person access to the exchange on the basis of an improper conflict of interest.

The U.K. Financial Services Act of 1986 also requires that the Exchange have financial resources sufficient to support its activities, and maintain rules and procedures to ensure that trading is conducted in an orderly manner and consistent with the protection of investors.18 Pursuant to these requirements, Tradepoint has established rules for the Exchange that govern the admission of members, establish standard terms for the execution of securities transactions on the Exchange, and provide sanctions for noncompliance with the Exchange's rules. The FSA has reviewed the Exchange's rules and determined that they are consistent with the requirements of U.K. law and must review any proposed amendments to such rules.19

Tradepoint's operations in the United States also would remain subject to the antifraud provisions of the federal securities laws.20 Although the SEC has granted Tradepoint a limited volume exemption from the registration requirements of section 5 of the 1934 Act, the SEC's exemptive order requires that Tradepoint comply with a number of conditions designed to ensure the maintenance of fair and orderly markets in the United States and the protection of U.S. investors. For example, these conditions permit the SEC to monitor the Exchange for compliance with the antifraud and other applicable provisions of the federal securities laws; require the Exchange to adopt and implement procedures to ensure the nondisclosure of confidential, material information held by the Exchange; and allow the SEC to obtain access to the books, records (including copies of membership applications and standards for admission as a member), facilities, and personnel of the Exchange as necessary or appropriate. Based on these and other conditions, the SEC concluded that the limited volume exemption provided the Exchange was consistent with the public interest and the protection of investors.21

Notificants have stated that consummation of the proposal would increase competition for the execution of equity and equity-related securities listed on the London Stock Exchange and provide added convenience to marketmakers, broker-dealers, and institutional investors that seek to execute trades in such securities. The SEC also has stated that the Exchange's services provide U.S. investors with a lower-cost method of investing in foreign securities. In addition, the Board has noted that there are public benefits to be derived from permitting capital markets to operate so that bank holding companies can make potentially profitable investments in nonbanking companies and from permitting banking organizations to allocate their resources in the manner they consider to be most efficient when such investments and actions are consistent, as in this case, with the relevant considerations under the BHC Act.

Based on all the facts of record, the Board has determined that consummation of the proposal can reasonably be expected to produce public benefits that outweigh any potential adverse effects of the proposal, and therefore that the performance of the proposed activity by JPM and UBS is a proper incident to banking for purposes of section 4(c)(8) of the BHC Act.22

#### Conclusion

Based on the foregoing and all the facts of record, including the commitments made by notificants in connection with the notices, and subject to the terms and conditions set forth in this order, the Board has determined that the notices should be, and hereby are, approved. The Board's determination is subject to all the conditions set forth in the Board's Regulation Y, including those in sections 225.7 and 225.25(c) (12 C.F.R. 225.7 and 225.25(c)), and to the Board's authority to require modification or termination of the activities of a bank holding company or any of its subsidiaries as the Board finds necessary to ensure 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 Board's decision is specifically conditioned on compliance with all the commitments made in the notices, including the commitments and conditions discussed in this order. The commitments and conditions relied on in reaching this decision shall be deemed to be conditions imposed in writing by the Board in connection with its findings and decision and, as such, may be enforced in proceedings under applicable law.

By order of the Board of Governors, effective November 8, 1999.

This action was taken pursuant to the Board's Rules Regarding Delegation of Authority (12 C.F.R. 265.4(b)(1)) by a committee of Board members. Voting for this action: Vice Chairman Ferguson and

<sup>18.</sup> See Financial Services Act of 1986, sch. 4, pars. 1 and 2.

<sup>19.</sup> The FSA has the authority to conduct on-site inspections of the Exchange if necessary or appropriate.

<sup>20.</sup> See, e.g., 15 U.S.C. § 78j(b).

<sup>21.</sup> JPM and UBS also have committed that Tradepoint will be considered a subsidiary for purposes of the BHC Act, and as an affiliate of any insured depository institution affiliate of the notificants for purposes of sections 23A and 23B of the Federal Reserve Act.

<sup>22.</sup> Regulation Y provides that a bank holding company must seek the Board's approval prior to altering in any material respect a nonbanking activity previously approved by the Board. See 12 C.F.R. 225.25(c)(3). As noted above, the Exchange does not currently clear or settle securities transactions executed on the Exchange. Because the clearance and settlement of securities transactions involves risks that are materially different from the risks associated with the execution of securities transactions, notificants must separately seek the Board's approval if the Exchange in the future proposes to clear or settle securities transactions to permit the Board to determine whether the performance of such additional activities by the Exchange would constitute a proper incident to banking under section 4(c)(8) of the BHC Act.

Governors Kelley and Gramlich. Absent and not voting: Chairman Greenspan and Governor Meyer.

ROBERT DEV. FRIERSON

Associate Secretary of the Board

#### ORDERS ISSUED UNDER BANK MERGER ACT

SunTrust Bank Atlanta, Georgia

Order Approving Merger of Banks

SunTrust Bank, Atlanta, Georgia ("SunTrust-Atlanta"), a state member subsidiary bank of SunTrust Banks, Inc., Atlanta, Georgia ("SunTrust"), has applied under section 18(c) of the Federal Deposit Insurance Act (12 U.S.C. § 1828(c)) ("Bank Merger Act") to merge with SunTrust's twenty-six wholly owned subsidiary banks ("Merging Banks"),¹ and to retain and operate branches at the locations of the main offices and branches of the Merging Banks.

Notice of the application, affording interested persons an opportunity to submit comments, has been given in accordance with the Bank Merger Act and the Board's Rules of Procedure (12 C.F.R. 262.3(b)). As required by the Bank Merger Act, reports on the competitive effects of the merger were requested from the United States Attorney General and the other federal banking agencies. The time for filing comments has expired, and the Board has considered the application and all the facts of record in light of the factors set forth in the Bank Merger Act.

SunTrust is the largest commercial banking organization in Georgia, controlling deposits of \$10.4 billion, representing 23.4 percent of the total deposits in commercial banking organizations in Georgia.2 It also is the 14th largest commercial banking organization in Alabama, controlling deposits of \$298.1 million, representing less than 1 percent of the total deposits in commercial banking organizations in Alabama; the largest commercial banking organization in Florida, controlling deposits of \$20.4 billion, representing 33.1 percent of the total deposits in commercial banking organizations in Florida; the fourth largest commercial banking organization in Tennessee, controlling deposits of \$5.7 billion, representing 7.4 percent of the total deposits in commercial banking organizations in Tennessee; and the largest commercial banking organization in Virginia, controlling deposits of \$18.6 billion, representing 34.5 percent of the total deposits in commercial banking organizations in Virginia. This proposal represents a reorganization of SunTrust's existing banking operations and, therefore, the Board concludes that consummation of the proposal would not have any significantly adverse effects on competition or on the concentration of banking resources in any relevant banking market.

#### Riegle-Neal Analysis

Section 102 of the Riegle-Neal Interstate Banking and Branching Efficiency Act of 1994 ("Riegle-Neal Act") (Pub. L. No. 103–328, 108 Stat. 2338 (1994)) authorizes a bank to conduct an interstate merger with another bank unless, prior to June 1, 1997, the home State of one of the banks involved in the transaction has adopted a law expressly prohibiting merger transactions involving out-of-state banks.<sup>3</sup> The Riegle-Neal Act also authorizes the acquiring bank to retain and operate, as a main office or branch, any bank offices of the acquired bank.<sup>4</sup>

All the states involved in the proposal, Alabama, Florida, Georgia, Tennessee, and Virginia, have enacted legislation allowing interstate mergers between banks located in their states and out-of-state banks pursuant to the provisions of the Riegle-Neal Act on or after June 1, 1997.<sup>5</sup> SunTrust-Atlanta has notified the appropriate state banking agencies regarding its proposal to consolidate its banking operations and has provided a copy of its Bank Merger Act application to all the relevant state agencies. In light of the foregoing, it appears that the proposal complies with the requirements of the Riegle-Neal Act.<sup>6</sup>

# Financial and Managerial Considerations

In reviewing this proposal under the Bank Merger Act, the Board also has considered the financial and managerial resources and future prospects of the institutions involved. The Board has reviewed these factors in light of the facts of record, including supervisory reports of examination assessing the financial and managerial resources of SunTrust-Atlanta and the Merging Banks. Based on all the facts of record, and because the proposal represents the reorganization of banking operations already under common control, the Board concludes that the financial and managerial resources and future prospects of SunTrust-Atlanta and the Merging Banks are consistent with approval of the proposal.

## Convenience and Needs Considerations

The Board received a comment from the Coalition of Black Business Enterprises and Organizations of Albany,

<sup>1.</sup> The Merging Banks are listed in the appendix.

<sup>2.</sup> All banking data are as of June 30, 1998.

<sup>3. 12</sup> U.S.C. § 1831u(a)(1) (1994).

<sup>4. 12</sup> U.S.C. § 1831u(d)(1) (1994).

<sup>5.</sup> See Ala. Code §§ 5–13B-22, 23 (effective May 31, 1997); Fla. Stat. Ch. 658.2953 (effective May 31, 1997); Ga. Code Ann., Fin. Inst. § 7–1-628.3 (effective June 1, 1997); Tenn. Code Ann. § 452-1402 et seq. (effective June 1, 1997); and Va. Code Ann. § 6.1–44.1 et seq. (effective March 16, 1995).

<sup>6.</sup> All the conditions for an interstate merger enumerated in Riegle-Neal would be met in this case. Each bank involved in the transaction is adequately capitalized and the resulting bank will continue to be adequately capitalized and adequately managed on consummation of this proposal. SunTrust-Atlanta and all affiliated depository institutions would not control more than 10 percent of the total amount of deposits of insured depository institutions in the United States and this corporate reorganization would not cause an increase in the percentage of deposits controlled by SunTrust in any state.

Georgia ("Protestant"), maintaining that one of the Merging Banks, SunTrust Bank, South Georgia, N.A., Leesburg, Georgia ("SunTrust-Leesburg"), does not provide needed services or make adequate efforts to meet the credit needs of consumers who live in low- and moderate-income ("LMI") census tracts of Albany, Georgia. Specifically, Protestant states that African Americans, particularly small business owners in low-income census tracts, are harmed by "redlining" and indifference on the part of SunTrust-Leesburg.7

The Board has long held that consideration of the convenience and needs factor includes a review of the records of the relevant depository institutions under the Community Reinvestment Act (12 U.S.C. § 2901 et seq.) ("CRA"). As provided in the CRA, the Board has evaluated this factor in light of examinations by the primary federal supervisors of the CRA performance of the relevant institutions. An institution's most recent CRA performance evaluation is a particularly important consideration in the applications process because it represents a detailed, on-site evaluation of the institution's overall record of performance under the CRA by its primary federal supervisor.8 54 Federal Register 23,618 and 23,641 (1999).

The results of these examinations indicate that Sun-Trust's depository institution subsidiaries, including SunTrust-Leesburg, are helping to meet the convenience and needs of the communities they serve. Each of Sun-Trust's depository institutions received a rating of "satisfactory" or higher at its last CRA performance examination, with nine banks receiving an "outstanding" rating. Examiners found that the CRA-related investments made by SunTrust-Atlanta and the Merging Banks exhibited a high level of responsiveness to the credit needs of the communities, the banks' branch networks were accessible to most segments of the communities they served, and the banks provided a significant number and variety of community development services.

SunTrust-Leesburg, which provides products and services to the area identified by Protestant, received a "satisfactory" rating on its most recent CRA performance examination as of July 30, 1997, by the Office of the Comptroller of the Currency ("OCC"). In SunTrust-Leesburg's 1997

CRA performance examination, OCC examiners found that the level of lending by the bank throughout its assessment area was responsive to the community's credit needs and that no conspicuous gaps existed in the loan penetration of geographies. Examiners determined that SunTrust-Leesburg had good loan penetration in low-income geographies throughout its assessment area. OCC examiners also considered SunTrust-Leesburg's level of lending in the Albany, Georgia, Metropolitan Statistical Area ("Albany MSA")9 good and responsive to the credit needs in the MSA.10

SunTrust-Leesburg had a good record of serving the credit needs of the small businesses throughout its assessment area. Specifically, examiners found that in the assessment area, 84 percent of SunTrust-Leesburg's small business loans were in amounts of \$100,000 or less, and that 89 percent of the bank's small business loans were to businesses with gross revenues of less than \$1,000,000. In the Albany MSA, 32 percent of SunTrust-Leesburg's small business loans were in LMI geographies. OCC examiners concluded that SunTrust-Leesburg's small business lending in the Albany MSA was adequate, noting that 39 percent of that MSA's small businesses were in LMI geographies.11 Examiners also considered SunTrust-Leesburg's performance in small farm lending to be adequate; SunTrust-Leesburg made 21 percent of its small farm loans in LMI geographies in its assessment area. Approximately 26 percent of the farms in the assessment area were in LMI geographies.

SunTrust-Leesburg reports that it helps to meet the credit needs of its assessment areas through participation in several community development organizations, including Albany Community Together ("ACT"), Georgia Development Authority ("GDA"), and Community Development Center ("CDC"). SunTrust-Leesburg has committed to invest \$1 million in ACT, which is organizing a small business revolving loan fund. GDA originates small farm loans throughout Georgia, and CDC provides small business loans in the city of Albany. SunTrust-Leesburg has committed \$110,000 to Vision Albany, an initiative to promote community development in Albany and Dougherty Counties. SunTrust-Leesburg representatives assist these organizations in providing services in the bank's assessment areas.

<sup>7.</sup> Protestant further alleges that the CRA performance deficiencies of SunTrust-Leesburg result from the lack of minority representation on SunTrust-Leesburg's board of directors and its management and staff. The Bank Merger Act does not authorize the Board to adjudicate disputes that arise in areas of employment discrimination or to monitor the racial composition of the board of directors, management, or staff of an organization. Under the regulations of the Department of Labor, SunTrust and SunTrust-Leesburg are required to file reports with the Equal Employment Opportunity Commission ("EEOC") covering all employees, and the EEOC has jurisdiction to determine whether companies are in compliance with equal employment opportunity statutes. See 41 C.F.R. 60-1.7(a), 60-1.40.

<sup>8.</sup> The Interagency Questions and Answers Regarding Community Reinvestment provide that an institution's most recent CRA performance evaluation is an important consideration in the applications process because it represents a detailed on-site evaluation of the institution's overall record of performance under the CRA by the appropriate federal financial supervisor.

<sup>9.</sup> SunTrust-Leesburg includes the Albany MSA as one of its four assessment areas. All seven of the low-income census tracts in SunTrust-Leesburg's assessment areas are in the city of Albany. In addition, five of the nineteen moderate-income geographies in SunTrust-Leesburg's assessment areas are in the city of Albany.

<sup>10.</sup> SunTrust-Atlanta states that in 1998, SunTrust-Leesburg made more than 50 percent of the loans to African American borrowers in the Albany MSA's low-income census tracts that were reported by local depository institutions under the Home Mortgage Disclosure

<sup>11.</sup> SunTrust-Atlanta states that SunTrust-Leesburg's small business loan efforts have resulted in the bank making approximately 30 percent of the total business loans in amounts of less than \$100,000 and 50 percent of the business loans between \$100,000 and \$250,000 in LMI census tracts of Albany from 1996 to 1998.

In reviewing the convenience and needs of the communities served by SunTrust-Leesburg, the Board also notes that the bank provides a full range of services, including commercial, agricultural, real estate, and consumer loans, trust services and a variety of community development services. SunTrust has stated that its internal reorganization will not adversely affect the provision of these services by SunTrust-Leesburg because the reorganization plan involves no branch closings or any other actions that might limit the bank's ability to serve the credit needs of its local communities.

The Board has carefully considered all the facts of record, including Protestant's comments, the response to those comments, the CRA performance records of Sun-Trust Bank-Atlanta and the Merging Banks, relevant reports from their primary federal regulators, and other supervisory information. Based on the facts of record, and for the reasons discussed above, the Board concludes that convenience and needs considerations, including the relevant banks' records of CRA performance, are consistent with approval of the proposal.

#### Conclusion

Based on the foregoing and all the facts of record, the Board has determined that the application should be, and hereby is, approved.<sup>12</sup> The Board's approval is specifically conditioned on compliance by SunTrust-Atlanta with all the commitments made in connection with the application. For purposes of this action, the commitments and conditions relied on in reaching this decision are conditions imposed in writing by the Board and, as such, may be enforced in proceedings under applicable law.

The proposed acquisition shall not be consummated before the fifteenth 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 Atlanta, acting pursuant to delegated authority.

By order of the Board of Governors, effective November 18, 1999.

Voting for this action: Chairman Greenspan, Vice Chairman Ferguson, and Governors Kelley and Meyer. Absent and not voting: Governor Gramlich

ROBERT DEV. FRIERSON Associate Secretary of the Board

# Appendix

Merging Banks:

Crestar Bank, Richmond, Virginia
SunTrust Bank, Alabama, N.A., Florence, Alabama
SunTrust Bank, Augusta, N.A., Augusta, Georgia
SunTrust Bank, Central Florida, N.A., Orlando, Florida
SunTrust Bank, Chattanooga, N.A., Chattanooga,
Tennessee

SunTrust Bank, East Central Florida, Daytona Beach, Florida

SunTrust Bank, East Tennessee, N.A., Knoxville, Tennessee

SunTrust Bank, Gulf Coast, Sarasota, Florida
SunTrust Bank, Miami, N.A., Miami, Florida
SunTrust Bank, Mid-Florida, N.A., Winter Haven, Florida
SunTrust Bank, Middle Georgia, N.A., Macon, Georgia
SunTrust Bank, Nashville, N.A., Nashville, Tennessee
SunTrust Bank, North Coast, Brooksville, Florida
SunTrust Bank, North Central Florida, Ocala, Florida
SunTrust Bank, North Florida, N.A., Jacksonville, Florida
SunTrust Bank, Northeast Georgia, N.A., Athens, Georgia
SunTrust Bank, Northwest Florida, Tallahassee, Florida
SunTrust Bank, Northwest Georgia, N.A., Rome, Georgia
SunTrust Bank, Savannah, N.A., Savannah, Georgia
SunTrust Bank, South Central Tennessee, N.A., Pulaski,
Tennessee

SunTrust Bank, South Florida, N.A., Fort Lauderdale, Florida

SunTrust Bank, South Georgia, N.A., Leesburg, Georgia SunTrust Bank, Southeast Georgia, N.A., Brunswick, Georgia

SunTrust Bank, Southwest Florida, Fort Myers, Florida SunTrust Bank, Tampa Bay, Tampa Bay, Florida SunTrust Bank, West Georgia, N.A., Columbus, Georgia

# ORDERS ISSUED UNDER INTERNATIONAL BANKING ACT

Bank Austria Aktiengesellschaft Vienna, Austria

Order Approving Establishment of a Branch and Representative Offices

Bank Austria Aktiengesellschaft ("Bank"), Vienna, Austria, a foreign bank within the meaning of the International Banking Act ("IBA"), has applied under section 7(d) of the IBA (12 U.S.C. § 3105(d)) to establish a federally licensed branch in Greenwich, Connecticut. Bank has also

<sup>12.</sup> Protestant requested that several public meetings or hearings be held on this matter in Albany, Georgia. The Bank Merger Act does not require the Board to hold a public hearing on an application. Under its rules, the Board may, in its discretion, hold a public meeting or hearing on an application if a meeting or hearing is necessary or appropriate to clarify factual issues related to the application and to provide an opportunity for testimony, if appropriate. See 12 C.F.R. 262.3(i). The Board has carefully considered Protestant's request in light of all the facts of record. Protestant has had ample opportunity to submit its views and Protestant's request for a public meeting or hearing fails to demonstrate why written comments would not adequately present Protestant's evidence. Protestant's request also fails to identify disputed issues of fact that are material to the Board's decision and that would be clarified by a public meeting or hearing. For these reasons, and based on all the facts of record, the Board has determined that a public meeting or hearing is not required or warranted in this case. Accordingly, Protestant's request is denied.

applied under section 10(a) of the IBA (12 U.S.C. § 3107(a)) to establish representative offices in Atlanta, Georgia; and San Francisco, California. The Foreign Bank Supervision Enhancement Act of 1991, which amended the IBA, provides that a foreign bank must obtain the approval of the Board to establish a branch or representative office in the United States.

Notice of the application, affording interested persons an opportunity to submit comments, was published on November 27, 1998, in a newspaper of general circulation in Greenwich, Connecticut (Greenwich Time); Atlanta, Georgia (Atlanta Journal and Constitution); and San Francisco, California (San Francisco Chronicle). The time for filing comments has expired, and the Board has considered the application and all comments received.

Bank, with total consolidated assets of \$130 billion, is the largest bank in Austria.1 Anteilsverwaltung-Zentralsparkasse ("AV-Z"), an Austrian holding company, is Bank's largest shareholder.2 Bank engages directly and indirectly in a number of banking, financial, and other activities in Europe, Asia, and the United States. In the United States, Bank operates a federal branch in New York, New York; a representative office in Chicago, Illinois; and several nonbank subsidiaries. Bank is a qualifying foreign banking organization within the meaning of Regulation K (12 C.F.R. 211.23(b)).

In September 1998 Bank merged with Creditanstalt Aktiengesellschaft, Vienna, Austria, which, up until the merger, operated a branch in Greenwich, Connecticut; and representative offices in Atlanta, Georgia; and San Francisco, California. Bank has requested authority to retain and operate these offices through this application. Pursuant to Regulation K, the Board allowed the merger to proceed before an application to establish the offices was filed and acted on by the Board.3

In order to approve an application by a foreign bank to establish a branch or representative office in the United States, the IBA and Regulation K require the Board to determine that the foreign bank applicant engages directly in the business of banking outside of the United States, and has furnished to the Board the information it needs to assess the application adequately. The Board also shall take into account whether the foreign bank and any foreign bank parent are subject to comprehensive supervision or regulation on a consolidated basis by its home country supervisor (12 U.S.C. §§ 3105(d)(2), 3107(a)(2); 12 C.F.R. 211.24(d)(2), 211.24(c)(1)).4 The Board may also take into

account additional standards as set forth in the IBA and Regulation K (12 U.S.C.  $\S$  3105(d)(3)-(4); 12 C.F.R. 211.24(c)(2)-(3).

As noted above, Bank engages directly in the business of banking outside the United States. Bank also has provided the Board with information necessary to assess the application through submissions that address the relevant issues. With respect to supervision by home country authorities, the Board previously has determined, in connection with applications involving other banks in Austria, that those banks were subject to home country supervision on a consolidated basis.<sup>5</sup> Bank is supervised by the Austrian Federal Ministry of Finance (the "Ministry") and the Austrian National Bank on substantially the same terms and conditions as those other banks. Based on all the facts of record, the Board has determined that Bank is subject to comprehensive supervision on a consolidated basis by its home country supervisor.

The Board also has taken into account the additional standards set forth in section 7 of the IBA and Regulation K (see 12 U.S.C. § 3105(d) (3)-(4); 12 C.F.R. 211.24(c)(2)-(3). The ministry has no objection to the establishment of the proposed branch and representative

With respect to the financial and managerial resources of Bank, taking into consideration Bank's record of operations in its home country, its overall financial resources, and its standing with its home country supervisors, the Board has also determined that financial and managerial factors are consistent with approval of the proposed branch and representative offices. Bank appears to have the experience and capacity to support the proposed branch and representative offices and has established controls and procedures for the proposed offices to ensure compliance with U.S. law.

With respect to access to information about Bank's operations, the Board has reviewed the restrictions on disclosure in relevant jurisdictions in which Bank operates and has communicated with relevant government authorities regarding access to information. Bank and its parent have committed to make available to the Board such information on the operations of Bank and any of its affiliates that the Board deems necessary to determine and enforce compliance with the IBA, the Bank Holding Company Act of 1956, as amended, and other applicable federal law. To the extent that the provision of such information to the Board may be prohibited by law, Bank and its parent have

<sup>1.</sup> Unless otherwise indicated, data are as of June 30, 1999.

<sup>2.</sup> As of October 1, 1999, AV-Z owned 24.5 percent of Bank Austria. Although AV-Z is organized as a savings bank, Austrian law provides that AV-Z may only hold and manage assets.

<sup>3.</sup> See 12 C.F.R. 211.24(a)(3), and Board Letter dated September 21, 1998, to John C. Murphy, Jr., Esq.

<sup>4.</sup> In assessing this standard, the Board considers, among other factors, the extent to which the home country supervisors: (i) ensure that the bank has adequate procedures for monitoring and controlling its activities worldwide; (ii) obtain information on the condition of the bank and its subsidiaries and offices through regular examination reports, audit reports, or otherwise; (iii) obtain information on the

dealings with and relationship between the bank and its affiliates, both foreign and domestic; (iv) receive from the bank financial reports that are consolidated on a worldwide basis or comparable information that permits analysis of the bank's financial condition on a worldwide consolidated basis; (v) evaluate prudential standards, such as capital adequacy and risk asset exposure, on a worldwide basis. These are indicia of comprehensive, consolidated supervision. No single factor is essential, and other elements may inform the Board's determina-

<sup>5.</sup> See Creditanstalt-Bankverein, 82 Federal Reserve Bulletin 594 (1996); Erste Bank der Österreichischen Sparkassen Aktiengesellschaft, 84 Federal Reserve Bulletin 1123 (1998).

committed to cooperate with the Board to obtain any necessary consents or waivers that might be required from third parties for disclosure of such information. In addition, subject to certain conditions, the Ministry may share information on Bank's operations with other supervisors, including the Board. In light of these commitments and other facts of record, and subject to the condition described below, the Board concludes that Bank has provided adequate assurances of access to any necessary information that the Board may request.

On the basis of all the facts of record, and subject to the commitments made by Bank and its parent, as well as the terms and conditions set forth in this order, the Board has determined that Bank's application to establish the federally-licensed branch and representative offices should be, and hereby is, approved. Should any restrictions on access to information on the operations or activities of Bank and its affiliates subsequently interfere with the Board's ability to obtain information to determine and enforce compliance by Bank or its affiliates with applicable federal statutes, the Board may require termination of any of Bank's direct or indirect activities in the United States, or in the case of an office licensed by the Office of the Comptroller of the Currency ("OCC"), recommend termination of such office. Approval of this application is also specifically conditioned on compliance by Bank and its parent with the commitments made in connection with this application and with the conditions in this order.6 The commitments and conditions referred to above are conditions imposed in writing by the Board in connection with its decision and may be enforced in proceedings under 12 U.S.C. § 1818 or 12 U.S.C. § 1847 against Bank, its offices, and its affiliates.

By order of the Board of Governors, effective November 18, 1999.

Voting for this action: Chairman Greenspan, Vice Chairman Ferguson, and Governors Kelley and Meyer. Absent and not voting: Governor Gramlich.

ROBERT DEV. FRIERSON Associate Secretary of the Board

UBS AG Basel, Switzerland

Order Approving Establishment of a Representative Office

UBS AG ("Bank"), Basel, Switzerland, a foreign bank within the meaning of the International Banking Act ("IBA"), has applied under section 10(a) of the IBA (12 U.S.C. § 3107(a)) to establish a representative office in Washington, D.C. The Foreign Bank Supervision Enhancement Act of 1991, which amended the IBA, provides that a foreign bank must obtain the approval of the Board to establish a representative office in the United States.

Notice of the application, affording interested persons an opportunity to submit comments, has been published in a newspaper of general circulation in Washington, D.C. (*The Washington Times*, August 6, 1999). The time for filing comments has expired, and the Board has considered the application and all comments received.

Bank, with assets of approximately \$581.7 billion,¹ was created as a result of the 1998 merger of Swiss Bank Corporation and Union Bank of Switzerland. UBS is the largest banking organization in Switzerland and the fourth largest banking organization in the world. Bank's shares are publicly traded and widely held, with no single shareholder owning more than 5 percent of the shares.

Bank engages in a broad range of commercial and investment banking activities, directly and through a number of subsidiaries, both foreign and domestic. In the United States, Bank operates state-licensed branches in Stamford, Connecticut, New York, New York, and Chicago, Illinois; federally-licensed branches in San Francisco and Los Angeles, California; state-licensed agencies in Miami, Florida, and Houston, Texas; and a representative office in Houston, Texas.

The proposed representative office would act as a liaison between Bank and existing and potential private banking customers in Washington, D.C., and adjacent areas in Virginia and Maryland. The office would market private banking products offered by Bank's New York branch.

In acting on an application to establish a representative office, the IBA and Regulation K provide that the Board shall take into account whether the foreign bank engages directly in the business of banking outside the United States and has furnished to the Board the information it needs to assess the application adequately. The Board also shall take into account whether the foreign bank is subject to comprehensive supervision or regulation on a consolidated basis by its home country supervisor (12 U.S.C. § 3107(a)(2); 12 C.F.R. 211.24(d)(2)).<sup>2</sup> In addition, the

<sup>6.</sup> The Board's authority to approve establishment of the proposed branch office parallels the continuing authority of the OCC to license federal offices of a foreign bank; the Board's authority to approve establishment of the proposed representative offices parallels the continuing authority of the States of Georgia and California to license offices of a foreign bank. The Board's approval of this application does not supplant the authority of the OCC, or the States of Georgia and California, respectively, to license the proposed offices of Bank in accordance with any terms or conditions that they may impose.

<sup>1.</sup> Data are as of June 30, 1999.

<sup>2.</sup> In assessing this standard, the Board considers, among other factors, the extent to which the home country supervisors: (i) ensure that the bank has adequate procedures for monitoring and controlling its activities worldwide; (ii) obtain information on the condition of the bank and its subsidiaries and offices through regular examination reports, audit reports, or otherwise; (iii) obtain information on the

Board may take into account additional standards set forth in the IBA and Regulation K (12 U.S.C. § 3105(d)(3)-(4); 12 C.F.R. 211.24(c)(2)).

As noted above, Bank engages directly in the business of banking outside the United States. Bank also has provided the Board with information necessary to assess the application through submissions that address the relevant issues. With respect to supervision by home country authorities, the Board previously has determined that Bank was subject to comprehensive home country supervision on a consolidated basis.3 There have been no material changes in the manner in which Swiss banks are supervised and regulated by their home country supervisors since that time. Accordingly, based on all the facts of record, the Board has determined that Bank continues to be subject to comprehensive supervision and regulation on a consolidated basis by its home country supervisor.

The Board also has taken into account the additional standards set forth in section 7 of the IBA and Regulation K (see 12 U.S.C. § 3105(d)(3)-(4); 12 C.F.R. 211.24(c)(2)). With respect to consent of appropriate home country authorities, the Swiss Banking Commission has no objection to establishment of the proposed representative office.

With respect to the financial and managerial resources of Bank, taking into consideration Bank's record of operation in its home country, its overall financial resources, and its standing with its home country supervisor, the Board also has determined that financial and managerial factors are consistent with approval of the proposed representative office. Bank appears to have the experience and capacity to support the proposed representative office and has established controls and procedures for the proposed representative office to ensure compliance with U.S. law.

With respect to access to information about Bank's operations, the Board has reviewed the restrictions on disclosure in relevant jurisdictions in which Bank operates and has communicated with relevant government authorities regarding access to information. Bank has committed to make available to the Board such information on the operations of Bank and any of its affiliates that the Board deems necessary to determine and enforce compliance with the IBA, the Bank Holding Company Act of 1956, as amended, and other applicable federal law. To the extent that the provision of such information may be prohibited by law, Bank has committed to cooperate with the Board to obtain any necessary consents or waivers that might be required from third parties for disclosure of such information. In addition, subject to certain conditions, the Swiss Banking Commission may share information on Bank's operations with other supervisors, including the Board. In light of these commitments and other facts of record, and subject to the conditions described below, the Board concludes that Bank has provided adequate assurances of access to any necessary information the Board may re-

On the basis of all the facts of record, and subject to the commitments made by Bank and the terms and conditions set forth in this order, the Board has determined that Bank's application to establish the representative office should be, and hereby is, approved. Should any restrictions on access to information on the operations or activities of Bank subsequently interfere with the Board's ability to obtain information to determine and enforce compliance by Bank or its affiliates with applicable federal statutes, the Board may require termination of any of Bank's or its affiliates' direct or indirect activities in the United States, or in the case of an office licensed by the Office of the Comptroller of the Currency, recommend termination of such office. Approval of this application also is specifically conditioned on compliance by Bank with the commitments made in connection with the application, and with the conditions in this order.4 The commitments and conditions referred to above are conditions imposed in writing by the Board in connection with its decision, and may be enforced in proceedings under 12 U.S.C. § 1818 against Bank and its affiliates.

By order of the Board of Governors, effective November 24, 1999.

Voting for this action: Chairman Greenspan, Vice Chairman Ferguson, and Governors Kelley, Meyer, and Gramlich.

> ROBERT DEV. FRIERSON Associate Secretary of the Board

dealings with and relationship between the bank and its affiliates, both foreign and domestic; (iv) receive from the bank financial reports that are consolidated on a worldwide basis, or comparable information that permits analysis of the bank's financial condition on a worldwide consolidated basis; (v) evaluate prudential standards, such as capital adequacy and risk asset exposure, on a worldwide basis. These are indicia of comprehensive consolidated supervision. No single factor is essential and other elements may inform the Board's determination.

<sup>3.</sup> See UBS AG, Federal Reserve Bulletin 684 (1998).

<sup>4.</sup> The Board's authority to approve the establishment of the proposed representative office parallels the continuing authority of the District of Columbia to license or otherwise to permit the establishment of offices of a foreign bank. The Board's approval of this application does not supplant the authority of the District of Columbia and the Office of Banking and Financial Institutions ("Office") to license or otherwise to permit the establishment of the proposed office of Bank in accordance with any terms or conditions that the Office may impose.

Index of Orders Issued or Actions Taken by the Board of Governors of the Federal Reserve System (July 1, 1999 - September 30, 1999)

Applicant Merged or Acquired Bank or Active South Bancorporation, First American Corporation,	vity Date of Approval	and Page
South Bancorporation, First American Corporation,	August 30, 1999	85, 685
Birmingham, Alabama Nashville, Tennessee	August 30, 1999	65, 065
First American National Bank,		
Nashville, Tennessee		
First American Federal Savings Ba	ank,	
Nashville, Tennessee		
First American Community Develo	opment	
Corporation,		
Nashville, Tennessee		05.645
Banco de la Ciudad de Buenos Aires,  To establish a representative office	in May 5, 1999	85, 647
Buenos Aires, Argentina  New York, New York  LLS, Benk, N.A.	August 19, 1000	95 602
Bank Iowa, U.S. Bank, N.A., Red Oak, Iowa Minneapolis, Minnesota	August 18, 1999	85, 693
Caixa Geral de Depositos S.A.,  To establish a state-licensed branch	h in September 27, 1999	85, 774
Lisbon, Portugal  New York, New York	ii iii September 27, 1999	05, 777
Canadian Imperial Bank of Commerce, The CIBC World Markets Corpora	ation, September 20, 1999	85, 733
Toronto, Canada Toronto, Canada		
CIBC World Markets Inc.,		
Toronto, Canada		
CIBC Delaware Holdings Inc.,		
New York, New York		
CIBC National Bank,		
Maitland, Florida Civitas Bank, First Indiana Bank,	July 14, 1999	85, 645
St. Joseph, Michigan Indianapolis, Indiana	July 14, 1999	05, 045
The Dai-Ichi Kangyo Bank, Limited, CIT Group, Inc.,	September 27, 1999	85, 736
Tokyo, Japan Livingston, New Jersey	50ptcm601 27, 1555	00, 700
Newcourt Credit Group, Inc.,		
Toronto, Canada		
Firstar Corporation, Mercantile Bancorporation Inc.,	September 1, 1999	85, 737
Milwaukee, Wisconsin St. Louis, Missouri		
Ameribanc, Inc.,		
St. Louis, Missouri	tion	
Mercantile Bank National Association St. Louis, Missouri	tion,	
Fleet Financial Group, Inc.,  BankBoston Corporation,	September 7, 1999	85, 747
Boston, Massachusetts  Boston, Massachusetts	.,	,
BankBoston, N.A.,		
Boston, Massachusetts		
The Fuji Bank, Limited, HealthCare Financial Partners, Inc	., July 20 1999	85, 643
Tokyo, Japan Chevy Chase, Maryland		
Heller Financial, Inc.,		
Chicago, Illinois  Manufacturers and Traders Trust  The Chase Manhattan Bank,	August 16, 1999	85, 694
Company, New York, New York	August 10, 1777	05, 074
Buffalo, New York		
Security Pecos Bancshares, Inc., Security State Bank of Pecos,	July 28, 1999	85, 640
Pecos, Texas Pecos, Texas	•	
Security Delaware Pecos Bancshares,		
Inc.,		
Dover, Delaware		

# Index of Orders Issued or Actions Taken-Continued

Applicant	Merged or Acquired Bank or Activity	Date of Approval	Bulletin Volume and Page
Stockman Financial Corporation, Miles City, Montana	Terry Bancshares, Inc., Terry, Montana State Bank of Terry, Terry, Montana	July 2, 1999	85, 641
The Sumitomo Bank, Limited, Osaka, Japan	Daiwa SB Investments Ltd., New York, New York	July 20, 1999	85, 644
Texas Regional Bancshares, Inc., McAllen, Texas	Harlingen Bancshares, Inc., Harlingen, Texas	August 23, 1999	85, 683
Texas State Bank, McAllen, Texas	HN Bancshares of Delaware, Inc., Harlingen, Texas Harlingen National Bank, Harlingen, Texas		
United Bank of Philadelphia, Philadelphia, Pennsylvania	First Union National Bank, Charlotte, North Carolina	September 7, 1999	85, 773

# APPLICATIONS APPROVED UNDER BANK HOLDING COMPANY ACT By the Secretary of the Board

Recent applications have been approved by the Secretary of the Board as listed below. Copies are available upon request to the Freedom of Information Office, Office of the Secretary, Board of Governors of the

# Section 3

Applicant(s)	Bank(s)	Effective Date
Compass Bancshares, Inc.,	Western Bancshares of Albuquerque, Inc.,	November 5, 1999
Birmingham, Alabama	Albuquerque, New Mexico	

# APPLICATIONS APPROVED UNDER BANK HOLDING COMPANY ACT By Federal Reserve Banks

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

# Section 3

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Area Bancshares, Corporation, Owensboro, Kentucky	Lyon Bancorp, Inc., Eddyville, Kentucky	St. Louis	November 4, 1999
	Peoples Bank of Murray,		
	Kentucky,		
	Murray, Kentucky		
	Dees Bank of Hazel,		
	Hazel, Kentucky		
	Bank of Livingston County,		
	Tiline, Kentucky		

# Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Arvest Bank Group, Inc., Bentonville, Arkansas	The First National Bank of Huntsville, Huntsville, Arkansas	St. Louis	October 29, 1999
Bank of America Corporation, Charlotte, North Carolina NB Holdings Corporation, Charlotte, North Carolina	Bank of America, N.A., Charlotte, North Carolina Lake-Osceola State Bank, Baldwin, Michigan	Richmond	November 24, 1999
Camden National Corporation, Camden, Maine	KSB Bancorp, Inc., Kingfield, Maine Kingfield Savings Bank, Kingfield, Maine	Boston	November 10, 1999
Capitol Bancorp Ltd., Lansing, Michigan Sun Community Bancorp Limited, Phoenix, Arizona	Nevada Community Bancorp Limited, Las Vegas, Nevada	Chicago	November 10, 1999
Charter Banking Corp., Tampa, Florida	Columbia Bank, Tampa, Florida	Atlanta	October 25, 1999
Community First Bankshares, Inc., Fargo, North Dakota Community First National Bank, Fergus Falls, Minnesota	River Acquisition Corp., Minneapolis, Minnesota River Bancorp., Inc., Ramsey, Minnesota Northland Security Bank, Ramsey, Minnesota	Minneapolis	November 10, 1999
The Employee Stock and Ownership Trust of First Grayson Bancshares, Inc., Celeste, Texas	First Grayson Bancshares, Inc. Waco, Texas	Dallas	November 10, 1999
Farmers and Merchants Bancshares, Inc., Burlington, Iowa	Farmers and Merchants Bank and Trust, Mount Pleasant, Iowa	Chicago	November 1, 1999
Farmers & Merchants Investment, Inc., Milford, Nebraska	North Central Bancorp, Inc., Norfolk, Nebraska	Kansas City	November 24, 1999
First Bancshares Corporation, Gladstone, Michigan	Baybank Corporation, Gladstone, Michigan	Minneapolis	November 10, 1999
First Delta Bankshares, Inc., Blytheville, Arkansas	Merchants and Planters Bank, Manila, Arkansas	St. Louis	November 18, 1999
First Manitowoc Bancorp, Inc. Manitowoc, Wisconsin	Dairy State Financial Services, Inc., Plymouth, Wisconsin Dairy State Bank, Plymouth, Wisconsin	Chicago	November 3, 1999
First Minden Bancshares, Inc., Minden, Nebraska	First National Bank and Trust Company of Minden, Minden, Nebraska	Kansas City	November 10, 1999
First State Financial Corporation, Sarasota, Florida	First State Bank of Pinellas, St. Petersburg, Florida	Atlanta	November 10, 1999
F.N.B. Corporation, Hermitage, Pennsylvania	Sun Bancorp, Inc., Selinsgrove, Pennsylvania	Cleveland	November 1, 1999
Gideon Enterprises, L.P., Topeka, Kansas	Silver Lake Bank, Topeka, Kansas	Kansas City	November 9, 1999

# Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Gold Banc Corporation,	Union Bankshares, Ltd.,	Kansas City	November 4, 1999
Leawood, Kansas	Denver, Colorado		
Gold Banc Acquisition Corporation	Union Bank and Trust,		
VIII, Inc.,	Denver, Colorado		
Leawood, Kansas	Harry County Doub	Chinana	Nauranhan 15, 1000
Great River Banshares Corporation, Burlington, Iowa	Henry County Bank, Mount Pleasant, Iowa	Chicago	November 15, 1999
Greenville First Bancshares, Inc.,	Greenville First Bank, N.A.,	Richmond	November 2, 1999
Greenville, South Carolina	Greenville, South Carolina	Remnond	110 vember 2, 1999
Heritage Commerce Corp.,	Heritage Bank South Bay,	San Francisco	November 12, 1999
San Jose, California	Morgan Hill, California		
Interbancorp,	Inter Bank,	San Francisco	October 28, 1999
Duvall, Washington	Duvall, Washington		
Interim First Capital Corporation,	First Capital Bancorp, Inc.,	Atlanta	October 25, 1999
Norcross, Georgia	Norcross, Georgia		
	First Capital Bank,		
Intermountain First Dangers	Norcross, Georgia	San Francisco	October 21 1000
Intermountain First Bancorp, Las Vegas, Nevada	Nevada First Bank, Las Vegas, Nevada	San Francisco	October 21, 1999
JD Financial Group, Inc.,	Pan American Bank,	Chicago	November 2, 1999
Evanston, Illinois	Chicago, Illinois	Cinougo	1.0. cm oc. 2, 1999
Lake Michigan Financial	The Bank of Northern Michigan,	Chicago	November 15, 1999
Corporation,	Petoskey, Michigan	C	
Holland, Michigan			
Merchants & Manufacturers	Pyramid Bancorp.,	Chicago	November 23, 1999
Bancorp,	Grafton, Wisconsin		
New Berlin, Wisconsin	Grafton State Bank,		
Merchants Merger Corp.,	Grafton, Wisconsin		
New Berlin, Wisconsin	TI D I CAI	C4 T . !-	0.4.1021000
Miles Independent Bancorporation, Inc.,	The Bank of Advance, Advance, Missouri	St. Louis	October 22, 1999
Advance, Missouri	The First National Bank of Lerna,		
Miles Bancshares, Inc.,	Lerna, Illinois		
Advance, Missouri	Bowen State Bank,		
	Bowen, Illinois		
NBT Bancorp Inc.,	Lake Ariel Bancorp, Inc,	New York	November 19, 1999
Norwich, New York	Lake Ariel, Pennsylvania		
	LA Bank, N.A.,		
Namb Assassas Danishana Inc	Lake Ariel, Pennsylvania	D.II.	N
North American Bancshares, Inc., Sherman, Texas	Marble Falls National Bancshares, Inc.,	Dallas	November 18, 1999
Northern Plains Investment, Inc.,	Marble Falls, Texas  North Star Holding Company, Inc.,	Minneapolis	November 4, 1999
Jamestown, North Dakota	Jamestown, North Dakota	Millicapons	140VCIIIOCI 4, 1999
NorthStar Bancshares, Inc.,	NorthStar Bank,	Chicago	November 10, 1999
Estherville, Iowa	Esterville, Iowa		
Pacific Crest Capital, Inc.,	Pacific Crest Bank,	San Francisco	November 17, 1999
Agoura Hills, California	Agoura Hills, California		
Paradigm Bancorporation, Inc.,	Dayton State Bank,		November 10, 1999
Houston, Texas	Dayton, Texas		
Regal Bancorp, Inc.,	Regal Bank & Trust,	Richmond	November 8, 1999
Owings Mills, Maryland	Owings Mills, Maryland		
	Regal Savings Bank, FSB,		
	Owings Mills, Maryland		

# Section 3—Continued

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
Regions Financial Corporation, Birmingham, Alabama	LCB Corporation, Fayetteville, Tennessee Lincoln County Bank, Fayetteville, Tennessee	Atlanta	November 3, 1999
Regions Financial Corporation, Birmingham, Alabama	Minden Bancshares, Inc., Minden, Louisiana Minden Bank & Trust Company, Minden, Louisiana	Atlanta	November 3, 1999
SNB Holdings, Inc., Slocomb, Alabama	Slocomb National Bank, Slocomb, Alabama	Atlanta	October 25, 1999
State Bank of Cokato Employee Stock Ownership Plan and Trust, Cokato, Minnesota State Bank of Cokato Employee Stock Ownership Plan and Trust II, Cokato, Minnesota	Cokato Bancshares, Inc., Cokato, Minnesota State Bank of Cokato, Cokato, Minnesota	Minneapolis	November 15, 1999
St. Elizabeth Bancshares, Inc., St. Elizabeth, Missouri	Bank of St. Elizabeth, St. Elizabeth, Missouri	St. Louis	November 10, 1999
Team Financial Acquisition Subsidiary, Inc., Paola, Kansas Team Financial, Inc., Paola, Kansas	Team Financial Employees Stock Ownership Plan, Paola, Kansas ComBankshares, Inc Prairie Village, Kansas Community Bank of Chapman, Chapman, Kansas	Kansas City	November 17, 1999
Texas Independent Bancshares, Inc., Texas City, Texas	American Independent Bancshares, Inc., Santa Fe, Texas	Dallas	November 18, 1999
Tompkins Trustco, Inc., Ithaca, New York	Letchworth Independent Bancshares Corporation, Castile, New York The Bank of Castile, Castile, New York The Mahopac National Bank, Mahopac, New York	New York	November 10, 1999
Uwharrie Capital Corp, Albemarle, North Carolina	Anson Bancorp, Inc., Wadesboro, North Carolina	Richmond	October 28, 1999
VIB Corp, El Centro, California	Kings River Bancorp, Reedley, California Kings River State Bank, Reedley, California	San Francisco	November 10, 1999
Westborough Bancorp, M.H.C., Westborough, Massachusetts Westborough Financial Services, Inc., Westborough, Massachusetts	Westborough, Massachusetts	Boston	November 17, 1999
Wilson & Muir Bancorp, Inc., Bardstown, Kentucky	Farmers Bank of Vice Grove, Vine Grove, Kentucky	St. Louis	November 22, 1999

# Section 4

Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date
ANB Bankcorp, Inc., Bristow, Oklahoma	To engage in data processing activities	Kansas City	October 27, 1999
Banco Santander Central Hispano, S.A., Madrid, Spain	To engage <i>de novo</i> in certain leasing activities	New York	October 28, 1999
Bay Banks of Virginia, Inc., Kilmarnock, Virginia	Bay Trust Company, Kilmarnock, Virginia	Richmond	November 8, 1999
BostonFed Bancorp, Inc., Burlington, Massachusetts	Diversified Ventures, Inc., d/b/a Forward Financial Company, Northborough, Massachusetts	Boston	November 5, 1999
Cera Stichting VZW, Leuven, Belgium Cera Beheersmaatschappij NV, Leuven, Belgium	Cera Holding, C.V., Leuven, Belgium Cera Ancora NV, Leuven, Belgium Almanij, N.V., Antwerp, Belgium, KBC Bank & Insurance Holding Company, N.V., Brussels, Belgium KBC Bank, N.V., Brussels, Belgium D.E. Shaw & Co., L.P.,	New York	October 29, 1999
Commerce Bancorp, Inc., Cherry Hill, New Jersey	New York, New York Chester Valley Bancorp, Cherry Hill, New Jersey	Philadelphia	October 28, 1999
Dai-Ichi Kangyo Bank, Limited, Tokyo, Japan	Heller Financial Inc., Chicago, Illinois CIT Group, Inc., New York, New York	San Francisco	November 5, 1999
Eagle Bancshares, Inc., Fairfield, Texas Fairfield Holdings, Fairfield, Texas	Texas Bank, S.S.B., Buffalo, Texas	Dallas	October 25, 1999
First National Banc, Inc., St. Marys, Georgia	First National Insurance Agency, Inc., Woodbine, Georgia	Atlanta	October 21, 1999
GBT Bancorp, Gloucester, Massachusetts	Gloucester Investment Corporation, Gloucester, Massachusetts	Boston	November 12, 1999
Hartford Financial Corporation, Hartford, Alabama	City Insurance and Financial Services, Inc., Hartford, Alabama	Atlanta	November 3, 1999
Hometown Bancorp, Ltd., Fond du Lac, Wisconsin	Hometown Mortgage Services, Inc., Fond du Lac, Wisconsin	Chicago	November 17, 1999
Iowa State Bank Holding Company, Des Moines, Iowa	Capitol Partners, L.C., Des Moines, Iowa	Chicago	November 15, 1999
Larch Bancorporation, Inc., Larchwood, Iowa	To engage <i>de novo</i> in extending credit and servicing loans	Chicago	November 3, 1999
M & F Bancorp, Inc., Holly Springs, Mississippi	Fidelity National Loans, Inc., Holly Springs, Mississippi	St. Louis	November 10, 1999
McCook National Company, McCook, Nebraska	Maplewood Apartments, L.L.C., McCook, Nebraska	Kansas City	November 10, 1999
PAB Bankshares, Inc., Valdosta, Georgia	Baxley Federal Savings Bank, Baxley, Georgia	Atlanta	November 5, 1999
PNC Bank Corp., Pittsburgh, Pennsylvania	First Data Investor Services Group, Inc., Westborough, Massachusetts	Cleveland	November 8, 1999

# Section 4—Continued

Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date
Provident Financial Group, Inc., Cincinnati, Ohio	Fidelity Financial of Ohio, Inc., Cincinnati, Ohio Centennial Bank, Cincinnati, Ohio	Cleveland	November 17, 1999
Provident Financial Group, Inc., Cincinnati, Ohio	OHSL Financial Corporation, Cincinnati, Ohio	Cleveland	October 25, 1999
Sections 3 and 4			
Applicant(s)	Nonbanking Activity/Company	Reserve Bank	Effective Date
Graff Family, Inc., McCook, Nebraska	McCook National Company, McCook, Nebraska The McCook National Bank, McCook, Nebraska Maplewood Apartments, L.L.C., McCook, Nebraska	Kansas City	November 10, 1999
North Central Bancorp, Inc., Norfolk, Nebraska	Bank of Norfolk, Norfolk, Nebraska Columbus Financial Corporation, Columbus, Nebraska Columbus Federal Savings Bank, Columbus, Nebraska	Kansas City	October 27, 1999
The Royal Bank of Scotland Group plc, Edinburgh, Scotland The Royal Bank of Scotland plc, Edinburgh, Scotland	RBSG International Holdings Limited, Edinburgh, Scotland Citizens Financial Group, Inc., Providence, Rhode Island UST Corp., Boston, Massachusetts	Boston	November 19, 1999
South Central Bancshares of Kentucky, Inc., Horse Cave, Kentucky	First Deposit Bancshares, Inc., Tompkinsville, Kentucky Deposit Bank of Monroe County, Tompkinsville, Kentucky South Central Savings Bank, FSB, Edmonton, Kentucky	St. Louis	October 22, 1999

# APPLICATIONS APPROVED UNDER BANK MERGER ACT By the Secretary of the Board

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

Applicant(s)	Bank(s)	Effective Date
AmSouth Bank, Birmingham, Alabama	First American National Bank, Nashville, Tennessee	November 2, 1999
Compass Bank,	Western Bank,	November 5, 1999
Birmingham, Alabama	Albuquerque, New Mexico	

### By Federal Reserve Banks

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

Applicant(s)	Bank(s)	Reserve Bank	Effective Date
The Bank of Orange County,	Security First Bank,	San Francisco	October 27, 1999
Fountain Valley, California	Fullerton, California		
CalWest Bank,	National Business Bank,	San Francisco	October 27, 1999
Downey, California	Torrance, California		
Peapack-Gladstone Bank,	Chatham Savings, FSB,	New York	November 12, 1999
Gladstone, New Jersey	Gladstone, New Jersey		
SunTrust Bank, Atlanta,	STI Capital Management, N.A.,	Atlanta	November 24, 1999
Atlanta, Georgia	Orlando, Florida		
UnionBank/West,	Associated Bank Illinois, NA,	Chicago	November 5, 1999
Macomb, Illinois	Rockford, Illinois		
Valencia Bank & Trust,	First Valley National Bank,	San Francisco	November 16, 1999
Santa Clarita, California	Lancaster, California		
	Valley National Bank, Lancaster,	San Francisco	November 16, 1999
	California		

### 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.

Wasserman v. Federal Reserve Bank, No. 99–6280 (2d Cir., filed August 26, 1999). Appeal of district court dismissal of case challenging refusal by the Board and the Federal Reserve Bank of New York to investigate certain matters.

Artis v. Greenspan, No. 1:99CV02073 (EGS) (D.D.C., filed August 3, 1999). Employment discrimination action.

Sheriff Gerry Ali v. U.S. State Department, No. 99–7438 (C.D. Cal., filed July 21, 1999). Action relating to impounded bank drafts.

Sedgwick v. Board of Governors, No. Civ 99 0702 (D. Arizona, filed April 14, 1999). Action under Federal Tort Claims Act alleging violation of bank supervision requirements. The Board filed a motion to dismiss on June 15, 1999.

Hunter v. Board of Governors, No. 1:98CV02994 (TFH) (D.D.C., filed December 9, 1998). Action under the Freedom of Information Act and the Privacy Act. The Board filed a motion to dismiss or for summary judgment on July 22, 1999.

Folstad v. Board of Governors, No. 1:99 CV 124 (W.D. Mich., filed February 17, 1999). Freedom of Information Act complaint. On November 16, 1999, the district court granted the Board's motion for summary judgment and dismissed the action.

Nelson v. Greenspan, No. 1:99CV00215 (EGS) (D.D.C., filed January 28, 1999). Employment discrimination complaint.On March 29, 1999, the Board filed a motion to dismiss the action.

Fraternal Order of Police v. Board of Governors, No. 1:98CV03116 (WBB)(D.D.C., filed December 22, 1998). Declaratory judgment action challenging Board labor practices. On February 26, 1999, the Board filed a motion to dismiss the action.

Independent Community Bankers of America v. Board of Governors, No. 98- 1482 (D.C. Cir., filed October 21, 1998). Petition for review of a Board order dated September 23, 1998, conditionally approving the applications of Travelers Group, Inc., New York, New York, to become a bank holding company by acquiring Citicorp, New York, New York, and its bank and nonbank subsidiaries. On November 2, 1999, the court affirmed the Board's order.

Board of Governors v. Carrasco, No. 98 Civ. 3474 (LAK) (S.D.N.Y., filed May 15, 1998). Action to freeze assets of individual pending administrative adjudication of civil money penalty assessment by the Board. On May 26, 1998, the court issued a preliminary injunction restraining the transfer or disposition of the individual's assets and appointing the Federal Reserve Bank of New York as receiver for those assets.

Board of Governors v. Pharaon, No. 98–6101 (2d Cir., filed May 4, 1998). Appeal and cross-appeal of district court order granting in part and denying in part the Board's motion for summary judgment seeking prejudgment interest and a statutory surcharge in connection with a civil money penalty assessed by the Board. On February 24, 1999, the court granted the Board's appeal and denied the cross-appeal, and remanded the matter to the district court for determination of prejudgment interest due to the Board.

Fenili v. Davidson, No. C-98-01568-CW (N.D. California, filed April 17, 1998). Tort and constitutional claim arising

out of return of a check. On June 5, 1998, the Board filed its motion to dismiss.

Goldman v. Department of the Treasury, No. 98–9451 (11th Circuit, filed November 10, 1998). Appeal from a District Court order dismissing an action challenging Federal Reserve notes as lawful money.

Kerr v. Department of the Treasury, No. CV-S-97-01877-DWH (D. Nev., filed December 22, 1997). Challenge to income taxation and Federal Reserve notes. On September 3, 1998, a motion to dismiss was filed on behalf of all federal defendants. The court dismissed the action on March 31, 1999, and on April 28, 1999, the plaintiff filed a notice of appeal.

Bettersworth v. Board of Governors, No. 97-CA-624 (W.D. Tex., filed August 21, 1997). Privacy Act case. On June 1, 1999, the Board filed a motion for summary judgment.

# FINAL ENFORCEMENT ORDERS ISSUED BY THE BOARD OF GOVERNORS

Robert and Adele Barber Cooper City, Florida

The Federal Reserve Board announced on November 16, 1999, the issuance of a consent Order against Robert and Adele Barber, both institution- affiliated parties of the First Western Bank, Cooper City, Florida, a state member bank.

Matthew J. Callahan Cooper City, Florida

The Federal Reserve Board announced on November 16, 1999, the issuance of a consent Order against Matthew J. Callahan, an institution- affiliated party of the First Western Bank, Cooper City, Florida, a state member bank.

Bertram Smith Cooper City, Florida

The Federal Reserve Board announced on November 16, 1999, the issuance of a consent Order against Bertram Smith, an institution-affiliated party of the First Western Bank, Cooper City, Florida, a state member bank.

#### TERMINATION OF ENFORCEMENT ACTIONS

The Federal Reserve Board announced on November 16, 1999, the termination of the following enforcement actions:

Mercantile Capital Corp. Boston, Massachusetts

Written agreement dated January 26, 1996; terminated August 23, 1999.

Adairsville Bancshares, Inc., and Bank of Adairsville
Adairsville, Georgia

Written agreement dated December 10, 1998; terminated September 8, 1999.

PanAmerican Bank Coconut Grove, Florida

Cease and Desist Order dated march 4, 1998; terminated September 29, 1999.

California Center Bank Los Angeles, California

Cease and Desist Order dated October 4, 1994; terminated October 15, 1999.

WRITTEN AGREEMENTS APPROVED BY FEDERAL RESERVE BANKS

Heritage Bancorp Company, Inc. Cleveland, Oklahoma

The Federal Reserve Board announced on November 16, 1999, the execution of a Written Agreement by and among Heritage Bancorp Company, Inc., Cleveland, Oklahoma; the First Bank of Cleveland, Cleveland, Oklahoma; the Federal Reserve Bank of Kansas City; and the Oklahoma State Banking Department.

# Financial and Business Statistics

۸2	CHIDETO	TADITAD	<b>PRESENTATION</b>
A.3	GUIDE TO	IABULAR	PRESENTATION

## DOMESTIC FINANCIAL STATISTICS

# Money Stock and Bank Credit

- A4 Reserves, money stock, and debt measures
- A5 Reserves of depository institutions and Reserve Bank credit
- A6 Reserves and borrowings—Depository institutions

# 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
- A11 Maturity distribution of loan and security holding

#### Monetary and Credit Aggregates

- A12 Aggregate reserves of depository institutions and monetary base
- A13 Money stock and debt measures

# Commercial Banking Institutions— Assets and Liabilities

- A15 All commercial banks in the United States
- A16 Domestically chartered commercial banks
- A17 Large domestically chartered commercial banks
- A19 Small domestically chartered commercial banks
- A20 Foreign-related institutions

#### Financial Markets

- A22 Commercial paper and bankers dollar acceptances outstanding
- A22 Prime rate charged by banks on short-term business loans
- A23 Interest rates—Money and capital markets
- A24 Stock market—Selected statistics

#### Federal Finance

- A25 Federal fiscal and financing operations
- A26 U.S. budget receipts and outlays
- A27 Federal debt subject to statutory limitation

# Federal Finance—Continued

- A27 Gross public debt of U.S. Treasury— Types and ownership
- A28 U.S. government securities dealers—Transactions
- A29 U.S. government securities dealers— Positions and financing
- A30 Federal and federally sponsored credit agencies—Debt outstanding

## Securities Markets and Corporate Finance

- A31 New security issues—Tax-exempt state and local governments and corporations
- A32 Open-end investment companies—Net sales and assets
- A32 Corporate profits and their distribution
- A32 Domestic finance companies—Assets and liabilities
- A33 Domestic finance companies—Owned and managed receivables

#### Real Estate

- A34 Mortgage markets—New homes
- A35 Mortgage debt outstanding

#### Consumer Credit

- A36 Total outstanding
- A36 Terms

# Flow of Funds

- A37 Funds raised in U.S. credit markets
- A39 Summary of financial transactions
- A40 Summary of credit market debt outstanding
- A41 Summary of financial assets and liabilities

#### DOMESTIC NONFINANCIAL STATISTICS

#### Selected Measures

- A42 Nonfinancial business activity
- A42 Labor force, employment, and unemployment
- A43 Output, capacity, and capacity utilization
- A44 Industrial production—Indexes and gross value
- A46 Housing and construction
- A47 Consumer and producer prices
- A48 Gross domestic product and income
- A49 Personal income and saving

#### INTERNATIONAL STATISTICS

# Summary Statistics

- A50 U.S. international transactions
- A51 U.S. foreign trade
- A51 U.S. reserve assets
- A51 Foreign official assets held at Federal Reserve
- A52 Selected U.S. liabilities to foreign official institutions

# Reported by Banks in the United States

- A52 Liabilities to, and claims on, foreigners
- A53 Liabilities to foreigners
- A55 Banks' own claims on foreigners
- A56 Banks' own and domestic customers' claims on foreigners
- A56 Banks' own claims on unaffiliated foreigners
- A57 Claims on foreign countries—Combined domestic offices and foreign branches

# Reported by Nonbanking Business Enterprises in the United States

- A58 Liabilities to unaffiliated foreigners
- A59 Claims on unaffiliated foreigners

# Securities Holdings and Transactions

- A60 Foreign transactions in securities
- A61 Marketable U.S. Treasury bonds and notes-Foreign transactions

# Interest and Exchange Rates

- A62 Foreign exchange rates
- A63 GUIDE TO STATISTICAL RELEASES AND SPECIAL TABLES

#### SPECIAL TABLES

A64 Pro forma balance sheet and income statements for priced services operations, September 30, 1999

# A66 INDEX TO SPECIAL TABLES

# Guide to Tabular Presentation

# SYMBOLS AND ABBREVIATIONS

c	Corrected	GNMA	Government National Mortgage Association
e	Estimated	GDP	Gross domestic product
n.a.	Not available	HUD	Department of Housing and Urban
p	Preliminary		Development
r	Revised (Notation appears on column heading	IMF	International Monetary Fund
	when about half of the figures in that column	10	Interest only
	are changed.)	IPCs	Individuals, partnerships, and corporations
*	Amounts insignificant in terms of the last decimal	IRA	Individual retirement account
	place shown in the table (for example, less than	MMDA	Money market deposit account
	500,000 when the smallest unit given is millions)	MSA	Metropolitan statistical area
0	Calculated to be zero	NOW	Negotiable order of withdrawal
	Cell not applicable	OCD	Other checkable deposit
ATS	Automatic transfer service	OPEC	Organization of Petroleum Exporting Countries
BIF	Bank insurance fund	OTS	Office of Thrift Supervision
CD	Certificate of deposit	PMI	Private mortgage insurance
CMO	Collateralized mortgage obligation	PO	Principal only
CRA	Community Reinvestment Act of 1977	REIT	Real estate investment trust
FFB	Federal Financing Bank	REMIC	Real estate mortgage investment conduit
FHA	Federal Housing Administration	RHS	Rural Housing Service
FHLBB	Federal Home Loan Bank Board	RP	Repurchase agreement
FHLMC	Federal Home Loan Mortgage Corporation	RTC	Resolution Trust Corporation
FmHA	Farmers Home Administration	SCO	Securitized credit obligation
FNMA	Federal National Mortgage Association	SDR	Special drawing right
FSLIC	Federal Savings and Loan Insurance Corporation	SIC	Standard Industrial Classification
G-7	Group of Seven	VA	Department of Veterans Affairs
G-10	Group of Ten		

# GENERAL INFORMATION

In many of the tables, components do not sum to totals because of rounding.

Minus signs are used to indicate (1) a decrease, (2) a negative figure, or (3) an outflow.

"U.S. government securities" may include guaranteed issues of U.S. government agencies (the flow of funds figures also

include not fully guaranteed issues) as well as direct obligations of the Treasury.

"State and local government" also includes municipalities, special districts, and other political subdivisions.

#### RESERVES, MONEY STOCK, AND DEBT MEASURES

Percent annual rate of change, seasonally adjusted1

					Γ	-			
Mark and a series	1998		1999				1999		
Monetary or credit aggregate	Q4	Q1	Q2	Q3 <sup>r</sup>	June	July <sup>r</sup>	Aug.r	Sept. <sup>r</sup>	Oct.
Reserves of depository institutions <sup>2</sup> 1 Total	-1.8	-1.2	-6.6	-15.4	-40.4	-24.9	2.5	1.3	-33.3
	-2.5	1.0	-5.6	-15.0	-41.7	-20.3	1.1	6	-33.0
	6	-1.3	-6.7	-17.1	-41.0	-29.6	1.6	1.5	-31.9
	8.7	9 1	10.1	8.5	6.2	8.0	7.1	11.3	16.5
Concepts of money and debt <sup>4</sup> 5 M1. 6 M2. 7 M3. 8 Debt	5.0	2.8	3.5	-2.3	-4.0	-1.7	3.2	-9.8	5.5
	11.0	7.2	5.7 <sup>1</sup>	5.2	4.3°	5.5	5.7	4.9	5.0
	12.9	7.6	5.8 <sup>1</sup>	5.7	6.4°	5.1	5.2	6.7	10.3
	6.3	6.6	6.8	5.7	5.4	5.3	6.2	6.5	n.a.
Nontransaction components 9 In M2 <sup>5</sup>	13.0	8.7	6.4	7.6	7.1 <sup>r</sup>	7.9	6.4	9.5	4.8
	18.4	8.6	5.9	7.1	11.9	4.1	4.0	11.5	24.9
Time and savings deposits	17.6	11.6	9.7	11.7	12.1	14.0	8.0	14.4	4.2
	.3	-5.5	-3.3	1.3	-2.0	1.2	3.3	7.4	6.6
	3.8	3	-3.2	7.2	-7.4	21.3	5.1	28.6	62.4
	10.1	12.8	14.6	15.0	18.5	19.0	4.2	4.5	-3.9
	-6.7	-6.5	-7.9	-5.1	-14.4	-4.6	1.2	3.5	4.6
	10.4	7.6	-7.0	4.1	-1.4	10.9	5.4	10.8	-8.0
Money market mutual funds 17 Retail 18 Institution-only	28.5	20.5	10.7 <sup>r</sup>	6.9	8.7 <sup>r</sup>	1.9	9.9	8.7	9.6
	41.8	17.9	14.5	7.5	7.7	-4.6	22.9	6.3	25.1
Repurchase agreements and Eurodollars 19 Repurchase agreements 10 20 Eurodollars 10	18.9	14.1	-2.7	15.3	53.2	-,4	6.2	-1.9	-12.0
	3.2	8	32.0	-7.2	22.5	-17.8	-32.6	7	-14.9
Debt components <sup>4</sup> 21 Federal	-2.8	-3.1	-2.3	3	.3	1.4	1.0	-4.2	n.a.
	9.2	9.5 <sup>r</sup>	9.5	7.4	6.9 <sup>r</sup>	6.4	7.6	9.5	n.a.

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

2. Figures incorporate adjustments for discontinuities, or "breaks," associated with regulatory changes in reserve requirements. (See also table 1.20.)

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

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

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

M1: (1) currency outside the U.S. 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 owed to depository institutions, the U.S. government, and foreign banks and official institutions, less cash items in the process of collection and Federal Reserve float, and (4) other checkable deposits (OCDs), consisting of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institutions, credit union share draft accounts, and demand deposits at thrift institutions. Seasonally adjusted M1 is computed by summing currency, travelers checks, demand deposits, and OCDs, each seasonally adjusted separately.

adjusted M1 is computed by summing currency, travelers checks, demand deposits, and OCDs, each seasonally adjusted separately.

M2: M1 plus (1) savings (including MMDAs), (2) small-denomination time deposits (time deposits—including retail RPs—in amounts of less than \$100,000), and (3) balances in retail money market mutual funds. Excludes individual retirement accounts (IRAs) and Keogh balances at depository institutions and money market funds. Seasonally adjusted M2 is calculated by summing savings deposits, small-denomination time deposits, and retail money fund balances, each seasonally adjusted ds separately, and adding this result to seasonally adjusted M2 is result to seasonally adjusted separately.

adjusted M1.

M3: M2 plus (1) large-denomination time deposits (in amounts of \$100,000 or more), (2) balances in institutional money funds, (3) RP liabilities (overnight and term) issued by all

depository institutions, and (4) Eurodollars (overnight and term) held by U.S. residents at foreign branches of U.S. banks worldwide and at all banking offices in the United Kingdom and Canada Excludes amounts held by depository institutions, the U.S. government, money market funds, and foreign banks and official institutions. Seasonally adjusted M3 is calculated by summing large time deposits, institutional money fund balances, RP liabilities, and Eurodollars, each seasonally adjusted separately, and adding this result to seasonally

adjusted M2.

Debt: The debt aggregate is the outstanding credit market debt of the domestic nonfinancial sectors—the federal sector (U.S. government, not including government-sponsored enter-prises or federally related mortgage pools) and the nonfederal sectors (state and local governments, households and nonprofit organizations, nonfinancial corporate and nonfarm noncorporate businesses, and farms). Nonfederal debt consists of mortgages, tax-exempt and corporate bonds, consumer credit, bank loans, commercial paper, and other loans. The data, which are derived from the Federal Reserve Board's flow of funds accounts, are breakadjusted (that is, discontinuities in the data have been smoothed into the series) and month-averaged (that is, the data have been derived by averaging adjacent month-end levels).

5. Sum of (1) savings deposits (including MMDAs), (2) small time deposits, and (3) retail money fund balances, each seasonally adjusted separately.

6. Sum of (1) large time deposits. (2) institutional money fund balances, (3) RP habilities

(overnight and term) issued by depository institutions unley future darties, (o's matchines (overnight and term) issued by depository institutions, and (4) Eurodollars (overnight and term) of U.S. addressees, each seasonally adjusted separately.

7. Small time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All IRA and Keogh account balances at commercial banks and thrift institutions

are subtracted from small time deposits.

8. Large time deposits are those issued in amounts of \$100,000 or more, excluding those

booked at international banking facilities.

9. Large time deposits at commercial banks less those held by money market funds, depository institutions, the U.S. government, and foreign banks and official institutions.

10. Includes both overnight and term.

# 1.11 RESERVES OF DEPOSITORY INSTITUTIONS AND RESERVE BANK CREDIT 1

Millions of dollars

		Average of daily figures			Average	of daily figure	s for week er	nding on date	indicated	
Factor		1999				_	1999			
	Aug.	Sept.	Oct.	Sept. 15	Sept. 22	Sept. 29	Oct. 6	Oct. 13	Oct. 20	Oct. 27
SUPPLYING RESERVE FUNDS										
1 Reserve Bank credit outstanding	528,020	536,558	542,985	534,616	538,420	537,386	539,721	541,218	544,464	543,573
2 Bought outright—System account <sup>3</sup> Held under repurchase agreements Federal agency obligations	487,746 1,296	490,477 2,373	490,849 428	490,649 1,268	491,006 1,938	489,966 2,871	490,373 2,981	491,044 0	490,907 0	490.711
4 Bought outright 5 Held under repurchase agreements 6 Repurchase agreements—triparty <sup>4</sup> 7 Acceptances	247	238	206	238	238	238	229	219	198	194
	4,751	9,515	1,916	8.224	11.155	9,728	10,548	0	0	0
	n.a.	n.a.	14,248	n.a.	n.a.	n.a.	573	14,659	18,123	17,061
Loans to depository institutions  Adjustment credit	0 84	0 57	0 35	0 23	0 72	0 101	0 82	0 26	15	40
9 Seasonal credit	273	283	224	268	283	304	283	263	224	191
10 Special Liquidity Facility credit	0	0	3	0	0	0	1	0		7
11 Extended credit	430 430	288 22.229	0 482	0 948 32,998	0 153	0 199 33,979	0 527 34,124	781	0 553 34,444	0 324 35,047
13 Other Federal Reserve assets	33,193 11,047	33,328 11,046	34,594 11,050	11,046	33,575 11,046	11,048	11,050	34,225 11,051	11,050	11,050
15 Special drawing rights certificate account	8,200	7,667	7,200	8,057	7,200	7,200	7,200	7,200	7,200	7,200
	27,231	27,381	27,483	27,367	27,397	27,427	27,457	27,471	27,485	27,499
ABSORBING RESERVE FUNDS										
17 Currency in circulation 18 Reverse repurchase agreements—triparty <sup>4</sup> 19 Treasury cash holdings Deposits, other than reserve balances, with	536,083	542,365	550,878	542,626	542,578	542,567	545,124	549,897	551,630	553,185
	n.a.	n.a.	0	n.a.	n.a.	n.a.	0	0	0	0
	69	89	94	87	86	93	93	97	94	92
Federal Reserve Banks 20 Treasury	5,076	6,389	5,179	5,480	7,512	7,403	5,457	5,235	5,421	5,206
	196	226	182	229	265	218	167	202	187	180
22 Service-related balances and adjustments 23 Other	7,020	7,100	7,165	7,119	6,924	7,323	7,392	7,080	7,097	7,062
	274	248	278	269	248	223	271	319	291	260
24 Other Federal Reserve liabilities and capital 25 Reserve balances with Federal Reserve Banks <sup>5</sup>	18,110	18,524	18,362	18,245	18,601	18,606	18,801	18,195	18,332	18,242
	7,669	7,712	6,580	7,031	7,849	6,627	8,123	5,916	7,146	5,095
	End	-of-month fig	ures			W	ednesday figu	res		
	Aug.	Sept.	Oct.	Sept. 15	Sept. 22	Sept. 29	Oct. 6	Oct. 13	Oct. 20	Oct. 27
SUPPLYING RESERVE FUNDS										
1 Reserve Bank credit outstanding	534,796	546,150	548,919	540,481	544,833	543,003	540,266	544,224	550,310	548,132
2 Bought outright—System account <sup>3</sup>	490,198	489,037	490,738	491,129	491,054	491,019	491,266	491,282	491,367	492,051
	2,575	7,607	0	1,335	4,893	5,220	2,160	0	0	0
4 Bought outright 5 Held under repurchase agreements 6 Repurchase agreements—triparty <sup>4</sup> 7 Acceptances	238	238	188	238	238	238	228	198	198	188
	9,195	14,456	0	13,040	14,877	11,183	7,110	0	0	0
	n.a.	n.a.	22,560	n.a.	n.a.	n.a.	4,011	15,520	23.550	20.065
	0	0	0	0	0	0	0	0	0	0
Loans to depository institutions  Adjustment credit  Seasonal credit	53	179	41	28	132	105	142	16	14	27
	285	300	123	278	287	313	272	245	209	174
10 Special Liquidity Facility credit	0 0	0	10 0	0	0	0	5 0	0	6	10 0
12 Float	-291	65	-297	1,241	-504	583	869	2,543	353	277
	32,544	34,268	35,556	33,192	33,857	34,342	34,203	34,420	34,614	35,340
Gold stock     Special drawing rights certificate account	11,045	11,047	11,049	11,046	11,048	11,048	11,050	11,051	11,050	11,050
	8,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200
	27,298	27,457	27,513	27,367	27,397	27,427	27,457	27,471	27,485	27,499
ABSORBING RESERVE FUNDS										
17 Currency in circulation 18 Reverse repurchase agreements—triparty <sup>4</sup> 19 Treasury cash holdings Deposits, other than reserve balances, with	538,466	544,101	555,597	543,515	543,220	544,246	547,759	551,615	553,003	555,537
	n.a.	n.a.	0	n.a.	n.a.	n.a.	0	0	0	0
	84	93	94	85	93	93	97	95	92	94
Federal Reserve Banks 20 Treasury	5,559	6,641	4,527	10,128	7,721	8,232	5,259	4,948	4,925	4,363
	166	243	189	242	161	191	178	284	167	172
22 Service-related balances and adjustments 23 Other	6,919	7,392	7,276	7,119	6,924	7,324	7,392	7,080	7,097 <sup>t</sup>	7,062
	225	191	202	256	244	191	274	270	311	223
<ul> <li>Other Federal Reserve liabilities and capital</li> <li>Reserve balances with Federal Reserve Banks<sup>5</sup></li> </ul>	18,728	19,105	18,401	18,108	18,552	18,485	18,380	17,775	17,991	17,951
	11,194	14,088	8,395	6,641	13,563	9,916	6,634	7.879	12,459 <sup>r</sup>	8,479

<sup>1.</sup> Amounts of cash held as reserves are shown in table 1.12, line 2.
2. Includes securities loaned—fully guaranteed by U.S. government securities pledged with Federal Reserve Banks—and excludes securities sold and scheduled to be bought back under matched sale—purchase transactions.
3. Includes compensation that adjusts for the effects of inflation on the principal of inflation-indexed securities.

Cash value of agreements arranged through third-party custodial banks. These agreements are collateralized by U.S. government and federal agency securities.
 Excludes required clearing balances and adjustments to compensate for float.

#### Domestic Financial Statistics ☐ January 2000 **A6**

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

Millions of dollars

			_	Prorated m	onthly averag	es of biweek	ly averages			
Reserve classification	1996	1997	1998				1999			
	Dec.	Dec.	Dec.	Apr.	May	June	July	Aug.	Sept.	Oct.
1 Reserve balances with Reserve Banks <sup>2</sup> 2 Total vault cash. 3 Applied vault cash. 4 Surplus vault cash. 5 Total reserves. 6 Required reserves. 7 Excess reserve balances at Reserve Banks. 8 Total borrowing at Reserve Banks. 9 Adjustment. 10 Seasonal. 11 Special Liquidity Facility. 12 Extended credit.	13,330 44,525 37,844 6,681 51,174 49,758 1,416 155 87 68 n.a.	10,664 44,740 37,255 7,485 47,920 46,235 1,685 324 245 79 n.a. 0	9,021 44,305 35,997 8,308 45,018 43,435 1,583 117 101 15 n.a.	9,238 42,164 34,407 7,757 43,645 42,486 1,159 166 128 39 n.a. 0	10,070 42,459 34,805 7,654 44,875 43,619 1,256 127 39 89 n.a.	8,539 42,632 33,856 8,776 42,394 41,133 1,261 145 18 127 n.a. 0	7,797 44,059 34,005 10,054 41,802 40,726 1.076 309 83 226 n.a. 0	7,802 44,664 34,069 10,595 41,871 40,742 1,129 344 72 271 n.a. 0	7,698 44,519 34,089 10,430 41,787 40,590 1,197 338 56 282 n.a. 0	6,769' 47,019 33,933 13,086 40,702f 39,548f 1,154f 281 52 221 8 0
		В	iweekly avera	ages of daily	figures for tw	o week perio	ds ending on	dates indicate	ed	
					1	999		r <del>-</del>		
	June 30	July 14	July 28	Aug. 11	Aug. 25	Sept. 8	Sept. 22	Oct. 6	Oct. 20	Nov. 3
Reserve balances with Reserve Banks <sup>2</sup> .  Total vault cash <sup>4</sup> .  Applied vault cash <sup>4</sup> .  Surplus vault cash <sup>5</sup> .  Total reserves <sup>8</sup> .  Required reserves  Excess reserve balances at Reserve Banks <sup>7</sup> .  Total borrowing at Reserve Banks  Adjustment.  Seasonal.  Seasonal.  Extended credit <sup>8</sup> .	8,309 43,426 34,062 9,365 42,371 41,027 1,343 180 23 158 n.a. 0	7,526 44,019 33,788 10,231 41,314 40,303 1,011 331 136 196 n.a.	8,041 43,899 34,198 9,702 42,238 41,098 1,140 266 17 249 n.a.	7,923 44,994 34,123 10,871 42,046 40,967 1,078 409 146 263 n.a. 0	7,421 44,786 34,003 10,783 41,423 40,289 1,134 304 31 273 n.a.	8,470 43,774 34,126 9,648 42,596 41,388 1,207 318 35 284 n.a.	7,440 44,556 34,327 10,229 41,766 40,744 1,022 323 48 276 n.a.	7,380 45,199 33,636 11,563 41,016 39,524 1,491 385 91 294 1	6,544 47,350 33,998 13,352 40,542 39,408 1,133 265 21 244 1	6,722 <sup>r</sup> 47,593 34,013 13,580 40,735 <sup>r</sup> 39,740 <sup>r</sup> 995 <sup>r</sup> 246 72 153 22 0

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

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

  8. Borrowing at the discount window under the terms and conditions established for the Century Date Change Special Liquidity Facility in effect from October 1, 1999 through April 7, 2000.

  9. Consists of borrowing at the discount who we under the terms and conditions established the second of the control of
- lished 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 with traditional short-term adjustment credit, the money market effect of extended credit is similar to that of nonborrowed reserves.

<sup>1.</sup> Data in this table also appear in the Board's H.3 (502) weekly statistical release. For ordering address, see inside front cover. Data are not break-adjusted or seasonally adjusted.

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

3. Vault cash eligible to satisfy reserve requirements. It includes only vault cash held by those banks and thrift institutions that are not exempt from reserve requirements. Dates refer to the maintenance periods in which the vault cash can be used to satisfy reserve requirements.

ments.

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

#### 1.14 FEDERAL RESERVE BANK INTEREST RATES

Percent per year

#### Current and previous levels

F 1 1 1 P	Adjustment credit <sup>1</sup>			5	Seasonal credit	2	E	Extended credit	t <sup>3</sup>	Special Liquidity Facility credit <sup>4</sup>			
Federal Reserve Bank	On 12/10/99	Effective date	Previous rate	On 12/10/99	Effective date	Previous rate	On 12/10/99	Effective date	Previous rate	On 12/10/99	Effective date	Previous rate	
Boston	5.00	11/16/99 11/18/99 11/18/99 11/16/99 11/16/99 11/17/99	4.75	5.75	12/2/99	5.65	6.25	12/2/99	6.15	7.00	11/16/99	6.75	
Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	5.00	11/18/99 11/18/99 11/18/99 11/16/99 11/17/99 11/16/99	4.75	5.75	12/2/99	5.65	6.25	12/2/99	6.15	7.90	11/16/99	6.75	

Range of rates for adjustment credit in recent years

Effective date	Range (or level)—All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)—All F.R. Banks	F.R. Bank of N.Y.	Effective date	Range (or level)—All F.R. Banks	F.R. Bank of N.Y.
In effect Dec. 31, 1977	6	6	1982—July 20	11.5–12 11.5	11.5 11.5	1990—Dec. 19	6.5	6.5
1978—Jan. 9	6-6.5	6.5	Aug. 2	11-11.5	11	1991—Feb. 1	6-6.5	6
20	6.5	6.5	3	11	11	4	6	6
May 11	6.5-7	7	16	10.5	10.5	Apr. 30	5.5–6	5.5
12	7	7	27	10-10.5	10	May 2	5.5	5.5
July 3	7-7.25	7.25	30	10	10	Sept. 13	5-5.5	5
10	7.25	7.25	Oct. 12	9.5-10	9.5	17	5	5
Aug. 21	7.75	7.75	13	9.5	9.5	Nov. 6	4.5-5	4.5
Sept. 22	8	8	Nov. 22	9-9.5	9	7	4.5	4.5
Oct. 16	8-8.5	8.5	26	9	9	Dec. 20	3.5-4.5	3.5
20	8.5	8.5	Dec. 14	8.5-9	9	24	3.5	3.5
Nov. 1	8.5-9.5	9.5	15	8.5-9	8.5			
3	9.5	9.5	17	8.5	8.5	1992—July 2	3–3.5 3	3
1979—July 20	10	10	1984—Apr. 9	8.5-9	9	(		
Aug. 17	10-10.5	10.5	13	9	9	1994—May 17	3-3.5	3.5
20	10.5	10.5	Nov. 21	8.5-9	8.5	18	3.5	3.5
Sept. 19	10.5-11	11	26	8.5	8.5	Aug. 16	3.5-4	4
21	11	11	Dec. 24	8	8	18	4	4
Oct. 8	11–12	12				Nov. 15	4-4.75	4.75
10	12	12	1985—May 20	7.5–8	7.5	17	4.75	4.75
			24	7.5	7.5			
1980—Feb. 15	12-13	13			_	1995—Feb. 1	4.75-5.25	5.25
19	13	13	1986—Mar. 7	7–7.5	7	9	5.25	5.25
May 29	12–13	13	10	7	7			
30	12	12	Apr. 21	6.5–7	6.5	1996—Jan. 31	5.00-5.25	5.00
June 13	11–12	11	23	6.5	6.5	Feb. 5	5.00	5.00
16	11	11	July 11	6	6	1000 0 15	4.55 5.00	
July 28	10–11	10	Aug. 21	5.5-6	5.5	1998Oct. 15	4.75-5.00	4.75
29	10	10	22	5.5	5.5	16	4.75	4.75
Sept. 26	11	11			_	Nov. 17	4.50-4.75	4.50
Nov. 17	12	12	1987—Sept. 4	5.5–6	6	19	4.50	4.50
Dec. 5	12-13	13	11	6	6	1000 4 24	1 50 175	4.75
8	13	13	1,,,,,			1999Aug. 24	4.50-4.75 4.75	4.75 4.75
1981—May 5	13–14	14 14	1988—Aug. 9	6–6.5	6.5	26	4.75 4.75–5.00	4.75
8	12.14		11	6.5	6.5	Nov. 16	5.00	5.00
Nov. 2	13–14	13 13	1000 F.I. 24	6.5-7	7	18	3.00	3.00
6	13 12	13	1989—Feb. 24	0.5-/	4	In effect Dec. 10, 1999	5.00	5.00
Dec. 4	1.4	1 12	41		1 /	I III СПССІ DCC, IU, 1999	2.00	1 3.00

<sup>1.</sup> Available on a short-term basis to help depository institutions meet temporary needs for funds that cannot be met through reasonable alternative sources. The highest rate established for loans to depository institutions may be charged on adjustment credit loans of unusual size that result from a major operating problem at the borrower's facility.

2. Available to help relatively small depository institutions meet regular seasonal needs for funds that arise from a clear pattern of intrayearly movements in their deposits and loans and

ordinarily is reestablished on the first business day of each two-week reserve maintenance period, but it is never less than the discount rate applicable to adjustment credit plus 50 basis points.

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. A surcharge of 2 percent was reimposed on Nov. 17, 1980; the surcharge was subsequently raised to 3 percent on Dec. 5, 1980, and to 4 percent on May 5, 1981. The surcharge was reduced to 3 percent effective Sept. 22, 1981, and to 2 percent effective Oct. 12, 1981. As of Oct. 1, 1981, the formula for applying the surcharge was changed from a calendar quarter to a moving thirteen-week period. The surcharge was eliminated on Nov. 17, 1981. In 1980 and 1981, the Federal Reserve applied a surcharge to short-term adjustment-credit

that cannot be met through special industry lenders. The discount rate on seasonal credit takes into account rates charged by market sources of funds and ordinarily is reestablished on the first business day of each two-week reserve maintenance period; however, it is never less than

first business day of each two-week reserve maintenance period; however, it is never less than the discount rate applicable to adjustment credit.

3. May be made available to depository institutions when similar assistance is not reasonably available from other sources, including special industry lenders. Such credit may be provided when exceptional circumstances (including sustained deposit drains, impaired access to money market funds, or sudden deterioration in loan repayment performance) or practices involve only a particular institution, or to meet the needs of institutions experiencing difficulties adjusting to changing market conditions over a longer period (particularly at times of deposit disintermediation). The discount rate applicable to adjustment credit ordinarily is charged on extended-credit loans outstanding less than thirty days; however, at the discretion of the Federal Reserve Bank, this time period may be shortened. Beyond this initial period, a flexible rate somewhat above rates charged on market sources of funds is charged. The rate

<sup>4.</sup> Available in the period between October 1, 1999, and April 7, 2000, to help depository institutions in sound financial condition meet unusual needs for funds in the period around the century date change. The interest rate on loans from the special facility is the Federal Open Market Committee's intended federal funds rate plus 150 basis points.
5. For earlier data, see the following publications of the Board of Governors: Banking and Monetary Statistics, 1914–1941, and 1941–1970; and the Annual Statistical Digest, 1970–

#### RESERVE REQUIREMENTS OF DEPOSITORY INSTITUTIONS<sup>1</sup> 1.15

	Requirement				
Type of deposit	Percentage of deposits	Effective date			
Net transaction accounts <sup>2</sup> 1 \$0 million-\$44.3 million <sup>3</sup> 2 More than \$44.3 million <sup>4</sup>	3 10	12/30/99 12/30/99			
3 Nonpersonal time deposits <sup>5</sup>	0	12/27/90			
4 Eurocurrency liabilities <sup>6</sup>	0	12/27/90			

1. Required reserves must be held in the form of deposits with Federal Reserve Banks 1. Required reserves must be held in the form of deposits with Federal Reserve Banks or vault cash. Nonmember institutions may maintain reserve balances with a Federal Reserve Bank indirectly, on a pass-through basis, with certain approved institutions. For previous reserve requirements, see earlier editions of the Annual Report or the Federal Reserve Bulletin. Under the Monetary Control Act of 1980, depository institutions include commercial banks, savings banks, savings and loan associations, credit unions, agencies and branches of foreign banks, and Edge Act corporations.

2. Transaction accounts include all deposits against which the account holder is permitted to make withdrawals by negotiable or transferable instruments, payment orders of withdrawal, or telephone or preauthorized transfers for the purpose of making payments to third persons or others. However, accounts subject to the rules that permit no more than six preauthorized, automatic, or other transfers per month (of which no more than three may be by check, draft, debit card, or similar order payable directly to third parties) are savings deposits, not transaction accounts.

deposits, not transaction accounts.

3. The Monetary Control Act

deposits, not transaction accounts.

3. The Monetary Control Act of 1980 requires that the amount of transaction accounts against which the 3 percent reserve requirement applies be modified annually by 80 percent of the percentage change in transaction accounts held by all depository institutions, determined as of June 30 of each year. Effective with the reserve maintenance period beginning December 30, 1999, for depository institutions that report weekly, and with the period beginning January 20, 2000, for institutions that report quarterly, the amount was decreased from \$46.5 million to \$44.3 million.

Under the Garn-St Germain Depository Institutions Act of 1982, the Board adjusts the property of the period beginning than the period beginning that the period beginning than the period beginning that the period beginning than the period beginning that the period

amount of reservable liabilities subject to a zero percent reserve requirement each year for the

succeeding calendar year by 80 percent of the percentage increase in the total reservable liabilities of all depository institutions, measured on an annual basis as of June 30. No corresponding adjustment is made in the event of a decrease. The exemption applies only to corresponding audistinent is made in the event of a decrease. The exemption applies only of accounts that would be subject to a 3 percent reserve requirement. Effective with the reserve maintenance period beginning December 30, 1999, for depository institutions that report weekly, and with the period beginning January 20, 2000, for institutions that report quarterly, the exemption was raised from \$4.9 million to \$5.0 million.

4. The reserve requirement was reduced from 12 percent to 10 percent on Apr. 2, 1992, for institutions that report weekly, and on Apr. 16, 1992, for institutions that

Apr. 2, 1992, for institutions that report weekly, and on Apr. 16, 1992, for institutions that report quarterly.

5. For institutions that report weekly, the reserve requirement on nonpersonal time deposits with an original maturity of less than 1½ years was reduced from 3 percent to 1½ percent for the maintenance period that began Dec. 13, 1990, and to zero for the maintenance period that began Dec. 27, 1990. For institutions that report quarterly, the reserve requirement on nonpersonal time deposits with an original maturity of less than 1½ years was reduced from 3 percent to zero on Jan. 17, 1991.

The reserve requirement on nonpersonal time deposits with an original maturity of 1½ years or more has been zero since Oct. 6, 1983.

6. The reserve requirement on Eurocurrency liabilities was reduced from 3 percent to zero

in the same manner and on the same dates as the reserve requirement on nonpersonal time deposits with an original maturity of less than  $1\frac{1}{2}$  years (see note 5).

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

Millions of dollars

Millions of dollars										
Type of transaction	1996	1997	1998				1999			
and maturity	1990	1997	1998	Mar.	Apr.	May	June	July	Aug.	Sept.
U.S. TREASURY SECURITIES <sup>2</sup>										
Outright transactions (excluding matched transactions)										
Treasury bills 1 Gross purchases	9,901	9,147	3,550	Q	ō	o	0	o	o	o
2 Gross sales 3 Exchanges 4 For new bills	426,928 426,928	436,257 435,907	450,835 450,835	35,065 35,065	48,142 48,142	37,107 37,107	0 35,045 35,045	42,037 42,037	37,052 37,052	0 42,643 42,643
5 Redemptions Others within one year	0	0	2,000	0	0	0	0	0	0	0
6 Gross purchases	524 0	5,549 0	6,297 0	1,060 0	1,677	1,421	880 0	951 0	429 0	960 0
8 Maturity shifts	30,512 -41,394 2,015	41,716 -27,499 1,996	46,062 -49,434 2,676	3,015 -5,956 0	3,768 -3,370 726	3,768 -4,607 0	2,740 -5,540 0	3,279 -368 41	7,669 -10,798 0	3,468 -2,125 0
One to five years 11 Gross purchases	3,898	20,080	12,901 0	2,428 0	3,362 0	4,442 0	948 0	0	1,272	0
13 Maturity shifts	-25,022 31,459	-37,987 20,274	-37,777 37,154	-3,015 5,956	-3,768 3,020	-3,768 2,562	-2,740 5,540	-3,279 0	-4,751 8,433	-3,468 2,125
15 Gross purchases	1,116 0	3,449	2,294	346 0	945 0	1,584 0	65 0	0	447 0	0
17 Maturity shifts 18 Exchanges More than ten years	-5,469 6,666	-1,954 5,215	-5,908 7,439	0	0	0 2,045	, 0	0 373	-2,918 1,290	0
19 Gross purchases 20 Gross sales	1,655 0	5,897 0	4,884 0	2,404 0	262 0	2,890 0	0	0	1,075 0	0
21 Maturity shifts	-20 3,270	-1,775 2,360	-2,377 4,842	0	0 350	, 0	0	0	0 1,075	0
23 Gross purchases	17,094	44,122	29,926	6,238	6,246	10,337	1,893	951	3,223	960
24 Gross sales 25 Redemptions	2,015	1,996	4,676	0	726	0	0	0 41	0	0
Matched transactions 26 Gross purchases	3,092,399 3,094,769	3,577,954 3,580,274	4,395,430 4,399,330	393,267 394,865	366,838 364,476	356,960 358,362	380,872 380,464	347,067 346,747	374,032 373,159	348,014 350,151
Repurchase agreements										
28 Gross purchases 29 Gross sales	457,568 450,359	810,485 809,268	512,671 514,186	62,878 53,706	45,067 48,867	27,605 30,531	17,710 14,614	27,707 33,612	23,097 23,717	29,369 24,337
30 Net change in U.S. Treasury securities	19,919	41,022	19,835	13,812	4,082	6,008	5,397	4,675	3,476	3,855
FEDERAL AGENCY OBLIGATIONS										
Outright transactions 31 Gross purchases	0	0	0	0	0	0	0	0	0	0
32 Gross sales 33 Redemptions	0 409	0 1,540	25 322	0 25	0	0	0 52	0 10	0 11	0
Repurchase agreements 34 Gross purchases	75,354 74,842	160,409 159,369	284,316 276,266	35,731 34,009	20,623 22,937	38,167 36,962	32,786 32,104	46,941 48,840	61,968 56,053	53,224 47,963
36 Net change in federal agency obligations	103	-500	7,703	1,697	-2,314	1,205	630	-1,909	5,904	5,261
37 Total net change in System Open Market Account	20,021	40,522	27,538	15,509	1,768	7,213	6,028	-6,584	9,380	9,116

 $<sup>1. \</sup> Sales, \ redemptions, \ and \ negative \ figures \ reduce \ holdings \ of \ the \ System \ Open \ Market \ Account; \ all \ other \ figures \ increase such \ holdings.$ 

 $<sup>2. \</sup> Transactions \ exclude \ changes \ in \ compensation \ for \ the \ effects \ of \ inflation \ on \ the \ principal \ of \ inflation-indexed \ securities.$ 

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

			Wednesday				End of month	
Account			1999				1999	
	Sept. 29	Oct. 6	Oct. 13	Oct. 20	Oct. 27	Aug. 31	Sept. 30	Oct. 31
		•	(	Consolidated co	ndition statemer	nt		'
Assets								
Gold certificate account     Special drawing rights certificate account     Coin	11,048 7,200 287	11,050 7,200 298	11,051 7,200 304	11,050 7,200 317	11,050 7,200 317	11,045 8,200 294	11,047 7,200 298	11,049 7,200 331
Loans 4 To depository institutions 5 Other 6 Acceptances held under repurchase agreements	418 0 0	419 0 0	261 0 0	228 0 0	211 0 0	338 0 0	480 0 0	173 0 0
Triparty Obligations 7 Repurchase agreements—triparty <sup>2</sup>	n.a.	4,011	15.520	23,550	20,065	n.a.	п.а.	22,560
Federal agency obligations <sup>3</sup> 8 Bought outright	238 11,183	228 7,110	198 0	198 0	188 0	238 9,195	238 14,456	188 0
10 Total U.S. Treasury securities <sup>3</sup>	496,239	493,426	491,282	491,367	492,051	492,773	496,644	490,738
11 Bought outright <sup>4</sup> 12 Bills         13 Notes         14 Bonds         15 Held under repurchase agreements	491,019 199,165 211,801 80,053 5,220	491,266 199,410 211,803 80,053 2,160	491,282 199,423 211,806 80,054 0	491,367 199,669 211,270 80,428 0	492,051 200,350 211,272 80,429 0	490,198 199,320 210,829 80,049 2,575	489,037 197,183 211,801 80,053 7,607	490,738 199,035 211,273 80,430 0
16 Total loans and securities	508,078	505,194	507,261	515,343	512,515	502,544	511,817	513,659
17 Items in process of collection	6,978 1,337	9,050 1,340	13,877 1,341	7,656 1,342	6,656 1,341	9,328 1,332	5,649 1,336	4,726 1,344
Other assets 19 Denominated in foreign currencies <sup>5</sup>	15,861 17,149	16,108 16,721	16,112 16,937	16,116 17,108	16,120 17,464	15,845 15,445	16,105 16,864	16,251 17,678
21 Total assets	567,937	566,961	574,084	576,132	572,664	564,033	570,317	572,239
LIABILITIES								
22 Federal Reserve notes	517,199 n.a.	520,697 0	524,543 0	525,927 0	528,449 0	511,545 n.a.	517,035 n.a.	528,509 0
24 Total deposits	25,609	19,778	20,927	25,035	19,533	24,750	28,759	20,420
25 Depository institutions 26 U.S. Treasury—General account 27 Foreign—Official accounts 28 Other	16,996 8,232 191 191	14,067 5,259 178 274	15,424 4,948 284 270	19,633 4,925 167 311	14,775 4,363 172 223	18,800 5,559 166 225	21,684 6,641 243 191	15,502 4,527 189 202
29 Deferred credit items	6,643 5,012	8,106 4,683	10,839 4,262	7,179 4,463	6,730 4,444	9,011 4,605	5,418 5,323	4,909 4,455
31 Total liabilities	554,464	553,263	560,570	562,604	559,156	549,911	556,535	558,293
CAPITAL ACCOUNTS	6 220	6 222	6.336	6 227	6.254	6 200	4 220	6 355
32 Capital paid in 33 Surplus 34 Other capital accounts	6,329 5,952 1,192	6,333 5,952 1,412	6,336 5,952 1,225	6,337 5,952 1,239	6,354 5,952 1,201	6,308 5,952 1,863	6,330 5,952 1,499	6,355 5,952 1,639
35 Total liabilities and capital accounts	567,937	566,961	574,084	576,132	572,664	564,033	570,317	572,239
MEMO 36 Marketable U.S. Treasury securities held in custody for foreign and international accounts	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Federal Reserve note statement							
37 Federal Reserve notes outstanding (issued to Banks)	824,276 307,076 517,199	828,182 307,485 520,697	827,718 303,175 524,543	828,391 302,464 525,927	827,758 299,309 528,449	780,358 268,813 511,545	827,075 310,040 517,035	827,249 298,740 528,509
Collateral held against notes, net 40 Gold certificate account 41 Special drawing rights certificate account 42 Other eligible assets 43 U.S. Treasury and agency securities. 44 Total collateral	11,048 7,200 0 498,952 <b>517,199</b>	11,050 7,200 0 502,447 <b>520,697</b>	11.051 7,200 0 506.292 <b>524,543</b>	11,050 7,200 0 507,677 525,927	11,050 7,200 0 510,199 <b>528,449</b>	11.045 8,200 0 492,300 <b>511,545</b>	11,047 7,200 0 498,788 <b>517,035</b>	11,049 7,200 0 510,261 <b>528,509</b>

Some of the data in this table also appear in the Board's H.4.1 (503) weekly statistical release. For ordering address, see inside front cover.
 Cash value of agreements arranged through third-party custodial banks.
 Face value of the securities.
 Includes securities loaned—fully guaranteed by U.S. Treasury securities pledged with Federal Reserve Banks—and includes compensation that adjusts for the effects of inflation on the principal of inflation-indexed securities. Excludes securities sold and scheduled to be located to the under machaled cale purpose transcripts. bought back under matched sale-purchase transactions.

Valued monthly at market exchange rates.
 Includes special investment account at the Federal Reserve Bank of Chicago in Treasury bills maturing within ninety days.
 Includes exchange-translation account reflecting the monthly revaluation at market exchange rates of foreign exchange commitments.

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

			Wednesday			End of month			
Type of holding and maturity			1999				1999		
	Sept. 29	Oct. 6	Oct. 13	Oct. 20	Oct. 27	Aug. 31	Sept. 30	Oct. 31	
Total loans	418	419	261	228	211	338	480	173	
Within fifteen days <sup>1</sup> Sixteen days to ninety days	372 46	192 227	72 189	198 30	181 29	189 149	330 150	106 66	
4 Total U.S. Treasury securities <sup>2</sup>	496,239	493,426	491,282	491,367	492,051	492,763	496,644	490,738	
5 Within fifteen days 1 6 Sixteen days to ninety days 7 Ninety-one days to one year 8 One year to five years 9 Five years to ten years 10 More than ten years	19,310 97,374 142,227 122,349 50,204 64,777	14,900 99,028 143,316 121,199 50,205 64,777	14,978 102,323 137,796 121,200 50,207 64,778	10,793 101,936 142,077 121,200 50,209 65,152	10,377 103,172 141,937 121,200 50,211 65,153	11,187 100,038 144,224 122,346 50,195 64,773	10,704 96,836 152,924 121,199 50,204 64,777	7,085 105,645 141,442 121,201 50,212 65,153	
11 Total federal agency obligations	11,421	7,388	198	198	188	5,168	14,694	188	
12 Within fifteen days <sup>1</sup> 13 Sixteen days to ninety days 14 Ninety-one days to one year 15 One year to five years 16 Five years to ten years 17 More than ten years	11,223 17 51 10 120 0	7,140 17 51 10 120 0	10 7 51 10 120 0	10 7 51 10 120 0	7 6 45 10 120 0	4,930 27 41 20 150 0	14,496 17 51 10 120 0	7 6 45 10 120 0	

 $<sup>1. \</sup> Holdings \ under \ repurchase \ agreements \ are \ classified \ as \ maturing \ within \ fifteen \ days \ in \ accordance \ with \ maximum \ maturity of the \ agreements.$ 

 $<sup>2. \ \, \</sup>text{Includes compensation that adjusts for the effects of inflation on the principal of inflation-indexed securities.}$ 

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

Billions of dollars, averages of daily figures

	1995		1997 Dec.	1998				19	99			
Item	Dec.			Dec.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
ADJUSTED FOR	Seasonally adjusted											
CHANGES IN RESERVE REQUIREMENTS <sup>2</sup> 1 Total reserves <sup>3</sup>	56.45 56.20 56.20 55.16 434.10	50.16 50.01 50.01 48.75 451.37	46.86 46.54 46.54 45.18 478.88	44.90 44.79 44.79 43.32 512.32	43.72 43.65 43.65 42.41 524.23	43.98 43.81 43.81 42.82 528.74	44.36 44.23 44.23 43.11 534.86	42.87 42.72 42.72 41.61 537.63	41.98 41.67 41.67 40.90 541.20	42.07 41.72 41.72 40.94 544.42 <sup>r</sup>	42.11 41.77 41.77 40.92 549.56	40.95 40.66 40.66 39.79 557.10
	Not seasonally adjusted											
6 Total reserves <sup>7</sup> 7 Nonborrowed reserves 8 Nonborrowed reserves plus extended credit <sup>5</sup> 9 Required reserves <sup>8</sup> 10 Monetary base <sup>9</sup>	58.02 57.76 57.76 56.73 439.03	51.45 51.30 51.30 50.04 456.63	48.01 47.69 47.69 46.33 484.98	45.12 45.00 45.00 43.54 518.28	43.14 43.08 43.08 41.84 523.35	43.67 43.50 43.50 42.51 526.77	44.91 44.78 44.78 43.65 533.12	42.43 42.29 42.29 41.17 535.88	41.85 41.54 41.54 40.77 540.98	41.92 41.58 41.58 40.79 543.87	41.85 41.51 41.51 40.65 548.13 <sup>r</sup>	40.77 40.49 40.49 39.62 555.46
NOT ADJUSTED FOR CHANGES IN RESERVE REQUIREMENTS <sup>10</sup>												
11 Total reserves 11 12 Nonborrowed reserves 13 Nonborrowed reserves plus extended credit 14 14 Required reserves 15 15 Monetary base 15 16 Excess reserves 15 17 Borrowings from the Federal Reserve	57.90 57.64 57.64 56.61 444.45 1.29 .26	51.17 51.02 51.02 49.76 463.40 1.42 .16	47.92 47.60 47.60 46.24 491.79 1.69 .32	45.02 44.90 44.90 43.44 525.06 1.58 .12	43.12 43.06 43.06 41.82 530.30 1.31 .07	43.65 43.48 43.48 42.49 533.49 1.16 .17	44.88 44.75 44.75 43.62 539.98 1.26 .13	42.39 42.25 42.25 41.13 542.82 1.26 .15	41.80 41.49 41.49 40.73 548.07 1.08 .31	41.87 41.53 41.53 40.74 550.86 1.13 .34	41.79 41.45 41.45 40.59 555.19 <sup>r</sup> 1.20 .34	40.70 40.42 40.42 39.55 562.59 1.16 .28

<sup>1.</sup> Latest monthly and biweekly figures are available from the Board's H.3 (502) weekly statistical release. Historical data starting in 1959 and estimates of the effect on required reserves of changes in reserve requirements are available from the Money and Reserves Projections Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve System, Washington, DC 20551.

2. Figures reflect adjustments for discontinuities, or "breaks," associated with regulatory

changes in reserve requirements. (See also table 110.)

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

4. Seasonally adjusted, break-adjusted nonborrowed reserves equal seasonally adjusted,

break-adjusted total reserves (line 1) less total borrowings of depository institutions from the Federal Reserve (line 17).

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

borrowing promptly as with traditional short-term adjustment credit, the money market effect of extended credit is similar to that of nonborrowed reserves.

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

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

- 8. To adjust required reserves for discontinuities that are due to regulatory changes in o. to adjust required reserves for discontinuities and are due to regardary ranges in reserve requirements, a multiplicative procedure is used to estimate what required reserves would have been in past periods had current reserve requirements been in effect. Break-adjusted required reserves include required reserves against transactions deposits and nonper-
- sonal time and savings deposits (but not reservable nondeposit liabilities).

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

  10. Reflects actual reserve requirements, including those on nondeposit liabilities, with no
- adjustments to eliminate the effects of discontinuities associated with regulatory changes in reserve requirements.
- 11. Reserve balances with Federal Reserve Banks plus vault cash used to satisfy reserve
- requirements.

  12. The monetary base, not break-adjusted and not seasonally adjusted, consists of (1) total reserves (line 11), plus (2) required clearing balances and adjustments to compensate for float at Federal Reserve Banks, plus (3) the currency component of the money stock, plus (4) (for all quarterly reporters on the "Report of Transaction Accounts, Other Deposits and Vault Cash" and for all those weekly reporters whose vault cash exceeds their required reserves) the difference between current vault cash and the amount applied to satisfy current reserve requirements. Since February 1984, currency and vault cash figures have been measured over the computation periods ending on Mondays.
  - e computation periods ending on Mondays.

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

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

Billions of dollars, averages of daily figures

To an	1995	1996	1997	1998		19	99	
Item	Dec.	Dec.	Dec.	Dec.	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct.
				Seasonall	y adjusted			
Measures <sup>2</sup> 1 M1 2 M2 3 M3 4 Debt	1,126.7	1,081.3	1,074.9	1,093.4	1,099.5	1,102.4	1,093.4	1,098.4
	3,649.1	3,823.9	4,046.4	4,401.0	4,543.1	4,564.5	4,583.1	4,602.2
	4,618.5	4,955.6	5,403.4	5,995.8	6,191.6	6,218.6	6,253.1	6,306.8
	13,716.1	14,460.8	15,223.5	16,243.3 <sup>r</sup>	16,851.1	16.937.6	17,029.0	n.a.
M1 components 5 Currency <sup>5</sup> 6 Travelers checks <sup>4</sup> 7 Demand deposits <sup>5</sup> 8 Other checkable deposits <sup>6</sup>	372.3	394.1	424.5	459.2	487.3	490.9	495.0	499.1
	8.3	8.0	7.7	7.8	8.6	8.6	8.3	8.1
	389.4	403.0	396.5	377.5	362.7	363.3	352.8	354.5
	356.7	276.2	246.2	248.8	240.9	239.6	237.4	236.8
Nontransaction components 9 ln M2 10 In M3 only <sup>8</sup>	2,522.4	2,742.6	2,971.5	3,307.6	3,443.6	3,462.1	3,489.6	3,503.7
	969.4	1,131.7	1,357.0	1,594.8	1,648.6	1,654.1	1,670.0	1,704.6
Commercial banks	775.3	905.2	1,022.9	1,189.8	1,260.8	1,269.2	1,284.4	1,288.9
	575.0	593.7	626.1	626.0	613.1	614.8	618.6	622.0
	346.6	414.8	490.2	541.0	539.6	537.3	550.1	578.7
Thrift institutions 14 Savings deposits, including MMDAs 15 Small time deposits <sup>9</sup> 16 Large time deposits <sup>10</sup>	359.8	367.1	377.3	415.2	455.0	456.6	458.3	456.8
	356.7	353.8	343.2	325.9	311.7	312.0	312.9	314.1
	74.5	78.4	85.9	89.1	88.7	89.1	89.9	89.3
Money market mutual funds 17 Retail	455.5	522.8	602.0	750.7	802.9	809.5	815.4	821.9
	255.9	313.3	379.9	516.2	546.0	556.4	559.3	571.0
Repurchase agreements and Eurodollars 19 Repurchase agreements 12 20 Eurodollars 12	198.7	211.3	251.7	297.8	308.6	310.2	309.7	306.6
	93.7	113.9	149.3	150.7	165.6	161.1	161.0	159.0
Debt components 21 Federal debt	3,639.1	3,781.3	3,800.3	3,750.8	3,708.0	3,711.0	3,698.1	n.a.
	10,077.0	10,679.5	11,423.2	12,492.6 <sup>r</sup>	13,143.1	13,226.6	13,330.9	n.a.
		1	I	Not seasons	ally adjusted			
Measures <sup>2</sup> 23 M1 24 M2 25 M3 26 Debt	1,152.4	1,104.9	1,097.4	1,115.3	1,098.1	1,097.6	1,088.1	1,095.7
	3,671.7	3,843.7	4,064.6	4,417.8	4,533.3	4,558.9	4,568.8	4,586.7
	4,638.0	4,972.5	5,419.6	6,011.9	6,162.3	6,201.6	6,225.0	6,289.9
	13,716.6	14,459.3	15,220.6	16,240.2 <sup>r</sup>	16,785.3	16,875.8	16,973.3	n.a.
M1 components 27 Currency³ 28 Travelers checks⁴ 29 Demand deposits⁵ 30 Other checkable deposits6	376.2	397.9	428.9	464.2	487.7	490.2	493.4	498.9
	8.5	8.3	7.9	8.0	8.3	8.2	8.1	8.0
	407.2	419.9	412.3	392.4	362.7	361.9	350.8	353.9
	360.5	278.8	248.3	250.7	239.4	237.3	235.7	234.9
Nontransaction components 31 In M2 32 In M3 only <sup>8</sup> 32 In M3 only <sup>8</sup> 33 In M3 only <sup>8</sup> 34 In M3 only M3 only M3 In M3 only M3 only M3 In M3 only M3 onl	2,519.3	2,738.9	2,967.2	3,302.5	3,435.2	3,461.3	3,480.7	3,491.0
	966.4	1,128.8	1,355.0	1,594.1	1,629.0	1,642.7	1,656.2	1,703.2
Commercial banks 33 Savings deposits, including MMDAs 34 Small time deposits <sup>9</sup> 35 Large time deposits <sup>10, 11</sup>	774.1	903.3	1,020.4	1,186.8	1,261.7	1,268.4	1,277.5	1,279.5
	573.8	592.7	625.3	625.4	612.9	614.4	618.3	622.8
	345.8	413.3	487.7	537.4	539.4	537.5	550.5	581.7
Thrift institutions 36 Savings deposits, including MMDAs 37 Small time deposits <sup>9</sup> 38 Large time deposits <sup>10</sup>	359.2	366.3	376.4	414.1	455.4	456.3	455.8	453.5
	355.9	353.2	342.8	325.6	311.6	311.8	312.7	314.5
	74.3	78.1	85.4	88.5	88.6	89.2	90.0	89.8
Money market mutual funds 39 Retail 40 Institution-only	456.1 257.7	523.2 316.0	602.3 384.5	750.6 523.3	793.7 533.4	810.4 548.0	816.4 547.5	820.7 566.7
Repurchase agreements and Eurodollars 41 Repurchase agreements 12 42 Eurodollars 12	193.8	205.7	245.1	290.5	305.9	308.4	308.4	305.2
	94.9	115.7	152.3	154.5	161.6	159.7	159.9	159.8
Debt components 43 Federal debt	3,645.9	3,787.9	3,805.8	3,754.9	3,652.2	3,665.8	3,655.8	n.a.
	10,070.7	10,671.4	11,414.8	12,485.2 <sup>r</sup>	13,133.2	13,210.0	13,317.5	n.a.

Footnotes appear on following page.

#### NOTES TO TABLE 1.21

- 1. Latest monthly and weekly figures are available from the Board's H.6 (508) weekly statistical release. Historical data starting in 1959 are available from the Money and Reserves Projections Section, Division of Monetary Affairs, Board of Governors of the Federal Reserve
- System, Washington. DC 20551.

  2. Composition of the money stock measures and debt is as follows:
  M1: (1) currency outside the U.S. 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 owed to depository institutions, the U.S. government, and foreign banks and official institutions, less cash items in the process of collection and Federal Reserve float, and (4) other checkable deposits (OCDs), consisting of negotiable order of withdrawal (NOW) and automatic transfer service (ATS) accounts at depository institutions, credit union share draft accounts, and demand deposits at thrift institutions. Seasonally adjusted M1 is computed by summing currency, travelers checks, demand deposits, and OCDs, each seasonally adjusted separately.

  M2: M1 plus (1) savings deposits (including MMDAs), (2) small-denomination time
- deposits (time deposits—including retail RPs—in amounts of less than \$100,000), and (3) balances in retail money market mutual funds. Excludes individual retirement accounts (IRAs) and Keogh balances at depository institutions and money market funds. Seasonally adjusted M2 is calculated by summing savings deposits, small-denomination time deposits, and retail money fund balances, each seasonally adjusted separately, and adding this result to seasonally adjusted M1.
- seasonally adjusted M1.

  M3: M2 plus (1) large-denomination time deposits (in amounts of \$100,000 or more) issued by all depository institutions, (2) balances in institutional money funds, (3) RP liabilities (overnight and term) issued by all depository institutions, and (4) Eurodollars (overnight and term) held by U.S. residents at foreign branches of U.S. banks worldwide and at all banking offices in the United Kingdom and Canada. Excludes amounts held by depository institutions, the U.S. government, money market funds, and foreign banks and official institutions. Seasonally adjusted M3 is calculated by summing large time deposits, institutional money fund balances, RP liabilities, and Eurodollars, each seasonally adjusted expectative and define this results expectative (M2). separately, and adding this result to seasonally adjusted M2.

  Debt: The debt aggregate is the outstanding credit market debt of the domestic nonfinancial
- sectors-the federal sector (U.S. government, not including government-sponsored enter-

- prises or federally related mortgage pools) and the nonfederal sectors (state and local governments, households and nonprofit organizations, nonfinancial corporate and nonfarm noncorporate businesses, and farms). Nonfederal debt consists of mortgages, tax-exempt and corporate bonds, consumer credit, bank loans, commercial paper, and other loans. The data, which are derived from the Federal Reserve Board's flow of funds accounts, are breakadjusted (that is, discontinuities in the data have been smoothed into the series) and month-averaged (that is, the data have been derived by averaging adjacent month-end levels).
- 3. Currency outside the U.S. Treasury, Federal Reserve Banks, and vaults of depository
- Outstanding amount of U.S. dollar-denominated travelers checks of nonbank issuers.
   Travelers checks issued by depository institutions are included in demand deposits.
- Demand deposits at commercial banks and foreign-related institutions other than those owed to depository institutions, the U.S. government, and foreign banks and official institutions, less cash tiems in the process of collection and Federal Reserve float.
   Consists of NOW and ATS account balances at all depository institutions, credit union
- share draft account balances, and demand deposits at thrift institutions.

  7. Sum of (1) savings deposits (including MMDAs), (2) small time deposits, and (3) retail money fund balances.

  8. Sum of (1) large time deposits, (2) institutional money fund balances, (3) RP habilities
- (overnight and term) issued by depository institutions, and (4) Eurodollars (overnight and term) of U.S. addressees.
- Small time deposits—including retail RPs—are those issued in amounts of less than \$100,000. All IRAs and Keogh accounts at commercial banks and thrift institutions are subtracted from small time deposits.
   Large time deposits are those issued in amounts of \$100,000 or more, excluding those
- booked at international banking facilities.

  11. Large time deposits at commercial banks less those held by money market funds, depository institutions, the U.S. government, and foreign banks and official institutions.

  12. Includes both overnight and term.

# 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities<sup>1</sup>

# A. All commercial banks

Billions of dollars

				Monthly	averages					Wednesd	ay figures	
Account	1998				1999					19	99	
	Oct.	Apr.	May	June	July <sup>r</sup>	Aug, <sup>r</sup>	Sept. <sup>r</sup>	Oct.	Oct. 6	Oct. 13	Oct. 20	Oct. 27
						Seasonally	y adjusted			ı		
Assets 1 Bank credit 2 Securities in bank credit 3 U.S. government securities 4 Other securities 5 Loans and leases in bank credit 6 Commercial and industrial 7 Real estate 8 Revolving home equity 9 Other 10 Consumer	4,490.4 <sup>r</sup> 1,218.8 <sup>r</sup> 776.9 <sup>r</sup> 441.9 3,271.6 <sup>r</sup> 943.9 <sup>r</sup> 1,301.2 102.4 1,198.9 <sup>r</sup> 493.1	4,510.0° 1,195.9° 801.8° 394.1° 3,314.1° 961.7° 1,351.0 103.0 1,247.9 499.5	4,519.3 <sup>r</sup> 1,195.4 <sup>r</sup> 799.9 <sup>r</sup> 395.5 <sup>r</sup> 3,323.9 <sup>r</sup> 957.4 <sup>r</sup> 1,360.3 104.3 1,256.0 495.9	4,555.6 <sup>c</sup> 1,213.7 <sup>r</sup> 812.9 <sup>c</sup> 400.8 <sup>c</sup> 3,341.9 <sup>c</sup> 963.5 <sup>c</sup> 1,365.9 103.7 1,262.2 491.3	4,553.0 1,231.1 813.9 417.2 3,321.9 965.0 1,367.4 97.9 1,269.4 481.9	4,588.1 1,248.2 819.8 428.4 3,339.9 973.0 1,379.7 98.5 1,281.2 480.1	4,619.2 1,258.8 817.3 441.5 3,360.5 980.7 1,396.7 106.4 1,290.3 481.0	4,625.8 1,247.6 809.5 438.2 3,378.2 983.7 1,421.0 115.1 1,305.9 480.7	4,629.3 1,260.1 816.8 443.3 3,369.1 979.9 1,415.0 114.6 1,300.4 479.7	4,613.5 1,250.3 814.3 435.9 3,363.2 979.2 1,420.4 115.2 1,305.3 479.7	4,621.0 1,244.6 808.0 436.6 3,376.4 985.6 1,422.0 115.3 1,306.7 481.0	4,639.2 1,248.4 807.1 441.2 3,390.8 986.7 1,423.0 115.2 1,307.8 482.1
11   Security3	156.6 <sup>r</sup> 376.7 <sup>r</sup> 219.2 246.1 329.0	122.1 <sup>r</sup> 379.9 <sup>r</sup> 217.4 257.8 344.8	126.8 <sup>r</sup> 383.5 <sup>r</sup> 227.5 259.9 347.2	131.0 <sup>r</sup> 390.2 <sup>r</sup> 224.5 261.0 348.6	122.2 385.4 224.0 258.2 348.7	122.4 384.6 214.9 253.5 345.5	116.0 386.1 207.8 263.7 349.4	107.8 385.0 218.6 271.4 360.5	105.8 388.8 214.2 262.4 355.6	101.7 382.2 212.2 271.5 362.4	105.7 382.1 217.8 273.7 363.1	114.0 385.1 228.4 276.3 362.9
16 Total assets <sup>6</sup>	5,226.7°	5,271.5°	5,295.1 <sup>r</sup>	5,331.0 <sup>r</sup>	5,325.7	5,343.4	5,381.0	5,416.9	5,402.4	5,400.2	5,416.2	5,447.2
Liabilities   17 Deposits   18 Transaction   19 Nontransaction   20 Large time   21 Other   22 Borrowings   23 From banks in the U.S.   24 From others   25 Net due to related foreign offices   26 Other liabilities   27 Other liabilities   27 Other liabilities   28 Other li	3,287.6 673.0 2,614.5 714.8 1,899.8 983.4 315.5 667.9 221.0 316.5	3,376.5 656.6 2,719.9 725.7 1,994.2 983.7 311.8 671.9 210.2 273.8	3,374.9 649.6 2,725.2 723.6 2,001.7 997.8 324.3 673.6 203.9 271.1	3,377.2 655.7 2,721.5 718.8 2,002.7 1,020.5 338.4 682.0 215.1 275.5	3,392.0 649.3 2,742.8 722.4 2,020.4 1,018.8 339.2 679.6 212.5 274.0	3,385.5 637.2 2,748.3 720.4 2,027.9 1,025.8 338.5 687.3 222.4 279.2	3,396.0 635.3 2,760.7 728.6 2,032.1 1,038.1 342.6 695.6 218.3 289.0	3,434.0 631.8 2,802.1 765.9 2,036.2 1,041.0 352.6 688.5 220.6 287.8	3,421.5 618.9 2,802.6 753.6 2,049.0 1,033.4 355.3 678.0 235.9 282.6	3,437.3 631.3 2,806.0 762.3 2,043.6 1,032.5 347.3 685.2 218.5 281.2	3,424.1 631.2 2,792.9 766.7 2,026.2 1,048.2 350.6 697.7 218.5 288.1	3,443.5 653.1 2,790.4 769.7 2,020.7 1,045.9 351.9 694.0 210.7 301.1
27 Total liabilities	4,808.4	4,844.2	4,847.7	4,888.2	4,897.4	4,912.9	4,941.4	4,983.4	4,973.5	4,969.4	4,978.9	5,001.2
28 Residual (assets less liabilities) <sup>7</sup>	418.3 <sup>r</sup>	427.3 <sup>r</sup>	447.5 <sup>r</sup>	442.8 <sup>r</sup>	428.3	430.5	439.6	433.5	428.9	430.8	437.3	446.0
						Not seasona	ally adjusted					
Assets  29 Bank credit  30 Securities in bank credit  31 U.S. government securities  32 Other securities  33 Loans and leases in bank credit  34 Commercial and industrial  35 Real estate  36 Revolving home equity  37 Other  38 Consumer  39 Security  30 Other loans and leases  41 Interbank loans  42 Cash assets  43 Other assets  44 Total assets  45	4,495.4° 1,216.7° 772.1° 444.5 3,278.7° 943.6° 1,304.7 103.2 1,201.5 493.6 158.2° 217.0 246.5 216.9	4,518.3 <sup>r</sup> 1,204.6 <sup>r</sup> 811.8 <sup>r</sup> 392.9 <sup>r</sup> 3,313.7 <sup>r</sup> 968.4 <sup>r</sup> 1,347.6 102.4 1,245.3 <sup>r</sup> 496.0 124.0 <sup>r</sup> 377.7 <sup>r</sup> 222.4 255.5 347.8	4,522.0° 1,200.9° 808.1° 392.8° 3,321.1° 961.9° 1,359.7° 103.9 1,256.6° 379.5° 223.3 257.6 348.7	4,549,4 <sup>r</sup> 1,210,4 <sup>r</sup> 812,4 <sup>r</sup> 398,0 <sup>r</sup> 3,339,0 <sup>r</sup> 963,8 <sup>r</sup> 1,366.5 103.3 1,263.2 488.6 130,4 <sup>r</sup> 389,8 <sup>r</sup> 221.8 256.6 354.5	4,537.0 1,220.0 806.0 413.9 3,317.0 962.6 1,368.4 97.7 1,270.6 479.5 120.2 386.4 217.7 250.3 351.4	4,567.0 1,235.4 808.1 427.3 3,331.7 964.4 1,382.3 98.7 1,283.6 481.2 118.7 385.1 207.1 243.1 348.3	4,609.4 1,247.6 807.1 440.5 3,361.8 976.7 1,400.4 107.2 1,293.2 484.0 112.7 388.0 204.2 261.0 351.4	4,630.3 1,244.1 803.8 440.3 3,386.2 984.8 1,424.7 116.0 1,308.7 481.4 108.6 386.7 215.1 271.6	4,628.0 1,251.6 807.7 444.0 3,376.4 981.7 1,418.7 115.3 1,303.4 479.8 104.5 391.6 211.9 256.2 356.3	4,615.5 1,243.7 805.6 438.1 3,371.8 979.1 1,425.2 116.0 1,309.3 480.0 102.5 384.9 208.0 290.3 362.3	4,623.9 1,239.6 801.8 437.9 3,384.2 986.6 1,424.9 116.2 1,308.7 481.9 107.2 383.6 211.1 270.1	4,641.3 1,247.7 803.8 443.9 3,393.6 986.3 1,425.6 11,309.5 483.5 114.3 383.9 221.2 266.2 356.0
Liabilities	5,228.0 <sup>r</sup>	5,285.6 <sup>r</sup>	5,292.9 <sup>r</sup>	5,323.5°	5,298.2	5,306.7	5,366.7	5,415.6	5,393.3	5,416.8	5,402.1	5,425.4
45 Deposits 46 Transaction 47 Nontransaction 48 Large time 49 Other 50 Borrowings 51 From banks in the U.S. 52 From others 53 Net due to related foreign offices 54 Other liabilities	3,287.1 662.9 2,624.1 716.4 1,907.7 985.6 313.6 672.0 223.5 315.0	3,387.2 664.2 2,723.0 722.6 2,000.3 983.5 312.4 671.1 203.1 273.4	3,365.5 640.6 2,724.9 724.8 2,000.1 1,006.0 325.2 680.8 210.1 270.8	3,375.2 650.8 2,724.4 716.1 2,008.3 1,024.1 338.3 685.7 209.3 274.8	3,375.7 638.5 2,737.1 715.7 2,021.5 1,009.5 334.6 674.9 204.7 273.2	3,371.6 620.9 2,750.7 717.7 2,033.0 1,002.3 331.3 671.0 217.4 279.1	3,394.6 629.5 2,765.1 730.1 2,035.0 1,033.0 338.8 694.2 214.3 287.9	3,436.5 623.6 2,812.9 767.5 2,045.4 1,043.7 350.2 693.5 222.3 286.3	3,432.7 615.9 2,816.7 755.8 2,060.9 1,025.0 349.8 675.2 222.4 280.5	3,456.5 637.6 2,818.8 762.9 2,055.9 1,029.9 343.5 686.4 218.0 279.6	3,418.3 617.2 2,801.1 766.6 2,034.5 1,053.4 348.3 705.1 221.1 286.4	3,417.5 623.7 2,793.8 772.9 2,020.9 1,056.1 351.2 704.9 228.7 300.1
55 Total liabilities	<b>4,811.2</b> 416.8 <sup>r</sup>	<b>4,847.3</b> 438.4°	<b>4,852.3</b>	<b>4,883.4</b> 440.1 <sup>r</sup>	<b>4,863.1</b> 435.1	<b>4,870.4</b> 436.3	<b>4,929.9</b> 436.8	<b>4,988.8</b> 426.8	<b>4,960.6</b> 432.7	<b>4,983.9</b> 433.0	<b>4,979.2</b> 422.9	<b>5,002,4</b> 423.0
MEMO 57 Revaluation gains on off-balance-sheet	410.0	430.4	<del>110</del> .0	44V.1	733.1	+30.3	7,30.0	720.0	7.34.1		722.7	423.0
items <sup>8</sup>	134.1	93.2 <sup>r</sup>	92.6 <sup>r</sup>	92.6 <sup>r</sup>	97.8	102.8	111.3	98.8	107.3	97.5	96.6	99.6
sheet items <sup>8</sup>	131.2	95.0 <sup>f</sup>	94.5 <sup>r</sup>	94.7 <sup>r</sup>	99.1	105.4	110.4	97.4	105.1	95.5	94.5	99.1

# 

# 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities 1—Continued

B. Domestically chartered commercial banks

Billions of dollars

- · · · · · · · · · · · · · · · · · · ·												
				Monthly	averages					Wednesd	ay figures	
Account	1998				1999					19	199	
	Oct	Apr.	May	June	July	Aug. <sup>r</sup>	Sept.	Oct.	Oct. 6	Oct. 13	Oct. 20	Oct. 27
						Seasonally	y adjusted					
Assets  1 Bank credit	3,871.4 <sup>r</sup> 1,000.0 695.6 304.4 2,871.3 <sup>r</sup>	3,959.9 <sup>r</sup> 995.6 <sup>r</sup> 712.3 283.3 <sup>r</sup> 2,964.4 <sup>r</sup>	3,979.5 <sup>r</sup> 999.5 <sup>r</sup> 712.7 286.7 <sup>r</sup> 2,980.0 <sup>r</sup>	4,023.2 <sup>r</sup> 1,017.7 <sup>r</sup> 724.5 293.2 <sup>r</sup> 3,005.5 <sup>r</sup>	4,032.5 1,041.5 728.0 313.6 2,991.0	4,064.5 1,058.3 735.8 322.5 3,006.1	4,100.7 1,069.6 735.7 334.0 3,031.0	4,108.0 1,061.0 729.7 331.3 3,047.0	4,110.4 1,071.1 734.9 336.1 3,039.4	4,097.6 1,063.9 734.6 329.3 3,033.7	4,104.1 1,059.2 729.7 329.5 3,044.9	4,119.7 1,060.5 726.6 333.9 3,059.1
6 Commercial and industrial 7 Real estate 8 Revolving home equity 9 Other 10 Consumer 11 Security 1 Security 1 Other loans and leases	720.8 1.277.7 102.4 1.175.3 493.1 86.5 293.3 <sup>r</sup>	752.4 1,331.0 103.0 1,228.0 499.5 70.1 311.3 <sup>r</sup>	755.5 1,340.5 104.3 1,236.2 495.9 73.4 314.7	766.8 1,346.7 103.7 1,243.0 491.3 79.0 321.7	772.3 1,349.0 97.9 1,251.1 481.9 69.6 318.2	777.6 1,362.1 98.5 1,263.6 480.1 67.4 318.9	783.5 1,379.1 106.4 1,272.7 481.0 64.8 322.7	784.7 1,403.2 115.1 1,288.1 480.7 56.1 322.3	781.6 1,397.0 114.6 1,282.4 479.7 55.1 326.0	780.2 1.402.6 115.2 1,287.5 479.7 51.4 319.7	785.5 1,404.2 115.3 1,288.9 481.0 54.6 319.6	787.7 1,405.2 115.2 1,290.0 482.1 61.9 322.2
13 Interbank loans 14 Cash assets <sup>4</sup> 15 Other assets <sup>5</sup>	193.6 210.6 290.6	192.0 223.2 307.3	200.9 223.9 311.3	200.0 227.5 315.1	196.5 223.1 316.6	189.2 215.5 316.5	184.9 222.9 320.1	195.6 227.3 328.6	192.3 218.5 325.6	191.0 229.2 330.3	196.4 230.1 331.0	202.2 231.7 330.6
16 Total assets <sup>6</sup>	4,508.5°	4,624.2 <sup>r</sup>	4,657.1°	4,707.4 <sup>r</sup>	4,710.9	4,727.3	4,769.7	4,800.5	4,788.1	4,789.1	4,802.4	4,824.8
Liabilities 17 Deposits 18 Transaction 19 Nontransaction 20 Large time 21 Other 22 Borrowings 23 From banks in the U.S. 24 From others 25 Net due to related foreign offices 26 Other habilities	2,971.5 657.7 2,313.8 415.3 1,898.5 767.6 284.7 482.9 115.3 237.5	3,064.6 646.5 2,418.1 425.5 1,992.6 811.6 290.8 520.8 115.4 206.6	3,064.4 639.1 2,425.3 425.6 1,999.7 825.1 302.9 522.3 118.7 211.1	3,071.5 644.8 2,426.6 426.2 2,000.5 839.6 311.9 527.7 145.6 214.1	3,081.6 638.3 2,443.2 425.7 2,017.6 846.5 314.7 531.8 145.2 210.7	3,076.3 626.2 2,450.1 426.2 2,023.9 853.6 314.9 538.8 150.5 217.5	3,084.9 624.4 2,460.4 433.5 2,026.9 869.2 317.3 551.9 152.2 224.5	3,102.6 620.4 2,482.3 447.8 2,034.4 871.5 329.8 541.7 166.2 224.9	3,102.0 607.6 2,494.5 448.7 2,045.8 866.6 332.0 534.6 169.2 219.9	3,108.5 619.8 2,488.7 447.5 2,041.2 864.5 327.4 537.1 166.1 218.7	3,090.8 619.3 2,471.5 446.4 2,025.1 878.5 327.9 550.6 167.5 225.8	3,107.5 641.7 2,465.8 446.2 2,019.6 875.7 329.4 546.3 160.4 237.2
27 Total liabilities	4,091.9	4,198.2	4,219.4	4,270.7	4,283.9	4,297.9	4,330.8	4,365.2	4,357.7	4,357.8	4,362.5	4,380.8
28 Residual (assets less liabilities) <sup>7</sup>	416.6 <sup>r</sup>	425.9 <sup>r</sup>	437.8 <sup>r</sup>	436.7°	427.0	429.3	439.0	435.3	430.4	431.3	439.9	444.0
						Not seasona	ılly adjusted				1	
Assets   29   Bank credit   30   Securities in bank credit   31   U.S. government securities   32   Other securities   33   Loans and leases in bank credit   34   Commercial and industrial   35   Real estate   36   Revolving home equity   37   Other   38   Consumer   39   Security   39   Security   30   Other loans and leases   41   Interbank loans   42   Cash assets   43   Other assets   5	3,872.2 <sup>f</sup> 994.8 691.0 303.9 2,877.4 <sup>f</sup> 719.5 1.281.0 103.2 1,177.7 493.6 88.3 295.0 <sup>f</sup> 191.5 210.6 288.6	3,971.0° 1,005.8° 722.6 283.2° 2,965.2° 760.6 1,327.9 102.4 1,225.5 496.0 72.1 308.7° 197.0 222.0 312.0	3,987.4 <sup>f</sup> 1,006.6 <sup>f</sup> 720.1 286.5 <sup>f</sup> 2,980.8 <sup>f</sup> 762.6 1,340.1 103.9 1,236.3 493.4 73.5 311.1 <sup>f</sup> 196.7 222.0 313.5	4,020.1 <sup>r</sup> 1,015.3 <sup>r</sup> 723.6 291.7 <sup>r</sup> 3,004.8 <sup>r</sup> 768.8 1,347.5 103.3 1,244.2 488.6 78.2 321.8 <sup>r</sup> 197.3 222.2 322.1	4,019.7 1,032.0 720.6 311.4 2,987.7 770.7 1,350.2 97.7 1,252.4 479.5 67.9 319.4 190.2 215.4 320.0	4,047.1 1,046.7 725.0 321.7 3,000.4 770.6 1,364.9 98.7 1,266.1 481.2 63.7 320.1 181.4 205.5 318.7	4,091.7 1,059.2 726.4 332.7 3,032.6 779.9 1,382.8 107.2 1,275.6 484.0 61.3 324.7 181.4 220.4 321.8	4,108.6 1,054.8 724.1 330.7 3,053.7 784.7 1,406.7 116.0 1,290.8 481.4 57.2 323.7 192.1 226.9 326.1	4,107.3 1,062.6 727.0 335.6 3,044.7 782.1 1,400.6 115.3 1,285.3 479.8 53.8 328.5 190.1 212.3 326.3	4,096.2 1,054.6 726.3 328.3 3,041.5 779.8 1,407.3 116.0 1,291.3 480.0 52.1 322.3 186.8 247.6 330.1	4,103.5 1,052.0 723.4 328.6 3,051.5 785.8 1,407.0 116.2 1,290.8 481.9 56.5 320.4 189.7 225.7 324.2	4,117.6 1,056.0 722.8 333.3 3,061.6 786.3 1,407.7 116.1 1,291.5 483.5 63.3 320.9 195.0 220.5 324.2
44 Total assets <sup>6</sup>	4,505.3 <sup>r</sup>	4,644.0 <sup>r</sup>	4,661.2°	4,703.2 <sup>r</sup>	4,687.4	4,694.1	4,756.2	4,794.8	4,777.1	4,801.8	4,784.3	4,798.3
Liabilities  45 Deposits  46 Transaction  47 Nontransaction  48 Large time  49 Other  50 Borrowings  51 From banks in the U.S.  52 From others  53 Net due to related foreign offices  54 Other liabilities	2,970.6 647.6 2,323.0 417.1 1,905.9 769.8 282.8 487.0 115.5 236.8	3,075.9 654.3 2,421.6 423.4 1,998.2 811.4 291.4 519.9 114.0 207.3	3,052.7 630.3 2,422.4 424.5 1,997.9 833.3 303.8 529.5 126.7 211.3	3,068.8 640.1 2,428.6 422.6 2,006.0 843.1 311.7 531.4 141.2 213.9	3,067.7 627.7 2,440.0 420.8 2,019.2 837.2 310.0 527.1 139.9 210.7	3,065.0 610.0 2,455.0 424.3 2,030.7 830.2 307.7 522.5 147.5 217.3	3,083.9 618.1 2,465.8 433.1 2,032.7 864.1 313.6 550.6 149.8 223.8	3,105.1 612.2 2,493.0 449.9 2,043.1 874.2 327.4 546.7 166.1 224.1	3,112.2 604.7 2,507.5 448.9 2,058.7 858.2 326.4 531.9 157.4 218.7	3,128.4 626.1 2,502.4 448.7 2,053.7 861.9 323.6 538.3 163.3 217.9	3,085.8 605.2 2,480.5 448.2 2,032.3 883.6 325.7 558.0 168.7 224.9	3,080.2 612.4 2,467.8 449.2 2,018.7 885.9 328.7 557.2 173.3 236.4
55 Total liabilities	4,092.7	4,208.6	4,224.1	4,267.0	4,255.5	4,259.9	4,321.6	4,369.5	4,346.6	4,371.5	4,363.0	4,375.7
56 Residual (assets less liabilities) <sup>7</sup>	412.6 <sup>r</sup>	435.5 <sup>r</sup>	437.1 <sup>r</sup>	436.3 <sup>r</sup>	431.9	434.2	434.5	425.3	430.5	430.3	421.2	422.6
MEMO 57 Revaluation gains on off-balance-sheet items <sup>8</sup>	82.2 83.6	55.0 <sup>r</sup> 56.4 <sup>r</sup>	57.3 <sup>r</sup> 59.6 <sup>r</sup>	57.7 <sup>r</sup> 60.5 <sup>r</sup>	60.5 62.8	64.7 69.1	73.0 73.1	62.9 62.2	71.6 70.5	61.2	60.9 59.7	63.6

# 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities L—Continued

C. Large domestically chartered commercial banks

Billions of dollars

						Wednesd	ay figures					
Account	1998				1999 <sup>r</sup>					19	999	
	Oct.	Apr.	May	June	July	Aug.	Sept.	Oct.	Oct. 6	Oct. 13	Oct. 20	Oct. 27
						Seasonall	y adjusted					
Assets												
1 Bank credit	2,428.9 <sup>r</sup> 584.4 <sup>r</sup>	2,430.6 551.5	2,438.8 551.3	2,466.5 562.0	2,461.2 581.9	2,479.2 596.6	2,501.2 606.2	2,487.2 595.4	2,491.8 603.7	2,478.1 597.2	2,482.9 593.6	2,496.5 595.7
3 U.S. government securities	380.0 <sup>r</sup>	379.7	377.8	384.1	384.2	391.8	390.i	383.5	386.4	386.9	384.0	381.5
4 Trading account	21.0	25.9	22.3	25.1	22.7	23.3	20.9	20.0	20.6	19.3	20.8	19.9
5 Investment account 6 Other securities	359.1 <sup>r</sup> 204.4	353.8 171.8	355.5 173.5	359.0 178.0	361.5 197.7	368.6 204.7	369.2 216.1	363.5 211.9	365.8 217.3	367.6 210.3	363.2 209.5	361.6 214.2
6 Other securities	112.7	72.8	75.0	74.2	79.7	83.7	90.9	83.8	90.5	82.8	81.9	84.5
8 Investment account	91.7	99.0	98.6	103.8	118.0	121.0	125.2	128.2	126.9	127.5	127.7	129.8
9 State and local government . 10 Other	23.9 67.8	24.6 74.4	24.8 73.8	25.3 78.5	25.4 92.6	25.7 95.3	25.7 99.5	25.7 102.5	25.6 101.2	25.6 101.9	25.4 102.3	25.4 104.3
10 Other	1.844.5°	1.879.1	1,887.5	1.904.5	1,879.3	1.882.6	1,895.0	1,891.8	1,888.1	1.881.0	1,889.4	1.900.7
12 Commercial and industrial	532.3	552.8	553.0	561.4	564.1	567.6	570.7	566.1	564.0	562.2	567.0	568.7
13 Bankers acceptances	1.3	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.1	1.1	1.1
14 Other	531.0 <sup>r</sup> 708.7 <sup>r</sup>	551.7 719.0	552.0 722.5	560.4 721.9	563.2 716.8	566.6 721.8	569.5 733.2	564.9 745.7	562.8 742.2	561.0 746.4	565.9 746.7	567.6 745.7
16 Revolving home equity	74.2	74.2	75.1	74.1	68.2	68.7	76.6	84.8	84.4	84.7	85.2	84.9
17 Other	634.5 <sup>r</sup>	644.8	647.4	647.8	648.6	653.0	656.6	660.9	657.8	661.7	661.6	660.8
18 Consumer	301.0 <sup>r</sup> 80.4	300.6	297.7 68.3	292.8 73.8	284.1 64.3	280.9 62.2	278.9 59.4	277.0 50.8	276.0 49.8	276.2 46.1	276.8 49.4	277.8 56.7
19 Security <sup>3</sup>	80.4	64.6	08.3	/3.6	04.5	62.2	39.4	30.8	49.8	40.1	49.4	30.7
repurchase agreements												
with broker-dealers	63.6	47.9	51.4	55.6	46.9	45.3	42.1	34.0	32.0	29.5	31.8	41.1
21 Other	16.7 11.4	16.7 11.4	16.8 11.4	18.2 11.4	17.4 11.7	16.9 11.9	17.3 11.9	16.8 12.0	17.8 12.0	16.6 12.0	17.7 12.0	15.6 11.9
22 State and local government	8.9	8.9	8.6	8.6	8.5	8.8	8.8	8.9	8.8	8.8	8.9	9.0
repurchase agreements with others	13.4	11.8	10.7	15.5	4.2	7.7	11.0	9.7	10.9	10.3	10.0	7.3
25 All other loans	87.0 <sup>r</sup>	92.3	96.0	99.0	103.9	98.7	96.5	94.1	94.6	92.6	92.5	96.0
26 Lease-financing receivables	101.5	117.9	119.3	120.0	121.7	123.1	124.6	127.4	129.7	126.3	126.0	127.7
27 Interbank loans	123.3 <sup>r</sup>	131.7	143.3	144.7	139.6	134.6	132.7	145.9	143.3	142.3	147.8	151.7
28 Federal funds sold to and repurchase agreements with												
commercial banks	77.2	81.1	88.1	87.1	89.5	85.9	83.3	90.6	89.3	88.3	92.3	95.8
29 Other	46.1	50.6	55.2	57.6	50.1	48.7	49.4	55.3	54.0	54.1	55.6	55.9
30 Cash assets <sup>4</sup>	144.4 228.8 <sup>r</sup>	155.3 234.7	153.0 237.3	156.2 240.6	150.5 238.5	143.2 236.0	149.8 239.4	154.3 243.7	148.1 242.2	155.4 246.5	158.4 243.2	156.4 245.5
32 Total assets <sup>6</sup>	2,887.1°	2.913.9	2.933.9	2.969.4	2,951.7	2,954.7	2.984.5	2,992.6	2,987.1	2,983.9	2,993.9	3,011.3
	_,007.11	24/13.7	2,555	2,707.4	M,751.7	2,00	2,042	- Come Copie	2,707.12			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Liabilities 33 Deposits	1,677.2 <sup>r</sup>	1,700.0	1,694.7	1,694.9	1,693.0	1,680.0	1.685.9	1,685.7	1,691.4	1,693.2	1,677.2	1,684.8
33 Deposits	376.7 <sup>r</sup>	364.5	355.5	357.3	351.3	337.8	338.7	334.7	328.5	336.2	333.9	345.9
35 Nontransaction	1,300.5 <sup>r</sup>	1,335.5	1,339.1	1,337.6	1,341.7	1,342.2	1,347.2	1,351.0	1,362.9	1,357.0	1,343.3	1.338.8
36 Large time	227.1 <sup>r</sup>	229.0	226.0	227.9	229.4	227.0	232.7	242.6	244.5	242.9	241.5	240.6
37 Other	1,073.4 <sup>r</sup> 600.6	1,106.5 625.9	1,113.1 633.6	1,109.6 643.4	1,112,3 639.5	1,115.2 645.1	1,114.5 655.2	1,108.4 657.1	1,118.4 652.8	1,114.1 649.6	1,101.8 660.8	1,098.2 663.3
39 From banks in the U.S	205.4	207.1	215.6	220.7	217.5	219.1	221.1	237.0	239.0	234.2	233.2	238.5
40 From others	395.3	418.8	418.0	422.7	422.1	426.0	434,1	420.0	413.8	415.4	427.6	424.8
41 Net due to related foreign offices	110.6 209.0	110.5 176.3	113.6 180.0	141.5 182.0	140.9 179.4	147.0 184.4	148.8 190.3	161.9 190.5	165.1 185.2	161.6 184.4	163.4 191.5	156.0 202.4
43 Total liabilities	2,597.4°	2,612.6	2,621.9	2,661.8	2,652.8	2,656.5	2,680.2	2,695.2	2,694.4	2,688.7	2,693.0	2,706.4
			'				<b>'</b>		· ·	· ·	,	
44 Residual (assets less liabilities)7	289.6°	301.3	311.9	307.7	298.9	298.2	304.3	297.4	292.7	295.1	300.9	304.9

1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities<sup>1</sup>—Continued

C. Large domestically chartered commercial banks—Continued

	Monthly averages									Wednesda	ay figures	
Account	1998				1999 <sup>r</sup>					19	99	
	Oct.	Apr.	May	June	July	Aug.	Sept.	Oct.	Oct. 6	Oct. 13	Oct. 20	Oct. 27
						Not seasona	ally adjusted					
Assets 45 Bank credit	2,430.7 <sup>r</sup>	2,436.7	2,436.6	2,456.4	2,447.2	2,459.7	2,489.0	2.489.0	2,491.4	2.477.2	2,483.2	2,494.8
	582.0 <sup>r</sup>	556.8	553.1	557.8	574.1	586.5	598.1	592.3	599.3	590.8	589.4	593.6
47 U.S. government securities	378.1 <sup>r</sup> 21.9	385.8 25.2	380.7 20.8	381.3 23.5	378.4 20.9	382.8 22.2	382.7 20.7	380.9 20.8	382.0 20.9	381.4 19.8	380.6 22.0	380.2 20.4 359.8
50 Mortgage-backed securities 51 Other	356.1 <sup>r</sup> 259.4 <sup>r</sup> 96.7 <sup>r</sup>	360.5 242.5 118.0	359.9 239.4 120.5	357.8 235.1 122.7	357.5 233.8 123.6	360.7 237.5 123.2	361.9 240.6 121.4	360.1 238.2 121.8	361.1 239.8 121.3	361.6 239.5 122.1	358.6 236.1 122.4	237.5 122.3
52 One year or less	26.9	25.0	24.3	25.3	25.3	24.9	24.5	25.3	25.4	25.1	25.6	25.5
	38.3 <sup>r</sup>	54.2	55.9	57.7	58.8	59.0	58.2	59.0	58.3	59.3	59.4	59.3
	31.5	38.9	40.3	39.8	39.5	39.3	38.6	37.5	37.7	37.6	37.4	37.4
55 Other securities	204.0	171.0	172.5	176.5	195.7	203.7	215.4	211.5	217.3	209.5	208.8	213.4
	112.7	72.8	75.0	74.2	79.7	83.7	90.9	83.8	90.5	82.8	81.9	84.5
57 Investment account	91.3	98.2	97.5	102.3	116.0	120.0	124.5	127.7	126.8	126.7	126.9	128.9
	24.0	24.7	24.9	25.1	25.0	25.4	25.6	25.8	25.6	25.6	25.5	25.6
	67.4	73.5	72.6	77.2	91.1	94.6	98.9	101.9	101.2	101.1	101.4	103.3
60 Loans and leases in bank credit <sup>2</sup>	1,848.6 <sup>r</sup>	1,879.9	1,883.5	1,898.6	1,873.0	1,873.2	1,891.0	1,896.6	1,892.1	1,886.3	1,893.8	1,901.2
	532.5 <sup>r</sup>	558.9	557.5	561.5	562.7	561.9	568.2	567.5	566.1	563.2	568.6	568.8
	1.3	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.2	1.1	1.1	1.1
63 Other	531.1	557.8	556.5	560.5	561.7	560.8	567.1	566.4	565.0	562.1	567.5	567.7
	710.5 <sup>r</sup>	716.1	719.8	719.9	715.9	722.3	733.5	747.8	744.5	749.3	748.1	746.6
	74.8	73.7	74.7	73.9	68.2	69.1	77.2	85.5	84.9	85.3	85.9	85.6
65 Revolving home equity	395.3 <sup>r</sup>	390.7	392.5	393.2	394,3	398.7	400.2	404.1	402.6	406.3	404.0	402.1
	240.4 <sup>r</sup>	251.7	252.6	252.8	253,4	254.6	256.2	258.2	257.1	257.7	258.3	258.9
66 Other	300.9 <sup>r</sup>	298.2	295.5	290.9	282.3	281.5	280.8	277.1	276.2	276.1	276.7	277.9
	82.2	66.5	68.4	73.0	62.7	58.4	55.9	51.9	48.4	46.9	51.3	58.1
repurchase agreements with broker-dealers 71 Other	65.5	49.8	51.2	54.1	45.3	41.8	38.8	35.1	31.4	30.3	33.4	42.0
	16.7	16.7	17.2	18.9	17.4	16.6	17.1	16.8	17.0	16.6	17.9	16.1
72 State and local government 73 Agricultural	11.4	11.3	11.3	11.3	11.6	11.9	12.0	12.0	12.1	12.1	12.0	11.9
	9.0	8.7	8.6	8.7	8.8	9.0	9.0	9.0	9.0	9.0	9.0	9.0
repurchase agreements with others	13.4	11.8	10.7	15.5	4.2	7.7	11.0	9.7	10.9	10.3	10.0	7.3
	87.9 <sup>r</sup>	90.4	92.6	97.5	103.6	97.9	97.1	95.0	95.5	93.9	93.0	95.2
76 Lease-financing receivables 77 Interbank loans	100.8	118.1	119.2	120.2	121.3	122.5	123.4	126.5	129.3	125.6	124.9	126.3
	119.7	135.8	143.4	145.1	137.5	129.4	130.3	141.3	139.0	137.2	141.1	146.0
repurchase agreements with commercial banks	74.2	83.8	87.2	86.3	85.9	80.9	81.3	86.8	85.2	83.3	86.2	91.6
79 Other	45.4	52.0	56.3	58.8	51.5	48,4	49.0	54.5	53.8	53.9	55.0	54.4
	145.1	154.2	151.5	152.0	144.7	136.4	148.6	154.8	143.0	170.4	155.9	149.6
	226.7	239.1	239.6	246.0	240.7	237.5	240.6	241.2	241.5	244.7	238.6	241.2
82 Total assets <sup>6</sup>	2,883.8°	2,927.5	2,932.5	2,960.7	2,931.8	2,924.4	2,969.8	2,987.8	2,976.3	2,991.0	2,980.5	2,993.2
Liabilities           83 Deposits           84 Transaction	1,673.7 <sup>r</sup>	1,706.1	1,680.3	1,688.8	1,681.7	1,670.0	1,681.9	1,684.3	1,694.6	1,703.4	1,671.4	1,664.3
	369.7 <sup>r</sup>	368.6	349.1	353.7	344.6	328.5	335.3	329.5	324.9	340.9	325.4	328.2
85         Nontransaction           86         Large time           87         Other	1,304.0 <sup>r</sup>	1,337.5	1,331.2	1,335.1	1,337.1	1,341.6	1,346.6	1,354.8	1,369.6	1,362.5	1,346.0	1,336.1
	228.9 <sup>r</sup>	226.9	224.8	224,4	224.6	225.2	232.2	244.6	244.7	244.1	243.3	243.5
	1,075.1 <sup>r</sup>	1,110.6	1,106.3	1,110.7	1,112.6	1,116.4	1,114.3	1,110.2	1,124.9	1,118.4	1,102.7	1,092.6
88 Borrowings	600.5	628.3	641.4	645.8	630.4	621.6	647.5	656.9	644.6	645.6	662.1	667.3
	201.7	209.4	216.7	220.3	213.7	212.6	217.0	232.7	233.0	229.3	228.5	234.1
	398.7	418.9	424.7	425.5	416.7	409.0	430.5	424.2	411.5	416.4	433.6	433.1
91 Net due to related foreign offices 92 Other liabilities	110.9	109.0	121.7	137.1	135.7	144.0	146.4	161.8	153.2	158.7	164.7	168.8
	209.0	176.3	180.0	182.0	179.4	184.4	190.3	190.5	185.2	184.4	191.5	202.4
93 Total liabilities	<b>2,594.0</b> <sup>r</sup> 289.9 <sup>r</sup>	<b>2,619.7</b> 307.8	<b>2,623.4</b> 309.1	<b>2,653.7</b> 307.0	<b>2,627.2</b> 304.6	<b>2,620.1</b> 304.3	<b>2,666.0</b> 303.7	<b>2,693.6</b> 294.2	<b>2,677.6</b> 298.8	<b>2,692.2</b> 298.9	<b>2,689.7</b> 290.8	<b>2,702.7</b> 290.5
Мемо	209.9	307.8	309.1	307.0	304.0	304,3	303.7	294.2	290.0	290.9	290.8	290.3
95 Revaluation gains on off-balance- sheet items <sup>8</sup>	82.2	55.0	57.3	57.7	60.5	64.7	73.0	62.9	71.6	61.2	60.9	63.6
sheet items <sup>8</sup>	83.6	56.4	59.6	60.5	62.8	69.1	73.1	62.2	70.5	60.2	59.7	63.1
	284.5 <sup>r</sup>	270.8	266.8	264.4	269.9	274.3	276.9	273.8	275.5	275.1	271.7	273.0
	193.0 <sup>r</sup>	180.7	177.9	176.8	183.6	187,3	186.3	184.0	185.8	185.0	182.2	183.6
99 CMOs, REMICs, and other mortgage-backed securities .	91.5 <sup>r</sup>	90.1	88.8	87.6	86.3	87.1	90.7	89.7	89.7	90.1	89.5	89.4
100 Net unrealized gains (losses) on available-for-sale securities 10 101 Offshore credit to U.S. residents 11	4.4	.9	.6	.0	-3.3	-4.2	-4.9	-5.6	-5.4	-5.7	-5.7	-5.4
	38.5	37.9	37.7	37.0	36.3	32.2	27.8	26.7	27.6	27.6	27.1	25.8

# 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities<sup>1</sup>—Continued

D. Small domestically chartered commercial banks

Billions of dollars

				Monthly	averages					Wednesd	ay figures	
Account	1998				1999 <sup>r</sup>	-				19	199	
	Oct.r	Apr.	May	June	July	Aug.	Sept.	Oct.	Oct. 6	Oct. 13	Oct. 20	Oct. 27
						Seasonall	y adjusted					
Assets  1 Bank credit  2 Securities in bank credit  3 U.S. government securities  4 Other securities  5 Loans and leases in bank credit  6 Commercial and industrial  7 Real estate  8 Revolving home equity  9 Other  10 Consumer  11 Security  12 Other loans and leases  13 Interbank loans  14 Cash assets  15 Other assets  5	1,442.5 415.7 315.6 100.0 1,026.8 188.4 569.0 28.2 540.8 192.1 6.1 71.1 70.3 66.2 61.7	1.529.3 444.1 332.6 111.5 1,085.2 199.6 612.0 28.8 583.2 198.9 5.5 69.1 60.3 67.8 72.6	1,540.7 448.1 334.9 113.2 1,092.6 202.5 618.0 29.2 588.8 198.2 5.2 68.7 57.6 70.9 74.0	1.556.7 455.7 340.4 115.2 1,101.0 205.4 624.8 29.5 595.2 198.5 5.2 67.2 55.3 71.4 74.6	1,571.3 459.6 343.8 115.8 1,111.7 208.2 632.2 29.8 602.4 197.8 5.3 68.2 56.9 72.6 78.1	1,585.3 461.8 344.0 117.8 1,123.5 210.0 640.4 29.8 610.6 199.2 5.3 68.7 54.6 72.3 80.5	1,599.5 463.5 345.6 117.8 1,136.0 212.8 645.9 29.8 616.1 202.1 5.3 69.9 52.2 73.1 80.7	1,620.8 465.6 346.2 119.4 1,155.2 218.6 657.5 30.3 627.2 203.7 5.3 70.1 49.7 72.9 84.9	1.618.7 467.4 348.6 118.8 1,151.3 217.6 654.8 30.2 624.6 203.6 5.3 69.9 49.0 70.3 83.4	1,619.5 466.7 347.7 119.1 1.152.8 218.1 656.2 30.4 625.8 203.6 5.2 69.7 48.7 73.8 83.8	1,621.1 465.7 345.7 120.0 1,155.5 218.5 657.5 30.2 627.3 204.2 5.2 70.2 48.5 71.7 87.7	1,623.2 464.8 345.1 119.7 1,158.4 219.0 659.5 30.2 629.3 204.3 5.2 70.3 50.5 75.3 85.1
16 Total assets <sup>6</sup>	1,621.4	1,710.2	1,723.3	1,738.0	1,759.1	1,772.6	1,785.3	1,807.9	1,801.0	1,805.3	1,808.5	1,813.5
Liabilities	1,294.3 280.9 1,013.3 188.2 825.1 167.0 79.4 87.6 4.7 28.6	1,364.6 282.0 1,082.6 196.5 886.1 185.7 83.7 102.0 4.9 30.4	1,369.8 283.6 1,086.2 199.6 886.6 191.5 87.3 104.2 5.0 31.1	1,376.6 287.5 1,089.1 198.2 890.9 196.1 91.2 104.9 4.1 32.1	1,388.5 287.0 1,101.5 196.2 905.3 206.9 97.2 109.8 4.3 31.3	1,396.3 288.4 1,107.9 199.1 908.8 208.6 95.8 112.8 3.5 33.1	1,399.0 285.7 1,113.3 200.8 912.4 214.0 96.1 117.9 3.4 34.2	1,416.9 285.7 1.131.3 205.3 926.0 214.4 92.7 121.6 4.3 34.4	1,410.6 279.1 1,131.6 204.1 927.4 213.9 93.0 120.9 4.2 34.7	1,415.2 283.6 1,131.7 204.6 927.0 215.0 93.2 121.8 4.6 34.3	1,413.6 285.4 1,128.2 204.9 923.3 217.6 94.7 123.0 4.1 34.2	1,422.7 295.8 1,127.0 205.6 921.4 212.4 90.9 121.5 4.5 34.9
27 Total liabilities	1,494.4	1,585.6	1,597.5	1,608.9	1,631.1	1,641.4	1,650.6	1,670.0	1,663.3	1,669.1	1,669.5	1,674.4
28 Residual (assets less liabilities) <sup>7</sup>	126.9	124.6	125.8	129.0	128.1	131.2	134.7	137.9	137.6	136.2	139.0	139.0
,						Not seasona	ally adjusted					
Assets 29 Bank credit 30 Securities in bank credit 31 U.S. government securities 32 Other securities 33 Loans and leases in bank credit 34 Commercial and industrial 35 Real estate 36 Revolving home equity 37 Other 38 Consumer 39 Security <sup>3</sup> 40 Other loans and leases 41 Interbank loans 42 Cash assets <sup>4</sup> 43 Other assets <sup>5</sup>	1.441.6 412.8 312.9 99.9 1,028.8 187.1 570.5 28.4 542.0 192.7 6.1 72.4 71.8 65.5 61.9	1,534.4 449.0 336.8 112.2 1,085.4 201.7 611.8 28.7 583.1 197.8 5.5 68.5 61.2 67.8 73.0	1.550.8 453.5 339.4 114.0 1,097.3 205.2 620.4 29.1 591.2 197.9 5.2 68.7 53.3 70.5 74.0	1,563.8 457.5 342.3 115.2 1,106.3 207.3 627.6 29,4 598.2 197.7 5.2 68.5 52.2 70.3 76.2	1,572.6 457.9 342.2 115.6 1,114.7 208.0 634.3 29.5 604.8 197.3 5.3 69.8 52.8 70.7 79.3	1,587.5 460.2 342.2 118.0 1,127.3 208.7 642.5 29.7 612.8 199.7 5.3 71.0 52.0 69.1 81.2	1,602.7 461.1 343.8 117.3 1,141.6 211.7 649.3 30.0 619.3 203.2 5.3 72.1 51.1 71.8 81.1	1,619.6 462.5 343.3 119.2 1,157.1 217.2 658.9 30.5 628.5 204.3 5.3 71.4 50.8 72.1 85.0	1,615.9 463.3 345.0 118.3 1,152.6 216.0 656.0 30.4 625.6 203.6 5.3 71.7 51.2 69.3 84.8	1,619.0 463.8 345.0 118.8 1,155.2 216.6 658.0 30.6 627.4 204.0 5.2 71.4 49.6 77.2 85.5	1,620.4 462.6 342.8 119.8 1,157.8 217.2 658.9 30.4 628.5 205.2 71.4 48.6 69.7 85.7	1,622.8 462.4 342.6 119.9 1,160.4 217.4 661.1 30.5 630.6 205.5 5.2 71.1 49.0 70.9 82.9
44 Total assets <sup>6</sup>	1,621.5	1,716.6	1,728.7	1,742.5	1,755.7	1,769.7	1,786.4	1,807.0	1,800.7	1,810.7	1,803.8	1,805.1
Liabilities	1,296.9 277.9 1,019.0 188.2 830.7 169.4 81.1 88.3 4.7 27.8	1,369.8 285.7 1.084.1 196.5 887.6 183.1 82.0 101.1 4.9 31.1	1,372.4 281.2 1,091.2 199.6 891.6 191.9 87.1 104.8 5.0 31.3	1,380.0 286.5 1.093.5 198.2 895.3 197.3 91.4 105.9 4.1 31.9	1.386.0 283.1 1,102.9 196.2 906.6 206.7 96.3 110.4 4.3 31.4	1,394.9 281.5 1,113.4 199.1 914.3 208.6 95.1 113.5 3.5 32.9	1,402.1 282.8 1,119.3 200.8 918.4 216.6 96.6 120.0 3.4 33.5	1,420.8 282.6 1.138.2 205.3 932.9 217.3 94.7 122.6 4.3 33.5	1,417.6 279.7 1,137.9 204.1 933.7 213.7 93.3 120.3 4.2 33.6	1,425.0 285.1 1,139.9 204.6 935.3 216.3 94.3 121.9 4.6 33.5	1,414.4 279.9 1,134.5 204.9 929.6 221.5 97.2 124.3 4.1 33.4	1,415.9 284.2 1,131.7 205.6 926.1 218.6 94.5 124.1 4.5 34.0
55 Total liabilities	1,498.7	1,588.9	1,600.6	1,613.3	1,628.3	1,639.8	1,655.6	1,675.9	1,669.0	1,679.3	1,673.3	1,673.0
56 Residual (assets less liabilities) <sup>7</sup>	122.7	127.7	128.0	129.3	127.3	129.9	130.8	131.1	131.7	131.4	130.4	132.1
MEMO 57 Mortgage-backed securities <sup>9</sup>	51.4	64.9	68.7	69.9	70.4	70.1	70.6	72.8	73.3	73.3	72.6	72.5

# 

# 1.26 COMMERCIAL BANKS IN THE UNITED STATES Assets and Liabilities —Continued

E. Foreign-related institutions

Billions of dollars

	Monthly averages Wednesday figures  1998 1999 1999											
Account	1998				1999					19	99	
	Oct.	Apr.	May	June	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct.	Oct. 6	Oct. 13	Oct. 20	Oct. 27
			Γ			Seasonall	y adjusted			ı		
Assets  1 Bank credit  2 Securities in bank credit  3 U.S. government securities  4 Other securities  5 Loans and leases in bank credit  6 Commercial and industrial  7 Real estate  8 Security  9 Other loans and leases  10 Interbank loans  11 Cash assets  12 Other assets	619.0° 218.8° 81.2° 137.5 400.2° 223.1° 23.5 70.1 83.4° 25.6 35.5 38.5	550.1 <sup>r</sup> 200.4 <sup>r</sup> 89.5 <sup>r</sup> 110.9 349.7 209.3 <sup>r</sup> 20.0 <sup>r</sup> 51.9 <sup>r</sup> 68.6 <sup>r</sup> 25.4 34.6 37.5	539.8° 196.0° 87.2° 108.7 343.9° 201.9° 19.8 53.3° 68.8° 26.6 35.9 35.9	532.4° 196.0° 88.4° 107.6 336.4° 196.7° 19.2 52.0° 68.5° 24.5 33.5 33.4	520.5 189.6 85.9 103.7 330.9 192.7 18.4 52.6 67.2 27.4 35.0 32.1	523.6 189.9 84.0 105.9 333.7 195.5 17.6 54.9 65.8 25.7 38.0 29.0	518.6 189.1 81.6 107.5 329.4 197.2 17.6 51.3 63.4 22.9 40.8 29.3	517.8 186.6 79.8 106.9 331.2 199.0 17.8 51.6 62.8 22.9 44.1 31.8	518.8 189.0 81.8 107.2 329.8 198.3 18.0 50.7 62.8 21.8 43.9 30.0	515.8 186.3 79.7 106.6 329.5 198.9 17.8 50.4 62.4 21.2 42.3 32.1	516.9 185.4 78.3 107.1 331.5 200.1 17.8 51.1 62.6 21.4 43.6 32.1	519.5 187.8 80.6 107.3 331.7 198.9 17.8 52.0 63.0 26.2 44.6 32.3
13 Total assets <sup>6</sup>	718.3 <sup>r</sup>	647.3 <sup>r</sup>	638.0 <sup>r</sup>	623.6 <sup>r</sup>	614.8	616.1	611.3	616.4	614.3	611.1	613.7	622.4
Liabilities   14 Deposits   15 Transaction   16 Nontransaction   17 Borrowings   18 From banks in the U.S.   19 From others   20 Net due to related foreign offices   21 Other liabilities   21 Other liabilities   22   23   24   25   25   26   26   27   27   27   27   27   27	316.1 15.4 300.7 215.8 30.8 185.0 105.7 79.0	311.9 10.1 301.8 172.1 21.0 151.1 94.8 67.2	310.4 10.5 299.9 172.7 21.4 151.3 85.2 59.9	305.7 10.9 294.8 180.9 26.6 154.4 69.4 61.4	310.5 10.9 299.5 172.3 24.5 147.8 67.3 63.4	309.2 11.0 298.2 172.1 23.6 148.6 72.0 61.7	311.1 10.9 300.3 168.9 25.3 143.7 66.1 64.5	331.3 11.5 319.8 169.6 22.8 146.8 54.4 62.8	319.5 11.4 308.2 166.8 23.4 143.4 66.7 62.8	328.8 11.6 317.3 168.0 19.9 148.1 52.3 62.5	333.3 11.9 321.4 169.7 22.7 147.1 51.0 62.3	336.0 11.4 324.6 170.2 22.5 147.7 50.3 63.8
22 Total liabilities	716.5	645.9	628.3	617.5	613.5	615.0	610.7	618.2	615.8	611.6	616.4	620.4
23 Residual (assets less liabilities) <sup>7</sup>	1.7 <sup>r</sup>	1.4 <sup>r</sup>	9.7 <sup>r</sup>	6.1 <sup>r</sup>	1.3	1.1	.6	~1.8	-1.4	5	-2.6	2.0
						Not seasons	ally adjusted					
Assets  24 Bank credit  25 Securities in bank credit  26 U.S. government securities  27 Trading account  28 Investment account  29 Other securities  30 Trading account  31 Investment account  32 Loans and leases in bank credit <sup>2</sup> 33 Commercial and industrial  34 Real estate  35 Security <sup>3</sup> 36 Other loans and leases  37 Interbank loans  38 Cash assets <sup>4</sup> 39 Other assets <sup>5</sup>	623.27 221.97 81.27 17.57 63.77 140.7 91.7 49.0 401.3 224.17 23.87 69.97 83.67 25.6 35.9 38.3	547.2 <sup>r</sup> 198.8 <sup>r</sup> 89.2 <sup>r</sup> 22.9 <sup>r</sup> 66.3 <sup>r</sup> 109.6 66.5 43.1 348.4 207.8 <sup>r</sup> 19.7 51.9 <sup>r</sup> 69.0 <sup>r</sup> 25.4 33.5 35.7	534.6 <sup>r</sup> 194.3 <sup>r</sup> 88.0 <sup>r</sup> 20.0 <sup>r</sup> 68.0 <sup>r</sup> 106.3 64.8 41.4 340.3 <sup>r</sup> 199.3 <sup>r</sup> 199.6 53.0 <sup>r</sup> 68.5 <sup>r</sup> 26.6 35.6	529.3 <sup>r</sup> 195.1 <sup>r</sup> 88.8 <sup>r</sup> 21.6 <sup>r</sup> 67.1 <sup>r</sup> 106.3 63.3 43.0 334.2 <sup>r</sup> 195.0 <sup>r</sup> 19.0 52.2 <sup>r</sup> 68.0 <sup>r</sup> 24.5 34.3 32.4	517.3 188.0 85.4 19.9 65.5 102.5 60.9 41.7 329.3 191.9 18.2 52.2 67.0 27.4 34.9 31.4	519.9 188.7 83.0 17.3 65.7 105.6 65.2 40.5 331.2 193.8 17.5 55.0 65.0 25.7 37.7 29.6	517.7 188.5 80.7 15.6 65.1 107.8 70.0 37.8 329.2 196.8 17.6 51.4 63.3 22.9 40.6 29.7	521.8 189.3 79.7 14.8 64.9 109.6 71.8 37.8 332.4 200.1 18.0 51.4 63.0 22.9 44.7 31.7	520.7 189.1 80.6 15.1 65.5 108.4 70.7 37.7 331.7 199.6 18.2 50.8 63.2 21.8 43.9 30.0	519.3 189.0 79.3 14.5 64.8 109.7 72.3 37.5 330.3 18.0 50.4 62.6 21.2 42.7 32.2	520.4 187.7 78.4 14.1 64.3 109.2 70.9 38.4 332.7 200.8 17.9 50.8 63.2 21.4 44.4 31.9	523.7 191.7 81.0 16.8 64.3 110.6 73.0 37.7 332.0 200.1 17.9 51.0 63.0 26.2 45.7 31.8
40 Total assets <sup>6</sup>	722.7 <sup>r</sup>	641.6 <sup>r</sup>	631.7°	620.3 <sup>r</sup>	610.8	612.6	610.5	620.8	616.2	615.0	617.8	627.1
Liabilities   4   Deposits   4   Deposits   4   Transaction   4   4   Borrowings   4   5   From banks in the U.S.   4   6   From others   4   7   Net due to related foreign offices   4   4   Other liabilities   4   6   Company   4   Compa	316.5 15.3 301.2 215.8 30.8 185.0 107.9 78.3	311.3 9.9 301.4 172.1 21.0 151.1 89.2 66.1	312.8 10.3 302.5 172.7 21.4 151.3 83.4 59.4	306.4 10.7 295.7 180.9 26.6 154.4 68.1 61.0	308.0 10.8 297.2 172.3 24.5 147.8 64.8 62.5	306.6 10.9 295.7 172.1 23.6 148.6 69.8 61.8	310.7 11.4 299.3 168.9 25.3 143.7 64.5 64.1	331.4 11.5 319.9 169.6 22.8 146.8 56.2 62.2	320.5 11.3 309.2 166.8 23.4 143.4 65.0 61.8	328.0 11.6 316.5 168.0 19.9 148.1 54.7 61.7	332.5 11.9 320.6 169.7 22.7 147.1 52.3 61.5	337.3 11.4 325.9 170.2 22.5 147.7 55.5 63.7
49 Total liabilities	718.5	638.7	628.2	616.4	607.6	610.4	608.3	619.4	614.0	612,4	616.1	626.7
50 Residual (assets less liabilities)?  MEMO	4.2 <sup>r</sup>	2.9'	3.4 <sup>r</sup>	3.9 <sup>r</sup>	3.2	2.2	2.2	1.4	2.2	2.7	1.7	.4
51 Revaluation gains on off-balance-sheet items <sup>8</sup>	51.9 47.5	38.2 38.6	35.3 34.8	34.9 34.1	37.3 36.3	38.1 36.3	38.3 37.3	35.9 35.2	35.8 34.6	36.3 35.3	35.7 34.8	36.1 36.0

#### NOTES TO TABLE 1.26

NOTE. Tables 1.26, 1.27, and 1.28 have been revised to reflect changes in the Board's H.8 statistical release, "Assets and Liabilities of Commercial Banks in the United States, statistical release. Assets and Liabilities of Large Weekly Reporting Commercial Banks," and table 1.27, "Assets and Liabilities of Large Weekly Reporting Commercial Banks," and table 1.28, "Large Weekly Reporting U.S. Branches and Agencies of Foreign Banks," are no longer being published in the Bulletin. Instead, abbreviated balance sheets for both large and small domestically chartered banks have been included in table 1.26, parts C and D. Data are both merger-adjusted and break-adjusted. In addition, data from large weekly reporting U.S. branches and appropriet foreign bank have been replaced by halpers these activates of branches and agencies of foreign banks have been replaced by balance sheet estimates of all foreign-related institutions and are included in table 1.26. part E. These data are break-

adjusted.

The not-seasonally-adjusted data for all tables now contain additional balance sheet items, which were available as of October 2, 1996.

1. Covers the following types of institutions in the fifty states and the District of Columbia: domestically chartered commercial banks that submit a weekly report of condition (large domestic); other domestically chartered commercial banks (small domestic); branches and agencies of foreign banks, and Edge Act and agreement corporations (foreign-related institutions). Excludes International Banking Facilities. Data are Wednesday values or pro rata averages of Wednesday values. Large domestic banks constitute a universe; data for small domestic banks and foreign-related institutions are estimates based on weekly samples and on quarter-end condition reports. Data are adjusted for breaks caused by reclassifications of assets and liabilities.

The data for large and small domestic banks presented on pp. A17-19 are adjusted to remove the estimated effects of mergers between these two groups. The adjustment for mergers changes past levels to make them comparable with current levels. Estimated quantities of balance sheet items acquired in mergers are removed from past data for the bank

group that contained the acquired bank and put into past data for the group containing the acquiring bank. Balance sheet data for acquired banks are obtained from Call Reports, and a ratio procedure is used to adjust past levels.

2. Excludes federal funds sold to, reverse RPs with, and loans made to commercial banks in the United States, all of which are included in "Interbank loans."

3. Consigning of pages. PRs. with backers and dealers and loans to purchase and carry.

- 3. Consists of reverse RPs with brokers and dealers and loans to purchase and carry
- 4. Includes vault cash, cash items in process of collection, balances due from depository institutions, and balances due from Federal Reserve Banks.
- 5. Excludes the due-from position with related foreign offices, which is included in "Net due to related foreign offices.
- 6. Excludes unearned income, reserves for losses on loans and leases, and reserves for transfer risk. Loans are reported gross of these items.
- 7. This balancing item is not intended as a measure of equity capital for use in capital adequacy analysis. On a seasonally adjusted basis this item reflects any differences in the seasonal patterns estimated for total assets and total liabilities.

  8. Fair value of derivative contracts (interest rate, foreign exchange rate, other commodity and
- equity contracts) in a gain/loss position, as determined under FASB Interpretation No. 39.

  9. Includes mortgage-backed securities issued by U.S. government agencies, U.S.
- 9. Includes montgage-roaced sections and private entities.
  10. Difference between fair value and historical cost for securities classified as available-for-sale under FASB Statement No. 115. Data are reported net of tax effects. Data shown are restated to include an estimate of these tax effects
- 11. Mainly commercial and industrial loans but also includes an unknown amount of credit extended to other than nonfinancial businesses.

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

A. Commercial Paper

Millions of dollars, seasonally adjusted, end of period

		Year	ending Dece	mber		-		19	99		
Item	1994	1995	1996	1997	1998	Apr.	May	June	July	Aug.r	Sept.
1 All issuers	595,382	674,904	775,371	966,699	1,163,303	1,219,789	1,230,009	1,221,020	1,242,107	1,257,658	1,274,726
Financial companies <sup>t</sup>											
2 Dealer-placed paper, total <sup>2</sup>	223,038 207,701	275,815 210,829	361,147 229,662	513,307 252,536	614,142 322,030	697,030 276,721	710,857 268,129	705,603 272,014	712,718 277,570	710,320 290,228	718,380 293,381
4 Nonfinancial companies <sup>4</sup>	164,643	188,260	184,563	200,857	227,132	246,038	251,023	243,404	251,819	257.110	262,965

<sup>1.</sup> Institutions engaged primarily in commercial, savings, and mortgage banking; sales, personal, and mortgage financing, factoring, finance leasing, and other business lending insurance underwriting; and other investment activities.

#### B. Bankers Dollar Acceptances<sup>1</sup>

Millions of dollars, not seasonally adjusted, year ending September<sup>2</sup>

Item	1995	1996	1997	1998
1 Total amount of reporting banks' acceptances in existence	29,242	25,832	25,774	14,363
Amount of other banks' eligible acceptances held by reporting banks	1,249 10,516	709 7,770	736 6,862	523 4,884
(included in item 1)	11.373	9,361	10,467	5,413

<sup>1.</sup> Includes eligible, dollar-denominated bankers acceptances legally payable in the United States. Eligible acceptances are those that are eligible for discount by Federal Reserve Banks. that is, those acceptances that meet the criteria of Paragraph 7 of Section 13 of the Federal Reserve Act (12 U.S.C. §372).

## 1.33 PRIME RATE CHARGED BY BANKS Short-Term Business Loans<sup>1</sup>

Percent per year

Date of change	Rate	Period	Average rate	Period	Average rate	Period	Average rate
1996—Jan. 1	8.50 8.25 8.50 8.25 8.00 7.75 8.00 8.25 8.50	1996 1997 1998 1996—Jan. Feb. Mar. Apr. May June July Aug Sept. Oct. Nov. Dec.	8.27 8.44 8.35 8.25 8.25 8.25 8.25 8.25 8.25 8.25 8.2	1997—Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov Dec 1998—Jan. Feb. Mar. Apr. May June	8.25 8.25 8.30 8.50 8.50 8.50 8.50 8.50 8.50 8.50 8.5	1998—July	8.50 8.50 8.49 8.12 7.89 7.75 7.75 7.75 7.75 7.75 8.00 8.25 8.25 8.37

<sup>1.</sup> The prime rate is one of several base rates that banks use to price short-term business loans. The table shows the date on which a new rate came to be the predominant one quoted by a majority of the twenty-five largest banks by asset size, based on the most recent Call

Report. Data in this table also appear in the Board's H.15 (519) weekly and G.13 (415) monthly statistical releases. For ordering address, see inside front cover

<sup>2.</sup> Includes all financial-company paper sold by dealers in the open market.

As reported by financial companies that place their paper directly with investors.
 Includes public utilities and firms engaged primarily in such activities as communications, construction, manufacturing, mining, wholesale and retail trade, transportation, and services.

<sup>2.</sup> Data on bankers dollar acceptances are gathered from approximately 65 institutions; includes U.S. chartered commerical banks (domestic and foreign offices), U.S. branches and agencies of foreign banks, and Edge and agreement corporations. The reporting group is revised every year.

#### 1.35 INTEREST RATES Money and Capital Markets

Percent per year; figures are averages of business day data unless otherwise noted

					19	999			199	99, week end	ding	_
ltem	1996	1997	1998	July	Aug.	Sept.	Oct.	Oct. 1	Oct. 8	Oct. 15	Oct. 22	Oct. 29
MONEY MARKET INSTRUMENTS												
1 Federal funds <sup>1,2,3</sup>	5.30	5.46	5,35	4.99	5.07	5.22	5.20	5.27	5.27	5.17	5.18	5.18
	5.02	5.00	4.92	4.50	4.56	4.75	4.75	4.75	4.75	4.75	4.75	4.75
Commercial paper <sup>3,5,6</sup> Nonfinancial												
3 1-month	n.a.	5.57	5.40	5.06	5.18	5.28	5.28	5.29	5.30	5.28	5.27	5.27
	n.a.	5.57	5.38	5.08	5.23	5.29	5.30	5.30	5.30	5.31	5.30	5.30
	n.a	5.56	5.34	5.11	5.25	5.32	5.88	5.30	5.90	5.87	5.96	5.90
Financial 6 1-month 7 2-month 8 3-month	n.a.	5.59	5.42	5.08	5.20	5.29	5.29	5.31	5.31	5.30	5.28	5.28
	n.a.	5.59	5.40	5.10	5.24	5.31	5.32	5.32	5.33	5.32	5.31	5.31
	n.a.	5.60	5.37	5.14	5.28	5.32	5.93	5.32	5.93	5.95	5.99	5.97
Commercial paper (historical) 3.5.7   9   1-month	5.43	5.54	n.a.	n.a	n.a.	n.a.	n.a.	n.a.	n.a	n.a.	n.a.	n.a.
	5.41	5.58	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a	n.a.	n.a.	n.a.
	5.42	5.62	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Finance paper, directly placed (historical) \$3.58   12   1-month   13   3-month   14   6-month   15   16   17   17   17   17   17   18   18   18	5.31	5.44	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	5.29	5.48	n.a.	n.a	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	5.21	5.48	n.a.	n.a	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Bankers acceptances 3.5,9           15         3-month           16         6-month	5.31	5.54	5.39	5.16	5.30	5.37	6.02	5.50	6.00	6.00	6.01	6.06
	5.31	5.57	5.30	5.42	5.64	5.75	5.89	5.77	5.82	5.90	5.90	5.95
Certificates of deposit, secondary marker <sup>3,10</sup> 17 1-month 18 3-month 19 6-month	5.35	5.54	5.49	5.13	5.25	5.34	5.36	5.35	5.37	5.36	5.36	5.36
	5.39	5.62	5.47	5.24	5.41	5.50	6.13	5.79	6.10	6.13	6.15	6.14
	5.47	5.73	5.44	5.58	5.83	5.89	6.04	5.90	6.00	6.05	6.09	6.07
20 Eurodollar deposits, 3-month <sup>3,11</sup>	5.38	5.61	5.45	5.21	5.36	5.48	6.09	5.74	6.06	6.09	6.14	6.12
U.S. Treasury bills Secondary market 1-5 21 3-month 22 6-month 23 1-year Auction high 1-5 24 3-month 25 6-month 26 1-year	5.01	5.06	4.78	4.55	4.72	4.68	4.86	4.71	4.69	4.84	4.97	4.96
	5.08	5.18	4.83	4.58	4.87	4.88	4.98	4.79	4.88	4.94	5.03	5.10
	5.22	5.32	4.80	4.75	4.91	4.96	5.12	4.94	5.03	5.11	5.16	5.20
	5.02	5.07	4.81	4.60	4.76	4.73	4.88	4.72	4.73	4.78	4.99	5.00
	5.09	5.18	4.85	4.62	4.88	4.91	4.98	4.81	4.87	4.93	5.00	5.12
	5.23	5.36	4.85	4.71	4.95	5.00	5.12	n.a.	n.a.	5.12	n.a.	n.a.
U.S. TREASURY NOTES AND BONDS	5125		1.00					11.47	23,647		,	
Constant maturities <sup>13</sup> 27 1-year 28 2-year 29 3-year 30 5-year 31 7-year 32 10-year 33 20-year 34 30-year	5.52	5.63	5.05	5.03	5.20	5.25	5.43	5.24	5.34	5.42	5.47	5.51
	5.84	5.99	5.13	5.55	5.68	5.66	5.86	5.66	5.78	5.85	5.92	5.92
	5.99	6.10	5.14	5.62	5.77	5.75	5.94	5.73	5.87	5.92	5.99	6.01
	6.18	6.22	5.15	5.68	5.84	5.80	6.03	5.81	5.95	6.03	6.09	6.09
	6.34	6.33	5.28	5.94	6.15	6.12	6.33	6.12	6.24	6.35	6.40	6.36
	6.44	6.35	5.26	5.79	5.94	5.92	6.11	5.92	6.02	6.11	6.18	6.16
	6.83	6.69	5.72	6.28	6.43	6.50	6.66	6.50	6.58	6.68	6.74	6.68
	6.71	6.61	5.58	5.98	6.07	6.07	6.26	6.09	6.17	6.28	6.34	6.30
Composite 35 More than 10 years (long-term)	6.80	6.67	5.69	6.22	6.37	6.43	6.60	6.43	6.51	6.61	6.67	6.61
STATE AND LOCAL NOTES AND BONDS												
Moody's series <sup>14</sup> 36 Aaa 37 Baa 38 Bond Buyer series <sup>15</sup>	5.52	5.32	4.93	5.24	5.47	5.56	5.78	5.56	5.69	5.75	5.82	5.85
	5.79	5.50	5.14	5.64	5.93	6.06	6.23	6.10	6.15	6.20	6.26	6.31
	5.76	5.52	5.09	5.36	5.58	5.69	5.92	5.73	5.80	5.89	5.98	5.99
CORPORATE BONDS												
39 Seasoned issues, all industries 16	7.66	7.54	6.87	7.57	7.77	7.78	7.93	7.79	7.84	7.95	8.00	7.95
Rating group 40 Aaa 41 Aa 42 A 43 Baa	7.37	7.27	6.53	7.19	7.40	7.39	7.55	7.39	7.47	7.59	7.64	7.55
	7.55	7.48	6.80	7.48	7.68	7.68	7.79	7.67	7.71	7.80	7.85	7.83
	7.69	7.54	6.93	7.65	7.84	7.84	7.99	7.85	7.91	8.01	8.06	8.01
	8.05	7.87	7.22	7.95	8.15	8.20	8.38	8.24	8.28	8.40	8.44	8.42
MEMO Dividend-price ratio 17 44 Common stocks	2.19	1.77	1.49	1.20	1.25	1.27	1.28	1.31	1.26	1.29	1.29	1.29

- 1. The daily effective federal funds rate is a weighted average of rates on trades through New York brokers.
- Weekly figures are averages of seven calendar days ending on Wednesday of the current week; monthly figures include each calendar day in the month.
- 3. Annualized using a 360-day year or bank interest.
  4. Rate for the Federal Reserve Bank of New York.
  5. Quoted on a discount basis.
  6. Interest rates interpolated from data on certain commercial paper trades settled by the Depository Trust Company. The trades represent sales of commercial paper by dealers or direct issuers to investors (that is, the offer side). See Board's Commercial Paper Web pages
- direct issuers to investors (that is, the other side). See Board's Commercial Paper Web pages (http://www.federalreserve.gov/releases/cp) for more information.

  7. An average of offering rates on commercial paper for firms whose bond rating is AA or the equivalent. Series ended August 29, 1997.

  8. An average of offering rates on paper directly placed by finance companies. Series ended August 29, 1997.

  9. Representative closing yields for acceptances of the highest-rated money center banks.
- 10. An average of dealer offering rates on nationally traded certificates of deposit.

- 11. Bid rates for Eurodollar deposits collected around 9:30 a.m. Eastern time. Data are for
- 11. But rates for Europoilar deposits collected around 9-30 a.m. Eastern time. Data are for indication purposes only.

  12. Auction date for daily data: weekly and monthly averages computed on an issue-date basis. On or after October 28, 1998, data are stop yields from uniform-price auctions. Before that, they are weighted average yields from multiple-price auctions.

  13. Yields on actively traded issues adjusted to constant maturities. Source: U.S. Departations of the contraction of
- ment of the Treasury.

  14. General obligation bonds based on Thursday figures; Moody's Investors Service.
- 15. State and local government general obligation bonds maturing in twenty years are used in compiling this index. The twenty-bond index has a rating roughly equivalent to Moodys'
- Al rating. Based on Thursday figures.

  16. Daily figures from Moody's Investors Service. Based on yields to maturity on selected
- long-term bonds.

  17. Standard & Poor's corporate series. Common stock ratio is based on the 500 stocks in
- the price index.

  NOTE. Some of the data in this table also appear in the Board's H.15 (519) weekly and G.13 (415) monthly statistical releases. For ordering address, see inside front cover.

#### STOCK MARKET Selected Statistics

	1006	1997	1998					1999				
Indicator	1996	1997	1998	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
				Pri	ces and trad	ing volume	(averages o	f daily figur	es) <sup>1</sup>			
Common stock prices (indexes)  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) <sup>2</sup>	357.98 453.57 327.30 126.36 303.94 670.49	456.99 574.97 415.08 143.87 424.84 873.43	550.65 684.35 468.61 190.52 516.65	588.70 736.20 477.47 218.24 514.75	603.69 751.93 491.25 218.11 544.08	627.75 780.84 523.08 228.48 564.99	635.62 791.72 537.88 242.98 562.66	629.53 783.96 520.66 241.36 546 43	648.83 809.33 528.72 250.50 557.92	621.03 778.82 492.13 241.84 521.59	607.87 769.47 462.33 237.71 493.37	599.04 753.94 450.13 285.16 490.92
7 American Stock Exchange (Aug. 31, 1973 = 50) <sup>3</sup> Volume of trading (thousands of shares) 8 New York Stock Exchange 9 American Stock Exchange	570.86 409,740	628.34 523,254 24,390	682.69 666,534 28,870	699.15 756,932 31,774	711.08 776,538 29,563	748.29 874,818 38,895	787.02 785,778 35,241	772.01	803.75 721,294 25,754	781.33 709,569 27,795	788.74 772,627	786.96 882,422 35.762
9 American Stock Exchange	22,567	24,390	20,870			(millions of		28,806 d-of-period	,	21,193	32,540	33,702
10 Margin credit at broker-dealers <sup>4</sup>	97,400	126,090	140,980	151,530	156,440	172,880	177,984	176,930	178,360	176,390	179,316	182,272
Free credit balances at brokers <sup>5</sup> 11 Margin accounts <sup>6</sup> 12 Cash accounts	22,540 40,430	31,410 52,160	40,250 62,450	38,850 57,910	40,120 59,435	41,200 60,870	41,250 61,665	42,865 64,100	44,330 60,000	44,230 62,600	47,125 62,810	51,040 61,085
				Margin r	equirements	(percent of	market vah	ue and effec	tive date)7			
	Mar. 1	1, 1968	June 8	3, 1968	May (	5, 1970	Dec. 6	5, 1971	Nov. 2	4, 1972	Jan. 3	, 1974
13 Margin stocks 14 Convertible bonds 15 Short sales	5	70 50 70	(	80 60 80	1 :	65 50 65		55 50 55		65 50 65		50 50 50

6. Series initiated in June 1984.
7. Margin requirements, stated in regulations adopted by the Board of Governors pursuant to the Securities Exchange Act of 1934, limit the amount of credit that can be used to purchase and carry "margin securities" (as defined in the regulations) when such credit is collateralized by securities. Margin requirements on securities are the difference between the confiderance of securities, magin requirements on securities are the dimerence 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.

<sup>1.</sup> Daily data on prices are available upon request to the Board of Governors. For ordering address, see inside front cover.

2. In July 1976 a financial group, composed of banks and insurance companies, was added to the group of stocks on which the index is based. The index is now based on 400 industrial stocks (formerly 425), 20 transportation (formerly 15 rail), 40 public utility (formerly 60), and

<sup>3.</sup> On July 5, 1983, the American Stock Exchange rebased its index, effectively cutting

On July 5, 1983, the American Stock Exchange rebased its index, effectively cutting previous readings in half.
 Since July 1983, under the revised Regulation T, margin credit at broker-dealers has included credit extended against stocks, convertible bonds, stocks acquired through the exercise of subscription rights, corporate bonds, and government securities. Separate reporting of data for margin stocks, convertible bonds, and subscription issues was discontinued in April 1984.
 Free credit balances are amounts in accounts with no unfulfilled commitments to brokers and are subject to withdrawal by customers on demand.

#### 1.38 FEDERAL FISCAL AND FINANCING OPERATIONS

Millions of dollars

		Fiscal year				Calend	lar year		
Type of account or operation	1007		1000			19	99		
	1997	1998	1999	May	June	July	Aug.	Sept.	Oct.
U.S. budget <sup>1</sup> 1 Receipts, total  2 On-budget  3 Off-budget  4 Outlays, total  5 On-budget  7 Surplus or deficit (-), total  8 On-budget  On-budget  Source of financing (total)  10 Borrowing from the public  11 Operating cash (decrease, or increase (-))	1,579,292 1,187,302 391,990 1,601,235 1,290,609 310,626 -21,943 -103,307 81,364 38,171 604 -16,832	1,721.798 1,305,999 415,799 1,652,552 1,335,948 316,604 69,246 -29,949 99,195 -51,211 4,743 -22,778	1,827,285 1,382,817 444,468 1,703,639 1,382,861 320,778 123,646 -45 123,691 -88,304 -17,780 -17,780	98,663 62,722 35,941 122,631 91,434 31,197 -23,969 -28,712 4,744 -551 32,495 -7,975	199,507 156,929 42,578 145,939 136,141 9,799 53,568 20,788 32,779 -22,246 -27,459 -3,863	121,923 87,959 33,964 147,086 117,652 29,434 -25,164 -29,693 4,530 1,193 13,553 10,418	126,324 91,554 34,770 129,127 97,984 31,143 -2,803 -6,430 3,627 26,470 3,160 -26,827	200,396 161,304 39,092 143,059 108,846 35,119 57,336 52,458 3,973 -47,718 -20,069 10,451	121,035 89,009 32,026 147,701 119,506 28,196 -26,667 -30,497 3,830 5,754 8,891 12,022
MEMO 13 Treasury operating balance (level, end of period) 14 Federal Reserve Banks 15 Tax and loan accounts	43,621 7,692 35,930	38,878 4,952 33,926	56,458 6,641 49,817	25,643 5,506 20,586	53,102 6,720 46,382	39,549 4,984 34,565	36,389 5,559 30,831	56,458 6,641 49,817	47,567 4,527 43,040

net gain or loss for U.S. currency valuation adjustment; net gain or loss for IMF loan-valuation adjustment; and profit on sale of gold. SOURCE. Monthly totals: U.S. Department of the Treasury, Monthly Treasury Statement of Receipts and Outlays of the U.S. Government; fiscal year totals: U.S. Office of Management and Budget, Budget of the U.S. Government.

<sup>1.</sup> Since 1990, off-budget items have been the social security trust funds (federal old-age survivors insurance and federal disability insurance) and the U.S. Postal Service.

2. Includes special drawing rights (SDRs); reserve position on the U.S. quota in the International Monetary Fund (IMF); loans to the IMF; other cash and monetary assets; accrued interest payable to the public; allocations of SDRs; deposit funds; miscellaneous liability (including checks outstanding) and asset accounts; seigniorage; increment on gold;

#### 1.39 U.S. BUDGET RECEIPTS AND OUTLAYS1

Millions of dollars

Source or type	Fiscal year		Calendar year						
	1998	1999	1997	1998		1999	1999		
			H2	ні	Н2	HI	Aug.	Sept.	Oct.
RECEIPTS									
1 All sources	1,721,798	1,827,285	773,810	922,630	825,057	966,045	126,324	200,396	121,035
2 Individual income taxes, net 3 Withheld	828,586 646,483 281,527 99,476	879,480 693,940 308,185 122,706	354,072 306,865 58,069 10,869	447,514 316,309 219,136 87,989	392,332 339,144 65,204 12,032	481,527 351,068 240,278 109,467	60,709 57,476 5,163 1,921	89,250 49,244 43,077 3,072	63,505 57,596 7,129 1,221
Construction income taxes Corporation income taxes Refunds Social insurance taxes and contributions, net Employment taxes and contributions <sup>2</sup> Unemployment insurance Unemployment insurance	213,249 24,593 571,831 540,014 27,484 4,333	216,325 31,645 611,832 580,880 26,480 4,472	104,659 10,135 260,795 247,794 10,724 2,280	109,353 14,220 312,713 293,520 17,080 2,112	104,163 14,250 268,466 256,142 10,121 2,202	106,861 17,092 324,831 306,235 16,378 2,216	5,115 1,418 49,389 44,960 4,085 344	42,571 2,336 55,481 54,794 332 356	7,175 4,995 43,879 42,412 1,049 418
12 Excise taxes 13 Customs deposits 14 Estate and gift taxes. 15 Miscellaneous receipts <sup>4</sup>	57,673 18,297 24,076 32,658	70,399 18,336 27,782 34,777	31,133 9,679 10,262 13,348	29,922 8,546 12,971 15,829	33,366 9,838 12,359 18,735	31,015 8,440 14,915 15,140	5,397 1,814 2,175 3,131	7,167 1,727 2,294 4,242	4,181 1,788 2,554 2,948
OUTLAYS									
16 All types	1,652,552	1,703,639 <sup>r</sup>	824,368	815,884	877,414	817,235	129,127	143,059 <sup>r</sup>	147,701
17 National defense 18 International affairs 19 General science, space, and technology 20 Energy 21 Natural resources and environment 22 Agriculture	268,456 13,109 18,219 1,270 22,396 12,206	276,792 15,264 19,397 981 22,303 24,359	140,873 9,420 10,040 411 11,106 10,590	129,351 4,610 9,426 957 10,051 2,387	140,196 8,297 10,142 699 12,671 16,757	134,414 6,879 9,319 797 10,351 9,803	20,867 530 1,681 26 1,961 726	24,279 1,382 <sup>r</sup> 1,773 375 2,246 <sup>f</sup> 1,150 <sup>r</sup>	24,036 1,000 1,524 - 311 1,528 6,759
Commerce and housing credit     Transportation     Community and regional development     Bducation, training, employment, and	1,014 40,332 9,720	2,966 38,856 12,791	-3,526 20,414 5,749	-2,483 16,196 4,863	4,046 20,836 6,972	-1,629 17,082 5,368	-1,097 3,838 879	6,509 <sup>r</sup> 4,260 1,330	1,698 3,750 1,627
social services	54,919	57,438	26.851	25,928	27,762	29,003	4,363	5,437	5,175
27 Health	131,440 572,047 233,202	140,803 580,491 237,180	63,552 283,109 106,353	65,053 286,305 125,196	67,838 316,809 109,481	69,320 261,146 126,552	11,959 45,607 16,505	13,031 48,681 16,897	12,229 48,179 17,607
30 Veterans benefits and services 31 Administration of justice 32 General government 33 Net interest 34 Undistributed offsetting receipts	41,781 22,832 13,444 243,359 -47,194	43,210 25,837 16,058 230,265 -40,445	22,077 10,212 7,302 122,620 -22,795	19,615 11,287 6,139 122,345 -21,340	22,750 12,041 9,136 116,954 -25,793	20,105 13,149 6,650 116,655 -17,724	1,895 2,349 200 19,931 -3,095	3,615 2,306 1,696 <sup>r</sup> 15,259 -7,164	3,657 2,127 1,117 18,894 -2,896

Functional details do not sum to total outlays for calendar year data because revisions to monthly totals have not been distributed among functions. Fiscal year total for receipts and outlays do 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. Federal employee retirement contributions and civil service retirement and disability fund.

<sup>4.</sup> Deposits of earnings by Federal Reserve Banks and other miscellaneous receipts.
5. Includes interest received by trust funds.
6. Rents and royalties for the outer continental shelf, U.S. government contributions for employee retirement, and certain asset sales.
SOURCE, Fiscal year totals: U.S. Office of Management and Budget, Budget of the U.S. Government, Fiscal Year 2000; monthly and half-year totals: U.S. Department of the Treasury, Monthly Treasury Statement of Receipts and Outlays of the U.S. Government.

#### 1.40 FEDERAL DEBT SUBJECT TO STATUTORY LIMITATION

Billions of dollars, end of month

	19	97		19	98		1999				
ltem	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30	Dec. 31	Mar. 31	June 30	Sept. 30		
Federal debt outstanding	5,446	5,536	5,573	5,578	5,556	5,643	5,681	5,668	5,685°		
2 Public debt securities 3 Held by public 4 Held by agencies	5,413 3,815 1,599	5,502 3,847 1,656	5,542 3,872 1,670	5,548 3,790 1,758	5,526 3,761 1,766	5,614 3,787 1,827	5,652 3,795 1,857	5,639 3,685 1,954	5,656 n.a. n.a.		
5 Agency securities 6 Held by public	33 26 7	34 27 7	31 26 5	30 26 4	29 26 4	29 29 1	29 28 1	29 28 1	29 <sup>r</sup> n.a. n.a		
8 Debt subject to statutory limit	5,328	5,417	5,457	5,460	5,440	5,530	5,566	5,552	5,568		
9 Public debt securities	5,328 0	5,416 0	5,456 0	5,460 0	5,439 0	5,530 0	5.566 0	5,552 0	5,568 0		
MEMO !1 Statutory debt limit	5,950	5,950	5,950	5.950	5,950	5.950	5,950	5,950	5,950		

<sup>1.</sup> Consists of guaranteed debt of U.S. Treasury and other federal agencies, specified participation certificates, notes to international lending organizations, and District of Columbia stadium bonds.

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

	.005	1004	1007		1998		1999	
Type and holder	1995	1996	1997	1998	Q4	QI	Q2	Q3
Total gross public debt	4,988.7	5,323.2	5,502.4	5,614.2	5,614.2	5,651.6	5,638.8	5,656.3
By type 2 Interest-bearing 3 Marketable 4 Bills 5 Notes 6 Bonds 7 Inflation-indexed notes and bonds 8 Nonmarketable 9 State and local government series 10 Foreign issues 11 Government 12 Public 13 Savings bonds and notes 14 Government account series 15 Non-interest-bearing	4,964.4 3,307.2 760.7 2,010.3 521.2 n.a. 1,657.2 104.5 40.8 0.0 181.9 1,299.6 24.3	5,317.2 3,459.7 777.4 2,112.3 555.0 n.a. 1,857.5 101.3 37.4 47.4 0,0 182.4 1,505.9 6.0	5,494.9 3,456.8 715.4 2,106.1 587.3 33.0 2,038.1 124.1 36.2 36.2 0 181.2 1,666.7 7.5	5.605.4 3,355.5 691.0 1,960.7 621.2 50.6 2,249.9 165.3 34.3 .0 180.3 1,840.0 8.8	5,605.4 3,355.5 691.0 1,960.7 621.2 50.6 2,249.9 165.3 34.3 34.3 1,840.0 8.8	5,643.1 3,361.3 725.5 1,912.0 632.5 59.2 2,281.8 167.5 33.5 33.5 0 180.6 1,870.2 8.5	5,629,5 3,248,5 647,8 1,868,5 632,5 59,9 2,381,0 172,6 30,9 0 180,0 1,967,5 9,3	5.647.2 3,233.0 653.2 1,828.8 643.7 67.6 2,414.2 168.1 31.0 31.0f 0 180.0 2,005.2 9.0
By holder 5  16 U.S. Treasury and other federal agencies and trust funds 17 Federal Reserve Banks 18 Private investors 19 Depository institutions 20 Mutual funds 21 Insurance companies 22 State and local treasuries 5 Individuals 23 Savings bonds 24 Pension funds 25 Private 26 State and Local 27 Foreign and international 5 28 Other miscellaneous investors 6.8	1,304.5 391.0 3,307.7 315.4 286.5 241.5 289.8 185.0 474.5 298.7 175.8 835.2 679.7	1,497.2 410.9 3,431.2 296.6 315.8 214.1 257.0 187.0 505.1 314.6 190.5 1,102.1 553.5	1.655.7 451.9 3.414.6 300.3 321.3 176.6 239.3 186.5 539.1 334.3 204.8 1.241.6 409.9	1,826.8 471.7 3.334.0 237.4 339.5 144.6 269.3 186.7 547.0 345.4 201.6 1,278.7 330.8	1,826.8 471.7 3,334.0 237.4 339.5 144.6 269.3 186.7 547.0 345.4 201.6 1,278.7 330.8	1,857.1 464.5 3,327.6 247.6 341.3 137.7 266.6 186.6 544.9 347.3 197.6 1,270.8 332.1	1,953.6 493.8 3,199.3 n.a. n.a. n.a. n.a. 186.6 n.a. n.a. 1,257.3 n.a.	n.a.

- The U.S. Treasury first issued inflation-indexed securities during the first quarter of 1997
   Includes (not shown separately) securities issued to the Rural Electrification Administration, depository bonds, retirement plan bonds, and individual retirement bonds.
   Nonmarketable series denominated in dollars, and series denominated in foreign currency held by foreigners.
- rency held by foreigners.

  4. Held almost entirely by U.S. Treasury and other federal agencies and trust funds.

  5. Data for Federal Reserve Banks and U.S. government agencies and trust funds are actual holdings; data for other groups are Treasury estimates.

  6. In March 1996, in a redefinition of series, fully defeased debt backed by nonmarketable federal securities was removed from "Other miscellaneous investors" and added to "State and local treasuries." The data shown here have been revised accordingly.
- 7. Includes nonmarketable foreign series treasury securities and treasury deposit funds. Excludes treasury securities held under repurchase agreements in custody accounts at the Federal Reserve Bank of New York.
- 8. Includes individuals, government-sponsored enterprises, brokers and dealers, bank personal trusts and estates, corporate and noncorporate businesses, and other investors. SOURCE U.S. Treasury Department, data by type of security, Monthly Statement of the Public Debt of the United States; data by holder, Treasury Bulletin.

SOURCE. U.S. Department of the Treasury, Monthly Statement of the Public Debt of the United States and Treasury Bulletin

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

Millions of dollars, daily averages

		1999					199	99, week end	ing			
<u>Item</u>	July	Aug.	Sept.	Sept. 1	Sept. 8	Sept. 15	Sept. 22	Sept. 29	Oct. 6	Oct. 13	Oct. 20	Oct. 27
OUTRIGHT TRANSACTIONS <sup>2</sup>												
By type of security  U.S. Treasury bills  Coupon securities, by maturity	24,009	26,323	27,445	38,241	27,843	32,118	23,234	24,693	26,101	23,011	24,314	22,047
2 Five years or less	93,047 53,586 1,372	99,186 68,592 826	82,426 54,516 586	95,890 60,198 1,006	81,430 49,912 475	77,284 59,754 462	68,958 44,882 347	95,035 62,209 629	103,945 55,369 2,314	86,924 53,537 562	82,519 61,196 1,499	90,643 55,937 506
Federal agency 5 Discount notes	43,320	45.889	46,570	48,585	46,278	47,150	43,798	47,373	52,951	46,227	42,441	42,844
6 One year or less	652	777	1,018	818	964	987	898	1,279	939	968	849	790
7 More than one year, but less than or equal to five years	4,592 4,278 69,129	5,126 4,832 66,417	5.858 4,593 64,305	6,068 5,361 52,887	4,235 2,843 79,337	4,681 7,416 93,477	5,336 4,031 41,392	9,346 4,149 44,491	4,810 3,479 68,329	9,770 3,856 102,275	5,901 3,737 46,148	4,641 3,006 44,349
By type of counterparty With interdealer broker 10 U.S. Treasury 11 Federal agency 12 Mortgage-backed With other	93,223 3,677 25,013	105,210 4,070 25,261	88,466 4,534 23,835	103,077 3,407 23,534	85,541 3,470 23,324	90,150 4,800 34,704	72,030 5,686 17,418	100,747 4,507 20,472	100,831 4,023 21,249	85,585 5,426 30,508	92,226 5,662 18,721	93,708 4,720 17,042
13 U.S. Treasury	78,790 49,164 44,117	89,717 52,553 41,156	76,506 53,504 40,469	92,258 57,426 29,353	74,118 50,850 56,013	79,468 55,435 58,773	65,392 48,377 23,974	81,819 57,639 24,019	86,898 58,157 47,080	78,448 55,394 71,768	77,302 47,267 27,427	75,426 46,560 27,307
FUTURES TRANSACTIONS <sup>3</sup>								]				
By type of deliverable security  16 U.S. Treasury bills	0	0	0	0	n.a.	n.a.	n.a.	0	n.a.	n.a.	n.a.	n.a.
17 Five years or less 18 More than five years 19 Inflation-indexed	2,469 12,348 0	4,701 14,980 0	2.226 13,642 0	4,400 17,151 0	2,538 13,485 0	2,167 14,803 0	1,720 11,765 0	1,819 14,028 0	3,354 12,564 0	2,186 10,767 0	3,050 14,003 0	1,862 12,112 0
Federal agency 20 Discount notes	0	0	0	0	0	0	0	0	0	0	0	0
Coupon securities, by maturity 21 One year or less	0	0	0	0	0	0	0	0	0	0	0	0
or equal to five years	0	0	0	0	0	0	0	0	0	0	0	0
24 Mortgage-backed	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
OPTIONS TRANSACTIONS <sup>4</sup>												
By type of underlying security 25 U.S. Treasury bills	0	0	0	0	0	0	0	0	0	0	0	0
Coupon securities, by maturity 26 Five years or less	951 3,892 0	1,197 4,480 0	842 3,440 0	1,074 2,546 0	879 4,611	989 2.935 0	754 2,705 0	645 3,710 0	1,110 3,332 0	1,244 3,377 0	996 4,531 0	591 3,190
Federal agency 29 Discount notes	0	0	0	0	0	0	0	0	0	0	0	0
Coupon securities, by maturity  30 One year or less	0	0	0	0	0	0	0	0	0	0	0	0
31 More than one year, but less than or equal to five years	0	0	0	n.a.	n.a. n.a.	n.a.	n.a. n.a.	n.a. 0	0 n.a.	0 n.a.	0	n.a. 0
33 Mortgage-backed	1,175	1,033	917	1,081	1,224	546	1,396	587	331	390	447	652

<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. Monthly averages are based on the number of trading days in the month. Transactions are assumed to be evenly distributed among the trading days of the report week. Immediate, forward, and futures transactions are reported at principal value, which does not include accrued interest; options transactions are reported at the face value of the underlying securities.

Forward transactions are agreements made in the over-the-counter market that specify delayed delivery. Forward contracts for U.S. Treasury securities and federal agency debt securities are included when the time to delivery is more than five business days. Forward contracts for mortgage-backed agency securities are included when the time to delivery is more than thirty business days.

securities.

Dealers report cumulative transactions for each week ending Wednesday.

2. Outright transactions include immediate and forward transactions. Immediate delivery refers to purchases or sales of securities (other than mortgage-backed federal agency securities) for which delivery is scheduled in five business days or less and "when-issued" securities that settle on the issue date of offering. Transactions for immediate delivery of morgage-backed agency securities unclude purchases and sales for which delivery is scheduled in thirty business days or less. Stripped securities are reported at market value by maturity of coupon or corpus.

Thurse transactions are standardized agreements arranged on an exchange. All futures transactions are included regardless of time to delivery.
 Options transactions are purchases or sales of put and call options, whether arranged on an organized exchange or in the over-the-counter market, and include options on futures contracts on U.S. Treasury and federal agency securities.
 NOTE. "n.a." indicates that data are not published because of insufficient activity.

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

		1999		_			1999, we	ek ending			
ltem -	July	Aug.	Sept.	Sept. 1	Sept. 8	Sept. 15	Sept. 22	Sept. 29	Oct. 6	Oct. 13	Oct. 20
						Positions <sup>2</sup>					
NET OUTRIGHT POSITIONS <sup>3</sup>		-1						'			
By type of security 1 U.S. Treasury bills Coupon securities, by maturity	4,005	165	1,862	7,295	5,816	-1,306	2,541	-341	1,598	8,456	8,929
2 Five years or less 3 More than five years 4 Inflation-indexed	-25,332 -14,263 3,202	-31,236 -7,689 3,370	-33,167 -14,651 3,758	-30,286 -7,215 3,774	-33,085 -9,493 3,703	-34,425 -15,435 3,799	-35,223 -18,404 3,940	-30,337 -15,694 3,531	-33,225 -19,135 4,161	-35,289 -21,983 4,035	-39,504 -22,914 3,528
Federal agency 5 Discount notes	21,732	29,448	38,620	32,385	36,636	40,505	40,704	37,279	40,332	39,198	35,664
Coupon securities, by maturity 6 One year or less	3,233	4,065	5,158	5,297	4,905	4,771	5,392	5,246	7,256	5,764	5,706
or equal to five years 8 More than five years 9 Mortgage-backed	7,633 2,882 18,844	6,923 1,023 17,990	6,989 2,346 18,585	8,216 1,200 16,238	7,354 1,736 17,132	6,918 2,877 20,159	6,443 2,418 22,066	7,430 2,615 15,596	4,438 1,664 16,636	5,018 2,981 22,120	4,406 3,119 22,955
NET FUTURES POSITIONS <sup>4</sup>											
By type of deliverable security 10 U.S. Treasury bills	0	0	0	0	n.a.	0	0	n.a.	n.a.	n.a.	n.a.
11 Five years or less 12 More than five years 13 Inflation-indexed Federal agency	7,576 -4,401 0	10,940 -5,879 0	7,803 -420 0	7,650 -7,434 0	8,136 -4,965 0	8,176 2,020 0	8,247 203 0	6,301 1,302 0	10,411 4,912 0	12.073 9.957 0	9,928 11,952 0
14 Discount notes	0	0	0	0	0	0	0	0	0	0	0
15 One year or less	0	0	0	0	0	0	0	0	0	0	0
or equal to five years	0	0	0	0	0	0	0	0	0 0	0	0
NET OPTIONS POSITIONS											
By type of deliverable security 19 U.S. Treasury bills Coupon securities, by maturity	0	0	0	0	0	0	0	0	0	0	0
20 Five years or less	-2,059 89 0	-1,661 -553 0	-57 -1,552 0	-878 -1,725 0	-555 -2,364 0	-456 -1,304 0	523 -671 0	456 -1,483 0	-614 -4,075 0	-1,441 -4,888 0	-2,486 -2,656 0
23 Discount notes	0	0	0	0	0	0	0	0	0	0	0
One year or less	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a	n.a.	n.a.	n.a.	n.a.
or equal to five years	n.a. 2,070	n.a. 3,540	n.a. 2,105	n.a. 4,630	n.a. 2,468	n.a. 1,443	n.a. 2,097	n.a. 2,103	n.a. 1,728	32 1,053	32 826
						Financing <sup>5</sup>					
Reverse repurchase agreements 28 Overnight and continuing	258,349 821,067	273,639 780,367	290,610 792,662	274,150 733,653	276,844 757,629	297,141 793,309	286,250 821,609	303,871 810,388	295,403 765,661	289,515 792,836	293,341 810,239
Securities borrowed 30 Overnight and continuing	254,405 90,588	254,149 87,850	250,667 91,796	253,085 83,148	252,062 84,953	251,946 91,765	253,559 95,900	243,384 95,524	260,255 93,727	254,576 93,874	257,963 98,054
Securities received as pledge 32 Overnight and continuing	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	2,583 n.a.	2,393 n.a.
Repurchase agreements 34 Overnight and continuing	675,629 688,157	694,296 650,774	692,032 680,923	696,064 605,775	686,295 631,178	699,375 674,289	697,399 710,400	684,837 724,393	689,566 640,089	691,509 660,904	695,993 693,946
Securities loaned 36 Overnight and continuing	11,458 6,991	9,885 7,269	9,063 7,026	9,492 7,031	9,022 7,012	9,194 6,966	8,974 7,453	9,006 6,689	9,019 6,916	9,106 6,671	8,814 7,412
Securities pledged 38 Overnight and continuing	55,853 9,530	53,526 8,213	53,966 8,116	51,878 7,920	52,453 7,914	53,386 8,034	55,262 8,153	54,502 8,354	57,870 8,370	57,441 8,276	52,812 8,383
Collateralized loans 40 Total	17,509	18,826	23.284	20,879	20,894	21,840	26,460	24,024	25,111	20,695	27,676

securities are included when the time to delivery is more than five business days. Forward contracts for mortgage-backed agency securities are included when the time to delivery is

<sup>1.</sup> Data for positions and financing are obtained from reports submitted to the Federal Reserve Bank of New York by the U.S. government securities dealers on its published list of primary dealers. Weekly figures are close-of-business Wednesday data. Positions for calendar days of the report week are assumed to be constant. Monthly averages are based on the number of calendar days in the month.

2. Securities positions are reported at market value.

3. Net outright positions include immediate and forward positions. Net immediate positions include securities purchased or sold (other than mortgage-backed agency securities) that have been delivered or are scheduled to be delivered in five business days or less and "when-issued" securities that settle on the issue date of offering. Net immediate positions for mortgage-backed agency securities include securities purchased or sold that have been delivered or are scheduled to be delivered in thirty business days or less.

Forward positions reflect agreements made in the over-the-counter market that specify delayed delivery. Forward contracts for U.S. Treasury securities and federal agency debt

more than thirty business days.

4. Futures positions reflect standardized agreements arranged on an exchange. All futures positions are included regardless of time to delivery.

5. Overnight financing refers to agreements made on one business day that mature on the 3. Overlingth infancing refers to agreements made on one obstness day that mature on the next business day; continuing contracts are agreements that remain in effect for more than one business day but have no specific maturity and can be terminated without advance notice by either party; term agreements have a fixed maturity of more than one business day. Financing data are reported in terms of actual funds paid or received, including accrued interest.
NOTE. "n.a." indicates that data are not published because of insufficient activity.

#### 1.44 FEDERAL AND FEDERALLY SPONSORED CREDIT AGENCIES Debt Outstanding

							1999		
Agency	1995	1996	1997	1998	Apr.	May	June	July	Aug.
1 Federal and federally sponsored agencies	844,611	925,823	1,022,609	1,296,477	1,377,524	1,404,576	1,425,396	1,457,925 <sup>r</sup>	1,491,900
2 Federal agencies 3 Defense Department 4 Export-Import Bank <sup>2,3</sup> 5 Federal Housing Administration <sup>4</sup> 6 Government National Mortgage Association certificates of	37,347 6 2,050 97	29,380 6 1,447 84	27,792 6 552 102	26,502 6 n.a. 205	26,100 6 n.a. 84	26,094 6 n.a. 88	26,370 6 n.a. 99	26,204 6 n.a. 105	26,107 6 n.a. 109
participation <sup>5</sup> 7 Postal Service <sup>6</sup> 8 Tennessee Valley Authority 9 United States Railway Association <sup>6</sup>	n.a. 5,765 29,429 n.a.	n.a. n.a. 27,853 n.a.	n.a. n.a. 27,786 n.a.	n.a. n.a. 26,496 n.a.	n.a. n.a. 26,094 n.a.	n.a. n.a. 26,088 n.a.	n.a. n.a. 26,364 n.a.	n.a. n.a. 26,198 n.a.	n.a. n.a. 26,101 n.a.
10 Federally sponsored agencies 7 11 Federal Home Loan Banks 12 Federal Home Loan Mortgage Corporation 13 Federal Mational Mortgage Association 14 Farm Credit Banks 8 15 Student Loan Marketing Association 9 16 Financing Corporation 10 17 Farm Credit Financial Assistance Corporation 11 18 Resolution Funding Corporation 12	807,264 243,194 119,961 299,174 57,379 47,529 8,170 1,261 29,996	896,443 263,404 156,980 331,270 60,053 44,763 8,170 1,261 29,996	994,817 313,919 169,200 369,774 63,517 37,717 8,170 1,261 29,996	1,269,975 382,131 287,396 460,291 63,488 35,399 8,170 1,261 29,996	1.351,424 415,602 310,387 478,994 67,527 37,660 8,170 1,261 29,996	1,378,482 421,655 317,533 492,913 66,608 38,129 8,170 1,261 29,996	1,399,026 437,109 314,412 499,897 67,749 37,959 8,170 1,261 29,996	1,431,721 444,775 334,575 502,653 66,922 40,843 8,170 1,261 29,996	1,465,793 458,320 340,972 517,200 67,269 40,310 8,170 1,261 29,996
MEMO 19 Federal Financing Bank deht <sup>13</sup>	78,681	58,172	49,090	44,129	41,637	41,131	40,585	39,901	39,341
Lending to federal and federally sponsored agencies 20 Export-Import Bank 21 Postal Service 22 Student Loan Marketing Association 23 Tennessee Valley Authority 24 United States Railway Association  Other lending 14	2,044 5,765 n.a. 3,200 n.a.	1,431 n.a. n.a. n.a. n.a.	552 n.a. n.a. n.a. n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
25 Farmers Home Administration	21,015 17,144 29,513	18,325 16,702 21,714	13,530 14,898 20,110	9,500 14,091 20,538	8,550 13,999 19,088	8,275 13,997 18,859	7,935 13,877 18,773	7,445 13,944 18,512	7,270 13,969 18,102

<sup>1.</sup> Consists of mortgages assumed by the Defense Department between 1957 and 1963

- 10. The Financing Corporation, established in August 1987 to recapitalize the Federal

- 10. The Financing Corporation, established in August 1987 to recapitalize the Federal Savings and Loan Insurance Corporation, undertook its first borrowing in October 1987.
  11. The Farm Credit Financial Assistance Corporation, established in January 1988 to provide assistance to the Farm Credit System, undertook its first borrowing in July 1988.
  12. The Resolution Funding Corporation, established by the Financial Institutions Reform, Recovery, and Enforcement Act of 1989, undertook its first borrowing in October 1989.
  13. The FFB, which began operations in 1974, is authorized to purchase or sell obligations issued, sold, or guaranteed by other federal agencies. Because FFB incurs debt solely for the purpose of lending to other agencies, its debt is not included in the main portion of the table to avoid double counting.
- avoid double counting.

  14. Includes FFB purchases of agency assets and guaranteed loans; the latter are loans guaranteed by numerous agencies, with the amounts guaranteed by any one agency generally being small. The Farmers Home Administration entry consists exclusively of agency assets, whereas the Rural Electrification Administration entry consists of both agency assets and guaranteed loans.

under family housing and homeowners assistance programs.

2. Includes participation certificates reclassified as debt beginning Oct. 1, 1976.

3. On-budget since Sept. 30, 1976.

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 year 1969 by the Government National Mortgage Association acting as trustee for the Farmers Home Administration, the Department of Health, Education, and Welfare, the Department of Housing and Urban Development, the Small Business Administration, and the Veterans Administration.

 <sup>6.</sup> Off-budget.
 7. Includes outstanding noncontingent liabilities: notes, bonds, and debentures. Includes Federal Agricultural Mortgage Corporation, therefore details do not sum to total. Some data are estimated.

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

shown on line 17.

<sup>9.</sup> Before late 1982, the association obtained financing through the Federal Financing Bank (FFB). Borrowing excludes that obtained from the FFB, which is shown on line 22.

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

Millions of dollars

Type of issue or issuer,	1006	1007	1000				19	199			
or use	1996	1997	1998	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1 All issues, new and refunding	171,222	214,694	262,342	24,323	15,758	16,234	23,428	18,671	15,746	18,433	17,497
By type of issue 2 General obligation	60,409 110,813	69,934 134,989	87,015 175,327	8,323 16,000	6,443 9,315	5,294 10,941	10,997 12,431	6,206 12,465	4,268 11,478	5,171 13,262	4,183 13,314
By type of issuer 4 State 5 Special district or statutory authority <sup>2</sup> 6 Municipality, county, or township	13,651 113,228 44,343	18,237 134,919 70,558	23,506 178,421 60,173	1,895 14,604 7,825	907 10,010 4,841	1,220 11,279 3,735	1,236 18,414 3,779	2,194 13,572 2,906	911 11,578 3,257	2,341 13,449 2,642	1,753 12,186 3,557
7 Issues for new capital	112,298	135,519	160,568	16,201	10,474	12,149	19,509	12,172	12,530	14,973	14,908
By use of proceeds 8 Education 9 Transportation 10 Utilities and conservation 11 Social welfare 12 Industrial aid 13 Other purposes	26,851 12,324 9,791 24,583 6,287 32,462	31,860 13,951 12,219 27,794 6,667 35,095	36,904 19,926 21,037 n.a. 8,594 42,450	3,537 1,640 2,839 n.a. 1,084 3,918	2,734 1,107 1,372 n.a. 618 2,592	2,795 1,791 603 n.a. 1,058 3,760	3,793 1,650 1,594 n.a. 739 7,195	3,415 1,264 535 n.a. 850 2,729	2,842 1,955 1,038 n.a. 585 3,255	2,885 1,886 1,976 n.a. 1,271 3,941	2,049 1,674 1,176 n.a. 726 4,509

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

SOURCE. Securities Data Company beginning January 1990; Investment Dealer's Digest before then.

## 1.46 NEW SECURITY ISSUES U.S. Corporations

Millions of dollars

Type of issue, offering,	4004	4005					19	99			
or issuer	1996	1997	1998	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept,
1 All issues <sup>1</sup>	773,110	929,256	1,128,491	103,175	126,161	85,862	110,475	96,608	96,608	83,466	82,936
2 Bonds <sup>2</sup>	651,104	811,376	1,001,736	92,885	116,440	76,721	94,713	88,338	83,546	75,708	76,485
By type of offering 3 Sold in the United States 4 Sold abroad	567,671 83,433	708,188 103,188	923,771 77,965	82,871 10,014	101,024 15,416	65,886 10,834	86,730 7,983	79,031 9,306	69,451 14,095	63,383 12,325	66,357 10,128
MEMO 5 Private placements, domestic	n.a.	n.a.	n.a.	648	1,224	n.a.	n.a.	n.a.	n.a.	п.а.	n.a.
By industry group 6 Nonfinancial	167,904 483,200	222,603 588,773	307,935 693,801	23,131 69,754	39,818 76,623	30,676 46,045	32,843 61,870	24,531 63,807	25,526 58,020	22,704 53,005	21,073 55,412
8 Stocks <sup>3</sup>	122,006	117,880	126,755	10,290	9,721	9,141	15,762	8,270	13,062	7,758	6,451
By type of offering 9 Public	122,006 n.a.	117,880 n.a.	126,755 n.a.	10,290 n.a.	9,721 n.a.	9,141 n.a.	15,762 n.a.	8,270 n.a.	13,062 n.a.	7,758 n.a.	6,451 n.a.
By industry group 11 Nonfinancial	80,460 41,546	60,386 57,494	74,113 52,642	8,911 1,379	8,534 1,187	7,640 1,501	10,425 5,337	6,436 1,834	11,589 1,473	6,379 1,379	5,491 960

Figures represent gross proceeds of issues maturing in more than one year; they are the
principal amount or number of units calculated by multiplying by the offering price. Figures
exclude secondary offerings, employee stock plans, investment companies other than closedend, intracorporate transactions, and Yankee bonds. Stock data include ownership securities
issued by limited partnerships.

Monthly data include 144(a) offerings.
 Monthly data cover only public offerings.
 Data are not available.
 OURCE. Securities Data Company and the Board of Governors of the Federal Reserve

#### 1.47 OPEN-END INVESTMENT COMPANIES Net Sales and Assets<sup>1</sup>

Millions of dollars

	1005	1000				19	99			
Item	1997	1998	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
l Sales of own shares <sup>2</sup>	1,190,900	1,461,430	164,290	166,324	140,422	138,502	140,926	132,991	132,226	140,237
2 Redemptions of own shares	918,728 272,172	1,217,022 244,408	146,479 17,811	139,035 27,288	127,800 12,622	117,953 20,550	128.173 12,754	125,908 7,084	126,207 6,019	124,011 16,226
4 Assets <sup>4</sup>	3,409,315	4,173,531	4,328,150	4,505,237	4,442,880	4,650,385	4,585,131	4,548,784	4,498,964	4,704,277
5 Cash <sup>5</sup>	174,154 3,235,161	191,393 3,982,138	198,741 4,129,409	211,243 4,293,994	211,580 4,231,300	214,779 4,435,607	209,061 4,376,070	209,349 4,339,435	209,709 4,289,255	225,111 4,479,166

<sup>1.</sup> Data include stock, hybrid, and bond mutual funds and exclude money market mutual

4. Market value at end of period, less current liabilities.

5. Includes all U.S. Treasury securities and other short-term debt securities.

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

### 1.48 CORPORATE PROFITS AND THEIR DISTRIBUTION

Billions of dollars; quarterly data at seasonally adjusted annual rates

	1000	1007	'1000t	1997		19	98°			1999	
Account	1996 <sup>r</sup>	1997 <sup>r</sup>	1998 <sup>r</sup>	Q4 <sup>r</sup>	Q1	Q2	Q3	Q4	Q1 <sup>r</sup>	Q2 <sup>r</sup>	Q3
Profits with inventory valuation and capital consumption adjustment Profits before taxes Profits-tax liability Profits after taxes Dividends Undistributed profits Inventory valuation Capital consumption adjustment	753.9 726.3 223.6 502.7 297.7 205.0 3.1 24.4	837.9 795.9 238.3 557.6 333.7 223.9 7.4 34.6	846.1 781.9 240.2 541.7 348.6 193.1 20.9 43.3	853.5 811.6 244.1 567.4 344.8 222.6 4.0 38.0	858.3 788.9 239.9 548.9 346.5 202.5 29.5 39.9	847.9 792.0 241.1 550.9 347.3 203.6 13.6 42.4	843.8 780.1 244.3 535.8 348.4 187.4	834.3 766.7 235.6 531.0 352.2 178.8 20.8 46.9	882.0 818.1 248.0 570.1 356.4 213.7	875.5 835.8 254.4 581.4 361.5 219.9 -13.6 53.2	883.7 857.8 259.1 598.6 367.3 231.3 -26.5 52.4

SOURCE. U.S. Department of Commerce, Survey of Current Business.

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

Billions of dollars, end of period; not seasonally adjusted

	1006	1007	1000		19	98			1999	
Account	1996	1997	1998	QI	Q2	Q3	Q4	QI	Q2	Q3
Assets										
I Accounts receivable, gross <sup>2</sup> 2 Consumer 3 Business 4 Real estate	637.1 244.9 309.5 82.7	663.3 256.8 318.5 87.9	711.7 261.8 347.5 102.3	667.2 251.7 325.9 89.6	676.0 251.3 334.9 89.9	687.6 254.0 335.1 98.5	711.7 261.8 347.5 102.3	733.8 261.7 362.8 109.2	756.5 269.2 373.7 113.5	776.5 271.3 382.9 122.3
5 LESS: Reserves for unearned income 6 Reserves for losses	55.6 13.1	52.7 13.0	56.3 13.8	52.1 13.1	53.2 13.2	52.4 13.2	56.3 13.8	52.9 13.4	53.4 13.4	54.0 13.6
7 Accounts receivable, net	568.3 290.0	597.6 312.4	641.6 337.9	601.9 329.7	609.6 340.1	622.0 313.7	641.6 337.9	667.6 363.3	689.7 373.2	708.8 368.6
9 Total assets	858.3	910.0	979.5	931.6	949.7	935.7	979.5	1,030.8	1,062.9	1,077.4
LIABILITIES AND CAPITAL										
10 Bank loans 11 Commercial paper	19.7 177.6	24.1 201.5	26.3 231.5	22.0 211.7	22.3 225.9	24.9 226.9	26.3 231.5	24.8 222.9	25.1 231.0	27.0 205.3
Debt 12 Owed to parent 13 Not elsewhere classified 14 All other liabilities 15 Capital, surplus, and undivided profits	60.3 332.5 174.7 93.5	64.7 328.8 189.6 101.3	61.8 339.7 203.2 117.0	64.6 338.2 193.1 102.1	60.0 348.7 188.9 103.9	58.3 337.6 185.4 103.6	61.8 339.7 203.2 117.0	64.6 366.7 220.3 131.5	65.4 383.1 226.1 132.2	84.7 396.2 216.0 148.2
16 Total liabilities and capital	858.3	910.0	979.5	931.6	949.7	936.6	979.5	1,030.8	1,062.9	1,077.4

<sup>1.</sup> Includes finance company subsidiaries of bank holding companies but not of retailers and banks. Data are amounts carried on the balance sheets of finance companies; securitized pools are not shown, as they are not on the books.

funds.

2. Excludes reinvestment of net income dividends and capital gains distributions and share

issue of conversions from one fund to another in the same group.

3. Excludes sales and redemptions resulting from transfers of shares into or out of money market mutual funds within the same fund family.

<sup>2.</sup> Before deduction for unearned income and losses.

### 1.52 DOMESTIC FINANCE COMPANIES Owned and Managed Receivables<sup>1</sup>

Billions of dollars, amounts outstanding

The second to	1006	1007	1000		_	19	99		
Type of credit	1996	1997	1998	Apr.	May	June	July	Aug.	Sept.
			·	Se	asonally adjus	ted			
1 Total	762.4	810.5	875.8	919.5	931.9	938.1	954.7	967.4 <sup>r</sup>	973.1
2 Consumer	307.6	327.9	352.8	364.2	369.5	372.4	375.9	380.8 <sup>r</sup>	382.3
3 Real estate	111.9	121.1	131.4	141.2	142.8	141.2	144.2	146.7	148.9
4 Business	342.9	361.5	391.6	414.2	419.5	424.5	434.6	439.9	441.9
		l.	1	Not	seasonally adj	usted			
5 Total	769.7	818.1	884.0	919,4	931.6	942.9	948.9	962.2 <sup>r</sup>	968.7
6 Consumer	2106	330.9	256.1	260.0	2602	374.6	378.1	382.0 <sup>r</sup>	202 5
6 Consumer 7 Motor vehicles loans	310.6 86.7	87.0	356.1 103.1	360.9 106.8	368.3 105.1	108.6	108.5	112.7	383.5 109.4
8 Motor vehicle leases	92.5	96.8	93.3	94.8	95.3	95.6	97.0	98.3	98.1
9 Revolving <sup>2</sup>	32.5	38.6	32.3	31.3	31.3	32.4	32.8	33.0	30.9
0 Other <sup>3</sup>	33.2	34.4	33.1	32.0	32.0	32.6	32.0	31.6 <sup>r</sup>	32.9
Securitized assets <sup>4</sup>	20.2		""		52.0				
1 Motor vehicle loans	36.8	44.3	54.8	57.8	65.8	65.3	68.3	68.0	73.5
2 Motor vehicle leases	8.7	10.8	12.7	11.8	11.6	11.3	11.1	10.8	10.6
3 Revolving	.0	.0	8.7	8.8	8.7	9.7	9.9	9.4	10.2
4 Other	20.1	19.0	18.1	17.6	18.3	19.0	18.4	18.1	17.9
5 Real estate	111.9	121.1	131.4	141.2	142.8	141.2	144.2	146.7	148.9
6 One- to four-family	52.1	59.0	75.7	81.7	83.6	80.5	83.6	86.0	87.7
7 Other	30.5	28.9	26.6	31.6	31.5	33.0	33.1	33.7	34.6
8 One- to four-family	28.9	33.0	29.0	27.6	27.4	27.5	27.2	26.8	26.5
9 Other	.4	.2	.1	.3	.3	2	2	.2	.2
0 Business	347.2	366.1	396.5	417.4	420.5	427.1	426.7	433.5	436.3
Motor vehicles	67.1	63.5	79.6	86.2	84.4	82.8	78.8	78.6	80.3
2 Retail loans	25.1	25.6	28.1	30.7	31.6	30.9	31.7	33.3	34.5
3 Wholesale loans <sup>5</sup>	33.0	27.7	32.8	36.5	33.8	32.7 19.2	27.9 19.3	26.8 18.5	26.8 19.0
4 Leases	9.0	10.2 203.9	18.7 198.0	18.9 203.1	19.0	208.3	208.5	210.5	
	194.8 59.9	51.5	50.4	52.0	203.8 51.7	53.3	52.9	53.1	208.4 48.2
6 Loans	134.9	152.3	147.6	151.0	152.1	155.1	155.6	157.4	160.2
8 Other business receivables <sup>6</sup>	47.6	51.1	69.9	76.9	78.9	82.6	89.2	92.7	94.2
9 Motor vehicles	24.0	33.0	29.2	30.5	32.0	32.1	28.4	30.4	31.0
0 Retail loans	24.0	2.4	29.2	2.4	2.2	2.9	2.8	2.7	2.6
1 Wholesale loans	21.3	30.5	24.7	26.2	27.8	27.2	23.5	25.7	26.4
2 Leases	.0	.0	1.9	1,9	1.9	2.0	2.0	2.0	2.0
3 Equipment	11.3	10.7	13.0	12.5	13.2	13.3	13.8	13.5	14.6
4 Loans	4.7	4.2	6.6	5.8	6.5	6.7	7.1	6.9	7.7
5 Leases	6.6	6.5	6.4	6.6	6.6	6.6	6.7	6.6	6.9
6 Other business receivables <sup>6</sup>	2.4	4.0	6.8	8.3	8.3	8.0	7.9	7.8	7.7

NOTE. This table has been revised to incorporate several changes resulting from the benchmarking of finance company receivables to the June 1996 Survey of Finance Companies. In that benchmark survey, and in the monthly surveys that have followed, more detailed breakdowns have been obtained for some components. In addition, previously unavailable data on securitized real estate loans are now included in this table. The new information has resulted in some reclassification of receivables among the three major categories (consumer, real estate, and business) and in discontinuities in some component series between May and

June 1996.

Includes finance company subsidiaries of bank holding companies but not of retailers and banks. Data in this table also appear in the Board's G.20 (422) monthly statistical release. For ordering address, see inside front cover.

1. Owned receivables are those carned on the balance sheet of the institution. Managed receivables are outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator. Data are shown

before deductions for unearned income and losses. Components may not sum to totals because of rounding.

2. Excludes revolving credit reported as held by depository institutions that are subsidiar-

- ies of finance companies.

  3. Includes personal cash loans, mobile home loans, and loans to purchase other types of consumer goods such as appliances, apparel, boats, and recreation vehicles.

  4. Outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator.

  5. Credit arising from transactions between manufacturers and dealers, that is, floor plan
- financing.

  6. Includes loans on commercial accounts receivable, factored commercial accounts, and
- receivable dealer capital; small loans used primarily for business or farm purposes; and wholesale and lease paper for mobile homes, campers, and travel trailers.

#### Domestic Financial Statistics ☐ January 2000 A34

### 1.53 MORTGAGE MARKETS Mortgages on New Homes

Millions of dollars except as noted

	1005	1005	1000	•			1999			
Item	1996	1997	1998	Apr.	May	June	July	Aug.	Sept.	Oct.
			,	Terms and yi	elds in prima	ary and secon	dary markets			
PRIMARY MARKETS				İ						
Terms	182.4 139.2 78.2 27.2 1.21	180.1 140.3 80.4 28.2 1.02	195.2 151.1 80.0 28.4 .89	209.4 162.4 79.5 28.9	207.5 161.6 79.8 28.7 .69	211.0 162.0 79.0 28.6 .72	207.6 158.2 78.6 28.5 .83	213.8 163.1 78.3 28.5 .68	210.3 161.8 78.8 29.1 .64	214.4 165.1 79.0 29.1 .71
Yield (percent per year) 6 Contract rate <sup>1,3</sup> 7 Effective rate <sup>1,3</sup> 8 Contract rate (HUD series) <sup>4</sup>	7.56 7.77 8.03	7.57 7.73 7.76	6.95 7.08 7.00	6.74 6.85 6.93	6.78 6.89 7.17	6.92 7.03 7.59	7.16 7.29 7.75	6.99 7.09 7.87	6.99 7.09 7.76	7.06 7.17 7.77
SECONDARY MARKETS										
Kield (percent per year) 9 FHA mortgages (Section 203) <sup>5</sup> 10 GNMA securities <sup>6</sup>	8.19 7.48	7.89 7.26	7.04 6.43	7.08 6.50	7.58 6.79	8.13 7.21	8.00 7.28	8.10 7.53	8.05 7.42	8.02 7.52
				A	ctivity in sec	ondary mark	ets			
Federal National Mortgage Association										
Mortgage holdings (end of period) 11 Total 12 FHA/VA insured 13 Conventional	287,052 30,592 256,460	316,678 31,925 284,753	414,515 33,770 380,745	446,025 36,158 409,867	464,530 38,938 425,592	473,315 41,143 432,172	480,651 44,132 436,519	495,302 47,846 447,456	504,938 49,456 455,482	509,990 50,639 459,351
14 Mortgage transactions purchased (during period)	68,618	70,465	188,448	14,225	25,640	15,934	14,004	21,094	15,200	10,057
Mortgage commitments (during period) 15 Issued' 16 To sell <sup>8</sup>	65,859 130	69,965 1,298	193,795 1,880	20,192 75	12,517 178	19,507 351	12,966 260	18,153 478	7,998 609	10,480 1,710
FEDERAL HOME LOAN MORTGAGE CORPORATION										
Mortgage holdings (end of period) <sup>8</sup> 17 Total 18 FHA/VA insured 19 Conventional	137,755 220 137,535	164,421 177 164,244	255,010 785 254,225	284,006 1,613 282,393	285,881 1,610 284,271	299,184 1,726 297,458	300,093 1,735 298,358	306,214 1,708 304,506	315,968 1,689 <sup>r</sup> 314,279 <sup>r</sup>	318,682 1,689 316,993
Mortgage transactions (during period) 20 Purchases 21 Sales	125,103 119,702	117,401 114,258	267,402 250,565	26,473 25,464	22,503 21,972	21,950 20,349	17,602 16,835	18,674 17,468	15,238 14,153	13,323 12,671
22 Mortgage commitments contracted (during period) <sup>9</sup>	128,995	120,089	281,899	24,050	20,052	21,610	14,988	18,951	14,608	10,810

Weighted averages based on sample surveys of mortgages originated by major institutional lender groups for purchase of newly built homes; compiled by the Federal Housing Finance Board in cooperation with the Federal Deposit Insurance Corporation.
 Includes all fees, commissions, discounts, and "points" paid (by the borrower or the

2. Includes all fees, commissions, discounts, and "points" paid (by the borrower or the seller) to obtain a loan.
3. Average effective interest rate on loans closed for purchase of newly built homes, assuming prepayment at the end of ten years.
4. Average contract rate on new commitments for conventional first mortgages; from U.S. Department of Housing and Urban Development (HUD). Based on transactions on the first day of the subsequent month.
5. Average gross yield on thirty-year, minimum-downpayment first mortgages insured by the Federal Housing Administration (FHA) for immediate delivery in the private secondary market. Based on transactions on first day of subsequent month.

6. Average net yields to investors on fully modified pass-through securities backed by mortgages and guaranteed by the Government National Mortgage Association (GNMA), assuming prepayment in twelve years on pools of thirty-year mortgages insured by the Federal Housing Administration or guaranteed by the Department of Veterans Affairs.
7. Does not include standby commitments issued, but includes standby commitments converted.
8. Includes participation loans as usell as whole loans.

8. Includes participation loans as well as whole loans
9. Includes conventional and government-underwritten loans. The Federal Home Loan
Mortgage Corporation's mortgage commitments and mortgage transactions include activity
under mortgage securities swap programs, whereas the corresponding data for FNMA
exclude swap activity.

#### 1.54 MORTGAGE DEBT OUTSTANDING1

					1998		19	99
Type of holder and property	1995	1996	1997	Q2	Q3	Q4	Q1	Q2 <sup>p</sup>
1 All holders	4,603,384	4,898,661	5,212,073	5,434,008	5,568,417	5,722,421	5,861,070	6,013,592
By type of property 2 One- to four-family residences 3 Multifamily residences 4 Nonfarm, nonresidential 5 Farm	3,509,721 277,002 732,100 84,561	3,719,010 294,783 797,734 87,134	3,954,854 310,456 `856,464 90,299	4,117,231 323,324 900,453 93,001	4,217,417 330,595 926,039 94,367	4,322,453 340,782 962,680 96,506	4,414,500 351,652 997,514 97,403	4,527,176 359,796 1,026,903 99,717
By type of holder	1,900,089 1,090,189 646,545 42,521 377,293 23,830 596,763 482,353 61,987 52,135 288 213,137 8,890 28,714 165,876 9,657	1,981,885 1.145,389 677,603 45,451 397,452 24,883 628,335 513,712 61,570 52,723 331 208,161 6,977 30,750 160,314 10,120	2,083,978 1,245,315 745,510 49,670 423,148 26,986 631,822 520,672 59,543 51,252 354 206,841 7,187 30,402 158,780 10,472	2,121,961 1,281,870 770,116 51,227 432,208 28,319 632,359 52,2088 58,908 50,978 386 207,732 6,814 30,618 159,456 10,844	2,137,438 1,295,828 770,340 52,205 444,596 28,688 634,251 525,844 56,696 51,312 399 207,359 207,359 30,565 159,189	2,195,376 1,337,772 797,533 52,871 458,333 29,035 643,964 533,792 56,825 52,930 417 213,640 6,590 31,522 164,004 11,524	2,202,494 1,337,218 782,441 56,170 469,095 29,512 646,213 534,494 56,763 54,521 435 219,063 6,956 31,528 168,862 11,717	2,243,008 1.361,947 790,465 58,572 482,367 30,544 656,383 544,659 55,002 56,279 444 224,677 7,285 32,321 173,106 11,965
22 Federal and related agencies 23 Government National Mortgage Association 24 One- to four-family 25 Multifamily 26 Farmers Home Administration  27 One- to four-family 28 Multifamily 29 Nonfarm, nonresidential 30 Farm 31 Federal Housing and Veterans' Administrations 32 One- to four-family 33 Multifamily 34 Resolution Trust Corporation 35 One- to four-family 36 Multifamily 37 Nonfarm, nonresidential 38 Farm 39 Federal Deposit Insurance Corporation 40 One- to four-family 41 Multifamily 42 Nonfarm, nonresidential 43 Farm 44 Federal National Mortgage Association 45 One- to four-family 46 Multifamily 47 Federal National Mortgage Association 48 One- to four-family 49 Farm 50 Federal Home Loan Mortgage Corporation 51 One- to four-family 52 Multifamily 53 Federal Home Loan Mortgage Corporation	308,757 2 2 41,791 17,705 11,617 6,248 6,221 9,809 1,864 691 647 525 0 4,303 492 428 3,383 0 178,807 163,648 15,159 28,428 1,673 26,755 39,901 3,8852	295.192 2 2 41,596 17.303 11.685 6.841 5,768 6.244 3.524 2,719 0 0 0 0 2,431 365 413 1.653 0 168.813 15,508 13,805 29,602 1,742 27,860 41,758 41,758 41,758	286,167 8 8 41,195 17,253 11,720 7,370 4,852 3,821 1,767 2,054 0 0 0 724 109 123 492 0 0 161,308 149,831 11,477 30,657 1,804 28,853 48,454 42,629 5,825 5,825	287.161 8 8 8 40.921 17.059 11.722 7,497 4,644 3,631 1.610 2,021 0 0 0 564 85 96 384 0 1.59,816 149,383 10,433 31.352 1,845 29,507 50,869 44,597 6,272	287,125 7 7 7 9 0 40,907 17,025 11,736 7,566 4,579 3,405 1,550 0 0 0 482 72 82 82 328 0 159,104 149,069 10,035 32,009 1,883 30,126 51,211 44,224 6,957	292.636 7 7 7 7 0 40.851 16.895 11.739 7.705 4,513 3.674 1.849 1,825 0 0 0 361 54 61 245 0 157.675 147.594 10.081 32.983 1,941 31,042 37,085 49,106 7,979	288,313 6 6 6 6 9 10,6717 11,731 7,769 4,413 3,675 1,8850 1,825 0 0 0 0 315 47 54 214 0 157,185 147,063 10,122 33,128 1,949 31,179 53,313 44,140 9,173	288,235 8 8 0 40,691 16,777 11,731 7,769 4,413 3,684 1,818 1,867 0 0 0 0 189 28 32 129 0 155,637 145,033 10,604 1,985 31,758 31,758 54,282 43,574 10,708
53 Mortgage pools or trusts 5 4 Government National Mortgage Association 55 One- to four-family 56 Multifamily 57 Federal Home Loan Mortgage Corporation 58 One to four-family 59 Multifamily 60 Federal National Mortgage Association 61 One- to four-family 62 Multifamily 63 Farmers Home Administration 4 64 One- to four-family 65 Multifamily 66 Nonfarm, nonresidential 67 Farm 68 Private mortgage conduits 69 One- to four-family 70 Multifamily 71 Nonfarm, nonresidential 72 Farm	1,863,210 472,283 461,438 10,845 515,051 512,238 2,813 582,959 569,724 13,235 11 2 0 5 4 292,966 227,800 15,584 49,522 0	2,064,882 506,340 494,158 12,182 554,260 551,513 2,747 650,780 0 0 0 3 3,353,499 261,900 21,967 69,633 0	2,273,022 536,879 523,225 13,654 579,385 576,846 2,539 709,582 687,981 21,601 0 0 0 0 2,218 447,173 318,000 29,218 99,955	2,442,715 537,743 523,400 14,343 609,791 607,469 2,332 761,359 737,631 23,728 2 0 0 0 2 533,820 364,316 38,098 131,406	2,548,301 541,540 527,043 14,497 635,726 633,124 2,602 798,460 770,979 27,481 0 0 0 0 2 572,573 391,736 40,895 139,942	2,632,839 537,446 522,498 14,948 646,459 643,455 2,994 834,518 804,205 30,313 0 0 0 1 1 614,416 410,900 44,654 158,862 0	2,762,770 543,306 527,912 15,335 687,179 684,240 2,939 881,815 849,513 32,302 0 0 0 0 430,653 48,403 171,413	2,861,430 553,316 537,407 15,909 718,085 714,844 3,241 911,435 877,863 33,572 0 0 1 678,594 447,938 50,713 179,942 0
73 Individuals and others <sup>7</sup> 74 One- to four-family 75 Multıfamily 76 Nonfarm, nonresidential 77 Farm	531,329 371,440 64,970 77,112 17,806	556,702 360,235 69,179 109,119 18,169	568,907 362,033 72,629 115,467 18,779	582,171 370,811 73,536 118,525 19,299	595,552 377,896 74,987 123,107 19,562	601,570 386,025 74,971 120,600 19,974	607,493 386,458 75,249 125,640 20,147	620,919 397,491 75,524 127,312 20,592

Multifamily debt refers to loans on structures of five or more units.
 Includes loans held by nondeposit trust companies but not loans held by bank trust

<sup>2</sup> Includes loans held by nondeposit trust companies but not loans held by bank trust departments.
3. Includes savings banks and savings and loan associations.
4. FmHA-guaranteed securities sold to the Federal Financing Bank were reallocated from FmHA mortgage pools to FmHA mortgage holdings in 1986:Q4 because of accounting changes by the Farmers Home Administration.
5. Outstanding principal balances of mortgage-backed securities insured or guaranteed by the agency indicated.

Includes securitized home equity loans.
 Other holders include mortgage companies, real estate investment trusts, state and local credit agencies, state and local retirement funds, noninsured pension funds, credit unions, and finance companies.

nnance companies.

SOURCE, Based on data from various institutional and government sources. Separation of nonfarm mortgage debt by type of property, if not reported directly, and interpolations and extrapolations, when required for some quarters, are estimated in part by the Federal Reserve. Line 69 from Inside Mortgage Securities and other sources.

#### Domestic Financial Statistics ☐ January 2000 A36

#### 1.55 CONSUMER CREDIT<sup>1</sup>

Millions of dollars, amounts outstanding, end of period

		1007	1000				99					
Holder and type of credit	1996	1997	1998	Apr.	May	June	July	Aug. <sup>r</sup>	Sept.			
				Se	easonally adjuste	ed						
l Total	1,182,439	1,234,122	1,300,491	1,332,662	1,343,427	1,347,831	1,356,696	1,363,800	1,369,732			
2 Revolving	499,532 682,907	531,295 702,828	560,653 739,838	569,860 762,801	571,957 771,470	578,530 769,301	584,362 772,334	586,684 777,115	587,849 781,883			
	Not seasonally adjusted											
4 Total	1,211,590	1,264,103	1,331,742	1,322,021	1,331,267	1,340,414	1,349,886	1,364,995	1,373,216			
By major holder 5 Commercial banks 6 Finance companies 7 Credit unions 8 Savings institutions 9 Nonfinancial business 10 Pools of securitized assets	526,769 152,391 144,148 44,711 77,745 265,826	512,563 160,022 152,362 47,172 78,927 313,057	508,932 168,491 155,406 51,611 74,877 372,425	494,663 170,145 156,797 54,803 67,112 378,501	492,852 168,490 158,102 55,982 68,051 387,790	477,774 173,617 158,177 57,161 68,042 405,643	477,977 173,374 159,920 58,340 68,228 412,047	476,649 177,331 162,412 59,519 68,944 420,140	474,546 173,252 164,078 60,699 67,717 432,924			
By major type of credit <sup>4</sup> 11 Revolving. 12 Commercial banks 13 Finance companies 14 Credit unions 15 Savings institutions 16 Nonfinancial business 17 Pools of securitized assets <sup>3</sup>	522,860 228,615 32,493 17,826 10,313 44,901 188,712	555,858 219,826 38,608 19,552 11,441 44,966 221,465	586,528 210,346 32,309 19,930 12,450 39,166 272,327	563,907 191,295 31,327 18,823 12,507 33,726 276,229	566,019 190,216 31,296 18,732 12,641 34,446 278,688	572,463 178,031 32,408 18,856 12,775 34,618 295,775	576,538 177,098 32,846 19,054 12,909 34,794 299,837	582,838 172,612 33,014 19,335 13,043 35,418 309,416	584,680 172,393 30,884 19,489 13,177 34,289 314,448			
18 Nonrevolving           19 Commercial banks           20 Finance companies           21 Credit unions           22 Savings institutions           23 Nonfinancial business           24 Pools of securitized assets <sup>3</sup>	688,730 298,154 119,898 126,322 34,398 32,844 77,114	708,245 292,737 121,414 132,810 35,731 33,961 91,592	745,214 298,586 136,182 135,476 39,161 35,711 100,098	758,114 303,368 138,818 137,974 42,296 33,386 102,272	765,248 302,636 137,194 139,370 43,341 33,605 109,102	767,951 299,743 141,209 139,321 44,386 33,424 109,868	773,348 300,879 140,528 140,866 45,431 33,434 112,210	782,157 304,037 144,317 143,077 46,476 33,526 110,724	788,536 302,153 142,368 144,589 47,522 33,428 118,476			

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

Percent per year except as noted

Item		400=	1000		_	_	1999			
Item	1996	1997	1998	Mar.	Apr.	May	June	July	Aug.	Sept.
INTEREST RATES										
Commercial banks <sup>2</sup> 1 48-month new car 2 24-month personal	9.05	9.02	8.72	n.a.	n.a.	8.30	n.a.	n.a.	8.44	n.a.
	13.54	13.90	13.74	n.a.	n.a.	13.26	n.a.	n.a.	13.38	n.a.
Credit card plan 3 All accounts	15.63	15.77	15.71	n.a.	n.a.	15.21	n.a.	n.a.	15.08	n.a.
	15.50	15.57	15.59	n.a.	n.a.	14.94	n.a.	n.a.	14.79	n.a.
Auto finance companies 5 New car 6 Used car	9.84	7.12	6.30	6.31	6.52	6.57	6.60	6.70	6.28	n.a.
	13.53	13.27	12.64	12.09	12.17	12.16	12.31	12.69	12.96	n.a.
OTHER TERMS <sup>3</sup>										
Maturity (months) 7 New car 8 Used car	51.6	54.1	52.1	53.0	52.8	52.4	52.3	52.0	51.7	52.1
	51.4	51.0	53.5	56.0	56.0	56.1	56.0	56.1	55.8	55.9
Loan-to-value ratio 9 New car 10 Used car	91	92	92	91	92	92	92	92	92	92
	100	99	99	99	99	99	99	99 <sup>r</sup>	100	100
Amount financed (dollars)  11 New car	16,987	18,077	19,083	19,339	19,435	19,539	19,722	19,873 <sup>r</sup>	20,012	20,154
	12,182	12,281	12,691	13,653	13,647	13,700	13,816	13,609 <sup>r</sup>	13,374	13,449

<sup>1.</sup> The Board's series on amounts of credit covers most short- and intermediate-term credit extended to individuals. Data in this table also appear in the Board's G.19 (421) monthly statistical release. For ordering address, see inside front cover.

<sup>1.</sup> The Board's series on amounts of credit covers most short- and intermediate-term credit extended to individuals. Data in this table also appear in the Board's G.19 (421) monthly statistical release. For ordering address, see inside front cover.

2. Comprises motor vehicle loans, mobile home loans, and all other loans that are not included in revolving credit, such as loans for education, boats, trailers, or vacations. These loans may be secured or unsecured.

<sup>3.</sup> Outstanding balances of pools upon which securities have been issued; these balances are no longer carried on the balance sheets of the loan originator

4. Totals include estimates for certain holders for which only consumer credit totals are available.

Data are available for only the second month of each quarter.
 At auto finance companies.

# 1.57 FUNDS RAISED IN U.S. CREDIT MARKETS<sup>1</sup>

Billions of dollars; quarterly data at seasonally adjusted annual rates

			_			1997		19	98		19	99
Transaction category or sector	1993	1994	1995	1996	1997	Q4	Ql	Q2	Q3	Q4	Ql	Q2
						Nonfinanc	ial sectors					
1 Total net borrowing by domestic nonfinancial sectors	584.4	575.8	720.4	743.0	785.3	912.0	1,075.5	1,042.4	899.2	1,072.8	1,248.1	865.6
By sector and instrument 2 Federal government 3 Treasury securities 4 Budget agency securities and mortgages	256.1 248.3 7.8	155.8 155.7 .2	144.4 142.9 1.5	145.0 146.6 -1.6	23.1 23.2 1	-5.5 -7.3 1.7	-14.5 -12.1 -2.4	-28.4 -26.9 -1.4	-113.5 -113.1 4	-54.1 -66.3 12.2	-75.2 -73.7 -1.5	-112.2 -112.8 .6
5 Nonfederal	328.3	420.0	576.0	598.0	762.2	917.5	1,090.0	1,070.8	1,012.6	1,127.0	1,323.3	977.8
By instrument Commercial paper Municipal securities and loans Corporate bonds Bank loans n.e.c. Other loans and advances Mortgages Home Multifamily residential Commercial Farm Consumer credit	10.0 74.8 75.2 6.4 -18.9 122.4 160.1 -5.1 -33.6 1.0 58.4	21.4 -35.9 23.3 75.2 34.0 177.0 183.4 -2.1 -6.5 2.2 124.9	18.1 -48.2 91.1 103.7 67,2 205.1 179.8 7.6 16.2 1.6 138.9	9 2.6 116.3 70.5 33.5 287.4 243.0 11.5 30.4 2.6 88.8	13.7 71.4 150.5 106.5 69.1 298.4 235.8 10.8 48.7 3.2 52.5	12.8 99.9 163.6 178.1 141.4 278.6 188.8 18.3 68.6 2.9 43.1	51.1 113.5 278.8 35.0 76.3 476.4 376.5 21.6 74.1 4.1 58.9	3.8 101.3 294.8 169.2 40.8 398.9 287.3 21.1 83.8 6.7 62.1	85.6 82.9 108.0 107.8 77.7 471.1 373.7 16.1 75.9 5.5 79.6	-43.0 89.6 193.2 120.9 102.5 593.8 427.8 30.6 126.8 8.6 69.9	64.4 100.7 274.0 70.0 114.1 573.4 414.6 35.9 119.3 3.6 126.6	3.4 48.0 260.8 21.8 -5.3 595.7 424.2 36.8 125.4 9.3 53.2
By borrowing sector   Household	209.4 52.7 46.9 3.2 2.6 66.2	316.3 150.0 142.3 3.3 4.4 -46.2	350.3 277.2 243.7 30.6 2.9 -51.5	351.7 253.2 164.6 83.8 4.8 -6.8	325.5 380.6 297.0 77.4 6.2 56.1	311.1 520.3 425.0 86.6 8.6 86.2	463.3 532.5 426.9 97.1 8.4 94.2	418.5 570.3 467.4 95.4 7.5 82.0	471.9 470.7 365.8 97.6 7.3 70.0	527.3 524.6 413.7 103.3 7.5 75.1	553.3 682.6 574.4 101.6 6.6 87.4	511.0 431.1 320.6 111.2 7 35.7
23 Foreign net borrowing in United States 24 Commercial paper 25 Bonds 26 Bank loans n.e.c. 27 Other loans and advances 28 Total domestic plus foreign	69.8 -9.6 82.9 .7 -4.2 <b>654.2</b>	-13.9 -26.1 12.2 1.4 -1.4 <b>561.9</b>	71.1 13.5 49.7 8.5 5 <b>791.5</b>	77.2 11.3 55.8 9.1 1.0 <b>820.3</b>	57.6 3.7 47.2 8.5 -1.8 <b>842.9</b>	44.8 .7 34.2 15.7 -5.8 <b>956.8</b>	95.0 55.3 42.5 5.2 -8.0 1,170.4	97.9 -25.5 119.2 8.4 -4.2 <b>1,140.3</b>	-19.6 6.2 -27.2 3.6 -2.2 <b>879.5</b>	-38.9 -4.7 -34.2 9.8 -9.7 <b>1,034.0</b>	17.3 18.3 .9 .9 -2.8 <b>1,265.4</b>	-43.3 -27.1 -19.1 5.7 -2.7 <b>822.4</b>
						Financia	d sectors					
29 Total net borrowing by financial sectors	294.4	468.4	453.9	548.9	652.2	961.5	931.3	988.9	1,056.3	1,298.7	1,216.0	1,014.1
By instrument 30 Federal government-related 31 Government-sponsored enterprise securities 32 Morgage pool securities 33 Loans from U.S. government	165.3 80.6 84.7 .0	287.5 176.9 115.4 -4.8	204.1 105.9 98.2 .0	231.5 90.4 141.1 .0	212.8 98.4 114.5 .0	290.9 157.9 133.0 .0	249.2 142.5 106.7 .0	405.4 166.4 239.0 .0	555.8 294.0 261.7 .0	673.3 510.5 162.8 .0	592.3 193.0 399.3 .0	579.3 304.7 274.6 .0
34 Private 35 Open market paper 36 Corporate bonds 37 Bank loans n.e.c. 38 Other loans and advances 39 Mortgages	129.1 -5.5 123.1 -14.4 22.4 3.6	180.9 40.5 121.8 -13.7 22.6 9.8	249.8 42.7 195.9 2.5 3.4 5.3	317.5 92.2 176.9 12.6 27.9 7.9	439.4 166.7 209.0 13.2 35.6 14.9	670.7 244.7 348.8 -4.7 61.7 20.1	682.1 236.7 346.3 57.3 32.7 9.1	583.5 135.6 361.8 -9.7 76.0 19.9	500.5 141.0 177.4 60.2 82.3 39.6	625.4 130.7 281.9 12.4 169.9 30.6	623.7 78.3 492.5 -8.8 41.6 20.1	434.8 57.8 260.8 10.5 117.9 -12.3
By borrowing sector  40 Commercial banking  41 Savings institutions  42 Credit unions  43 Life insurance companies  44 Government-sponsored enterprises  45 Federally related mortgage pools  46 Issuers of asset-backed securities (ABSs)  47 Finance companies  48 Mortgage companies  48 Mortgage companies  49 Real estate investment trusts (REITs)  50 Brokers and dealers  51 Funding corporations	13.4 11.3 .2 .2 .80.6 84.7 85.4 -1.4 .0 1.7 12.0 6.3	20.1 12.8 .2 .3 172.1 115.4 76.5 48.7 -11.5 10.2 .5 23.1	22.5 2.6 1 1 105.9 98.2 142.4 50.2 -2.2 4.5 -5.0 34.9	13.0 25.5 .1 1.1 90.4 141.1 153.9 45.9 4.1 11.9 -2.0 64.1	46.1 19.7 .1 .2 98.4 114.5 200.7 48.7 -4.6 39.6 8.1 80.7	61.4 41.7 .3 3 157.9 133.0 374.8 70.7 -46.8 66.0 7.0 95.9	82.8 10.6 .5 .0 142.5 106.7 283.0 74.6 29.4 63.1 -1.0 139.2	80.8 31.2 6 166.4 239.0 352.4 91.9 -28.2 64.4 20.0 -28.6	61.7 63.7 1.0 1.6 294.0 261.7 294.2 -12.0 2.3 79.3 -2.6 11.2	66.3 103.2 .4 1.8 510.5 162.8 335.7 17.8 3.0 44.0 12.4 40.9	31.1 58.0 1.5 3.3 193.0 399.3 302.2 71.2 -4.6 25.6 -31.1 166.5	61.6 58.6 1.4 3.0 304.7 274.6 318.3 88.4 5.1 -19.7 -18.3 -63.4

# A38 Domestic Financial Statistics □ January 2000

### 1.57 FUNDS RAISED IN U.S. CREDIT MARKETS<sup>1</sup>—Continued

	1000		1005	1004	1007	1997		19	98		19	199
Transaction category or sector	1993	1994	1995	1996	1997	Q4	QI	Q2	Q3	Q4	QI	Q2
						All se	ectors					
52 Total net borrowing, all sectors	948.6	1,030.3	1,245.4	1,369.2	1,495.1	1,918.3	2,101.7	2,129.3	1,935.8	2,332.7	2,481.3	1,836.4
53 Open market paper 54 U.S. government securities 55 Municipal securities 56 Corporate and foreign bonds 57 Bank loans n.e.c. 58 Other loans and advances 59 Mortgages 60 Consumer credit	-5.1 421.4 74.8 281.2 -7.2 8 126.0 58 4	35.7 448.1 -35.9 157.3 62.9 50.4 186.8 124.9	74.3 348.5 -48.2 336.7 114.7 70.1 210.5 138.9	102.6 376.5 2.6 348.9 92.1 62.5 295.3 88.8	184.1 235.9 71.4 406.7 128.2 102.8 313.3 52.5	258.2 285.3 99.9 546.5 189.2 197.4 298.7 43.1	343.0 234.7 113.5 667.6 97.6 101.0 485.5 58.9	113.8 377.1 101.3 775.8 167.9 112.5 418.7 62.1	232.7 442.3 82.9 258.2 171.6 157.8 510.7 79.6	83.0 619.1 89.6 440.9 143.0 262.7 624.4 69.9	161.1 517.1 100.7 767.4 62.1 152.9 593.5 126.6	34.1 467.1 48.0 502.5 38.0 110.0 583.5 53.2
				Funds 1	aised throu	ugh mutual	funds and	corporate	equities			
61 Total net issues	429.7	125.2	144.3	228.9	188.4	160.9	213.5	268.5	-147.2	18.3	140.6	6.4
62 Corporate equities 63 Nonfinancial corporations 64 Foreign shares purchased by U.S. residents 65 Financial corporations 66 Mutual fund shares	21.3 63.4	24.6 -44.9 48.1 21.4 100.6	-3.1 -58.3 50.4 4.8 147.4	-8.6 -69.5 60.0 .8 237.6	-76.7 -114.4 42.0 -4.3 265.1	-100.0 -143.3 1.7 41.6 260.9	-108.8 -139.2 14.0 16.4 322.3	-109.3 -129.1 12.3 7.5 377.8	-320.6 -308.4 -32.8 20.5 173.4	-206.5 -491.3 317.4 -32.7 224.8	-114.7 -65.7 -33.4 -15.6 255.3	-241.5 -354.0 124.7 -12.2 247.9

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables F.2 through F.4. For ordering address, see inside front cover.

### 1.58 SUMMARY OF FINANCIAL TRANSACTIONS<sup>1</sup>

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

						1997		19	98		19	99
Transaction category or sector	1993	1994	1995	1996	1997	Q4	Q1	Q2	Q3	Q4	QI	Q2
NET LENDING IN CREDIT MARKETS <sup>2</sup>												
1 Total net lending in credit markets	948.6	1,030.3	1,245.4	1,369.2	1,495.1	1,918.3	2,101.7	2,129.3	1,935.8	2,332.7	2,481.3	1,836.4
2 Domestic nonfederal nonfinancial sectors 3 Household 4 Nonfinancial corporate business 5 Nonfarm noncorporate business 6 State and local governments 7 Federal government 8 Rest of the world 9 Financial sectors 10 Monetary authority 11 Commercial banking 12 U.Schartered banks 13 Foreign banking offices in United States 14 Bank holding companies 15 Banks in U.Saffiliated areas 16 Savings institutions 17 Credit unions 18 Bank personal trusts and estates 19 Life insurance companies 20 Other insurance companies 21 Private pension funds 22 State and local government retirement funds 23 Money market mutual funds 24 Mutual funds 25 Closed-end funds 26 Government-sponsored enterprises 27 Federally related mortgage pools 28 Asset-backed securities issuers (ABSs) 29 Finance companies 30 Mortgage companies 31 Real estate investment trusts (REITs) 32 Brokers and dealers	30.0 -10.6 9.1 -1.1 32.6 -18.4 129.3 807.8 36.2 149.6 -9.8 0 0 2.4 -23.3 21.7 9.5 100.4 27.7 50.2 24.7 20.4 159.5 20.0 87.8 84.7 82.8 -20.9 44.4 44.8	231.2 268.0 17.7 .6 -55.0 -27.4 132.3 694.1 31.5 163.4 148.1 11.2 .9 3.3 6.7 28.1 7.1 72.0 24.9 30.0 -7.1 17.8 115.4 69.4 48.3 -24.0 -24.0 -24.0 -24.0	-90.0 5.5 -8.8 4.7 -91.4 -2.2 273.9 1,061.7 12.7 265.9 186.5 75.4 -3 4.2 -7.6 16.2 -8.3 100.0 21.5 56.0 33.6 86.5 52.5 55.5 10.5 86.7 98.2 120.6 49.9 -3.4 1.4	22.5 61.4 -8.8 -4.3 -33.7 -7.4 414.4 939.7 12.3 187.5 119.6 63.3 3.9 7.7 19.9 25.5 52.3 37.3 37.3 38.8 88.8 48.9 4.7 84.2 141.1 123.6 184.2 4.4 4.5 7.7	-88.9 -86.2 -2.3 66 .1 5.1 310.7 1,268.1 38.3 324.3 274.9 40.2 5.4 3.7 -4.7 16.8 87.6 94.3 25.2 65.5 63.8 87.5 80.9 94.3 114.5 162.3 21.9 94.3 114.5 162.3 21.9 94.3	48.1 7.5 -13.0 66 54.2 92.2 203.9 1,657.1 54.3 447.4 357.6 69.3 19.4 1.1 8.9 6.5 8.8 34.1 134.7 79.5 42.7 141.8 64.8 -2.9 158.1 133.0 321.9 -19.7 -93.6 38.9 71.7	-49.7 -64.2 8.4 .0 6.1 15.7 223.8 1,912.0 27.6 306.7 268.4 17.5 11.8 16.1 2.4 92.1 23.4 74.5 67.4 159.3 156.4 4.5 198.3 106.7 223.9 28.7 223.9 28.7 58.8 25.6 245.8	512.7 385.2 -46.9 0.174.3 12.9 321.8 1,281.9 11.5 132.7 130.0 15.2 -17.6 5.1 2.1 22.7 3.1 63.4 -1.5 130.1 78.4 208.1 146.4 4.5 150.6 239.0 321.4 24.0 0.56.4 6.1 -183.1	94.9 -44.8 14.0 0.125.7 13.8 60.8 1,766.3 41.6 250.1 309.2 -68.1 6.0 2.9 17.9 21.0 2.0 65.6 65.6 255.5 92.9 4.5 264.7 248.7 79.5 4.5 -11.3 77.0	-318.3 -424.1 14.1 .0 91.7 390.7 2,248.6 540.2 -12.1 -7.4 10.7 113.3 16.0 67.5 174.4 48.5 353.1 103.5 429.5 162.8 312.7 75.3 6.0 -40.8 -209.1	307.5 244.9 10.4 .0 52.2 17.5 213.3 1,943.0 71.8 68.9 134.1 754.9 -6.0 -4.4 102.7 37.7 3.1 72.6 60.5 74.3 227.6 101.5 4.4 157.2 399.3 284.6 92.2 -9.1 1.7	347.9 255.1 39.5 .0 53.3 6.5 51.6 1,430.5 62.4 135.0 231.5 -105.8 88.8 34.7 2.2 89.0 150.0 37.4 -92.6 98.8 4.4 259.5 274.6 301.5 79.6 301.5 79.6 301.5
33 Funding corporations	-31.0	-17.8	-21.2	14.0	52.7	126.2	82.0	-21.4	63.3	6.4	27.1	96.8
34 Net flows through credit markets	948.6	1,030.3	1,245.4	1,369.2	1,495.1	1,918.3	2,101.7	2,129.3	1,935.8	2,332.7	2,481.3	1,836.4
Other financial sources 35 Official foreign exchange 36 Special drawing rights certificates 37 Treasury currency 38 Foreign deposits 39 Net interbank transactions 40 Checkable deposits and currency 41 Small time and savings deposits 42 Large time deposits 43 Money market fund shares 44 Security repurchase agreements 45 Corporate equities 46 Mutual fund shares 47 Trade payables 48 Security credit 49 Life insurance reserves 50 Pension fund reserves 51 Taxes payable 52 Investment in bank personal trusts 53 Noncorporate proprietors' equity	.8 .0 .4 -18.5 50.5 50.5 117.3 -70.3 -23.5 20.2 71.3 137.7 292.0 52.2 61.4 37.1 268.0 11.4 9 24.1 356.0	-5.8 .0 .7 52.9 89.8 -9.7 -39.9 19.6 43.3 78.2 24.6 100.6 94.0 1 35.5 25.7 2.6 17.8 53.6 245.6	8.8 2.2 .6 35.3 10.0 -12.7 96.6 65.6 65.6 142.3 110.5 -3.1 147.4 101.6 26.7 45.8 235.1 6.2 4.0 60.3 444.6	-6.351 85.9 -51.6 15.8 97.2 114.0 145.8 41.4 -8.6 237.6 86.1 52.4 44.5 246.9 16.0 -8.6 498.3	.7 5 .0 106.8 -19.7 41.5 97.1 122.5 157.6 120.9 -76.7 265.1 96.2 111.0 54.3 304.0 16.8 75.0 6.1 513.3	17.5 .0 -1.9 100.6 54.3 72.1 136.7 59.2 149.9 103.3 -100.0 260.9 122.6 128.0 37.4 304.1 3.9 78.4 -43.5 222.2	1.0 .0 .3 .46.5 .95.2 .95.2 .99.0 .187.8 .213.6 .250.3 .108.8 .322.3 .108.3 .159.3 .49.3 .294.7 .12.2 .50.3 .111.0 .980.1	8.1 .0 .2 .92.9 .39.8 .90.1 .84.9 5.6 .247.2 100.8 57.4 .134.3 .53.3 .272.9 .57.5 5.4 .376.5	8.9 .0 1.7 84.9 44.2 -24.9 144.7 81.8 367.9 231.1 -320.6 173.4 34.6 167.0 51.7 279.5 273.3 47.8 -61.2 -712.6	8.6 0.0 -2.3 -131.9 -122.9 72.8 281.2 104.4 313.1 -170.3 -206.5 224.8 -86.8 -27.2 59.0 313.8 11.7 67.1 3.2 702.0	14.0 -4.0 -0.0 127.7 49.1 61.7 -63.8 -5.9 40.8 255.3 155.5 -86.9 40.8 284.3 -10.3 64.1 -2.5 238.7	-5.4 .0 .7 114.5 68.2 10.3 104.0 42.6 100.5 6-241.5 247.9 98.4 89.3 65.9 316.4 27.2 53.0 12.3 1,092.8
55 Total financial sources	2,337.6	2,088.3	2,773.2	2,975.1	3,487.1	3,624.1	4,621.2	3,687.3	3,988.1	3,746.3	4,069.6	3,968.0
Liabilities not identified as assets (-) 56 Treasury currency 57 Foreign deposits 58 Net interbank liabilities 59 Security repurchase agreements 60 Taxes payable 61 Miscellaneous	2 -5.7 4.2 50.5 15.8 -158.5	2 43.0 -2.7 67.7 16.6 -160.1	5 25.1 -3.1 20.2 21.1 -221.4	-,9 59.6 -3.3 4.5 20.4 -66.9	6 106.8 -19.9 62.3 18.8 -254.9	-2.4 145.5 -38.1 185.1 14.4 -640.7	2 -95.7 35.1 120.8 9.4 61.0	3 119.9 8.9 -170.0 2.8 -225.9	1.1 69.9 22.3 110.2 24.2 -106.7	-3.4 -156.5 -52.8 .2 17.4 -43.9	-1.5 62.0 58.7 362.2 -22.4 -568.0	4 73.5 -1.7 -14.8 -15.0 -390.0
Floats not included in assets (-)  62 Federal government checkable deposits  63 Other checkable deposits  64 Trade credit	-1.5 -1.3 -4.0	-4.8 -2.8 1.5	-6.0 -3.8 -11.7	.5 -4.0 -49.9	-2.7 -3.9 3.6	-10.0 -5.0 15.7	8.3 -4.0 41.9	-44.4 -2.9 -150.7	32.4 -3.6 -94.5	14.0 -1.8 -31.1	-1.8 -1.9 55.7	-41.4 -1.0 -6.9
65 Total identified to sectors as assets	2,438.2	2,130.1	2,953.4	3,015.2	3,577.6	3,959.6	4,444.8	4,150.0	3,932.8	4,004.0	4,126.5	4,365.7

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables F.1 and F.5. For ordering address, see inside front cover.

<sup>2.</sup> Excludes corporate equities and mutual fund shares.

#### Domestic Financial Statistics ☐ January 2000 A40

### 1.59 SUMMARY OF CREDIT MARKET DEBT OUTSTANDING<sup>1</sup>

	1004		1005	4005	1997	-	19	98		19	199
Transaction category or sector	1994	1995	1996	1997	Q4	Q1	Q2	Q3	Q4	Ql	Q2
					Nor	ifinancial sec	tors				
Total credit market debt owed by domestic nonfinancial sectors	13,013.9	13,734.3	14,477,4	15,261.1	15,261.1	15,522.2	15,742.1	15,956.2	16,283.6	16,588.0	16,758.7
By sector and instrument 2 Federal government 3 Treasury securities 4 Budget agency securities and mortgages	3,492.3 3,465.6 26.7	3,636.7 3,608.5 28.2	3,781.8 3,755.1 26.6	3,804.9 3,778.3 26.5	3,804.9 3,778.3 26.5	3,830.8 3,804.8 25.9	3,749.0 3,723.4 25.6	3,720.2 3,694.7 25.5	3,752.2 3,723.7 28.5	3,759.7 3,731.6 28.1	3,651.7 3,623.4 28.3
5 Nonfederal	9,521.6	10,097.6	10,695.6	11,456.3	11,456.3	11,691.4	11,993.2	12,236.0	12,531.4	12,828.3	13,107.0
By instrument   Commercial paper   The proof of the pro	139.2 1,341.7 1,253.0 759.9 669.6 4,374.2 3,330.0 261.5 699.8 83.0 983.9	157.4 1,293.5 1,344.1 863.6 736.9 4,579.4 3,509.8 269.1 716.0 84.6 1,122.8	156.4 1,296.0 1,460.4 934.1 770.4 4,866.8 3,719.0 284.3 776.4 87.1 1,211.6	168.6 1,367.5 1,610.9 1,040.5 839.5 5,165.2 3,954.8 295.0 825.1 90.3 1,264.1	168.6 1,367.5 1,610.9 1,040.5 839.5 5,165.2 3,954.8 295.0 825.1 90.3 1,264.1	193.1 1,397.1 1,680.6 1,047.9 863.5 5,273.3 4,037.9 300.4 843.6 91.3 1,236.0	202.5 1,429.3 1,754.3 1,097.6 873.1 5,379.7 4,116.4 305.7 864.6 93.0 1,256.8	216.9 1,439.9 1,781.3 1,120.6 886.8 5,504.0 4,216.4 309.7 883.6 94.4 1,286.6	193.0 1,464.3 1,829.6 1,148.8 913.8 5,650.3 4,321.1 317.4 915.3 96.5 1,331.7	223.9 1,491.0 1,898.1 1,165.2 947.5 5,784.1 4,413.8 326.6 946.3 97.4 1,318.6	232.4 1,510.0 1,963.3 1,178.4 945.8 5,939.2 4,526.0 335.8 977.7 99.7 1,338.0
By borrowing sector   17   Household     18   Nonfinancial business     19   Corporate     20   Nonfarm noncorporate     21   Farm     22   State and local government	4,427.0 3,972.9 2,708.9 1,121.8 142.2 1,121.7	4,782.2 4,245.2 2,947.7 1,152.4 145.1 1,070.2	5,105.1 4,527.1 3,141.0 1,236.1 149.9 1,063.4	5,433.3 4,903.5 3,433.8 1,313.6 156.1 1,119.5	5,433.3 4,903.5 3,433.8 1,313.6 156.1 1,119.5	5,494.5 5,052.6 3,559.4 1,337.9 155.3 1,144.3	5,613.2 5,209.2 3,686.4 1,361.8 161.0 1,170.8	5,746.1 5,311.1 3,762.5 1,385.5 163.1 1,178.8	5,903.6 5,428.0 3,852.2 1,411.9 163.8 1,199.8	5,985.9 5,619.2 4,019.2 1,437.6 162.4 1,223.2	6,128.1 5,740.7 4,107.9 1,466.7 166.2 1,238.2
23 Foreign credit market debt held in United States	370.3	441.4	518.7	570.1	570.1	591.6	617.1	612.8	603.7	607.8	596.5
24 Commercial paper 25 Bonds 26 Bank loans n.e.c. 27 Other loans and advances	42.7 242.3 26.1 59.3	56.2 291.9 34.6 58.8	67.5 347.7 43.7 59.8	65.1 394.9 52.1 58.0	65.1 394.9 52.1 58.0	76.7 405.6 53.4 55.9	71.4 435.4 55.5 54.8	74.0 428.6 56.4 53.8	72.9 420.0 58.9 52.0	77.2 420.2 59.1 51.3	70.1 415.4 60.5 50.4
28 Total credit market debt owed by nonfinancial sectors, domestic and foreign	13,384.2	14,175.8	14,996.0	15,831.2	15,831.2	16,113.8	16,359.2	16,568.9	16,887.3	17,195.8	17,355.2
					F	inancial secto	rs				
29 Total credit market debt owed by			_				_				
financial sectors  By instrument	3,822.2	4,278.8	4,827.7	5,446.8	5,446.8	5,670.1	5,926.8	6,195.5	6,515.6	6,809.7	7,073.6
30 Federal government-related 31 Government-sponsored enterprise securities 32 Mortgage pool securities 33 Loans from U.S. government 34 Private 35 Open market paper 36 Corporate bonds 37 Bank loans n.e.c. 38 Other loans and advances 39 Mortgages	2,172.7 700.6 1,472.1 .0 1,649.5 441.6 1,008.8 48.9 131.6 18.7	2,376.8 806.5 1,570.3 .0 1,901.9 486.9 1,204.7 51.4 135.0 24.1	2,608.3 896.9 1,711.4 .0 2,219.4 579.1 1,381.5 64.0 162.9 31.9	2,821.1 995.3 1,825.8 .0 2,625.7 745.7 1,557.5 77.2 198.5 46.8	2,821.1 995.3 1,825.8 .0 2.625.7 745.7 1,557.5 77.2 198.5 46.8	2,878.0 1,030.9 1,847.1 .0 2,792.1 804.9 1,640.8 90.6 206.6 49.1	2,981.4 1,072.5 1,908.9 .0 2,945.4 838.9 1,738.7 88.2 225.6 54.1	3,121.7 1,146.0 1,975.7 .0 3.073.8 874.2 1,786.2 103.2 246.2 64.0	3,292.0 1,273.6 2,018.4 .0 3,223.6 906.7 1,849.4 107.2 288.7 71.6	3,434.1 1,321.8 2,112.3 .0 3,375.6 926.4 1,969.3 104.1 299.1 76.6	3,580.8 1,398.0 2,182.8 .0 3,492.7 940.9 2,042.9 106.8 328.6 73.6
By borrowing sector  40 Commercial banks  41 Bank holding companies  42 Savings institutions  43 Credit unions  44 Life insurance companies  45 Government-sponsored enterprises  46 Federally related mortgage pools  47 Issuers of asset-backed securities (ABSs)  48 Brokers and dealers  49 Finance companies  50 Mortgage companies  51 Real estate investment trusts (REITs)  52 Funding corporations	94.5 133.6 112.4 .5 .6 700.6 1,472.1 570.1 34.3 433.7 18.7 40.0 211.0	102.6 148.0 115.0 .4 .5 806.5 1,570.3 712.5 29.3 483.9 16.5 44.6	113.6 150.0 140.5 .4 1.6 896.9 1,711.4 866.4 27.3 529.8 20.6 56.5 312.7	140.6 168.6 160.3 .6 1.8 995.3 1,825.8 1,078.2 35.3 554.5 16.0 96.1 373.7	140.6 168.6 160.3 .6 1.8 995.3 1,825.8 1,078.2 35.3 554.5 16.0 96.1 373.7	148.7 181.2 162.9 .7 1.8 1,030.9 1,847.1 1,142.9 35.1 571.9 23.4 111.9 411.6	159.6 190.5 170.7 .8 1.6 1,072.5 1,908.9 1,230.4 40.1 596.9 16.3 128.0 410.5	169.6 196.1 186.6 1.0 2.0 1,146.0 1,975.7 1,307.0 39.4 589.4 16.9 147.8 417.9	188.6 193.5 212.4 1.1 2.5 1,273.6 2,018.4 1,394.6 42.5 597.5 17.7 158.8 414.4	187.5 202.6 226.9 1.5 3.3 1,321.8 2,112.3 1,463.8 34.8 614.4 16.5 165.2 459.1	202.7 202.7 241.6 1.8 4.0 2,182.8 1,542.9 30.2 639.2 17.8 160.3 449.6
		r				All sectors				•	
53 Total credit market debt, domestic and foreign	17,206.4	18,454.5	19,823.7	21,278.1	21,278.1	21,783.9	22,286.0	22,764.5	23,402.9	24,005.5	24,428.7
54 Open market paper 55 U.S. government securities 56 Municipal securities 57 Corporate and foreign bonds 58 Bank loans n.e.c. 59 Other loans and advances 60 Mortgages 61 Consumer credit	623.5 5,665.0 1,341.7 2,504.0 834.9 860.5 4,393.0 983.9	700.4 6,013.6 1,293.5 2,840.7 949.6 930.6 4,603.4 1,122.8	803.0 6,390.0 1,296.0 3,189.6 1,041.7 993.1 4,898.7 1,211.6	979.4 6,626.0 1,367.5 3,563.3 1,169.8 1,095.9 5,212.0 1,264.1	979.4 6,626.0 1,367.5 3,563.3 1,169.8 1,095.9 5,212.0 1,264.1	1,074.8 6,708.7 1,397.1 3,727.0 1,191.9 1,126.1 5,322.4 1,236.0	1,112.7 6,730.3 1,429.3 3,928.3 1,241.3 1,153.6 5,433.7 1,256.8	1,165.1 6,841.9 1,439.9 3,996.0 1,280.3 1,186.8 5,568.0 1,286.6	1,172.6 7,044.3 1,464.3 4,098.9 1,314.9 1,254.4 5,721.9 1,331.7	1,227.6 7,193.8 1,491.0 4,287.6 1,328.3 1,297.8 5,860.7 1,318.6	1,243.3 7,232.5 1,510.0 4,421.6 1,345.6 1,324.8 6,012.7 1,338.0

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables L.2 through L.4. For ordering address, see inside front cover.

### 1.60 SUMMARY OF FINANCIAL ASSETS AND LIABILITIES1

Billions of dollars except as noted, end of period

Billions of dollars except as noted, end of pe	inou				1007		10	08		19	
Transaction category or sector	1994	1995	1996	1997	1997	Q1		98	04		
2			_		Q4	Ų	Q2	Q3	Ç.	Q1	Q2
CREDIT MARKET DEBT OUTSTANDING <sup>2</sup> 1 Total credit market assets	17,206.4	18,454.5	19,823.7	21,278.1	21,278.1	21,783.9	22,286.0	22,764.5	23,402,9	24,005.5	24,428.7
2 Domestic nonfederal nonfinancial sectors 3 Household 4 Nonfinancial corporate business 5 Nonfarm noncorporate business 6 State and local governments 7 Federal government 8 Rest of the world 9 Financial sectors 10 Monetary authority 11 Commercial banking 12 U.Schartered banks 13 Foreign banking offices in United States 14 Bank holding companies 15 Banks in U.Saffiliated areas 16 Savings institutions 17 Credit unions 18 Bank personal trusts and estates 19 Life insurance companies 20 Other insurance companies 21 Private pension funds 22 State and local government retirement funds 23 Money market mutual funds 24 Mutual funds 25 Closed-end funds 26 Government-sponsored enterprises 27 Federally related mortgage pools 28 Asset-backed securities issuers (ABSs) 29 Finance companies	2,988.8 1,932.1 289.2 37.6 729.9 202.9 1,216.0 12,798.8 368.2 3,254.3 2,869.6 337.1 118.4 292.9 202.8 246.8 246.8 246.8 246.8 247.4 459.0 718.8 86.0 663.3 1,472.1 532.8	2,856.8 1,895.5 280.4 42.3 638.6 202.7 1,531.1 13,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 380.8 3,520.1 113,863.9 3,520.1 1,531.0 1,531.0 545.5 771.3 96.4 750.0 1,570.3 653.4 526.2	2,924.6 2,011.6 270.2 38.0 604.8 195.3 1,926.6 14,777.2 393.1 3,707.7 393.1 3,707.7 472.8 228.5 232.0 1,657.0 491.2 769.2 101.1 807.9 1,711.4 777.0 544.5	27,81.4 1,871.1 268.0 37.4 605.0 200.4 2,256.8 16,039.5 431.4 4,031.9 3,450.7 516.1 27.4 37.8 928.5 1,751.3 515.3 834.7 632.0 721.9 901.1 98.3 902.2 1,825.8 939.3	27,278.1 2,781.4 1,871.1 268.0 37.4 605.0 200.4 2,256.8 431.4 4,031.9 3,450.7 516.1 27.4 37.8 928.5 1,751.3 515.3 834.7 632.0 721.9 901.1 98.3 902.2 1,825.8 939.3 566.4	21,783.9 2,761.2 1,868.2 249.6 37.4 606.0 204.3 2,317.1 16,501.3 433.8 4,093.4 4,093.4 3,505.1 517.9 31.2 39.2 931.3 306.7 240.1 1,777.3 521.1 853.4 648.9 775.0 940.0 99.4 951.4 1,847.1 989.2 572.0	2,849.0 1,919.2 238.7 37.4 651.6 207.5 2,396.0 16,835.5 440.3 3,543.6 525.6 40.4 930.8 315.1 240.9 1,793.2 520.8 885.9 979.1 100.5 989.4 1,908.9 1,068.9 579.0	2,876.6 1,913.4 244.7 37.4 681.1 1,210.9 2,412.2 17,264.8 446.5 4,195.7 3,616.2 510.1 28.3 41.1 939.3 320.5 241.4 1,810.6 518.9 909.8 684.9 869.9 1,005.9 1,00	2,813.0 1,805.8 265.4 37.4 704.4 213.9 2,534.3 17,841.7 452.5 4,335.7 452.5 4,335.7 26.5 43.8 964.8 964.8 964.8 965.9 1,025.9	2,875.4 1,874.9 246.1 37.4 717.1 218.3 2,591.8 18,320.0 466.0 4,338.4 37.82.9 487.8 25.0 42.7 990.8 331.0 243.1 1,853.7 530.8 968.5 1,050.5 1,050.5 1,036.2 1,050.5 1,036.2 1,201.9 2,112.3 1,280.8 639.9 2,112.8	2,915.7 2,915.8 37.4 732.3 219.9 2,603.3 18,689.7 485.1 4,383.3 3,847.6 465.7 25.0 45.0 1,011.4 342.5 243.7 1,006.0 532.1 1,006.0 1,018.1 1,005.0 1,267.1 1,2182.8 1,355.7 660.9
30   Mortgage companies	36.5 24.6 93.3 106.0	33.0 26.0 183.4 87.4	41.2 30.4 167.7 101.4	32.1 50.6 182.6 149.4	32.1 50.6 182.6 149.4	46.8 57.0 244.0 173.5	32.7 58.5 198.3 172.6	33.8 55.7 217.5 155.1	35.3 45.5 165.2 151.7	33.0 45.9 211.4 166.4	35.6 45.3 160.2 192.2
34 Total credit market debt	17,206.4	18,454.5	19,823.7	21,278.1	21,278.1	21,783.9	22,286.0	22,764.5	23,402.9	24,005.5	24,428.7
Other liabilities 35 Official foreign exchange 36 Special drawing rights certificates 37 Treasury currency 38 Foreign deposits 39 Net interbank liabilities 40 Checkable deposits and currency 41 Small time and savings deposits 42 Large time deposits 43 Money market fund shares 44 Security repurchase agreements 45 Mutual fund shares 46 Security credit 47 Life insurance reserves 48 Pension fund reserves 49 Trade payables 50 Taxes payable 51 Investment in bank personal trusts 52 Miscellaneous	53.2 8.0 17.6 373.9 280.1 1,242.0 2,183.2 411.2 602.9 549.5 1,477.3 279.0 520.3 4,948.1 1,140.6 101.4 699.4 5,287.2	63.7 10.2 18.2 418.8 290.7 1,229.3 2,279.7 476.9 745.3 660.0 1,852.8 305.7 566.2 5,767.8 1,242.3 107.6 803.0 5,634.7	53.7 9.7 18.3 516.1 240.8 1,245.1 2,377.0 590.9 891.1 701.5 2,342.4 358.1 610.6 6,642.5 1,328.4 123.6 871.7 6,098.8	48.9 9.2 18.3 618.8 219.4 1,286.6 2,474.1 713.4 1,048.7 822.4 2,989.4 469.1 665.0 7,894.4 1,424.6 1,40	48.9 9.2 18.3 618.8 219.4 1,286.6 2,474.1 713.4 1,048.7 822.4 2,989.4 469.1 665.0 7,894.4 1,424.6 1,424.6 1,428.8 6,663.5	48.2 9.2 18.4 607.2 179.6 1,259.2 2,525.4 760.9 1,130.7 889.3 3,339.3 505.3 677.3 8,583.1 1,419.2 1,179.5 6,737.3	50.1 9.2 18.4 630.4 189.1 1,320.7 2,531.0 754.0 1,153.7 861.5 3,438.4 540.6 690.6 8,730.8 1,405.0 1,204.9 6,807.2	54.5 9.2 18.8 651.7 198.7 1,282.3 2,553.8 776.5 1,249.7 918.9 9.7 918.9 1,313.7 579.0 703.5 8,194.6 1,418.3 1,118.9 7,024.1	60.1 9.2 18.3 639.9 187.7 1,334.2 2,626.5 805.5 1,334.2 875.0 3,610.5 577.4 71,424.3 1,534.2 1,274.2 7,094.4	53.6 8.2 18.3 671.8 180.5 1,311.5 2,638.6 804.3 1,416.0 980.3 3,760.8 1,430.4 1,317.0 7,087.4	50.9 8.2 18.5 700.4 1.96.4 1.354.3 2.646.6 646.6 646.0 1.398.1 961.4 4,029.9 576.7 747.4 9,770.1 1.454.6 1.584.6 1.402.7 7,184.8
53 Total liabilities	37,381.6	40,927.2	44,843.8	49,867.0	49,867.0	51,804.7	52,765.9	52,809.1	55,306.8	56,463.3	57,897.0
Financial assets not included in liabilities (+) 54 Gold and special drawing rights 55 Corporate equities 56 Household equity in noncorporate business	21.1 6,237.9 3,410.5	22.1 8,331.3 3,658.3	21.4 10,062.4 3,864.5	21.1 12,776.0 4,213.4	21.1 12,776.0 4,213.4	21.2 14,397.6 4,039.4	21.0 14,556.1 4,255.1	21.2 12,758.4 4,265.5	21.6 15,437.7 4,288.4	20.7 15,970.3 4,293.4	20.8 17,137.5 4,257.7
Liabilities not identified as assets (-) 57 Treasury currency 58 Foreign deposits 59 Net interbank transactions 60 Security repurchase agreements 61 Taxes payable 62 Miscellaneous	-5.4 325.4 -6.5 66.2 48.8 -948.1	-5.8 360.2 -9.0 86.4 62.4 -1,350.8	-6.7 431.4 -10.6 90.9 76.7 -1,714.9	-7.3 534.0 -32.2 153.1 93.5 -2,087.0	-7.3 534.0 -32.2 153.1 93.5 -2,087.0	-7.4 510.1 -21.2 187.4 89.6 -2,259.2	-7.4 540.1 -17.1 140.9 95.6 -2,311.2	-7.2 557.6 -15.4 175.2 101.9 -2,449.9	-8.0 539.7 -27.0 168.4 103.9 -2,719.9	-8.4 555.1 -11.3 263.0 90.6 -2,953.5	-8.5 573.5 -10.5 255.6 108.2 -2,998.9
Floats not included in assets (-) 63 Federal government checkable deposits	3.4 38.0	3.1 34.2	-1.6 30.1	-8.1 26.2	-8.1 26.2	-10.4 21.4	-16.1 24.2	-12.0 15.7	-3.9 23.1	-7.2	~12.4 22.1
64 Other checkable deposits 65 Trade credit	-245.9	-257.5	-307.7	-314.5	-314.5	-358.1	-412.2	-440.1	-373.7	18.9 -415.3	-432.3 81,816.2

<sup>1.</sup> Data in this table also appear in the Board's Z.1 (780) quarterly statistical release, tables L.1 and L.5. For ordering address, see inside front cover.

<sup>2.</sup> Excludes corporate equities and mutual fund shares.

### 2.10 NONFINANCIAL BUSINESS ACTIVITY Selected Measures

Monthly data seasonally adjusted, and indexes 1992=100, except as noted

	1000	read	LogoF					1999				
Measure	1996 <sup>r</sup>	1997 <sup>r</sup>	1998 <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>r</sup>	Apr. <sup>r</sup>	May <sup>r</sup>	June	July	Aug.	Sept. <sup>r</sup>	Oct.
1 Industrial production 1	119.4°	127.1 <sup>r</sup>	132.4 <sup>r</sup>	134.5	135.1	135.5	136.2	136.6	137.4	137.6	137.6	138.5
Market groupings           2 Products, total           3 Final, total           4 Consumer goods           5 Equipment           6 Intermediate           7 Materials	114.2 <sup>r</sup> 115.3 <sup>r</sup> 112.4 <sup>r</sup> 120.4 <sup>r</sup> 110.8 <sup>r</sup> 127.8	119.6 121.1 115.1 <sup>r</sup> 132.1 <sup>r</sup> 115.3 <sup>r</sup> 139.0 <sup>r</sup>	123.7 <sup>r</sup> 125.4 116.2 <sup>r</sup> 142.7 <sup>r</sup> 118.8 <sup>r</sup> 146.5 <sup>r</sup>	125.8 127.3 117.2 144.9 121.3 148.7	126.0 127.3 116.7 145.9 121.6 150.3	126.2 127.6 116.5 147.0 121.7 150.8	126.8 128.2 116.8 148.4 122.3 151.7	126.8 128.3 117.0 148.3 121.7 153.1	126.9 128.6 116.8 149.3 121.5 155.0	127.3 129.1 117.4 149.8 121.6 154.8	126.9 128.5 116.5 149.6 122.1 155.7	127.9 129.6 118.2 149.7 122.6 156.2
Industry groupings 8 Manufacturing	121.3 <sup>r</sup>	130.1 <sup>r</sup>	136.4 <sup>1</sup>	139.3	139.7	140.2	141.0	141.4	142.0	142.4	142.6	143.4
9 Capacity utilization, manufacturing (percent) <sup>2</sup>	81.5 <sup>r</sup>	82.4 <sup>r</sup>	80.9 <sup>r</sup>	79.7	79.6	79.5	79.7	79.6	79.7	79.7	79.5	79.7
10 Construction contracts <sup>3</sup>	131.0 <sup>r</sup>	143.3 <sup>r</sup>	157.5°	168.0	166.0	171.0	172.0	177.0	171.0	162.0	165.0	165.0
11 Nonagricultural employment, total <sup>4</sup> 12 Goods-producing, total 13 Manufacturing, total 14 Manufacturing, production workers 15 Service-producing 16 Personal income, total 17 Wages and salary disbursements 18 Manufacturing 19 Disposable personal income <sup>5</sup> 20 Retail sales <sup>5</sup>	117.3 2.4 97.4 98.6 123.1 165.2 <sup>r</sup> 159.7 <sup>r</sup> 135.6 <sup>r</sup> 164.1 <sup>r</sup> 162.5	120.3 2.4 98.2 99.6 126.5 175.4 <sup>r</sup> 171.3 <sup>r</sup> 144.6 <sup>r</sup> 172.9 <sup>r</sup> 170.1	123.4 2.3 98.5 99.6 130.1 185.7 <sup>r</sup> 184.4 <sup>r</sup> 152.4 <sup>r</sup> 181.7 <sup>r</sup> 178.5	125.3 102.7 97.6 98.3 132.5 192.7 192.8 154.4 188.1 190.0	125.4 102.5 97.4 98.2 132.7 193.2 193.2 154.4 188.8 189.8	125.7 102.5 97.2 98.0 133.1 194.1 194.3 155.1 189.7 190.9	125.7 102.1 97.0 97.8 133.2 194.9 195.2 155.9 190.3 192.8	126.0 102.1 96.8 97.5 133.6 196.4 196.3 156.8 191.8	126.3 102.3 97.1 98.0 134.0 197.0 197.8 158.2 192.1 194.5	126.5 101.9 96.7 97.4 134.3 197.8 198.6 158.0 193.3 197.1	126.5 102.0 96.7 97.4 134.3 197.9 199.4 159.1 192.8 196.9	126.8 102.1 96.6 97.4 134.7 200.4 200.7 159.5 195.6 196.9
Prices <sup>6</sup> 21 Consumer (1982–84=100)	156.9 131.3	160.5 131.8	163.0 130.7	164.5 130.8	165.0 131.1	166.2 131.9	166.2 132.4	166.2 132.7	166.7 132.9	167.1 133.7	167.9 134.8	168.2 135.0

<sup>1.</sup> Data in this table appear in the Board's G.17 (419) monthly statistical release. The data are also available on the Board's web site, http://www.federalreserve.gov/releases/g17. The are also available on the Board's web site, http://www.recerainteerre.gov/receaseg17. The latest historical revision of the industrial production index and the capacity utilization rates was released in November 1999. The recent annual revision will be described in an article in the February 2000 issue of the Bulletin. For a description of the methods of estimating industrial production and capacity utilization, see "Industrial Production and Capacity Utilization." Historical Revision and Recent Developments," Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67–92, and the references cited therein. For details about the constructions of the production of the industrial production and capacity utilization. tion of individual industrial production series, see "Industrial Production: 1989 Developments and Historical Revision," Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187–204.

2. Ratio of index of production to index of capacity. Based on data from the Federal Reserve, DRI McGraw-Hill, U.S. Department of Commerce, and other sources.

- 3. Index of dollar value of total construction contracts, including residential, nonresidential, and heavy engineering, from McGraw-Hill Information Systems Company, F.W. Dodge
- 4. Based on data from the U.S. Department of Labor, Employment and Earnings Series
- covers employees only, excluding personnel in the armed forces.

  5. Based on data from U.S. Department of Commerce, Survey of Current Business.

  6. Based on data not seasonally adjusted. Seasonally adjusted data for changes in the price indexes can be obtained from the U.S. Department of Labor, Bureau of Labor Statistics, Monthly Labor Review.

NOTE. Basic data (not indexes) for series mentioned in notes 4 and 5, and indexes for series mentioned in notes 3 and 6, can also be found in the Survey of Current Business.

#### 2.11 LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT

Thousands of persons; monthly data seasonally adjusted

				ſ							
	1007						19	99			
Category	1996	1997	1998	Mar.	Apr.	May	June	July	Aug."	Sept. <sup>r</sup>	Oct.
HOUSEHOLD SURVEY DATA											
1 Civilian labor force <sup>2</sup>	133,943	136,297	137,673	138,816	139,091	139,019	139,408	139,254	139,264	139,386	139,662
2 Nonagricultural industries <sup>3</sup>	123,264 3,443	126,159 3,399	128,085 3,378	129,752 3,281	129,685 3,384	129,929 3,295	130,078 3,354	130,015 3,292	130,192 3,219	130,413 3,137	130,693 3,203
4 Number	7,236 5.4	6,739 4.9	6,210 4.5	5,783 4.2	6,022 4.3	5,795 4.2	5,975 4.3	5,947 4.3	5,853 4.2	5,836 4.2	5,766 4.1
ESTABLISHMENT SURVEY DATA											
6 Nonagricultural payroll employment <sup>4</sup>	119,608	122,690	125,833	127,813	128,134	128,162	128,443	128,816	128,945	128,986	129,296
7 Manufacturing 8 Mining 9 Contract construction 10 Transportation and public utilities 11 Trade 12 Finance 13 Service 14 Government	18,495 580 5,418 6,253 28,079 6,911 34,454 19,419	18,657 592 5,686 6,395 28,659 7,091 36,040 19,570	18,716 575 5,965 6,551 29,299 7,341 37,525 19,862	18,503 550 6,232 6,732 29,558 7,595 38,556 20,087	18,473 538 6,277 6,750 29,689 7,611 38,697 20,099	18,429 531 6,239 6,758 29,725 7,621 38,782 20,077	18,396 526 6,258 6,781 29,789 7,636 38,952 20,105	18,449 528 6,270 6,799 29,915 7,647 39,055 20,153	18,378 524 6,246 6,813 29,919 7,650 39,205 20,210	18,364 525 6,274 6,837 29,891 7,643 39,245 20,207	18,349 529 6,302 6,854 29,881 7,661 39,460 20,260

<sup>1.</sup> Beginning January 1994, reflects redesign of current population survey and population controls from the 1990 census.

Persons sixteen years of age and older, including Resident Armed Forces. Monthly
figures are based on sample data collected during the calendar week that contains the twelfth
day; annual data are averages of monthly figures. By definition, seasonality does not exist in

population figures.
3. Includes self-employed, unpaid family, and domestic service workers.

<sup>4.</sup> Includes all full- and part-time employees who worked during, or received pay for, the pay period that includes the twelfth day of the month; excludes proprietors, self-employed persons, household and unpaid family workers, and members of the armed forces. Data are adjusted to the March 1992 benchmark, and only seasonally adjusted data are available at this

time.
SOURCE. Based on data from U.S. Department of Labor, Employment and Earnings.

#### 2.12 OUTPUT, CAPACITY, AND CAPACITY UTILIZATION1

Seasonally adjusted

Series		1998		1999 <sup>r</sup>		1998		1999 <sup>r</sup>	I	1998		1999 <sup>r</sup>	
		Q4 <sup>r</sup>	Q1	Q2	Q3	Q4 <sup>r</sup>	Q1	Q2	Q3	Q4 <sup>r</sup>	Q1	Q2	Q3
			Output (1	992=100)		Capa	city (percen	ıt of 1992 o	utput)	Capa	city utilizati	on rate (per	rcent) <sup>2</sup>
1 Total industry		133.9	134.6	136.1	137.5	165,3	167.3	169.2	170.7	81.0	80.4	80.5	80.6
2 Manufacturing		138.3	139.2	140.9	142.3	172.5	174.8	176.9	178.7	80.2	79.6	79.6	79.6
3 Primary processing <sup>3</sup>		121.1 147.4	122.2 148.1	122.5 150.5	123.5 152.2	146.4 185.6	147.4 188.6	148.2 191.4	149.0 193.7	82.8 79.4	82.9 78.5	82.7 78.6	82.9 78.5
5 Durable goods 6 Lumber and products 7 Primary metals 8 Iron and steel 9 Nonferrous 10 Industrial machinery and equipment 11 Electrical machinery 12 Motor vehicles and parts 13 Aerospace and miscellaneous 15 transportation equipment 16 Textile mill products 17 Paper and products 18 Plastics materials 19 Petroleum products 10 Mining 11 Utilities 2 Electric		165.8 120.7 121.8 114.9 130.4 215.6 341.6 148.7 102.4 111.3 106.7 114.5 115.1 123.5 114.0 100.4 113.0 116.5	167.1 122.2 122.3 116.9 129.1 221.3 349.4 147.5 98.9 111.8 109.6 115.8 115.8 115.9 122.9 116.3	170.8 122.5 125.1 121.4 129.6 227.9 374.6 150.6 95.9 111.6 111.1 115.1 116.3 123.5 114.1 97.1 116.6 118.9	174.3 120.5 128.8 126.6 131.6 230.7 402.1 153.2 94.0 111.2 111.0 116.3 123.4 114.9 98.1 118.0 120.3	206.0 144.2 146.5 146.9 146.0 256.5 438.8 184.6 126.6 138.5 131.4 133.0 149.5 134.6 121.1 120.4 126.5 124.3	210.3 145.3 147.6 148.5 146.5 265.7 461.8 184.8 126.8 139.1 131.4 133.4 150.0 135.9 121.8 120.4 126.9 124.7	214.2 146.3 148.5 150.0 146.8 275.5 482.0 184.8 126.6 139.5 131.5 134.5 150.4 137.2 122.2	217.6 147.4 149.3 151.3 147.0 285.3 498.5 126.2 139.9 131.6 135.3 150.7 138.4 122.7	80.5 83.7 78.3 89.3 89.3 84.1 77.9 80.6 80.9 80.3 81.2 86.1 77.0 91.7 94.1 83.3 89.3 93.7	79.5 84.1 82.9 78.7 88.1 83.3 75.7 79.8 78.0 80.4 83.4 86.6 77.3 90.4 95.6 81.1 90.3 93.5	79.8 83.7 84.2 80.9 88.3 77.7 81.5 75.7 80.0 84.5 85.6 77.3 90.0 93.3 80.7 91.6 95.0	80.1 81.8 86.3 88.5 80.7 80.9 74.4 79.5 84.4 85.7 77.2 89.2 93.7 81.6 92.4 95.8
	1973	1975	Previou	s cycle <sup>5</sup>	Latest	cycle <sup>6</sup>	1998		•	19	99	1	'
	High	Low	High	Low	High	Low	Oct.	May	June	July <sup>r</sup>	Aug.r	Sept. <sup>r</sup>	Oct.p
				•		Capacity ut	ilization rat	te (percent)	2	•		•	•
1 Total industry	89.2	72.6	87.3	71.1	85.4	78.1	81.5	80.5°	80.5°	80.7	80.6	80.4	80.7
2 Manufacturing	88.5	70.5	86.9	69.0	85.7	76.6	80.5	79.7 <sup>r</sup>	79.6 <sup>r</sup>	79.7	79.7	79.5	79.7
3 Primary processing <sup>3</sup>	91.2 87.2	68.2 71.8	88.1 86.7	66.2 70.4	88.9 84.2	77.7 76.1	82.7 79.9	82.7 <sup>r</sup> 78.7 <sup>r</sup>	82.7 <sup>r</sup> 78.6 <sup>r</sup>	82.9 78.6	82.9 78.6	82.9 78.4	83.1 78.6
5 Durable goods	89.2 88.7 100.2 105.8 90.8	68.9 61.2 65.9 66.6 59.8	87.7 87.9 94.2 95.8 91.1	63.9 60.8 45.1 37.0 60.1	84.6 93.6 92.7 95.2 89.3	73.1 75.5 73.7 71.8 74.2	81.1 83.3 83.9 79.4 89.4	79.7 <sup>r</sup> 84.7 <sup>r</sup> 83.5 <sup>r</sup> 80.1 <sup>r</sup> 87.6 <sup>r</sup>	79.9 <sup>r</sup> 83.3 <sup>r</sup> 85.6 <sup>r</sup> 82.8 <sup>r</sup> 89.1 <sup>r</sup>	80.3 82.7 85.9 83.7 88.6	80.1 81.6 87.1 84.5 90.3	79.9 81.1 85.8 82.9 89.6	79.8 80.8 87.2 85.1 89.7
equipment	96.0 89.2 93.4 78.4	74.3 64.7 51.3	93.2 89.4 95.0 81.9	64.0 71.6 45.5 66.6	85.4 84.0 89.1 87.3	72.3 75.0 55.9 79.2	84.8 78.5 81.9	82.9 <sup>r</sup> 77.4 <sup>r</sup> 81.5 <sup>r</sup> 75.8 <sup>r</sup>	81.8 <sup>r</sup> 78.7 <sup>r</sup> 82.7 <sup>r</sup> 75.2 <sup>r</sup>	81.5 80.9 82.3 74.9	80.5 81.0 82.3	80.6 80.1 84.0 73.4	80.2 80.5 83.4 71.9
14 Nondurable goods 15 Textile mill products 16 Paper and products 17 Chemicals and products 18 Plastics materials 19 Petroleum products	87.8 91.4 97.1 87.6 102.0 96.7	71.7 60.0 69.2 69.7 50.6 81.1	87.5 91.2 96.1 84.6 90.9 90.0	76.4 72.3 80.6 69.9 63.4 66.8	87.3 90.4 93.5 86.2 97.0 88.5	80.7 77.7 85.0 79.3 74.8 85.1	80.4 81.2 87.3 76.7 89.5 93.0	80.2 <sup>r</sup> 84.4 <sup>r</sup> 85.2 <sup>r</sup> 77.8 <sup>r</sup> 90.5 <sup>r</sup> 93.4 <sup>r</sup>	79.7 <sup>r</sup> 84.2 <sup>r</sup> 85.9 <sup>r</sup> 77.3 <sup>r</sup> 89.5 92.6 <sup>r</sup>	79.4 85.3 85.2 76.9 90.9 93.9	79.6 84.6 85.6 77.6 87.8 93.4	79.5 83.4 86.5 77.1 88.9 93.8	80.1 83.9 86.3 78.3 90.6 94.3
20 Mining 21 Utilities 22 Electric	94.3 96.2 99.0	88.2 82.9 82.7	96.0 89.1 88.2	80.3 75.9 78.9	88.0 92.6 95.0	87.0 83.4 87.1	84.3 91.5 95.9	81.0 <sup>r</sup> 91.1 <sup>r</sup> 94.6 <sup>r</sup>	80.7 <sup>r</sup> 92.1 <sup>r</sup> 95.5 <sup>r</sup>	81.3 93.9 97.7	81.8 92.2 95.5	81.6 91.1 94.2	81.7 92.7 96.2

<sup>1.</sup> Data in this table appear in the Board's G.17 (419) monthly statistical release. The data are also available on the Board's web site, http://www.federalreserve.gov/releases/g17. The latest historical revision of the industrial production index and the capacity utilization rates was released in November 1999. The recent annual revision will be described in an article in the February 2000 issue of the Bulletin. For a description of the methods of estimating industrial production and capacity utilization. Historical Revision and Recent Developments, "Federal Reserve Bulletin, vol. 38 (February 1997), pp. 67–92, and the references cited therein. For details about the construction of individual industrial production series, see "Industrial Production: 1989 Developments and Historical Revision." Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187–204.

2. Capacity utilization is calculated as the ratio of the Federal Reserve's seasonally adjusted index of industrial production to the corresponding index of capacity.

<sup>3.</sup> Primary processing includes textiles; lumber; paper; industrial chemicals; synthetic materials; fertilizer materials; petroleum products; rubber and plastics; stone, clay, and glass; primary metals; and fabricated metals.
4. Advanced processing includes foods; tobacco; apparel; furniture and fixtures; printing and publishing; chemical products such as drugs and toiletries; agricultural chemicals: leather and products; machinery; transportation equipment; instruments; and miscellaneous manufactures.

tures.
5. Monthly highs, 1978–80; monthly lows, 1982.
6. Monthly highs, 1988–89; monthly lows, 1990–91.

# A44 Domestic Nonfinancial Statistics ☐ January 2000

# 2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value<sup>1</sup>

Monthly data seasonally adjusted

	1992 pro-	1998		1998 <sup>r</sup>						19	99				
Group	por- tion	avg.	Oct.	Nov.	Dec.	Jan. <sup>r</sup>	Feb.r	Mar.r	Apr.r	May <sup>r</sup>	June <sup>r</sup>	July	Aug.	Sept.r	Oct. <sup>p</sup>
								Index	(1992 =	100)					
Major Markets															
1 Total index	100.0	132.4	134.1	133.8	133.8	134.1	134.5	135.1	135.5	136.2	136.6	137.4	137.6	137.6	138.5
2 Products           3 Final products           4 Consumer goods, total           5 Durable consumer goods           6 Automotive products           7 Autos and trucks           8 Autos, consumer           9 Trucks, consumer           10 Auto parts and allied goods           11 Other           12 Appliances, televisions, and air	60.5 46.3 29.1 6.1 2.6 1.7 .9 .7 .9	123.7 125.4 116.2 142.7 134.7 138.4 109.2 166.2 128.6 149.0	125.8 127.5 116.0 146.2 143.4 151.4 119.9 181.0 131.5 147.6	125.1 126.8 115.6 145.4 142.0 150.2 113.7 183.2 129.9 147.3	124.9 126.0 115.1 146.0 141.7 148.2 115.5 179.1 131.8 148.8	125.4 126.6 116.3 149.1 143.7 149.4 111.7 185.2 134.8 152.8	125.8 127.3 117.2 150.9 142.0 148.7 109.0 187.2 131.8 158.0	126.0 127.3 116.7 149.9 140.0 147.0 110.8 182.5 129.3 157.8	126.2 127.6 116.5 152.0 142.0 149.0 112.8 185.7 131.4 160.0	126.8 128.2 116.8 152.8 145.4 153.2 108.8 197.2 133.6 158.3	126.8 128.3 117.0 154.0 147.4 157.5 112.4 202.0 132.5 158.8	126.9 128.6 116.8 153.4 143.7 148.9 107.2 184.0 135.3 161.1	127.3 129.1 117.4 155.7 150.6 162.9 115.9 213.6 132.8 159.2	126.9 128.5 116.5 152.7 145.5 152.8  134.1 158.2	127.9 129.6 118.2 155.3 146.5 154.4  134.4 162.2
Conditioners   Conditioners	1.0 8 1.6 23.0 10.3 2.4 4.5 2.9 2.9 .8 2.1	262.8 117.9 115.2 109.9 108.6 95.2 120.9 105.6 112.6 110.5 113.1	268.2 120.2 110.5 108.9 108.0 92.5 119.1 104.4 113.8 108.1 116.0	273.3 117.7 110.1 108.6 108.4 91.3 122.0 103.4 106.3 109.6 104.7	283.5 115.9 111.0 107.9 107.2 91.3 120.2 102.8 108.6 110.1 107.6	299.7 121.1 111.0 108.7 108.4 91.7 119.7 101.5 113.1 112.2 113.3	320.0 122.8 113.6 109.3 109.4 92.0 122.8 100.4 109.9 113.4 108.2	317.6 119.6 115.7 108.9 108.4 91.3 121.6 98.8 115.4 110.7 117.2	325.8 120.2 116.9 108.3 107.8 91.8 118.7 99.9 115.1 111.5 116.4	311.1 121.0 117.2 108.4 107.7 90.2 120.5 100.3 114.7 110.9 116.1	319.0 121.0 116.2 108.4 107.3 90.2 120.2 101.5 115.3 109.9 117.4	329.9 124.1 115.9 108.3 106.7 89.2 119.4 102.0 118.6 111.1 121.7	320.4 123.0 115.4 108.7 106.5 89.4 121.6 103.2 116.6 110.0 119.3	316.8 122.8 114.7 108.1 106.2 88.5 119.5 104.6 116.1 111.2 117.9	341.1 123.6 115.6 109.6 107.0 88.9 122.8 105.9 118.5 113.5 120.4
23         Equipment .           24         Business equipment .           25         Information processing and related .           26         Computer and office equipment .           27         Industrial .           28         Transit .           29         Autos and trucks .           30         Other .           31         Defense and space equipment .           32         Oil and gas well drilling .           33         Manufactured homes .	17.2 13.2 5.4 1.1 4.0 2.5 1.2 1.3 3.3 .6 .2	142.7 161.2 205.7 526.9 139.0 130.0 123.3 139.8 75.4 134.6 166.3	147.5 168.4 220.1 628.6 139.7 138.7 134.9 141.4 76.3 119.2 168.5	146.3 167.0 219.4 642.8 138.1 137.2 133.8 139.7 75.8 116.0 171.2	145.2 166.3 220.9 657.8 138.6 134.8 131.0 133.0 75.2 105.2 172.5	144.6 165.9 223.0 677.5 137.0 132.8 130.9 132.6 75.0 99.8 173.3	144.9 166.3 224.5 703.1 135.8 131.2 128.9 139.9 75.4 97.4 169.2	145.9 167.5 229.2 736.1 135.2 129.5 129.0 143.0 75.6 100.8 168.8	147.0 169.4 236.9 773.0 136.0 129.4 130.7 135.7 75.1 97.2 164.7	148.4 171.2 244.3 805.8 135.3 128.9 131.2 134.0 75.2 99.8 161.3	148.3 171.2 248.2 830.2 133.7 128.2 130.2 74.6 100.1 158.9	149.3 172.6 253.8 851.9 135.4 127.5 131.2 123.8 74.5 102.0 151.5	149.8 172.9 257.0 871.7 133.5 128.0 135.3 123.0 74.7 107.1 151.3	149.6 172.8 257.7 887.1 134.0 124.3 131.2 126.4 73.7 111.3 132.5	149.7 172.7 260.5 905.5 134.5 121.0 130.1 123.7 73.9 115.1 130.0
134 Intermediate products, total	14.2 5.3 8.9	118.8 128.0 113.4	120.4 129.8 114.9	120.0 130.3 113.9	121.1 132.2 114.5	121.4 133.3 114.3	121.3 132.5 114.7	121.6 131.7 115.6	121.7 131.3 116.1	122.3 132.9 116.1	121.7 132.6 115.3	121.5 133.2 114.6	121.6 133.0 114.8	122.1 133.8 115.1	122.6 134.3 115.6
37 Materials           38 Durable goods materials           39 Durable consumer parts           40 Equipment parts           41 Other           42 Basic metal materials           43 Nondurable goods materials           44 Textile materials           45 Paper materials           46 Chemical materials           47 Other           48 Energy materials           49 Primary energy           50 Converted fuel materials	39.5 20.8 4.0 7.6 9.2 3.1 1.8 3.9 2.1 9.7 6.3 3.3	146.5 182.1 146.2 295.6 130.2 122.8 112.7 106.9 115.7 112.9 115.4 103.1 101.0	147.6 187.0 147.4 316.4 129.5 119.5 111.3 100.6 115.3 111.2 113.0 103.2 101.5	147.9 187.7 145.5 319.6 130.3 118.8 102.7 112.8 112.7 113.7 102.1 100.4 105.3	148.5 189.2 147.2 322.1 131.2 119.3 111.7 101.8 114.4 111.3 114.6 101.6 98.8 107.0	148.2 188.8 145.4 323.1 130.8 119.1 111.3 96.5 116.1 111.6 113.4 101.8 99.1 106.8	148.7 189.2 148.4 324.4 129.8 116.8 112.4 100.2 115.6 112.8 114.4 101.7 99.1 106.7	150.3 191.9 149.9 331.5 130.9 119.8 112.7 101.2 116.3 113.6 113.3 102.4 99.1 108.9	150.8 193.1 147.7 340.5 130.4 120.1 1112.8 101.8 116.5 114.2 111.9 102.2 97.3 111.7	151.7 194.3 148.4 345.0 130.4 119.9 113.8 101.8 115.3 116.0 114.2 102.2 98.3 109.9	153.1 197.2 150.5 355.2 130.6 122.6 114.2 101.2 117.7 116.9 112.0 101.6 98.9 106.8	155.0 200.3 153.9 364.6 131.1 122.8 114.5 101.2 116.3 117.7 113.0 102.9 100.2 108.0	154.8 200.2 147.4 370.8 131.5 123.7 114.4 101.0 116.2 117.5 113.2 102.4 100.4	155.7 202.7 156.3 371.6 131.5 122.4 114.5 100.1 118.8 117.4 111.9 101.5 98.9 106.3	156.2 203.2 154.9 374.7 131.8 124.4 115.0 100.2 119.0 117.7 113.3 102.1 99.2 107.9
SPECIAL AGGREGATES	97.1	132.4	133.9	133.6	133.7	133.9	134.4	135.1	135.4	136.1	136.4	137.3	137.3	137.5	138.4
51 Total excluding autos and trucks	95.1	131.9	133.3	133.1	133.2	133.5	133.9	134.6	134.9	135.6	135.9	136.7	136.9	136.8	137.8
equipment	98.2 27.4 26.2	128.1 115.0 116.7	129.2 114.2 116.3	128.8 113.8 116.7	128.7 113.4 115.9	128.8 114.6 116.7	129.1 115.5 118.0	129.5 115.1 116.9	129.7 114.8 116.7	130.2 114.8 117.0	130.6 114.8 117.2	131.2 115.0 116.6	131.3 115.1 117.6	131.3 114.6 116.6	132.0 116.3 118.2
56 Business equipment excluding autos and trucks	12.0	165.6	172.2	170.8	170.3	169.9	170.6	171.9	173.8	175.7	175.7	177.4	177.2	177.5	177.5
office equipment	12.1 29.8	142.6 160.2	146.5 161.7	144.8 162.4	143.7 163.3	142.7 162.9	142.4 163.6	142.6 165.5	143.4 166.3	144.2 167.4	143.6 169.5	144.4 171.6	144.1 171.5	143.6 173.1	143.1 173.6

#### 2.13 INDUSTRIAL PRODUCTION Indexes and Gross Value<sup>1</sup>—Continued

G.	SIC	1992 pro-	1998		1998 <sup>r</sup>						19	99				
Group	code	por- tion	avg.	Oct.	Nov.	Dec.	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>r</sup>	Apr.r	May <sup>r</sup>	June <sup>r</sup>	July <sup>r</sup>	Aug.r	Sept.r	Oct. <sup>p</sup>
									Index	(1992 =	100)					
MAJOR INDUSTRIES																
59 Total index		100.0	132.4	134.1	133.8	133.8	134.1	134.5	135.1	135.5	136.2	136.6	137.4	137.6	137.6	138.5
60 Manufacturing 61 Primary processing		85.4 26.5 58.9	136.4 121.2 144.0	138.3 120.7 147.5	138.3 120.8 147.5	138.4 121.9 147.2	138.6 122.2 147.2	139.3 122.1 148.4	139.7 122.4 148.8	140.2 122.2 149.6	141.0 122.5 150.7	141.4 122.7 151.2	142.0 123.3 151.8	142.4 123.5 152.3	142.6 123.8 152.4	143.4 124.3 153.4
63 Durable goods	24	45.0 2.0 1.4	160.7 118.5 122.0	165.8 119.8 124.2	165.4 119.9 123.7	166.2 122.5 123.3	166.3 122.6 122.7	166.8 122.3 124.6	168.1 121.7 125.8	169.4 121.5 123.8	170.8 123.9 124.4	172.2 122.2 124.4	173.8 121.5 125.7	174.3 120.2 126.7	174.8 119.8 127.8	175.5 119.6 127.1
products		2.1 3.1 1.7 .1 1.4 5.0	126.8 125.6 122.6 115.3 129.4 128.8	128.4 122.5 116.2 110.0 130.4 128.1	130.1 120.5 112.1 101.6 130.9 128.6	131.8 122.5 116.5 102.7 130.0 129.8	133.1 122.9 118.1 106.8 128.9 129.0	132.2 120.1 114.6 106.8 127.0 128.4	130.8 124.0 118.1 108.3 131.4 128.5	128.8 123.9 119.4 109.3 129.4 128.0	128.5 123.9 120.1 111.4 128.6 127.2	127.8 127.4 124.5 110.7 130.8 128.3	129.3 128.0 126.2 111.1 130.2 128.6	130.1 130.0 127.9 115.9 132.7 128.8	130.2 128.4 125.7 112.4 131.7 129.0	130.4 130.6 129.5 118.4 132.0 129.7
72 Industrial machinery and equipment	35	8.0	206.4	215.0	215.3	216.6	217.5	221.7	224.6	227.0	228.4	228.2	230.0	229.7	232.5	234.2
cquipment	357 36 37 371 371PT	1.8 7.3 9.5 4.9 2.6	675.1 315.1 121.6 141.7 127.8	786.8 338.2 127.1 151.1 139.9	805.3 341.7 124.9 148.0 138.1	832.2 344.8 123.9 147.1 136.4	868.1 346.7 122.7 146.5 136.5	907.1 347.5 123.2 147.8 135.0	947.6 354.0 122.6 148.1 134.0	987.5 366.4 122.1 148.4 135.7	1,021.6 373.3 122.8 150.6 138.3	1,048.2 384.2 123.5 152.9 142.0	1,075.1 399.2 122.9 152.2 135.8	1,101.6 403.9 122.9 152.2 146.9	1,123.5 403.2 123.2 155.4 139.5	1,149.3 409.5 121.7 154.3 140.2
transportation equipment		4.6 5.4 1.3	101.7 112.6 122.0	103.6 114.4 120.5	102.3 113.0 119.5	101.2 112.8 120.8	99.4 113.3 120.6	99.3 112.9 121.8	97.9 113.7 122.9	96.5 115.1 124.2	96.0 116.7 125.5	95.2 117.0 124.5	94.7 117.2 125.2	94.7 116.9 125.2	92.5 117.0 125.2	90.5 117.4 126.4
81         Nondurable goods           82         Foods           33         Tobacco products           84         Textile mill products           85         Apparel products           86         Paper and products           87         Printing and publishing           88         Chemicals and products           89         Petroleum products           90         Rubber and plastic products           91         Leather and products	20 21 22 23 26 27 28 29 30 31	40.4 9.4 1.6 1.8 2.2 3.6 6.7 9.9 1.4 3.5	111.6 109.3 106.2 110.9 96.6 114.9 105.1 115.1 113.3 133.2 77.1	111.2 109.5 100.7 106.6 94.8 115.8 105.1 114.4 112.5 133.6 75.0	111.6 110.9 96.0 107.0 93.3 112.8 105.1 116.2 114.8 134.9 75.1	111.1 110.3 91.1 106.4 93.2 114.9 105.3 114.7 114.8 135.6 73.2	111.3 111.0 94.8 108.0 92.3 115.7 104.3 114.5 117.2 135.4 71.9	112.3 111.4 99.2 110.5 92.2 115.9 104.3 116.6 117.0 135.6 71.5	111.8 110.9 95.4 110.1 91.8 115.9 103.7 116.8 114.9 135.8 71.3	111.5 110.6 94.1 111.4 92.4 115.0 104.2 115.6 114.6 136.2 70.6	111.9 110.6 95.4 110.9 91.2 114.6 104.1 117.0 114.2 137.4 70.9	111.3 110.0 94.5 110.8 90.7 115.7 103.5 116.3 113.4 136.4 71.3	111.0 108.9 96.0 112.3 89.8 115.0 102.8 115.8 115.1 138.0 69.1	111.3 108.9 94.8 111.3 88.7 115.8 103.6 117.0 114.5 137.6 70.2	111.3 109.4 91.0 109.8 87.8 117.3 104.1 116.2 115.1 139.3 70.1	112.2 109.8 92.8 110.6 88.4 117.3 104.9 118.2 115.9 138.7 69.0
92 Mining	10 12 13 14	6.9 .5 1.0 4.8 .6	103.8 109.1 109.7 99.5 123.4	101.6 106.5 110.9 96.4 122.6	101.5 109.4 112.4 94.7 128.9	98.1 106.6 109.2 91.5 124.1	98.0 102.9 107.7 91.2 129.4	97.4 101.3 108.9 90.7 127.1	97.5 98.5 103.9 92.1 126.6	96.7 100.5 107.3 90.8 121.8	97.4 100.2 106.1 91.8 123.9	97.1 98.9 107.0 91.4 123.3	97.8 96.2 110.0 92.3 120.5	98.4 93.3 110.7 93.3 120.2	98.1 93.6 109.5 93.1 120.7	98.2 95.0 108.9 93.4 118.9
97 Utilities 98 Electric 99 Gas	491,493PT 492,493PT	7.7 6.2 1.6	114.4 116.9 103.2	115.6 119.0 100.1	110.8 114.7 93.3	112.5 115.9 97.5	114.5 115.8 108.8	112.6 114.9 102.5	116.8 119.1 106.4	116.3 118.6 105.7	116.1 118.4 105.8	117.4 119.6 107.5	119.8 122.6 107.4	117.8 120.0 108.2	116.5 118.4 108.0	118.7 121.1 108.0
SPECIAL AGGREGATES																
100 Manufacturing excluding motor vehicles and parts		80.5	136.1	137.6	137.8	138.0	138.2	138.9	139.3	139.8	140.5	140.8	141.4	141.9	141.9	142.8
equipment		83.6	131.4	132.5	132.5	132.5	132.4	133.0	133.1	133.4	134.1	134.3	134.8	135.0	135.1	135.8
semiconductors		5.9	563.8	633.9	645.5	656.4	665.0	676.0	700.3	731.6	753.3	780.5	812.1	830.0	836.3	849.8
computers and semiconductors		81.1	120.4	121.0	120.7	120.7	120.6	121.1	121.0	120.9	121.3	121.2	121.3	121.5	121.5	122.1
equipment, and semiconductors		79.5	118.5	119.0	118.8	118.7	118.6	119.1	118.9	118.7	119.1	118.9	118.9	118.9	119.0	119.5
						Gross v	alue (billi	ons of 19	92 dollar	s, annual	rates)					
Major Markets																
105 Products, total		2,001.9	2,642.2	2,690.7	2,677.2	2,674.9	2,693.7	2,699.9	2,701.8	2,710.2	2,721.9	2,723.6	2,726.1	2,736.6	2,727.1	2,746.7
106 Final		1,552.1	2,036.5	2,074.6	2,064.3	2,056.0	2,072.5	2,079.5	2,080.1	2,087.2	2,095.3	2,100.3	2,102.8	2,113.6	2,101.0	2,118.7
107 Consumer goods		1,049.6 502.5 449.9	1,271.0 767.9 606.1	1,274.9 801.1 614.8	1,270.5 795.1 611.7	1.267.6 789.6 617.5	1,286.4 787.0 619.9	1,292.3 788.1 619.1	1.287.9 793.3 620.4	1,288.4 800.1 621.7	1,290.1 806.7 625.2	1.295.1 806.7 622.1	1,292.4 812.3 622.0	1,300,3 815,1 621,8	1,289.8 813.2 624.8	1,307.3 812.8 626.7

<sup>1.</sup> Data in this table appear in the Board's G.17 (419) monthly statistical release. The data are also available on the Board's web site, http://www.federalreserve.gov/releases/g17. The latest historical revision of the industrial production index and the capacity utilization rates was released in November 1999. The recent annual revision will be described in an article in the February 2000 issue of the Bulletin. For a description of the methods of estimating industrial production and capacity utilization, see "Industrial Production and Capacity Utiliza-

tion: Historical Revision and Recent Developments," Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67–92, and the references cited therein. For details about the construction of individual industrial production series, see "Industrial Production: 1989 Developments and Historical Revision," Federal Reserve Bulletin, vol. 76 (April 1990), pp. 187–204.

2. Standard industrial classification.

#### Domestic Nonfinancial Statistics ☐ January 2000 A46

#### 2.14 HOUSING AND CONSTRUCTION

Monthly figures at seasonally adjusted annual rates except as noted

			_										
Item	1996	1997	1998	1998					1999				
nem	1990	1997	1570	Dec.	Jan.	Feb.	Mar.	Арг.	May	June	July	Aug. <sup>r</sup>	Sept.
				Private r	esidential re	eal estate ac	ctivity (thou	sands of u	nits except	as noted)			
NEW UNITS													
1 Permits authorized 2 One-family 3 Two-family or more 4 Started 5 One-family 6 Two-family or more 7 Under construction at end of period 8 One-family 9 Two-family or more 10 Completed 11 One-family 12 Two-family or more 13 Mobile homes shipped	1,426 1,070 356 1,477 1,161 316 819 584 235 1,406 1,123 283 361	1,441 1,062 379 1,474 1,134 340 834 570 264 1,406 1,120 285 354	1,604 1,184 421 1,617 1,271 346 935 638 297 1,473 1,158 315 372	1,708 1,296 412 1,750 1,383 367 999 688 311 1,440 1,150 290 382	1,778 1,275 503 1,820 1,393 427 1,011 697 314 1,648 1,292 356 390	1,738 1,306 432 1,752 1,380 372 1,032 712 320 1,528 1,246 282 381	1,654 1,242 412 1,746 1,394 352 1,036 714 322 1,700 1,357 343 383	1,572 1,214 358 1,577 1,260 317 1,031 708 323 1,633 1,324 309 368	1,591 1,243 348 1,668 1,389 279 1,029 708 321 1,650 1,334 <sup>r</sup> 316 <sup>r</sup> 365	1,641 1,241 400 1,607 1,305 302 1,017 702 315 1,674 1,346 328 355	1,641 1,247 394 1,680 1,332 348 1,021 704 317 1,609 1,263 346 336	1,619 1,210 409 1,655 1,289 366 1,028 706 322 1,580 1,255 325 340	1.506 1,171 335 1,626 1,289 337 1,024 703 321 1,671 1,311 360 320
Merchant builder activity in one-family units  14 Number sold	757 326	804 287	886 300	958 295	908 295	909 297	885 300	952 300	914 304	932 306	929 305	923 307	848 310
Price of units sold (thousands of dollars) <sup>2</sup> 16 Median	140.0 166.4	146.0 176.2	152.5 181.9	152.5 183.3	152.5 182.8	159.9 191.4	155.0 189.4	160.0 191.4	154.8 188.2	158.3 193.4	157.9 188.8	155.0 193.5	159.9 193.9
EXISTING UNITS (one-family)													
18 Number sold  Price of units sold (thousands	4,196	4,381	4.970	5,340	5,060	5,140	5,420	5,250	5,000	5,630	5,400	5,240	5,130
of dollars; <sup>2</sup> 19 Median 20 Average	115.8 141.8	121.8 150.5	128.4 159.1	128.5 159.6	130.3 162.8	128.1 159.6	129.6 162.3	130.7 163.8	132.8 167.4	136.9 174.2	136.0 171.9	137.4 174.3	134.4 170.2
					Value	of new cons	struction (m	nillions of d	ollars)3				
CONSTRUCTION													
21 Total put in place	581,920	617,877	664,451	690,462	697,858	710,657	715,396	704,582	698,461	698,852	702,517	698,381	697,450
22 Private         23 Residential         24 Nonresidential         25 Industrial buildings         26 Commercial buildings         27 Other buildings         28 Public utilities and other	447,593 255,577 192,017 32,644 75,829 30,648 52,896	474,842 265,908 208,933 31,355 86,190 37,198 54,190	518,987 293,569 225,418 32,308 95,252 39,438 58,421	541,591 310,261 231,330 30,327 101,605 42,354 57,044	543,471 315,828 227,643 29,895 100,164 38,833 58,751	548,682 318,483 230,199 28,967 102,802 40,449 57,981	555,362 323,133 232,229 29,052 103,983 39,840 59,354	547,885 322,213 225,672 26,217 102,180 39,737 57,538	546,880 321,803 225,077 24,975 104,134 38,876 57,092	546,931 320,913 226,018 25,465 104,457 38,592 57,504	546,375 320,352 226,023 26,246 103,441 38,365 57,971	541,690 318,816 222,874 25,679 102,498 37,735 56,962	539,767 318,838 220,929 23,772 103,920 37,323 55,914
29 Public 30 Military 31 Highway 32 Conservation and development 33 Other	134,326 2,604 39,883 5,827 86,012	143,035 2,559 44,295 5,576 90,605	145,464 2,588 45,067 5,487 92,322	148,871 2,306 44,583 5,406 96,576	154,387 1,881 50,538 6,018 95,950	161,975 2,636 54,880 6,271 98,188	160.033 2,223 53,099 6,194 98,517	156,697 2,268 50,897 6,016 97,516	151,581 2,128 48,542 5,101 95,810	151,921 2,137 45,518 5,845 98,421	156,142 2,305 47,747 5,810 100,280	156,691 1,679 48,148 6,581 100,283	157,682 1,941 49,087 6,277 100,377

SOURCE. Bureau of the Census 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 19,000 jurisdictions beginning in 1994.

Not at annual rates.
 Not seasonally adjusted.
 Recent data on value of new construction may not be strictly comparable with data for previous periods because of changes by the Bureau of the Census in its estimating techniques. For a description of these changes, see *Construction Reports* (C-30-76-5), issued by the Census Bureau in July 1976.

# 2.15 CONSUMER AND PRODUCER PRICES

Percentage changes based on seasonally adjusted data except as noted

	,											
	Change months	from 12 s earlier	Ch	ange from 3 (annua	months ear	rlier		Change	from 1 mon	th earlier		Index
Item	1998	1999	1998		1999 <sup>r</sup>				1999			level, Oct. 1999
	Oct.	Oct.	Dec.r	Mar.	June	Sept.	June	July	Aug.	Sept.	Oct.	
CONSUMER PRICES <sup>2</sup> (1982–84=100)												
1 All items	1.5	2.6	2.0	1.5	2.9	4.2	.0	.3	.3	.4	.2	168.2
2 Food 3 Energy items 4 All items less food and energy 5 Commodities 6 Services	2.4 -9.1 2.3 .8 3.0	1.9 10.2 2.1 1.0 2.5	2.8 -5.1 2.5 2.5 2.5	1.7 5.8 .9 -3.0 2.7	1.7 14.2 2.3 2.0 2.5	2.5 29.4 2.5 2.5 2.3	.0 -1.2 .1 .0	.2 2.1 .2 .1 .3	.2 2.7 .1 1 .2	.2 1.7 .3 .7 .2	.2 1 .2 .1 .3	165.1 111.6 178.3 145.3 197.2
PRODUCER PRICES (1982=100)												
7 Finished goods 8 Consumer foods 9 Consumer energy 10 Other consumer goods 11 Capital equipment	7 .3 -10.3 2.1 3	2.7 .1 12.1 3.0 .3	2.2 .3 -8.9 8.3 .3	.6 2.1 5.7 -1.3 6	2.8 .0 23.2 .8 3	7.1 2.4 42.4 3.8 .6	.0 <sup>r</sup> .3 <sup>r</sup> 4 <sup>r</sup> .1 <sup>r</sup> 2 <sup>r</sup>	.2 8 <sup>r</sup> 3.1 <sup>r</sup> .0 <sup>r</sup> 1	.5 .4 3.7 1 .0	1.1 1.0 2.2 1.1	1 7 -1.0 .3 .3	135.0 135.6 83.6 153.5 138.5
Intermediate materials 12 Excluding foods and feeds 13 Excluding energy	-2.3 -1.1	2.6 1.1	-4.5 -2.7	.3 9	6.1 3.1	6.6 2.7	.3 <sup>r</sup> .3	.6 .4	.7 .2	.3 .1	.3 .4	125.9 134.2
Crude materials 14 Foods 15 Energy 16 Other	-5.8 -29.3 -14.1	-4.0 36.6 7.0	-7.0 13.5 -24.3	4.1 -21.1 .9	8 163.8 8.6	1.2 121.9 26.6	.3° .0° .8°	-4.6 <sup>r</sup> 3.1 <sup>r</sup> 2.0 <sup>r</sup>	3.8 7.2 1.8	1.3 10.4 2.2	1 -4.8 2.4	99.6 89.6 142.5

Not seasonally adjusted.
 Figures for consumer prices are for all urban consumers and reflect a rental-equivalence measure of homeownership.

SOURCE. U.S. Department of Labor, Bureau of Labor Statistics.

### 2.16 GROSS DOMESTIC PRODUCT AND INCOME

Billions of current dollars except as noted; quarterly data at seasonally adjusted annual rates

				19	98		1999	
Account	1996	1997	1998	Q3	Q4	Q1	Q2	Q3
GROSS DOMESTIC PRODUCT								
1 Total	7,813.2	8,300.8	8,759.9	8,797.9	8,947.6	9,072.7	9,146.2	9,295.3
By source 2 Personal consumption expenditures 3 Durable goods 4 Nondurable goods 5 Services	5,237.5	5,524.4	5,848.6	5,889.6	5,973.7	6,090.8	6,200.8	6,299.6
	616.5	642.9	698.2	696.9	722.8	739.0	751.6	761.8
	1,574.1	1,641.7	1,708.9	1,716.6	1,742.9	1,787.8	1,824.8	1,853.5
	3,047.0	3,239.8	3,441.5	3,476.1	3,508.0	3,564.0	3,624.3	3,684.3
6 Gross private domestic investment 7 Fixed investment 8 Nonresidential 9 Structures 10 Producers' durable equipment 11 Residential structures	1,242.7	1,383.7	1,531.2	1,535.3	1,580.3	1,594.3	1,585.4	1,636.0
	1,212.7	1,315.4	1,460.0	1,461.7	1,508.9	1,543.3	1,567.8	1,599.1
	899.4	986.1	1,091.3	1,087.2	1,121.4	1,139.9	1,155.4	1,187.9
	225.0	254.1	272.8	271.7	278.0	274.7	272.5	273.7
	674.4	732.1	818.5	815.4	843.4	865.2	882.9	914.3
	313.3	329.2	368.7	374.5	387.5	403.4	412.4	411.2
12 Change in business inventories 13 Nonfarm	30.0	68.3	71.2	73.7	71.4	51.0	17.6	36.9
	22.2	65.6	70.9	74.7	56.2	40.9	12.8	36.1
14 Net exports of goods and services 15 Exports	-89.0	-88.3	-149.6	~165.7	-161.2	-201.6	-245.8	-276.7
	874.2	968.0	966.3	949.1	981.8	966.9	978.2	1,008.7
	963.1	1,056.3	1,115.9	1,114.8	1,143.1	1,168.5	1,224.0	1,285.4
17 Government consumption expenditures and gross investment 18 Federal	1,421.9	1,481.0	1,529.7	1,538.7	1,554.8	1,589.1	1,605.9	1,636.4
	531.6	537.8	538.7	539.7	546.7	557.4	561.6	569.5
	890.4	943.2	991.0	999.0	1,008.1	1,031.8	1,044.3	1,067.0
By major type of product 20 Final sales, total 21 Goods 22 Durable 23 Nondurable 24 Services 25 Structures	7,783.2	8,232.4	8,688.7	8,724.2	8,876.2	9,021.6	9,128.6	9,258.4
	2,921.3	3,074.1	3,239.1	3,231.9	3,318.4	3,365.6	3,406.6	3,455.6
	1,331.9	1,424.8	1,528.9	1,519.9	1,571.4	1,584.3	1,601.7	1,634.3
	1,589.4	1,649.3	1,710.3	1,712.1	1,747.0	1,781.3	1,804.9	1,821.3
	4,191.0	4,434.7	4,664.6	4,700.4	4,747.9	4,820.7	4,885.5	4,962.8
	670.9	723.7	785.1	791.9	809.9	835.3	836.5	839.9
26 Change in business inventories 27 Durable goods 28 Nondurable goods	30.0	68.3	71.2	73.7	71.4	51.0	17.6	36.9
	19.1	35.6	39.0	39.8	38.6	24.1	6.3	21.4
	10.9	32.8	32.3	33.9	32.8	27.0	11.4	15.4
MEMO 29 Total GDP in chained 1992 dollars	7,813.2	8,165.1	8,516.3	8,536.0	8,659.2	8,737.9	8,778.6	8,897.7
NATIONAL INCOME								l
30 Total	6,210.2	6,634.9	7,036.4	7,087.1	7,193.8	7,334.5	7,423.1	7,522.4
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	4,395.6	4,675.7	5,011.2	5,053.6	5,134.7	5,217.7	5,287.1	5,373.1
	3,630.1	3,884.7	4,189.5	4,227.9	4,300.8	4,371.5	4,432.6	4,508.9
	641.0	664.4	692.8	696.7	702.8	715.8	721.3	730.6
	2,989.1	3,220.3	3,496.7	3,531.2	3,598.0	3,655.7	3,711.3	3,778.3
	765.4	791.0	821.7	825.7	833.9	846.2	854.5	864.2
	275.4	290.1	306.0	308.1	311.8	318.3	321.5	325.6
	490.0	500.9	515.7	517.7	522.1	528.0	533.0	538.6
38 Propnetors' income <sup>1</sup> 39 Business and professional <sup>1</sup> 40 Farm <sup>1</sup>	544.7	578.6	606.1	606.4	637.1	639.9	655.3	653.6
	510.5	549.1	581.0	583.6	596.0	607.5	621.2	632.2
	34.3	29.5	25.1	22.9	41.1	32.5	34.1	21.4
41 Rental income of persons <sup>2</sup>	129.7	130.2	137.4	139.3	147.0	148.6	148.8	140.9
42 Corporate profits <sup>1</sup> 43 Profits before tax <sup>3</sup> 44 Inventory valuation adjustment 45 Capital consumption adjustment	753.9	837.9	846.1	843.8	834.3	882.0	875.5	883.7
	726.3	795.9	781.9	780.1	766.7	818.1	835.8	857.8
	3.1	7.4	20.9	19.8	20.8	13.3	-13.6	-26.5
	24.4	34.6	43.3	43.9	46.9	50.6	53.2	52.4
46 Net interest	386.3	412.5	435.7	444.0	440.8	446.3	456.4	471.1

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. U.S. Department of Commerce, Survey of Current Business.

## 2.17 PERSONAL INCOME AND SAVING

Billions of current dollars except as noted; quarterly data at seasonally adjusted annual rates

				19	98		1999	
Account	1996	1997	1998	Q3	Q4	Qı	Q2	Q3
PERSONAL INCOME AND SAVING								
1 Total personal income	6,547.4	6,951.1	7,358.9	7,413.6	7,530.8	7,630.2	7,732.6	7,827.5
2 Wage and salary disbursements 3 Commodity-producing industries 4 Manufacturing 5 Distributive industries 6 Service industries 7 Government and government enterprises	3,626.5 908.2 673.7 822.4 1,254.9 641.0	3,888.9 975.5 718.8 879.1 1,369.8 664.4	4,186.0 1,038.7 757.5 944.6 1,509.9 692.8	4,224.4 1,045.6 762.3 953.5 1,528.6 696.7	4,297.3 1,056.6 765.6 969.9 1,568.0 702.8	4,371.5 1,062.9 767.0 986.3 1,606.6 715.8	4,432.6 1,075.1 774.8 997.6 1,638.5 721.3	4,508.9 1,091.0 787.2 1,012.6 1,674.7 730.6
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	490.0 544.7 510.5 34.3 129.7 297.4 810.6 928.8 537.6	500.9 578.6 549.1 29.5 130.2 333.4 854.9 962.4 565.8	515.7 606.1 581.0 25.1 137.4 348.3 897.8 983.6 578.1	517.7 606.4 583.6 22.9 139.3 348.0 909.3 986.5 579.6	522.1 637.1 596.0 41.1 147.0 351.9 906.4 991.0 581.1	528.0 639.9 607.5 32.5 148.6 356.1 907.4 1,007.8 588.9	533.0 655.3 621.2 34.1 148.8 361.2 920.5 1,013.6 593.0	538.6 653.6 632.2 21.4 140.9 367.0 933.4 1,021.8 599.0
17 LESS: Personal contributions for social insurance	280.4	298.1	315.9	318.0	322.0	328.9	332.3	336.7
18 EQUALS: Personal income	6,547.4	6,951.1	7,358.9	7,413.6	7,530.8	7,630.2	7,732.6	7,827.5
19 LESS: Personal tax and nontax payments	869.7	968.3	1,072.6	1,088.3	1,113.0	1,124.8	1,139.4	1,160.2
20 EQUALS: Disposable personal income	5,677.7	5,982.8	6,286.2	6,325.3	6,417.8	6,505.4	6,593.2	6,667.3
21 LESS: Personal outlays	5,405.6	5,711.7	6,056.6	6,100.5	6,190.3	6,310.3	6,425.2	6,527.9
22 EQUALS: Personal saving	272.1	271.1	229.7	224.8	227.5	195.1	168.0	139.4
MEMO Per capita (chained 1992 dollars) 23 Gross domestic product 24 Personal consumption expenditures 25 Disposable personal income	29,428.2 19,726.9 21,385.0	30,466.8 20,275.0 21,954.0	31,471.9 21,059.1 22,636.0	31,509.8 21,154.3 22,715.0	31,882.2 21,339.5 22,924.0	32,112.8 21,640.6 23,110.0	32,179.6 21,854.1 23,239.0	32,532.7 22,043.1 23,328.0
26 Saving rate (percent)	4.8	4.5	3.7	3.6	3.5	3.0	2.5	2.1
GROSS SAVING								
27 Gross saving	1,349.3	1,521.3	1,646.0	1,664.1	1,685.4	1,727.8	1,709.5	1,739.3
28 Gross private saving	1,290.4	1,362.0	1,371.2	1,367.7	1,382.3	1,389.4	1,359.3	1,359.1
29 Personal saving	272.1 232.5 3.1	271.1 265.9 7.4	229.7 257.2 20.9	224.8 251.1 19.8	227.5 246.5 20.8	195.1 277.6 13.3	168.0 259.5 -13.6	139.4 257.2 -26.5
Capital consumption allowances 32 Corporate 33 Noncorporate	543.6 238.5	579,4 249.8	619.2 261.5	625.0 263.3	637.1 267.7	645.8 271.0	657.2 274.6	675.4 287.0
34 Gross government saving 35 Federal 36 Consumption of fixed capital 37 Current surplus or deficit (-), national accounts. 38 State and local 39 Consumption of fixed capital 40 Current surplus or deficit (-), national accounts.	58.9 -51.5 85.3 -136.8 110.4 88.9 21.4	159.3 37.7 86.6 -48.8 121.5 94.0 27.5	274.8 134.3 87.4 46.9 140.5 98.8 41.7	296.4 147.1 87.5 59.6 149.3 99.4 49.9	303.0 147.8 88.1 59.7 155.2 101.1 54.2	338.3 187.2 89.6 97.6 151.1 102.4 48.7	350.2 208.3 90.2 118.1 141.9 104.3 37.6	380.1 225.9 91.2 134.7 154.2 106.0 48.3
41 Gross investment	1,382.1	1,518.1	1,598.4	1,576.2	1,623.0	1,628.4	1,574.0	1,594.4
42 Gross private domestic investment 43 Gross government investment 44 Net foreign investment	1,242.7 250.2 -110.7	1,383.7 258.1 -123.7	1,531.2 268.7 -201.5	1,535.3 273.5 -232.6	1,580.3 272.6 229.9	1,594.3 289.8 -255.7	1,585.4 292.2 -303.7	1,636.0 294.8 -336.4
45 Statistical discrepancy	32.8	-3.2	-47.6	~87.9	-62.4	~99.4	-135.5	-144.8

With inventory valuation and capital consumption adjustments.
 With capital consumption adjustment

SOURCE. U.S. Department of Commerce, Survey of Current Business.

#### 3.10 U.S. INTERNATIONAL TRANSACTIONS Summary

Millions of dollars; quarterly data seasonally adjusted except as noted1

	1004	400=	1000		1998		19	99
Item credits or debits	1996	1997	1998	Q2	Q3	Q4	QI	Q2 <sup>p</sup>
1 Balance on current account 2 Balance on goods and services 3 Exports 4 Imports 5 Income, net 6 Investment, net 7 Direct 8 Portfolio 9 Compensation of employees 10 Unilateral current transfers, net	-129,295 -104,318 849,806 -954,124 17,210 21,754 67,746 -45,992 -4,544 -42,187	-143,465 -104,730 938,543 -1,043,273 3,231 8,185 69,220 -61,035 -4,954 -41,966	-220,562 -164,282 -933,907 -1,098,189 -12,205 -6,956 59,405 -66,361 -5,249 -44,075	-52,400 -41,961 231,889 -273,850 -553 735 16,177 -15,442 -1,288 -9,886	-63,476 -45,724 229,284 -275,008 -6,965 -5,637 11,834 -17,471 -1,328 -10,787	-61.669 -43,262 236,904 -280,166 -4,933 -3,571 14,558 -18,129 -1,362 -13,474	-68,654 -53,974 231,904 -285,878 -4,340 -2,946 14,834 -17,780 -1,394 -10,340	-80.673 -65,016 234,526 -299,542 -4,382 -3,011 14,103 -17,114 -1,371 -11,275
11 Change in U.S. government assets other than official reserve assets, net (increase, -)	-989	68	-429	-483	185	-50	119	-380
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	6,668 0 370 -1,280 7,578	-1,010 0 -350 -3,575 2,915	-6,784 0 -149 -5,118 -1,517	-1,945 0 72 -1,031 -986	-2,026 0 188 -2,078 -136	-2,369 0 -227 -1,924 -218	4,068 0 563 3 3,502	1,159 0 -190 1,413 -64
17 Change in U.S. private assets abroad (increase, -) 18 Bank-reported claims 19 Nonbank-reported claims 20 U.S. purchases of foreign securities, net 21 U.S. direct investments abroad, net	-386,441 -91,555 -86,333 -115,859 -92,694	-464,354 -144,822 -120,403 -89,174 -109,955	-285,605 -24,918 -25,041 -102,817 -132,829	-118,089 -27,704 -14,327 -32,886 -43,172	-60,256 -33,344 -20,320 14,994 -21,586	-48,188 37,192 16,202 -70,809 -30,773	-19,335 27,771 -13,853 8,132 -41,385	-124,940 -37,082 -26,429 -26,387 -35,042
Change in foreign official assets in United States (increase, +)     U.S. Treasury securities     Other U.S. government obligations     Other U.S. government liabilities     Other U.S. liabilities reported by U.S. banks     Other foreign official assets	127,390 115,671 5,008 -316 5,704 1,323	18,119 -6,690 4,529 -1,798 22,286 -208	-21.684 -9.957 6,332 -3,113 -11,469 -3,477	-10,551 -20,318 254 -807 9,488 832	-46,489 -32,811 1,906 -224 -12,866 -2,494	24,352 31,836 1,562 -1,054 -7,133 -859	4,708 800 5,993 -1,594 -589 98	-986 -6,708 5,792 -770 1,202 -502
28 Change in foreign private assets in United States (increase, +) 29 U.S. bank-reported liabilities' 30 U.S. nonbank-reported liabilities 31 Foreign private purchases of U.S. Treasury securities, net 32 U.S. currency flows. 33 Foreign purchases of other U.S. securities, net 34 Foreign direct investments in United States, net	447,457 16,478 39,404 154,996 17,362 130,240 88,977	733,542 149,026 107,779 146,433 24,782 196,258 109,264	524,321 40,731 9,412 46,155 16,622 218,026 193,375	173,017 34,138 18,040 25,759 2,349 71,785 20,946	140,036 77,313 11,875 -1,438 7,277 20,103 24,906	125,453 -21,811 -53,210 24,391 6,250 49,328 120,505	84,152 -14,184 20,188 -8,781 2,440 61,540 22,949	242,033 49,374 -710 -5,517 3,057 77,272 118,557
35 Capital account transactions, net <sup>5</sup> 36 Discrepancy 37 Due to seasonal adjustment 38 Before seasonal adjustment	672 -65,462 -65,462	292 -143,192 -143,192	617 10,126  10,126	160 10,291 528 9,763	148 31,878 -10,582 42,460	166 -37,695 4,144 -41,839	166 -5,224 5,264 -10,488	180 -36,393 582 -36,975
MEMO Changes in official assets 39 U.S. official reserve assets (increase, -) 40 Foreign official assets in United States, excluding line 25 (increase, +)	6,668 127,706	- 1,010 19,917	-6.784 -18,571	1,945 9,744	-2,026 -46,265	-2,369 25,406	4,068 6,302	1,159 -216
41 Change in Organization of Petroleum Exporting Countries official assets in United States (part of line 22)	14,911	12,124 <sup>r</sup>	-11,499	-657 <sup>r</sup>	-11.642 <sup>r</sup>	2,057 <sup>r</sup>	2,058	1,774

corporations and state and local governments.

5. Consists of capital transfers (such as those of accompanying migrants entering or leaving the country and debt forgiveness) and the acquisition and disposal of nonproduced nonfinancial assets.

SOURCE. U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current

Business.

Seasonal factors are not calculated for lines 11-16, 18-20, 22-35, and 38-41.
 Reporting banks included all types of depository institutions as well as some brokers and dealers.
 Associated primarily 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

#### 3.11 U.S. FOREIGN TRADE<sup>1</sup>

Millions of dollars: monthly data seasonally adjusted

	1004		4000				1999			
Item	1996	1997	1998	Mar.	Apr.	May	June	July	Aug.r	Sept. <sup>p</sup>
1 Goods and services, balance 2 Merchandisc 3 Services	-104,318	-104,731	-164,282	-19,311	-18,787	-21,390	-24,604	-24,886	-23,549	-24,408
	-191,270	-196,652	-246,932	-25,680	-25,334	-27,899	-31,179	-31,422	-30,132	-30,591
	86,952	91,921	82,650	6,369	6,547	6,509	6,575	6,536	6,583	6,183
4 Goods and services, exports 5 Merchandise 6 Services	849,806	938,543	933,907	77,047	78,113	77,978	78,623	79,122	82,443	81,705
	612,057	679,715	670,246	54,326	55,269	55,121	55,472	55,890	59,139	58,549
	237,749	258,828	263,661	22,721	22,844	22,857	23,151	23,232	23,304	23,156
7 Goods and services, imports 8 Merchandise 9 Services	-954,124	-1,043,273	-1,098,189	-96,358	-96,900	-99,368	-103,227	-104,008	-105,992	-106,113
	-803,327	-876,366	-917,178	-80,006	-80,603	-83,020	-86,651	-87,312	-89,271	-89,140
	-150,797	-166,907	-181,011	-16,352	-16,297	-16,348	-16,576	-16,696	-16,721	-16,973

<sup>1.</sup> Data show monthly values consistent with quarterly figures in the U.S. balance of payments accounts,

SOURCE. FT900, U.S. Department of Commerce, Bureau of the Census and Bureau of Economic Analysis

#### 3.12 U.S. RESERVE ASSETS

Millions of dollars, end of period

	1004	1007	1000				19	99			
Asset	1996	1997	1998	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>p</sup>
Total	75,090	69,954	81,755	73,694	72,121	71,689	73,305	72,649 <sup>r</sup>	73,414	73,230	72,318
2 Gold stock, including Exchange Stabilization Fund 3 Special drawing rights 4 Reserve position in International Monetary Fund 5 Foreign currencies 4	11,049 10,312 15,435 38,294	11,050 10,027 18,071 30,809	11,041 10,603 24,111 36,001	11,049 9,634 23,054 29,957	11,049 9,784 21,689 29,599	11,046 9,719 21,462 29,462	11,048 9,925 21,462 30,870	11,046 <sup>f</sup> 10,152 19,885 31,566	11,047 10,284 19,978 32,105	11,049 10,232 19,571 32,378	11,049 10,326 18,707 32,236

SDR holdings and reserve positions in the IMF also have been valued on this basis since July

#### 3.13 FOREIGN OFFICIAL ASSETS HELD AT FEDERAL RESERVE BANKS<sup>1</sup>

	1004	1005	1000				19	99			
Asset	1996	1997	1998	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.p
1 Deposits	167	457	167	260	157	409	257	166	243	189	500
Held in custody 2 U.S. Treasury securities <sup>2</sup> 3 Earmarked gold <sup>3</sup>	638,049 11,197	620,885 10,763	607,574 10,343	606,662 10,340	606,579 10,340	611,372 10,329	619,004 10,329	626,669 10,271	634,086 10,155	621,351 10,114	629,430 10,015

<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

<sup>1.</sup> Gold held "under earmark" at Federal Reserve Banks for foreign and international accounts is not included in the gold stock of the United States; see table 3.13, line 3. Gold stock is valued at \$42.22 per fine troy ounce.

2. Special drawing rights (SDRs) are valued according to a technique adopted by the International Monetary Fund (IMF) in July 1974. Values are based on a weighted average of exchange rates for the currencies of member countries. From July 1974 through December 1980, sixteen currencies were used: since January 1981, five currencies have been used. U.S.

<sup>3.</sup> Includes allocations of SDRs by the International Monetary Fund on Jan. 1 of the year indicated, as follows: 1970—\$867 million; 1971—\$717 million; 1972—\$710 million: 1979—\$1,139 million; 1980—\$1,152 million; 1981—\$1,093 million: plus net transactions in SDRs.

<sup>4.</sup> Valued at current market exchange rates.

securities, in each case measured at face (not market) value.

Held in foreign and international accounts and valued at \$42.22 per fine troy ounce; not included in the gold stock of the United States.

#### 3.15 SELECTED U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS

Millions of dollars, end of period

	100-					1999			
Îtem	1997	1998	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>p</sup>
i Total <sup>1</sup>	776,505	759,933 <sup>r</sup>	765,689	766,509 <sup>r</sup>	760,410	765,708	773,494	782,508°	778,976
By type 2 Liabilities reported by banks in the United States <sup>2</sup> 3 U.S. Treasury bills and certificates <sup>3</sup> U.S. Treasury bonds and notes 4 Marketable 5 Nonmarketable <sup>4</sup> 6 U.S. securities other than U.S. Treasury securities <sup>5</sup>	135,384 148,301 428,004 5,994 58,822	125,878 <sup>r</sup> 134,177 432,127 6,074 61,677	124,743 141,941 425,046 6,191 67,768	135,731 <sup>r</sup> 135,765 418,350 6,231 70,432	124,270 136,199 421,573 6,143 72,225	126,180 138,518 421,970 5,982 73,058	125,873 147,492 420,197 6,022 73,910	126,220 <sup>r</sup> 153,499 422,590 6,060 74,139	124,348 152,457 420,794 6,098 75,279
By area 7 Europe 8 Canada 9 Latin America and Caribbean 10 Asia 11 Africa 12 Other countries	252,289 36,177 96,942 400,144 9,981 7,058	256,026 36,715 79,498 <sup>r</sup> 400,641 <sup>r</sup> 10,059 3,080	253,970 39,611 72,828 412,353 9,906 3,107	245,500 38,563 81,379 413,991 <sup>r</sup> 9,656 3,506	242,386 38,181 81,075 411,739 9,326 3,789	241,989 39,001 76,828 421,282 8,378 4,316	240,546 39,147 77,832 430,050 8,376 3,629	243,334 39,342 75,339 <sup>r</sup> 438,300 8,122 4,157	241,233 39,337 74,475 437,957 8,314 3,746

Venezuela, beginning December 1990, 30-year maturity issue; Argentina, beginning April

# 3.16 LIABILITIES TO, AND CLAIMS ON, FOREIGNERS Reported by Banks in the United States<sup>1</sup>

Payable in Foreign Currencies

	1005	1007	1007	19	998	19	99
Item	1995	1996	1997	Sept.	Dec.	Mar.	June
Banks' liabilities   2 Banks' claims   3 Deposits   4 Other claims   5 Claims of banks' domestic customers <sup>2</sup>	109,713 74,016 22,696 51,320 6,145	103,383 66,018 22,467 43,551 10,978	117,524 83,038 28,661 54,377 8,191	92,934 67,901 27,293 40,608 8,453	101,125 78,152 45,985 32,167 20,718	101,359 80,642 42,147 38,495 11,039	97,751 67,864 41,895 25,969 23,474

<sup>1.</sup> Data on claims exclude foreign currencies held by U.S. monetary authorities.

Principally demand deposits, time deposits, bankers acceptances, commercial paper, negotiable time certificates of deposit, and borrowings under repurchase agreements.
 Includes nonmarketable certificates of indebtedness and Treasury bills issued to official

Includes nonmarketable certificates of indebtedness and freasury of the based to out-fail institutions of foreign countries.
 Excludes notes issued to foreign official nonreserve agencies. Includes current value of zero-coupon Treasury bond issues to foreign governments as follows: Mexico, beginning March 1988, 20-year maturity issue and beginning March 1990, 30-year maturity issue;

<sup>1993, 30-</sup>year maturity issue.5. Debt securities of U.S. government corporations and federally sponsored agencies, and

S. Debt secturities of U.S. government corporations and reteriary sponsored agencies, and U.S. corporate stocks and bonds.

SOURCE, Based on U.S. Department of the Treasury data and on data reported to the department by banks (including Federal Reserve Banks) and securities dealers in the United States, and on the 1994 benchmark survey of foreign portfolio investment in the United

<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.

#### 3.17 LIABILITIES TO FOREIGNERS Reported by Banks in the United States 1 Payable in U.S. dollars

_	_					-		1999			
	<u>Item</u>	1996	1997	1998	Mar.	Apr.	May	June	July	Aug.r	Sept. <sup>p</sup>
	BY HOLDER AND TYPE OF LIABILITY										
ı	Total, all foreigners	1,162,148	1,283,027	1,347,771 <sup>c</sup>	1,337,872°	1,334,719 <sup>r</sup>	1,352,678 <sup>r</sup>	1,382,649 <sup>r</sup>	1,339,888 <sup>r</sup>	1,385,668	1,387,565
2 3 4 5 6	Banks' own liabilities Demand deposits Time deposits² Other² Own foreign offices⁴	758,998 27,034 186,910 143,510 401,544	882,980 31,344 198,546 168,011 485.079	884,873 <sup>r</sup> 29,556 152,226 <sup>r</sup> 140,245 562,846	872,957 <sup>r</sup> 30,913 152,158 <sup>r</sup> 157,083 532,803 <sup>r</sup>	880,209 <sup>r</sup> 31,180 157,680 <sup>r</sup> 160,670 <sup>r</sup> 530,679 <sup>r</sup>	900,891 <sup>r</sup> 32,184 156,515 <sup>r</sup> 160,800 <sup>r</sup> 551,392	920,125 <sup>r</sup> 36,322 156,677 152,683 <sup>r</sup> 574,443	889,661 <sup>r</sup> 43,183 156,891 151,819 <sup>r</sup> 537,768 <sup>r</sup>	908,116 44,940 155,199 152,163 555,814	927,332 44,596 156,435 161,587 564,714
7 8 9	Banks' custodial liabilities'. U.S. Treasury bills and certificates' Other negotiable, and readily transferable	403,150 236,874	400,047 193,239	462,898 <sup>r</sup> 183,494	464,915 <sup>r</sup> 192,838 <sup>r</sup>	454,510 <sup>r</sup> 178,514 <sup>r</sup>	451,787 177,768	462,524 179,351	450,227 187,872	477,552 192,096	460,233 189,030
10	instruments'Other	72,011 94,265	93,641 113,167	141,699 <sup>r</sup> 137,705	133,311 138,766	129,051 146,945	124,100 149,919	123,246 159,927	121,567 140,788	132,405 153,051	128,914 142,289
11 12 13 14 15	Nonmonetary international and regional organizations Banks' own liabilities	13,972 13,355 29 5,784 7,542	11,690 11,486 16 5,466 6,004	11.883 <sup>r</sup> 10,850 172 5,793 4,885	15,337 14,621 194 6,856 7,571	15,921 <sup>r</sup> 15,184 <sup>r</sup> 13 6,324 8,847 <sup>r</sup>	14,067 <sup>r</sup> 13,320 <sup>r</sup> 25 5,840 7,455 <sup>t</sup>	17,987 16,002 49 7,231 8,722	18,463 16,964 66 7,380 9,518	18,468 17,056 31 6,419 10,606	18,646 17,726 21 7,370 10,335
16 17 18	Banks' custodial liabilities <sup>5</sup> U.S Treasury bills and certificates <sup>6</sup> Other negotiable and readily transferable	617 352	204 69	1,033 <sup>r</sup> 636	716 548	737 555	747 616	1,985 956	1,499 953	1,412 896	920 661
19	instruments <sup>7</sup> Other	265 0	133 2	397 <sup>r</sup> 0	168 0	182	131 0	1,029 0	533 13	516 0	259 0
20 21 22 23 24	Official institutions <sup>9</sup> Banks' own liabilities  Demand deposits  Time deposits <sup>2</sup> Other	312,019 79,406 1,511 33,336 44,559	283,685 102,028 2,314 41,396 58,318	260,055 <sup>r</sup> 80,251 3,003 29,602 47,646	266,684 76,996 3,393 23,840 49,763	271,496 <sup>r</sup> 86,001 <sup>r</sup> 3,599 29,049 <sup>r</sup> 53,353	260,469 79,452 2,789 27,372 49,291	264,698 78,445 2,952 26,643 48,850	273,365 80,400 2,652 26,845 50,903	279,719 77,801 2,537 24,856 50,408	276,805 76,980 2,932 25,301 48,747
25 26 27	Banks' custodial liabilities <sup>5</sup>	232,613 198,921	181,657 148,301	179,804 <sup>r</sup> 134,177	189,688 141,941	185,495 135,765	181,017 136,199	186,253 138,518	192,965 147,492	201,918 153,499	199,825 152,457
28	instruments <sup>7</sup> Other	33,266 426	33,151 205	44,953 <sup>r</sup> 674	47,174 573	49,443 287	44,586 232	47,582 153	45,094 379	48,297 122	46,633 735
29 30 31 32 33 34 35	Banks <sup>10</sup> Banks' own liabilities Unaffliated foreign banks Demand deposits Time deposits Other' Own foreign offices <sup>4</sup>	694,835 562,898 161,354 13,692 89,765 57,897 401,544	815,247 641,447 156,368 16,767 83,433 56,168 485,079	885,047 675,998 113,152 14,071 46,219 52,862 562,846	851,791 <sup>r</sup> 648,795 <sup>r</sup> 115,992 13,985 49,101 52,906 532,803 <sup>r</sup>	848,313 <sup>r</sup> 646,602 <sup>r</sup> 115,923 <sup>r</sup> 13,344 50,206 52,373 <sup>t</sup> 530,679 <sup>r</sup>	881,368 676,341 124,949 15,957 49,217 <sup>r</sup> 59,775 <sup>r</sup> 551,392	910.025′ 695,251¹ 120,808⁵ 15,812 47,998 56,998° 574,443	853,184 656,403 118,635 <sup>r</sup> 14,086 49,540 55,009 <sup>r</sup> 537,768 <sup>r</sup>	888,328 676,931 121,117 15,436 49,872 55,809 555,814	881,993 692,334 127,620 14,087 49,667 63,866 564,714
36 37 38	Banks' custodial liabilities <sup>5</sup>	131,937 23,106	173,800 31,915	209,049 35,359	202,996 36,737	201,711 29,636	205,027 28,323	214,774 27,757	196,781 28,284	211,397 26,314	189,659 24,749
39	instruments <sup>7</sup> Other	17,027 91,804	35,393 106,492	45,102 128,588	37,304 128,955	34,959 137,116	35,580 141,124	36,983 150,034	37,459 131,038	41,541 143,542	40,370 124,540
40 41 42 43 44	Other foreigners Banks' own liabilities Demand deposits Time deposits' Other <sup>3</sup>	141,322 103,339 11,802 58,025 33,512	172,405 128,019 12,247 68,251 47,521	190.786 <sup>r</sup> 117,774 <sup>r</sup> 12,310 70,612 <sup>r</sup> 34,852	204,060 <sup>r</sup> 132,545 <sup>r</sup> 13,341 72,361 <sup>r</sup> 46,843	198,989 <sup>r</sup> 132,422 <sup>r</sup> 14,224 72,101 <sup>r</sup> 46,097 <sup>r</sup>	196,774 131,778 13,413 74,086 44,279	189,939 <sup>r</sup> 130,427 <sup>r</sup> 17,509 74,805 38,113 <sup>r</sup>	194,876 <sup>r</sup> 135,894 <sup>r</sup> 26,379 73,126 36,389 <sup>r</sup>	199.153 136,328 26,936 74,052 35,340	210,121 140,292 27,556 74,097 38,639
45 46 47	Banks' custodial liabilities <sup>5</sup>	37,983 14,495	44,386 12,954	73,012 13,322	71,515 <sup>r</sup> 13,612 <sup>r</sup>	66,567 <sup>r</sup> 12,558 <sup>r</sup>	64,996 12.630	59,512 12,120	58,982 11,143	62,825 11,387	69,829 11,163
48	instruments <sup>7</sup>	21.453 2.035	24,964 6,468	51,247 8,443	48,665 9,238	44,467 9,542	43,803 8,563	37,652 9,740	38,481 9,358	42,051 9,387	41,652 17,014
49	MEMO Negotiable time certificates of deposit in custody for foreigners	14,573	16,083	27,026	23,035	21,718	24,141	22,569	21.811	22,565	24,367

<sup>1.</sup> Reporting banks include all types of depository institutions as well as some brokers and dealers. Excludes bonds and notes of maturities longer than one year.

2. Excludes negotiable time certificates of deposit, which are included in "Other negotiable and readily transferable instruments."

3. Includes borrowing under repurchase agreements.

4. For U.S. banks, includes amounts owed to own foreign branches and foreign subsidiaries consolidated in quarterly Consolidated Reports of Condition filed with bank regulatory agencies. For agencies, branches, and majority-owned subsidiaries of foreign banks, consists principally of amounts owed to the head office or parent foreign bank, and to foreign branches, agencies, or wholly owned subsidiaries of the head office or parent foreign bank.

5. Financial claims on residents of the United States, other than long-term securities, held by or through reporting banks for foreign customers.

by or through reporting banks for foreign customers.

<sup>6.</sup> Includes nonmarketable certificates of indebtedness and Treasury bills issued to official institutions of foreign countries.

7. Principally bankers acceptances, commercial paper, and negotiable time certificates of

deposit.

8. Principally the International Bank for Reconstruction and Development, the InterAmerican Development Bank, and the Asian Development Bank. Excludes "holdings of
dollars" of the International Monetary Fund.

9. Foreign central banks, foreign central governments, and the Bank for International

<sup>10.</sup> Excludes central banks, which are included in "Official institutions."

### 3.17 LIABILITIES TO FOREIGNERS Reported by Banks in the United States<sup>1</sup>—Continued

	1004	1007 1008					1999			
Jtem	1996	1997	1998	Mar.	Арг.	May	June	July	Aug.	Sept. <sup>p</sup>
AREA										
50 Total, all foreigners	1,162,148	1,283,027	1,347,771 <sup>r</sup>	1,337,872 <sup>r</sup>	1,334,719 <sup>r</sup>	1,352,678 <sup>r</sup>	1,382,649 <sup>r</sup>	1,339,888 <sup>r</sup>	1,385,668 <sup>r</sup>	1,387,565
51 Foreign countries	. 1,148,176	1,271,337	1,335,888°	1,322,535 <sup>r</sup>	1,318,798 <sup>r</sup>	1,338,611	1,364,662 <sup>r</sup>	1,321,425 <sup>r</sup>	1,367,200 <sup>r</sup>	1,368,919
52 Europe	. 376,590	419,672	427,367	418,437 <sup>r</sup>	409,543 <sup>r</sup>	434,124	430,580	438,232	450,827 <sup>r</sup>	454,733
53 Austria	5,128	2,717 41,007	3,178 42,818	3,274 41,468	2,428 37,991	2,224 39,227	2,678 31,298	2,770 31,242	3,210 34,834	3,459 33,434
55 Denmark	. 2,565	1,514	1,437	1,992	1,300	1,267	961	1,143	1,811	1,903
56 Finland 57 France		2,246	1,862	1.800 47,937	1,655 49,097	1,645	1.384	1,358 42,622	1,335 42,424	1,222 45,808
57 France		46,607 23,737	44,616 21,357	23,747	18,575	48,328 24,689	45,235 21,999	23,950	23,719	24,477
59 Greece	. 1,835	1.552	2,066	2,447	2,237	2,691	2,737	3,168	3,121	3,358
60 Italy		11,378 7,385	7,103 10,793	5,744 12,273	5,910	5,943 11,752	6,192 12,152	6,426 12,206	5,840 11,292	6.231
61 Netherlands		317	710	1,022	11,037 1,181	1,210	1,049	1,184	1,333	1,225
63 Portugal	3,562	2,262	3,235	2,237	2,277	2,461	2,439	2,237	1,912	1,976
64 Russia		7,968 18,989	2,439 15,775	2,500 9,336	2,693 11,075	2,794 8,083	2,871 8,678	2,756 7,700	2,665 8,194	2.816 9,479
66 Sweden		1,628	3,027	2,193	1,974	3,429	2,966	3,851	3,779	4,571
67 Switzerland	. 44,538	39,023	50,654	47,874	54,551 <sup>r</sup>	66,214	65,967	60,758	76,176 <sup>r</sup>	70,353
68 Turkey	6,738 153,420	4,054 181,904	4,286 181,554	5,639 175,303 <sup>r</sup>	5,783 <sup>r</sup> 169,826 <sup>r</sup>	5,810 178,015	5,914 187,310	7,786 200,038	7,883 192,431	8,368 196,459
69 United Kingdom 70 Yugoslavia <sup>11</sup> 71 Other Europe and other former U.S.S.R. <sup>12</sup>	206	239	233	274	221	242	254	289	270	266
71 Other Europe and other former U.S.S.R. 12	. 22,521	25,145	30,224	31,377	29,732	28,100	28.496	26,748	28,598	27,690
72 Canada	. 38,920	28,341	30,212	31,788	28,360	28.543	30,416 <sup>r</sup>	29,862 <sup>r</sup>	30,409 <sup>r</sup>	29,698
73 Latin America and Caribbean	. 467,529	536,393	554,808 <sup>r</sup>	551,709 <sup>r</sup>	578.156 <sup>r</sup>	591,047	610,201 <sup>r</sup>	554,346	581,338 <sup>r</sup>	581,398
74 Argentina		20,199	19,013	16,891	18,349	16,428	17,804	17,202	17,061	15,544
75 Bahamas		112,217 6,911	118,085 6,846 <sup>r</sup>	119,206 <sup>r</sup> 7,514	118,648 <sup>r</sup> 6,957	118,122 7,951	123,549 <sup>r</sup> 9,168	122,465 9,410	132,442 9,319	139,101 8,747
77 Brazil		31,037	15,800	13,841	17,128	17,295	14,696	15,389	15,399r	16,208
78 British West Indies		276,418	302,472	300,109	322,011	334,386	347,368	294,208	315,799	310.904
79 Chile		4,072 3,652	5,010 4,616	5,057 4,636	6,805 4,710	7,236 4,861	5,918 4,615	6,744 4,634	5,805 4,452 <sup>r</sup>	6,601 4,708
81 Cuba		66	62	63	64	64	70	70	72	76
82 Ecuador	. 1,767	2,078	1,572	1,606	1,688	1,800	1,930	1,975	1,724	1,792
83 Guatemala		1,494 450	1,333 577	1,392 551	1,386 534	1,449 547	1,468 527	1,425 471	1,521 533	1,471 550
85 Mexico		33,972	37,148	36,621°	36.004	37,588	37,920	39,024	36,301	35,028
86 Netherlands Antilles	. 6,099	5,085	5,010	7,256	5,633	3,853	5,662	3,012	3,408	2,927
87 Panama	4,099	4,241 893	3,864 840	4.196 810	3,974 819	3,984 854	4.130 816	3,844 836	3,816 994 <sup>r</sup>	4,029 1,041
89 Uruguay		2,382	2,486	2,378	2,345	2,331	2,552	2,319	2,147 <sup>r</sup>	2,175
90 Venezuela		21,601	19,894	19,149	20,512	21,204	20,393	20,437	19,796	19,446
91 Other	. 8,670	9,625	10,180 <sup>r</sup>	10,433	10,589 <sup>r</sup>	11,094	11,615	10,881	10,749 <sup>r</sup>	11,050
92 Asia China	. 249,083	269,379	307,960 <sup>r</sup>	305,525 <sup>r</sup>	287,723 <sup>r</sup>	269,026	276,917	283,218	288,974 <sup>r</sup>	287,197
93 Mainland		18,252	13,441	13,996	16,350	14,753	13,366	10.872 12,482	12,359 12,678	11,914 12,544
94 Taiwan 95 Hong Kong		11,840 17,722	12,708 20,900	13,183 27,631 <sup>r</sup>	12,641 26,338 <sup>r</sup>	10,795 25,728	11.408 24,575	24,200	24,149 <sup>r</sup>	23,368
96 India	. 3,930	4,567	5,250	6,189	5,979	5,520	5,421	5,864	5,408	5,625
97 Indonesia 98 Israel		3,554 6,281	8,282 7,749	6,675 8,246	7,434 7,037	6,211 7,004	6,530 6,144	7,309 5,076	6,633 5,059	6,468 5,688
98 Israel		143,401	168,563	161,887	142,326	132,605	143,635	145,652	145,403 <sup>r</sup>	149,518
100 Korea (South)	. 5,949	13,060	12,524 <sup>r</sup>	11,141	10,003 <sup>r</sup>	11,387	12,901	12,792	12,723 <sup>r</sup>	11,903
101 Philippines 102 Thailand	3,378	3,250 6,501	3,324 7,359	2,362 6,588	2,440 6,296	2,492 5,739	2,273 5,296	2,177 6,054	2,189 5,809	2,414 5,281
103 Middle Eastern oil-exporting countries <sup>13</sup>	16,285	14,959	15,609	15,433	14,497	15,453	15,168	15,581	15,942 <sup>r</sup>	14,367
104 Other	. 17,742	25,992	32,251	32,194	36,382	31,339	30,200	35,159	40,622 <sup>r</sup>	38,107
105 Africa	. 8,116	10,347	8,905	8,463	7,874	7,713	7,485	7,508	7,660	8,065
106 Egypt		1,663 138	1,339	1,758 85	1,599	1,339 72	1,576	1,566 116	1,851	1,852 118
108 South Africa	. 458	2,158	1,522	1,258	1,165	1,132	1,091	1,049	885 <sup>r</sup>	753
109 Zaire	. 10	10	5	9	4	12	16	13	13	13
110 Oil-exporting countries <sup>14</sup>	. 2,626 2,898	3,060 3,318		2,772 2,581	2,534 2,482	2,508 2,650	2,247 2,454	2,281 2,483	2,510 <sup>r</sup> 2,293 <sup>r</sup>	2,808 2,521
112 Other		7.205	6,636	6,613	7,142	8,158	9,063	8,259	7,992 <sup>r</sup>	7,828
113 Australia		6,304	5,495	5,582	5,987	6,820	7,624	7,252	6,963	6,789
114 Other	. 1,459	901	1,141	1,031	1,155	1,338	1,439	1,007	1.029 <sup>r</sup>	1,039
115 Nonmonetary international and regional organizations	. 13,972	11,690		15,337	15,921 <sup>r</sup>	14,067 <sup>t</sup>	17,987	18,463	18,468 <sup>r</sup>	18,646
116 International <sup>13</sup> 117 Latin American regional <sup>16</sup>	. 12,099	10,517 424	10,221 594	12,845 1,394	13,494 <sup>r</sup> 1,304	11,759 <sup>r</sup> 653	14,987 898	15,822 819	16,312 <sup>r</sup> 725 <sup>r</sup>	16,570 662
116   International   13   117   Latin American regional   16   118   Other regional   17   17   18   19   19   19   19   19   19   19	534	749		1,098	1,123	1,655	2,102	1,822	1,431	1,414
-		I	1	1 .	1	1		1	1	1

<sup>11.</sup> Since December 1992, has excluded Bosnia, Croatia, and Slovenia.
12. Includes the Bank for International Settlements. Since December 1992, has included all parts of the former U.S.S.R. (except Russia), and Bosnia, Croatia, and Slovenia.
13. Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
14. Comprises Algeria, Gabon, Libya, and Nigeria.

<sup>15.</sup> Principally the International Bank for Reconstruction and Development. Excludes "holdings of dollars" of the International Monetary Fund.

16. Principally the Inter-American Development Bank.

17. Asian, African, Middle Eastern, and European regional organizations, except the Bank for International Settlements, which is included in "Other Europe."

#### 3.18 BANKS' OWN CLAIMS ON FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

			1999							-
Area or country	1996	1997	1998	Mar.	Apr. <sup>T</sup>	May <sup>r</sup>	Juner	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>p</sup>
Total, all foreigners	599,925	708,225	735,058 <sup>r</sup>	710,938 <sup>r</sup>	735,992	750,581	750,859	720,597	730,753	757,702
2 Foreign countries	597,321	705,762	731,441 <sup>r</sup>	706,318 <sup>r</sup>	730,739	746,094	746,786	716,190	727,597	754,112
3 Europe	165,769 1,662	199,880 1,354	233,320 <sup>r</sup> 1,043	226,489 <sup>r</sup> 2,759	236,299 2,389	265,789 2,902	299,977 2,514	292,697 3,855	305,072 3,080	316,073 2,335
5 Belgium and Luxembourg	6,727	6,641	7,187	5,451	7,533 2,297	9,811	10,028	9.214	7,463	7,229
6 Denmark	492 971	980 1,233	2,383 1,070	1,619 1,351	1,349	2,141 1,480	1,901 1,730	1,763 2,197	1,442 1,915	1,756 1,855
8 France	15,246	16,239	15,251	15,227 <sup>r</sup> 16,873 <sup>r</sup>	15,942	15,800	18,253	19,944	18,969	19,128
9 Germany	8,472 568	12,676 402	15,923 <sup>r</sup> 575	554	17,188 651	18,367 585	20,793 551	23,965 628	23,558 659	22,996 662
[] Italy	6,457	6,230	7,283	6,045 <sup>r</sup>	6,727	6,434	6,783	7,451	7,747	7,957
12 Netherlands 13 Norway	7,117 808	6,141 555	5,697 <sup>r</sup> 827	6,690 596	7,251 970	8,588 753	8,724 717	9,334 821	10,132 583	9,425 1,252
14 Portugal	418	777	669	1,205	1,060	1,134	1,122	1,056	1,222	1,342
15 Russia	1,669 3,211	1,248 2,942	789 5,735	971 3.041	787 2,949	1,016 4,516	768 6,178	831 4,606	782 3,700	814 5,107
17 Sweden	1,739	1,854	4,223	4,439	4,141	2,950	3,005	3,199	4,082	4,184
18 Switzerland	19,798	28.846	46,874 <sup>r</sup>	51,670 <sup>r</sup>	48,468	65,488	75,544	66,927	71,866	90,187
19 Turkey	1,109 85,234	1,558 103,143	1,982 106,349	2,078 97,286 <sup>r</sup>	1,943 105,248	1,918 112,946	2,288 130,859	2,219 125,262	2,268 137,636	2,383 129,293
21 Yugoslavia <sup>2</sup>	115	52	53	54	55	54	54	50	49	50
22 Other Europe and other former U.S.S.R. <sup>3</sup>	3,956	7,009	9,407	8,580	9,351	8,906	8,165	9,375	7,919	8,118
23 Canada	26,436	27,189	47,036 <sup>r</sup>	41,245 <sup>r</sup>	40,726	41,116	37,454	31,957	32,109	36,460
24 Latin America and Caribbean	274,153 7,400	343,730 8,924	342,720 <sup>r</sup> 9,553	341,482 <sup>r</sup> 10,399	365,185 10,075	352,496 10,318	326,063 10,776	311,721 10,482	310,159 10,257	320,973 10,274
26 Bahamas	71,871	89,379	96,455	88,657 <sup>r</sup>	84.023	78,480	71,996	77,049	77,674	85,403
27 Bermuda	4,129	8,782	5,011	4,096	4,426	6,276	6,111	7,813	9,747	8,481
28 Brazıl	17,259 105,510	21,696 145,471	16,213 <sup>r</sup> 153,749 <sup>r</sup>	15,165 <sup>r</sup> 162,891 <sup>f</sup>	14,803 193,351	14,893 184,978	14,870 166,508	14,629 146,859	13,844 137,212	14,010 142,502
30 Chile	5,136	7,913	8,255 <sup>r</sup>	8,082	7,810	7,545	7,531	7,153	6,900	6,808
31 Colombia	6,247	6,945	6,523	6,223 <sup>r</sup>	6,106	5,877	5,570	5,590	5,046	4,818
32 Cuba 33 Ecuador	1.031	1,311	1.400	1,219	1,135	1.104	1.069	993	889	844
34 Guatemala	620	886	1.127	1,052	1,062	1,157	1,033	1,075	1.053	1,064
35 Jamaica	345 18,425	424 19,428	239 21,227 <sup>r</sup>	318 20,568 <sup>r</sup>	326 19,470	327 19,316	303 18,638	311 18,978	322 17,819	330 18,248
37 Netherlands Antilles	25,209	17,838	6,779	6,661	5,711	5,867	5,484	5,101	14,032	13,298
38 Panama	2,786	4,364	3,584	3,320	4,329	3,298	3,353	3,064	2,898	2,940
39 Peru	2,720 589	3,491 629	3,275 <sup>r</sup> 1,126	3,232 838	3,111 772	3,053 724	2,975 1,050	2,710 1,105	2,516 1,049	2,531 946
41 Venezuela	1,702	2,129	3,089	3,506	3,138	3,245	3,479	3,501	3,460	3,330
42 Other	3,174	4,120	5,115 <sup>r</sup>	5,255°	5,537	6,038	5,317	5,308	5,441	5,146
43 Asia China	122,478	125,092	98,606 <sup>r</sup>	88,119 <sup>r</sup>	79,297	77,699	74,693	72,240	72,942	72,326
14 Mainland	1,401	1,579	1,261	3,348 <sup>r</sup>	3,421	3,006	3,745	3,144	2,758	2,032
45 Taiwan	1,894 12,802	922 13,991	1,041 9,080	1,331 8,024 <sup>r</sup>	866 6,309	763 4.977	870 7,102	904 5,333	937 4,969	790 5,224
47 India	1,946	2,200	1.440	1,701	1,703	1,458	1,569	1.708	1,728	1,736
48 Indonesia	1,762	2.651	1,942	1,897 1,082	1,911	2,061	1,760 1,955	1,791	1,711	1,689 951
49 Israel	633 59,967	768 59,549	1,166 46,712	1,082 40,031 <sup>r</sup>	803 32,703	1,236 30,664	1,955 27,093	1,433 25,900	1,669 26,226	27,978
51 Korea (South)	18,901	18,162	8.289 <sup>r</sup>	9,170 <sup>r</sup>	11,160	12,326	11,317	12,753	12,194	11.064
52 Philippines	1,697 2,679	1,689 2,259	1,465 1.807 <sup>r</sup>	1,540 1,720	1,546 1,732	1,808 1,623	1,669 1,850	1,380 1,683	1,279 1,549	1.491 1.467
54 Middle Eastern oil-exporting countries4	10,424	10,790	16,130	12,151	11.669	10,569	10,127	9,396	10,906	11,250
55 Other	8,372	10,532	8.273	6,124	5,474	7,208	5,636	6,815	7,016	6,654
56 Africa	2,776	3,530	3,122	2,938	2,688	2,448	2,629	2,499	2,178	2,293
57 Egypt	247 524	247 511	257 372	260 422	228 463	221 444	241 454	252 431	209 444	225 437
39 South Africa	584	805	643	798	567	640	724	598	449	506
60 Zaire	0 420	0 1,212	0 936	0 325	0 257	0 288	0 340	0 297	0 280	0 323
60 Zaire 61 Oil-exporting countries <sup>5</sup> 62 Other	1,001	755	936 914	1,133	1.173	855	870	921	796	802
63 Other 64 Australia	5,709	6,341	6,637 <sup>t</sup>	6,045 5,638	6,544	6,546 6,093	5,970	5,076	5,137	5,987 5,770
64 Australia	4,577 1,132	5,300 1,041	6,173 <sup>r</sup> 464	3,038 407	6,060 484	453	5,636 334	4,811 265	4,907 230	217
								I .	I .	i .

Reporting banks include all types of depository institutions as well as some brokers and dealers.
 Since December 1992, has excluded Bosnia, Croatia, and Slovenia.
 Includes the Bank for International Settlements. Since December 1992, has included all parts of the former U.S.S.R. (except Russia), and Bosnia, Croatia, and Slovenia.

<sup>4.</sup> Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).

5. Comprises Algeria, Gabon, Libya, and Nigeria.

6. Excludes the Bank for International Settlements, which is included in "Other Europe."

#### BANKS' OWN AND DOMESTIC CUSTOMERS' CLAIMS ON FOREIGNERS Reported by Banks in the United States I Payable in U.S. Dollars

Millions of dollars, end of period

	1007	4007	, no of				1999		-	
Type of claim	1996	1997	1998 <sup>r</sup>	Mar. <sup>r</sup>	Apr. <sup>r</sup>	May	June <sup>r</sup>	July	Aug. <sup>r</sup>	Sept. <sup>p</sup>
1 Total	743,919	852,852	875,920	862,902			898,428			
2 Banks' claims         3 Foreign public borrowers         4 Own foreign offices²         5 Unaffiliated foreign banks         6 Deposits         7 Other         8 All other foreigners	599,925 22,216 341,574 113,682 33,826 79,856 122,453	708,225 20,581 431,685 109,230 30,995 78,235 146,729	735,058 23,540 484,525 106,281 27,196 79,085 120,712	710,938 34,752 468,018 94,029 25,040 68,989 114,139	735,992 35,787 485,425 93,733 23,938 69,795 121,047	750,581 36,616 492,192 99,864 25,234 74,630 121,909	750,859 37,344 488,803 104,102 24,164 79,938 120,610	720,597 38,465 460,268 99,715 24,859 74,856 122,149	730,753 35,689 457,574 108,931 23,915 85,016 128,559	757,702 34,997 487,456 102,017 24,556 77,461 133,232
9 Claims of banks' domestic customers <sup>3</sup> 10 Deposits	143,994 77,657	144,627 73,110	140,862 78,491	151,964 91,380			147,569 93,597		• • •	
Negotiable and readily transferable instruments <sup>4</sup>	51,207	53,967	48,752	47,990			43,616			
claims	15,130	17,550	13,619	12,594			10,356			
MEMO 13 Customer liability on acceptances	10,388	9,624	4,519	4,485			4,437			
14 Dollar deposits in banks abroad, reported by nonbanking business enterprises in the United States'	39,661	33,816	39,978	33,038	33,474	31,210	29,165	32,857	32,336	27,750

principally of amounts due from the head office or parent foreign bank, and from foreign branches, agencies, or wholly owned subsidiaries of the head office or parent foreign bank.

3. Assets held by reporting banks in the accounts of their domestic customers.

4. Principally negotiable time certificates of deposit, bankers acceptances, and commercial

#### BANKS' OWN CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Banks in the United States<sup>1</sup> Payable in U.S. Dollars

2	1005		400	19	98	19	99
Maturity, by borrower and area <sup>2</sup>	1995	1996 1997		Sept.	Dec.	Mar.	June <sup>p</sup>
1 Total	224,932	258,106	276,550	281,342	250,547	242,463	259,219
By borrower  2 Maturity of one year or less 3 Foreign public borrowers 4 All other foreigners 5 Maturity of more than one year 6 Foreign public borrowers 7 All other foreigners	178,857	211,859	205,781	208,710	186,653	175,490	186,868
	14,995	15,411	12,081	14,842	13,699	20,921	24,558
	163,862	196,448	193,700	193,868	172,954	154,569	162,310
	46,075	46,247	70,769	72,632	63,894	66,973	72,351
	7,522	6,790	8,499	10,926	9,840	13,290	11,657
	38,553	39,457	62,270	61,706	54,054	53,683	60,694
By area Maturity of one year or less Europe Canada Latin America and Caribbean	55,622	55,690	58,294	68,980	68,684	66,887	84,731
	6,751	8,339	9,917	8,795	10,947	7,816	6,690
	72,504	103,254	97,207	100,161	81,911	71,214	65,853
11 Asia 12 Africa 13 All other  Maturity of more than one year	40,296	38,078	33,964	22,320	18,005	21,347	21,957
	1,295	1,316	2,211	1,762	1,835	1,571	1,543
	2,389	5,182	4,188	6,692	5,271	6,655	6,094
Europe	4,995	6,965	13,240	15,264	14,923	16,949	18,754
	2,751	2,645	2,525	2,982	3,140	2,781	3,276
	27,681	24,943	42,049	39,165	33,443	33,539	36,902
	7,941	9,392	10,235	12,147	10,018	10.972	10,471
	1,421	1,361	1,236	1,170	1,233	1,160	1,105
	1,286	941	1,484	1,904	1,137	1,572	1,843

<sup>1.</sup> Reporting banks include all types of depository institutions as well as some brokers and dealers.

For banks' claims, data are monthly; for claims of banks' domestic customers, data are for quarter ending with month indicated.

Reporting banks include all types of depository institution as well as some brokers and dealers.

2. For U.S. banks, includes amounts due from own foreign branches and foreign subsidiaries consolidated in quarterly Consolidated Reports of Condition filed with bank regulatory agencies. For agencies, branches, and majority-owned subsidiaries of foreign banks, consists

paper.
5. Includes demand and time deposits and negotiable and nonnegotiable certificates of deposit denominated in U.S. dollars issued by banks abroad.

Maturity is time remaining until maturity.
 Includes nonmonetary international and regional organizations.

# 3.21 CLAIMS ON FOREIGN COUNTRIES Held by U.S. and Foreign Offices of U.S. Banks<sup>1</sup> Billions of dollars, end of period

_					1997		·	19	998		19	999
	Area or country	1995	1996	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June <sup>p</sup>
1	Total	551.9	645.3	678.8	711.0	719.3	739.1	749.7	738.9	714.1	678.3	667.3
2 3 4 5 6 7 8 9 10 11	G-10 countries and Switzerland Belgium and Luxembourg France Germany Italy Netherlands Sweden Switzerland United Kingdom Canada Japan	206.0 13.6 19.4 27.3 11.5 3.7 2.7 6.7 82.4 10.3 28.5	228.3 11.7 16.6 29.8 16.0 4.0 2.6 5.3 104.7 14.0 23.7	250.0 9.4 17.9 34.1 20.2 6.4 3.6 5.4 110.6 15.7 26.8	247.8 11.4 20.2 34.7 19.3 7.2 4.1 4.8 108.3 15.1 22.6	242.8 11.0 15.4 28.6 15.5 6.2 3.3 7.2 113.4 13.7 28.6	249.0 11.2 15.5 25.5 19.7 7.3 4.8 5.6 120.1 13.5 25.8	278.3 16.2 20.5 28.8 19.5 8.3 3.1 6.9 134.9 16.5 23.7	268.3 15.1 19.9 28.9 18.0 8.1 2.2 7.5 130.4 15.6 22.8	255.8 13.4 18.4 31.1 11.5 7.9 2.3 8.3 121.5 16.7 24.7	246.4 14.1 19.5 32.0 13.2 8.9 3.6 7.3 110.6 15.7 21.3	255.7 14.8 18.4 29.2 11.6 10.9 2.3 7.8 122.7 16.5 21.6
13 ( 14 15 16 17 18 19 20 21 22 23 24	Other industrialized countries Austria Denmark Finland Greece Norway Portugal Spain Turkey Other Western Europe South Africa Australia	50.2 .9 2.6 .8 5.7 3.2 1.3 11.6 1.9 4.7 1.2 16.4	65.7 1.1 1.5 .8 6.7 8.0 .9 13.2 2.7 4.7 2.0 24.0	71.7 1.5 2.8 1.4 6.1 4.7 1.1 15.4 3.4 5.5 1.9 27.8	73.8 1.7 3.7 1.9 6.2 4.6 1.4 13.9 4.4 6.1 1.9 28.0	64.5 1.5 2.4 1.3 5.1 3.6 .9 11.7 4.5 8.2 2.2 23.1	74.3 1.7 2.0 1.5 6.1 4.0 .7 16.5 4.9 9.9 3.7 23.2	72.1 1.9 2.1 1.4 5.8 3.4 1.3 15.2 6.5 9.6 5.0 20.0	71.6 2.1 2.8 1.6 5.8 3.3 1.1 17.5 5.2 10.3 3.7 18.2	68.5 1.4 2.2 1.5 6.0 3.2 1.3 13.6 4.8 10.6 3.5 20.3	75.8 2.5 3.2 1.4 6.2 2.9 1.3 14.3 5.0 10.1 3.4 25.3	76.5 2.7 2.8 .8 5.7 2.9 1.2 15.8 4.7 10.1 3.4 26.5
25 26 27 28 29 30	OPEC <sup>2</sup> Ecuador Venezuela Indonesia Middle East countries African countries	22.1 .7 2.7 4.8 13.3 .6	19.7 1.1 2.4 5.2 10.7 .4	22.3 .9 2.1 5.6 12.5 1.2	22.9 1.2 2.2 6.5 11.8 1.1	26.0 1.3 2.5 6.7 14.4 1.2	25.7 1.3 3.3 5.5 14.3 1.4	25.3 1.2 3.2 5.1 15.5 .3	25.9 1.2 3.1 4.7 16.1 .8	27.1 1.2 3.2 4.8 17.0 1.0	26.0 1.1 3.4 4.5 16.6 .4	25.9 1.0 3.1 4.9 16.4 .4
31	Non-OPEC developing countries	112.6	130.3	140.6	137.0	138.7	147.4	141.7	140.6	147.9	143.7	145.3
32 33 34 35 36 37 38	Latin America Argentina Brazil Chile Colombia Mexico Peru Other	12.9 13.7 6.8 2.9 17.3 .8 2.8	14.3 20.7 7.0 4.1 16.2 1.6 3.3	16.4 27.3 7.6 3.3 16.6 1.4 3.4	17.1 26.1 8.0 3.4 16.4 1.8 3.6	18.4 28.6 8.7 3.4 17.4 2.0 4.1	19.3 32.4 9.0 3.3 17.7 2.1 4.0	20.2 27.2 9.1 3.6 17.9 2.2 4.4	22.3 24.9 9.3 3.4 18.4 2.2 4.6	22.3 24.2 8.3 3.2 25.3 2.2 5.4	23.5 23.6 8.5 3.2 18.9 2.2 5.4	22.0 24.7 8.2 3.1 18.0 2.1 5.5
39 40 41 42 43 44 45 46 47	Asia China Mainland Taiwan India Israel Korea (South) Malaysia Philippines Thailand Other Asia	1.8 9.4 4.4 .5 19.1 4.4 4.1 4.9 4.5	2.5 10.3 4.3 .5 21.5 6.0 5.8 5.7 4.1	3.6 10.6 5.3 .8 16.3 6.4 7.0 7.3 4.7	4.3 9.7 4.9 1.0 16.2 5.6 5.7 6.2 4.5	3.2 9.0 4.9 .7 15.6 5.1 5.7 5.4 4.3	4.2 11.7 5.0 .7 16.2 4.5 5.0 5.5 4.2	3.9 11.3 4.9 .9 14.5 4.7 5.4 4.9 3.7	2.8 12.2 5.3 .9 12.9 5.1 4.7 5.3 3.1	3.0 12.8 5.3 1.1 13.7 5.7 5.1 4.6 2.9	5.1 11.7 5.5 1.1 13.3 5.9 5.3 4.5 3.0	5.3 11.9 6.5 2.0 14.9 5.9 5.6 4.1 2.8
48 49 50 51	Africa Egypt Morocco Zaire Other Africa <sup>3</sup>	.4 .7 .0 .9	.7 .7 .1 .9	1.1 .7 .0 .9	.9 .7 .0	.9 .6 .0	1.0 .6 .0 1.1	1.5 .6 .0 .8	1.7 .5 .0 1.1	1.3 .5 .0 1.0	1.4 .5 .0	1.4 .5 .0
52 53 54	Eastern Europe	4.2 1.0 3.2	6.9 3.7 3.2	7.1 4.2 2.9	9.8 5.1 4.7	9.1 5.1 4.0	12.0 7.5 4.6	10.9 6.8 4.1	6.0 2.8 3.2	5.2 2.2 3.1	6.1 2.2 3.9	5.1 1.9 3.2
55 56 57 58 59 60 61 62 63	Offshore banking centers Bahamas Bermuda Cayman Islands and other British West Indies Netherlands Antilles Panama <sup>3</sup> Lebanon Hong Kong, China Singapore Other <sup>5</sup> Miscellaneous and unallocated <sup>7</sup>	99.2 11.0 6.3 32.4 10.3 1.4 .1 25.0 13.1 .1 57.6	134.7 20.3 4.5 37.2 26.1 2.0 .1 27.9 16.7 .1 59.6	129.6 16.1 7.9 35.1 15.8 2.6 .1 35.2 16.7 .3 57.6	138.9 19.8 9.8 45.7 21.7 2.1 .1 27.2 12.7 .1 80.8	139.0 23.3 9.8 43.4 14.6 3.1 .1 32.2 12.7 .1 99.1	129.3 29.2 9.0 24.9 14.0 3.2 .1 33.8 15.0 .1 101.3	125.8 24.7 9.3 34.2 10.5 3.3 1 30.0 13.5 2 95.7	121.9 29.0 10.4 30.6 6.0 4.0 .2 30.6 11.1 .2 104.5	94.1 33.0 4.6 15.4 2.6 3.9 .1 23.4 11.2 _2 115.5	83.0 30.2 3.8 6.3 2.7 3.9 .1 22.8 13.1 .2 97.3	70.6 16.1 5.6 7.0 1.2 3.9 .1 21.9 14.6 .1 88.1

<sup>1.</sup> The banking offices covered by these data include U.S. offices and foreign branches of U.S. banks, including U.S. banks that are subsidiaries of foreign banks. Offices not covered include U.S. agencies and branches of foreign banks. Beginning March 1994, the data include large foreign subsidiaries of U.S. banks. The data also include other types of U.S. depository institutions as well as some types of brokers and dealers. To eliminate duplication, the data are adjusted to exclude the claims on foreign branches held by a U.S. office or another foreign branches held by a U.S. office or an

are adjusted to exclude the channs on foreign branches field by a U.S. office or another foreign branch of the same banking institution.

These data are on a gross claims basis and do not necessarily reflect the ultimate country risk or exposure of U.S. banks. More complete data on the country risk exposure of U.S. banks are available in the quarterly Country Exposure Lending Survey published by the Federal Financial Institutions Examination Council.

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, Beginning March 1994 includes Namibia.
 As of December 1992, excludes other republics of the former Soviet Union.
 Includes Canal Zone.
 Foreign branch claims only.
 Includes New Zealand, Liberia, and international and regional organizations.

#### 3.22 LIABILITIES TO UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States

					19	998		1999		
Type of liability, and area or country	1995	1996	1997	Mar.	June	Sept.	Dec.	Mar.	June <sup>p</sup>	
1 Total	46,448	61,782	57,382	55,681	51,433	49,279	46,570	46,663	49,337	
2 Payable in dollars	33,903	39,542	41,543	41,601	40,026	38,410	36,668	34,030	36,032	
	12,545	22,240	15,839	14,080	11,407	10,869	9,902	12,633	13,305	
By type 4 Financial liabilities 5 Payable in dollars 6 Payable in foreign currencies	24,241	33,049	26,877	25,691	22,322	19,331	19,255	22,458	25,058	
	12,903	11,913	12,630	12,911	11,988	9,812	10,371	11,225	13,205	
	11,338	21,136	14,247	12,780	10,334	9,519	8,884	11,233	11,853	
7 Commercial liabilities 8 Trade payables	22,207	28,733	30,505	29,990	29,111	29,948	27,315	24,205	24,279	
	11.013	12,720	10,904	10,107	9,537	10,276	10,978	9,999	10,935	
	11,194	16,013	19,601	19,883	19,574	19,672	16,337	14,206	13,344	
10 Payable in dollars	21,000	27,629	28,913	28,690	28,038	28,598	26,297	22,805	22,827	
	1,207	1,104	1,592	1,300	1,073	1,350	1,018	1,400	1,452	
By area or country	15,622	23,179	18,027	18,793	15,468	12,905	12,589	16,098	19,578	
	369	632	186	127	75	150	79	50	70	
	999	1,091	1,425	1,545	1,699	1,457	1,097	1,178	1,287	
	1,974	1,834	1,958	2,518	2,441	2,167	2,063	1,906	1,959	
	466	556	494	472	484	417	1,406	1,337	2,104	
	895	699	561	130	189	179	155	141	143	
	10,138	17,161	11,667	12,185	8,765	6,610	5,980	9,729	13,097	
19 Canada	632	1,401	2,374	1,027	539	389	693	781	320	
20 Latin America and Caribbean 21 Bahamas 22 Bermuda 23 Brazil 24 British West Indies 25 Mexico 26 Venezuela	1,783 59 147 57 866 12 2	1,668 236 50 78 1,030 17	1,386 141 229 143 604 26	965 17 86 91 517 21	1,320 6 49 76 845 51 1	1,351 1 73 154 834 23 1	1,495 7 101 152 957 59 2	1,528 1 78 137 1,064 22 2	1,369 1 52 131 944 19	
27 Asia	5,988	6,423	4,387	4,197	4,315	4,005	3,785	3,475	3,217	
	5,436	5,869	4,102	3,964	3,869	3,754	3,612	3,337	3,035	
	27	25	27	18	0	0	0	1	2	
30 Africa 31 Oil-exporting countries <sup>2</sup>	150	38	60	33	29	31	28	31	29	
	122	0	0	0	0	0	0	2	0	
32 All other <sup>3</sup>	66	340	643	676	651	650	665	545	545	
Commercial liabilities   33	7,700	9,767	10,228	9,951	9,987	11,010	10,030	8,580	8,718	
	331	479	666	565	557	623	278	229	189	
	481	680	764	840	612	740	920	654	656	
	767	1,002	1,274	1,068	1,219	1,408	1,392	1,088	1,143	
	500	766	439	443	485	440	429	361	432	
	413	624	375	407	349	507	499	535	497	
	3,568	4,303	4,086	4,041	3,743	4,286	3,697	3,008	2,959	
40 Canada	1,040	1,090	1,175	1,347	1,206	1,504	1,390	1,597	1,670	
41     Latin America and Caribbean       42     Bahamas       43     Bermuda       44     Brazil       45     British West Indies       46     Mexico       47     Venezuela	1,740	2,574	2,176	2,051	2,285	1,840	1,618	1,612	1,674	
	1	63	16	27	14	48	14	11	19	
	205	297	203	174	209	168	198	225	180	
	98	196	220	249	246	256	152	107	112	
	56	14	12	5	27	5	10	7	5	
	416	665	565	520	557	511	347	437	490	
	221	328	261	219	196	230	202	155	149	
48 Asia	10,421	13,422	14,966	14,672	13,611	13,539	12,342	10,428	10,039	
49 Japan	3,315	4,614	4,500	4,372	3,995	3,779	3,827	2,715	2,753	
50 Middle Eastern oil-exporting countries <sup>1</sup>	1,912	2,168	3,111	3,138	3,194	3,582	2,852	2,479	2,209	
51 Africa	619	1,040	874	833	921	810	794	727	832	
	254	532	408	376	354	372	393	377	392	
53 Other <sup>3</sup>	687	840	1,086	1,136	1,101	1,245	1,141	1,261	1,346	

<sup>1.</sup> 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.

#### 3.23 CLAIMS ON UNAFFILIATED FOREIGNERS Reported by Nonbanking Business Enterprises in the United States

					19	998		19	99
Type of claim, and area or country	1995	1996	1997	Mar.	June	Sept.	Dec.	Mar.	Junep
1 Total	52,509	65,897	68,128	71,004	63,188	67,976	77,462	68,973	63,767
2 Payable in dollars	48,711	59,156	62,173	65,359	57,587	62,034	72,171	63,988	56,931
	3,798	6,741	5,955	5,645	5,601	5,942	5,291	4,985	6,836
By type   4   Financial claims   5   Deposits   6   Payable in dollars   7   Payable in foreign currencies   8   Other financial claims   9   Payable in foreign currencies   10   Payable in foreign currencies   10   Payable in foreign currencies   10   Payable in foreign currencies   11   Payable in foreign currencies   12   Payable in foreign currencies   13   Payable in foreign currencies   14   Payable in foreign currencies   15   Payable in fore	27,398	37,523	36,959	40,301	32,341	37,262	46,260	38,136	31,877
	15,133	21,624	22,909	20,863	14,762	15,406	30,199	18,686	13,350
	14,654	20,852	21,060	19,155	13,084	13,374	28,549	17,101	11,636
	479	772	1,849	1,708	1,678	2,032	1,650	1,585	1,714
	12,265	15,899	14,050	19,438	17,579	21,856	16,061	19,450	18.527
	10,976	12,374	11,806	16,981	14,904	19,867	14,049	17,419	14,762
	1,289	3,525	2,244	2,457	2,675	1,989	2,012	2,031	3,765
11 Commercial claims 12 Trade receivables 13 Advance payments and other claims	25,111	28,374	31,169	30,703	30,847	30,714	31,202	30,837	31,890
	22,998	25,751	27,536	26,888	26,764	26,330	27,202	26,724	27,754
	2,113	2,623	3,633	3,815	4,083	4,384	4,000	4,113	4,136
Payable in dollars	23,081	25,930	29,307	29,223	29,599	28,793	29,573	29,468	30,533
	2,030	2,444	1,862	1,480	1,248	1,921	1,629	1,369	1,357
By area or country Financial claims 16 Europe 17 Belgium and Luxembourg 18 France 19 Germany 20 Netherlands 21 Switzerland 22 United Kingdom	7,609	11,085	14,999	14.187	14,091	14,473	12,294	12,800	13,898
	193	185	406	378	518	496	661	469	457
	803	694	1,015	902	796	1,140	864	913	1,368
	436	276	427	393	290	359	304	302	367
	517	493	677	911	975	867	875	955	959
	498	474	434	401	403	409	414	530	504
	4,303	7,922	10,337	9,289	9,639	9,849	7,766	8,357	8,589
23 Canada	2,851	3,442	3,313	4,688	3,020	4,090	2,503	3,111	2,828
24     Latin America and Caribbean       25     Bahamas       26     Bermuda       27     Brazil       28     British West Indies       29     Mexico       30     Venezuela	14,500	20,032	15,543	18,207	11,967	15,758	27,714	18,825	11,486
	1,965	1,553	2,308	1,316	1.306	2,105	403	666	467
	81	140	108	66	48	63	39	41	39
	830	1,468	1,313	1,408	1,394	710	835	1,112	1,102
	10,393	15,536	10,462	13,551	7,349	10,960	24,388	14,621	7,393
	554	457	537	967	1,089	1,122	1,245	1,583	1,702
	32	31	36	47	57	50	55	72	71
31       Asia         32       Japan         33       Middle Eastern oil-exporting countries¹	1,579	2,221	2,133	2,174	2,376	2,121	3,027	2,648	2,801
	871	1.035	823	791	886	928	1,194	942	949
	3	22	11	9	12	13	9	8	5
34 Africa 35 Oil-exporting countries <sup>2</sup>	276	174	319	325	155	157	159	174	228
	5	14	15	16	15	16	16	26	5
36 All other <sup>3</sup>	583	569	652	720	732	663	563	578	636
Commercial claims   Europe   38   Belgium and Luxembourg   39   France   40   Germany   41   Netherlands   42   Switzerland   43   United Kingdom   44   United Kingdom   45   Commercial	9,824	10,443	12,120	12,854	12,882	13,029	13,246	12,782	12,958
	231	226	328	232	216	219	238	281	286
	1,830	1,644	1,796	1,939	1,955	2,098	2,171	2,173	2,092
	1,070	1,337	1,614	1.670	1,757	1,502	1,822	1,599	1,660
	452	562	597	534	492	463	467	415	389
	520	642	554	476	418	546	483	367	385
	2,656	2,946	3,660	4,828	4,664	4,681	4,769	4,529	4,615
44 Canada	1,951	2,165	2,660	2,882	2,779	2,291	2,617	2,983	2,844
45         Latin America and Caribbean           46         Bahamas           47         Bermuda           48         Brazil           49         British West Indies           50         Mexico           51         Venezuela	4,364	5,276	5,750	5,481	6,082	5,773	6,296	5,930	6,267
	30	35	27	13	12	39	24	10	21
	272	275	244	238	359	173	536	500	583
	898	1,303	1,162	1,128	1,183	1,062	1,024	936	885
	79	190	109	88	110	91	104	117	127
	993	1,128	1,392	1,302	1,462	1,356	1,545	1,431	1,474
	285	357	576	441	585	566	401	361	383
52 Asia	7,312	8,376	8,713	7,638	7,367	7,190	7,192	7,080	7,678
	1,870	2,003	1,976	1,713	1,757	1,789	1,681	1,486	1,509
	974	971	1,107	987	1,127	967	1,135	1,286	1,465
55 Africa	654	746	680	613	657	740	711	685	738
	87	166	119	122	116	128	165	116	202
57 Other <sup>3</sup>	1,006	1,368	1,246	1,235	1,080	1,691	1,140	1,377	1,405

<sup>1.</sup> 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

			1999				1999			
Transaction, and area or country	1997	1998	Jan. – Sept.	Mar.	Apr	May	June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>p</sup>
		_			U.S. corpora	te securities				
STOCKS										
1 Foreign purchases	1,097,958 1,028,361	1,574,185 1,524,189	1,626,045 1,553,504	179,801 <sup>1</sup> 176,840 <sup>r</sup>	222,900° 205,307°	185,646 177,108	179,785 167,878	188,099 179,783	178,428 166,212	175,555 172,173
3 Net purchases, or sales (-)	69,597	49,996	72,541	2,961 <sup>r</sup>	17,593 <sup>r</sup>	8,538	11,907	8,316	12,216	3,382
4 Foreign countries	69,754	50,376	72,547	2,961 <sup>r</sup>	17,577 <sup>r</sup>	8,549	11,893	8,361	12,225	3,367
5 Europe 6 France 7 Germany 8 Netherlands 9 Switzerland 0 United Kingdom 11 Canada 12 Latin America and Caribbean 13 Middle East 14 Other Asia 15 Japan 16 Africa 17 Other countries	62,688 6,641 9,059 3,831 7,848 22,478 -1,406 5,203 383 2,072 4,787 472 342	68,124 5,672 9,195 8,249 5,001 23,952 -4,689 760 -1,449 -12,347 -1,171 639 -662	66,412 3,168 7,627 4,914 5,180 32,036 988 5,356 - 319 - 985 3,187 412 683	6,563 1,199 480 1,103 1,551 575 723 -1,341 <sup>r</sup> 298 -3,257 -1,925 87 -112	11,493 534 1,814 417 1,934 3,758 -129 5,596' -355 905 1,458 37 30	5,260 -206 971 738 481 1,822 -159 2,049 419 574 464 138 268	7,663 919 1,376 1,181 1,452 1,300 401 2,474 64 1,271 681 81	6,171 -55 -354 404 -2,822 8,498 153 2,935 -273 -671 -452 14	9,568 269 1,322 566 827 4,578 -50 846 174 1,666 1,269 -39 60	7,243 146 111 -537 1,185 4,779 -927 -4,687 -26 1,463 2,652 61 240
8 Nonmonetary international and regional organizations	-157	-380	-6	0	16	-11	14	-45	-9	15
Bonds <sup>2</sup>										
19 Foreign purchases	610,116 475,958	905,782 727,044	641,321 454,837	77,101 52,331	70,044 47,516	66,558 49,145	67,569 52,197	75.778 47,984	64,113 46,667	76,270 48,902
21 Net purchases, or sales (-)	134,158	178,738	186,484	24,770	22,528	17,413	15,372	27,794	17,446	27,368
22 Foreign countries	133,595	179,081	185,932	24,974	22,468	17,326	15,383	27,520	17,473	27,037
32   Europe	71,631 3,300 2,742 3,576 187 54,134 6,264 34,733 2,155 16,996 9,357 1,005 811	130,057 3,386 4,369 3,443 4,826 99,637 6,121 23,938 4,997 12,662 8,384 190 1,116	105,118 1,496 5,313 2,027 3,302 78,568 3,302 43,730 1,998 30,174 11,062 665 945	12,832 22 190 418 272 9,268 640 5,203 859 5,132 589 261 47	10,527 -36 -43 106 467 8,617 319 5,967 364 4,904 1,215 331 56	10,911 352 797 168 128 8,310 413 3,382 -717 3,224 0 82 31	9,553 258 321 187 -26 7,651 184 4,603 -114 1,458 310 -307 6	18,196 447 1,707 336 705 13,582 -23 5,088 -182 4,031 3,020 122 288	10,208 160 -77 144 322 7,960 286 5,558 -219 1,179 827 59 402	13,724 24 752 279 496 9,766 908 5,490 257 6,698 4,375 -189 149
86 Nonmonetary international and regional organizations	563	-343	552	-204	60	87	-11	274	-27	331
		_			Foreign	securities		ı		
37 Stocks, net purchases, or sales (-) 38 Foreign purchases 39 Foreign sales 40 Bonds, net purchases, or sales (-) 41 Foreign purchases 42 Foreign sales	-40,942 756,015 796,957 -48,171 1,451,704 1,499,875	6,227 929,923 923,696 -17,350 1,328,281 1,345,631	21,728 825,442 803,714 -7,592 623,857 631,449	1,783 <sup>r</sup> 95,302 <sup>r</sup> 93,519 <sup>r</sup> 1,710 76,129 74,419	5,503 <sup>r</sup> 98,607 <sup>r</sup> 93,104 <sup>r</sup> -5,147 73,376 78,523	2,455 86,345 83,890 -499 72,372 72,871	6,220 97,622 91,402 8,969 79,013 70,044	-2,236 106,264 108,500 -4,777 63,975 68,752	594 91,851 91,257 -6,421 70,061 76,482	1,058 97,463 96,405 1,132 66,661 65,529
Net purchases, or sales (-), of stocks and bonds	-89,113	-11,123	14,136	3,493 <sup>r</sup>	356 <sup>r</sup>	1,956	15,189	-7,013	-5,827	2,190
4 Foreign countries	-88,921	-10,778	13,823	3,533 <sup>r</sup>	474 <sup>r</sup>	2,056	15,219	-7,104	-6,010	2,260
15 Europe 16 Canada 17 Latin America and Caribbean 18 Asia 19 Japan 10 Africa 10 Other countries	-29,874 -3,085 -25,258 -25,123 -10,001 -3,293 -2,288	12,632 -1,901 -13,798 -3,992 -1,742 -1,225 -2,494	49,796 -1,003 -9,678 -24,146 -25,582 -45 -1,101	14,026 <sup>r</sup> -131 -3,660 <sup>r</sup> -7,155 -7,250 -16 469	9,710 -449 -4,433 <sup>r</sup> -3,946 -3,445 20 -428	5,845 -537 -2,351 -494 -704 112 -519	16,749 1,202 -2,785 194 -1,241 -25 -116	-3,759 -1,055 445 -3,330 -4,323 -21 616	-1,829 525 -299 -4,303 -4,805 4 -108	2,217 303 601 -210 -565 -116 -535
52 Nonmonetary international and			313	-40	-118	~100	-30	91		-70

<sup>1.</sup> 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 securities sold abroad by U.S. corporations organized to finance direct investments abroad.

### 3.25 MARKETABLE U.S. TREASURY BONDS AND NOTES Foreign Transactions<sup>1</sup>

Millions of dollars; net purchases, or sales (-) during period

			1999				1999			
Area or country		1998	Jan. – Sept.	Mar.	Apr.	May	June	July	Aug.	Sept. <sup>p</sup>
1 Total estimated	184,171	49,039	-1,256	1,532	-3,271	5,638	-609	-6,242	19,118	87
2 Foreign countries	183,688	46.570	-1,387	1,762	-3,257	5,316	-815	-6,226	18,847	-4
3   Europe	144,921	23,797	-40,937	1,342	-15,394	-3,997	-5,796	-5,740	1,771	-9,268
	3,427	3,805	1,425	-54	476	121	753	37	105	12
	22,471	144	1,090	428	-653	-290	538	643	1,438	-963
	1,746	-5,533	1,364	197	-256	797	-77	-1,224	453	-423
	-465	1,486	1,019	386	-462	-21	579	-229	876	-45
	6,028	5,240	-3,677	-1,457	-302	-121	971	-216	-714	234
	98,253	14,384	-20,734	1,129	-6,672	-4,528	-7,215	1,385	1,934	-3,534
	13,461	4,271	-21,424	713	-7,525	45	-1,345	-6,136	-2,321	-4,549
	-811	615	8,336	213	1,205	2,580	460	1,382	1,339	1,459
12       Latin America and Caribbean         13       Venezuela         14       Other Latin America and Caribbean         15       Netherlands Antilles         16       Asia         17       Japan         18       Africa         19       Other	-2,554	-3,662	6,994	1,100	5,200	1,364	-1,403	693	8,695	3,003
	655	59	216	-445	2	88	-31	131	15	10
	-549	9,523	1,495	-2,570	3,654	-123	-52	-43	1,650	2,982
	-2,660	-13,244	5,283	4,115	1,544	1,399	-1,320	605	7,030	11
	39,567	27,433	25,329	-1,714	5,973	5,631	6,489	-2,319	6,832	5,344
	20,360	13.048	15,873	-1,311	6,475	1,284	4,905	-394	2,913	5,259
	1,524	751	-1,598	-52	-11	-198	-246	-178	-622	-302
	1,041	-2,364	489	873	-230	-64	-319	-64	832	-240
20 Nonmonetary international and regional organizations       21 International       22 Latin American regional	483	2,469	131	-230	-14	322	206	-16	271	91
	621	1,502	-194	-206	15	223	-8	-101	233	98
	170	199	670	-5	0	122	192	191	175	-9
MEMO 23 Foreign countries 24 Official institutions 25 Other foreign	183,688	46,570	-1,387	1,762	-3,257	5,316	-815	-6,226	18,847	-4
	43,959	4,123	-11,333	-4,845	-6,696	3,223	397	-1,773	2,393	-1,796
	139,729	42,447	9,946	6,607	3,439	2,093	-1,212	-4,453	16,454	1,792
Oil-exporting countries 26 Middle East 27 Africa	7,636	-16,554	7,612	1,478	65	2,887	238	-38	130	401
	-12	2	1	0	0	0	0	0	1	0

<sup>1.</sup> Official and private transactions in marketable U.S. Treasury securities having an original maturity of more than one year. Data are based on monthly transactions reports. Excludes nonmarketable U.S. Treasury bonds and notes held by official institutions of foreign countries.

Comprises Bahrain, Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia, and United Arab Emirates (Trucial States).
 Comprises Algeria, Gabon, Libya, and Nigeria

#### 3.28 FOREIGN EXCHANGE RATES AND INDEXES OF THE FOREIGN EXCHANGE VALUE OF THE U.S. DOLLAR<sup>1</sup>

Currency units per dollar except as noted

	1007	1007	1000			19	199				
Item	1996	1997	1998	June	July	Aug.	Sept.	Oct.	Nov.		
	Exchange Rates										
COUNTRY/CURRENCY UNIT									_		
1 Australia/dollar <sup>2</sup> 2 Austria/schilling 3 Belgium/franc 4 Brazil/real 5 Canada/dollar 6 China, P.R./yuan 7 Denmark/krone 8 European Monetary Union/euro <sup>3</sup> 9 Finland/markka 10 France/franc 11 Germany/deutsche mark 12 Greece/drachma	78.28 10.589 30.97 1.0051 1.3638 8.3389 5.8003 n.a. 4.5948 5.1158 1.5049 240.82	74.37 12.206 35.81 1.0779 1.3849 8.3193 6.6092 n.a. 5.1956 5.8393 1.7348 273.28	62.91 12.379 36.31 1.1605 1.4836 8.3008 6.7030 n.a. 5.3473 5.8995 1.7597 295.70	65.63 n.a. n.a. 1.7669 1.4695 8.2780 7.1643 1.0377 n.a. n.a. 312.49	65.62 n.a. n.a. 1.8023 1.4890 8.2776 7.1792 1.0370 n.a. n.a. 313.52	64.46 n.a. n.a. 1.8859 1.4932 8.2772 7.0144 1.0605 n.a. n.a. 307.84	64.95 n.a. n.a. 1.8987 1.4771 8.2774 7.0828 1.0497 n.a. n.a. 311.68	65.09 n.a. n.a. 1.9688 1.4776 8.2775 6.9450 1.0706 n.a. n.a. 307.71	63.88 n.a. n.a. 1.9314 1.4674 8.2782 7.2019 1.0328 n.a. n.a. n.a.		
13 Hong Kong/dollar 14 India/rupee 15 Ireland/pound <sup>2</sup> 16 Italy/lira 17 Japan/yen 18 Malaysia/ringgit 19 Mexico/peso 20 Netherlands/guilder 21 New Zealand/dollar <sup>2</sup> 22 Norway/krone 23 Portugal/escudo	7.7345 35.51 159.95 1,542.76 108.78 2.5154 7.600 1.6863 68.77 6.4594 154.28	7.7431 36.36 151.63 1,703.81 121.06 2.8173 7.918 1.9525 66.25 7.0857 175.44	7.7467 41.36 142.48 1,736.85 130.99 3.9254 9.152 1.9837 53.61 7.5521 180.25	7.7575 43.21 n.a. n.a. 120.72 3.8000 9.515 n.a. 53.25 7.8749 n.a.	7.7603 43.36 n.a. n.a. 119.33 3.8000 9.370 n.a. 52.61 7.9029 n.a.	7.7638 43.50 n.a. n.a. 113.23 3.8000 9.398 n.a. 52.59 7.8036 n.a.	7.7665 43.60 n.a. n.a. 106.88 3.8000 9.341 n.a. 52.30 7.8361 n.a.	7,7696 43,55 n.a n.a. 105,97 3,8000 9,575 n.a. 51,42 7,7402 n.a.	7 7718 43 46 n.a. n.a. 104.65 3.8000 9.416 n.a. 51.22 7.9367 n.a.		
24 Singapore/dollar 25 South Africa/rand 26 South Korea/won 27 Spain/peseta 28 Sri Lanka/rupee 29 Sweden/krona 30 Switzerland/franc 31 Taiwan/dollar 32 Thailand/baht 33 United Kingdom/pound <sup>2</sup> 34 Venezuela/bolivar	1.4100 4.3011 805.00 126.68 55.289 6.7082 1.2361 27.468 25.359 156.07 417.19	1.4857 4.6072 947.65 146.53 59.026 7.6446 1.4514 28.775 31.072 163.76 488.39	1.6722 5.5417 1.400.40 149.41 65.006 7.9522 1.4506 33.547 41.262 165.73 548.39	1.7107 6.0880 1.168.91 n.a. 71.211 8.5065 1.5374 32.525 36.926 159.50 603.29	1.6958 6.1182 1,189.10 n.a 71.912 8.4431 1.5474 32.338 37.143 157.51 611.17	1.6787 6.1302 1,198.31 n.a. 71.868 8.2589 1.5093 32.076 38.060 160.58 615.95	1.6965 6.0563 1,201.00 n.a. 71.942 8.2264 1.5262 31.848 40.060 162.47 625.41	1.6757 6.1029 1,205.29 n.a. 71.747 8.1492 1.4896 31.828 39.416 165.72 630.75	1.6699 6.1424 1,176.98 n.a. 72.040 8.3586 1.5543 31.794 38.749 162.05 634.80		
		<u>.                                    </u>		·	Indexes <sup>4</sup>		1		<u> </u>		
Nominal					Indexes				-		
35 Broad (January 1997=100) <sup>5</sup>	97.40 84.60	104.44 91.24	116.48 95.79	117.93 96.07	117.97 96.31	117.00 94.31	116.38 92.92	115.88 91.94	116.08 92.87		
1997=100)	98.26	104.67	126.03	129.03	128.73	129.73	130.60	131.06	129.93		
REAL  38 Broad (March 1973=100) <sup>5</sup>	86.72	91.33 <sup>r</sup>	99.35 <sup>r</sup>	00.61	99.91	00.04	00.10	07.01	07.74		
39 Major currencies (March 1973=100) <sup>6</sup> 40 Other important trading partners (March	86.72 84.95 <sup>r</sup>	91.33° 92.25°	99.35 <sup>r</sup> 97.25 <sup>r</sup>	99.61 98.61	99.91	99.04 97.13 <sup>r</sup>	98.49 <sup>r</sup> 95.91	97,91 <sup>r</sup> 94,93 <sup>r</sup>	97.76 95.89		
1973=100)7	94.69	95.87	108.50	107.25	107.18	107.90	108.25 <sup>r</sup>	108.20 <sup>r</sup>	106.46		

#### Euro equals

13.7603	Austrian schillings	1936.27	Italian lire
40.3399		40.3399	Luxembourg francs
5.94573	Finnish markkas	2.20371	Netherlands guilders
6.55957	French francs	200.482	Portuguese escudos
1.95583	German marks	166.386	Spanish pesetas
.787564	Irish pounds		• •

<sup>1.</sup> Averages of certified noon buying rates in New York for cable transfers. Data in this table also appear in the Board's G.5 (405) monthly statistical release. For ordering address, see inside front cover.

2. Value in U.S. cents.

3. As of January 1999, the euro is reported in place of the individual euro area currencies. These currency rates can be derived from the euro rate by using the fixed conversion rates (in currencies per euro) as shown below:

<sup>4.</sup> The December 1999 Bulletin contains revised index values resulting from the annual

<sup>4.</sup> The December 1999 Bulletin contains revised index values resulting from the annual revision to the trade weights. For more information on the indexes of the foreign exchange value of the dollar, see Federal Reserve Bulletin, vol. 84 (October 1998), pp. 811–18.
5. Weighted average of the foreign exchange value of the U.S. dollar against the currencies of a broad group of U.S. trading partners. The weight for each currency is computed as an average of U.S. bilateral import shares from and export shares to the issuing country and of a measure of the importance to U.S. exporters of that country's trade in third country markets.
6. Weighted average of the foreign exchange value of the U.S. dollar against a subset of broad index currencies that circulate widely outside the country of issue. The weight for each currency is its broad index weight scaled so that the weights of the subset of currencies in the index sum to one. index sum to one.

7. Weighted average of the foreign exchange value of the U.S. dollar against a subset of

Weighted average of the foreign extrangle value of the 6.3, upon against a sweet of broad index currencies that do not circulate widely outside the country of issue. The weight for each currency is its broad index weight scaled so that the weights of the subset of currencies in the index sum to one.

## Guide to Statistical Releases and Special Tables

STATISTICAL RELEASES—List Published Semiannually, with Latest Bulletin Reference		
Anticipated schedule of release dates for periodic releases	Issue December 1999	Page A72
SPECIAL TABLES—Data Published Irregularly, with Latest Bulletin Reference		
Title and Date	Issue	Page
Assets and liabilities of commercial banks		
September 30, 1998	February 1999	A64
December 31, 1998	May 1999	A64
March 31, 1999	August 1999	A64
June 30, 1999	November 1999	A64
Terms of lending at commercial banks		
November 1998	February 1999	A66
February 1999	May 1999	A66
May 1999	August 1999	A66
August 1999	November 1999	A66
Assets and liabilities of U.S. branches and agencies of foreign banks		
September 30, 1998	February 1999	A72
December 31, 1998	May 1999	A72
March 31, 1999	August 1999	A72
June 30, 1999	November 1999	A72
Pro forma balance sheet and income statements for priced service operations		
March 31, 1999	July 1999	A64
June 30, 1999	October 1999	A64
	January 2000	A64
September 30, 1999	January 2000	A04
Residential lending reported under the Home Mortgage Disclosure Act		
1997	September 1998	A64
1998	September 1999	A64
Disposition of applications for private mortgage insurance		
1997	September 1998	A72
1998	September 1999	A73
Small loans to businesses and farms		
1997	September 1998	A76
1998	September 1999	A76
1770	September 1999	AIU
Community development lending reported under the Community Reinvestment Act		
1997	September 1998	A79
1998	September 1999	A79

#### 4.31 PRO FORMA FINANCIAL STATEMENTS FOR FEDERAL RESERVE PRICED SERVICES

#### A. Pro forma balance sheet

Millions of dollars

Item	Sept. 30, 1999		Sept. 30, 1998	
Short-term assets (Note 1) Imputed reserve requirement on clearing balances Investment in marketable securities Receivables Materials and supplies. Prepaid expenses Items in process of collection.	680.5 6,124.5 70.7 4.3 21.0 3,532.6		655.7 5,901.3 68.6 4.5 17.1 4,169.0	
Total short-term assets		10,433.7		10,816.4
Long-term assets (Note 2) Premises. Furniture and equipment Leases and leasehold improvements. Prepaid pension costs	418.8 145.7 40.9 516.4		396.4 126.0 22.9 415.5	
Total long-term assets		1,121.8		960.9
Total assets		11,555.5		11,777.3
Short-term liabilities Clearing balances and balances arising from early credit of uncollected items Deferred-availability items Short-term debt	7,076.8 3,260.9 96.0		6,146.8 4,579.2 90.4	
Total short-term liabilities		10,433.7		10,816.4
Long-term liabilities Obligations under capital leases Long-term debt Postretirement/postemployment benefits obligation.	0.0 225.2 215.9		0.0 190.9 214.6	
Total long-term liabilities		441.1		405.5
Total liabilities		10,874.7		11,221.9
Equity		680.7		555.5
Total liabilities and equity (Note 3)		11,555.5		11,777.3

NOTE. Components may not sum to totals because of rounding. The priced services financial statements consist of these tables and the accompanying notes.

#### (1) SHORT-TERM ASSETS

The imputed reserve requirement on clearing balances held at Reserve Banks by depository institutions reflects a treatment comparable to that of compensating balances held at correspondent banks by respondent institutions. The reserve requirement imposed on respondent balances must be held as vault cash or as nonearning balances maintained at a Reserve Bank; thus, a portion of priced services clearing balances held with the Federal Reserve is shown as required reserves on the asset side of the balance sheet. The remainder of clearing balances is assumed to be invested in three-month Treasury bills, shown as investment in marketable securities

securities.

Receivables are (1) amounts due the Reserve Banks for priced services and (2) the share of suspense-account and difference-account balances related to priced services.

Materials and supplies are the inventory value of short-term assets.

Prepaid expenses include salary advances and travel advances for priced-service personnel. Items in process of collection is gross Federal Reserve cash items in process of collection (CIPC) stated on a basis comparable to that of a commercial bank. It reflects adjustments for intra-System items that would otherwise be double-counted on a consolidated Federal Reserve balance sheet; adjustments for items associated with non-priced items, such as those collected for government agencies; and adjustments for items associated with providing fixed availability or credit before items are received and processed. Among the costs to be recovered under the Monetary Control Act is the cost of float, or net CIPC during the period (the difference between gross CIPC and deferred-availability items which is the portion of gross CIPC that involves a financing cost), valued at the federal funds rate.

Consists of long-term assets used solely in priced services, the priced-services portion of long-term assets shared with nonpriced services, and an estimate of the assets of the Board of Governors used in the development of priced services. Effective Jan. 1, 1987, the Reserve Banks implemented the Financial Accounting Standards Board's Statement of Financial Accounting Standards No. 87, Employers' Accounting for Pensions (SFAS 87). Accordingly, the Federal Reserve Banks recognized credits to expenses of \$24.9 million in the third quarter of 1999, \$21.9 million in the first quarter of 1999, \$21.0 million in the first quarter of 1998, \$20.4 million in the first quarter of 1998, \$20.4 million in the first quarter of 1998, and corresponding increases in this asset account.

#### (3) LIABILITIES AND EQUITY

Under the matched-book capital structure for assets that are not "self-financing," short-term assets are financed with short-term debt. Long-term assets are financed with long-term debt and equity in a proportion equal to the ratio of long-term debt to equity for the fifty largest bank holding companies, which are used in the model for the private-sector adjustment factor (PSAF). The PSAF consists of the taxes that would have been paid and the return on capital that would have been provided had priced services been furnished by a private-sector firm. Other short-term liabilities include clearing balances maintained at Reserve Banks and deposit balances arising from float. Other long-term liabilities consist of shiptings on equital deposit balances arising from float. Other long-term liabilities consist of obligations on capital

#### 4.31 PRO FORMA FINANCIAL STATEMENTS FOR FEDERAL RESERVE PRICED SERVICES

#### B. Pro forma income statement

Millions of dollars

Item	Quarter ending	g Sept. 30, 1999	Quarter ending	Sept. 30, 1998
Revenue from services provided to depository institutions (Note 4)  Operating expenses (Note 5).  Income from operations  Inputed costs (Note 6)		210.9 173.6 37.3		205.5 167.0 38.4
Interest on float Interest on debt Sales taxes FDIC insurance	1.0 4.6 2.3 0.9	8.8	1.8 4.3 2.4 0.7	9.1
Income from operations after imputed costs  Other income and expenses (Note 7) Investment income on clearing balances Earnings credits Income before income taxes Inputed income taxes (Note 8)  Net income MEMO Targeted return on equity (Note 9).	84.6 (79.2)	28.5  5.4  33.9  10.9  23.1  14.3	89.8 (85.6)	29.3  4.2  33.5  10.7  22.7
	Nine months end	ling Sept. 30, 1999	Nine months end	ing Sept. 30, 1998
Revenue from services provided to depository institutions (Note 4)		619.3 508.5 110.8		602.5 483.9 118.6
Imputed costs (Note 6) Interest on float Interest on debt Sales taxes FDIC insurance	6.9 13.8 6.9 2.5	30.2	11.1 12.8 6.1 0.7	30.7
Income from operations after imputed costs  Other income and expenses (Note 7) Investment income on clearing balances Earnings credits	243.8 (220.2)	80.7 23.6	271.3 (251.2)	88.0 20.2
Income before income taxes  Imputed income taxes (Note 8)		104.3 33.4		108.1 34.7
Net income MEMO Targeted return on equity (Note 9).		<b>70.9</b> 45.8		<b>73.4</b> 49.9

NOTE. Components may not sum to totals because of rounding. The priced services financial statements consist of these tables and the accompanying notes.

#### (4) REVENUE

Revenue represents charges to depository institutions for priced services and is realized from each institution through one of two methods: direct charges to an institution's account or charges against its accumulated earnings credits.

#### (5) OPERATING EXPENSES

Operating expenses consist of the direct, indirect, and other general administrative expenses of the Reserve Banks for pneed services plus the expenses for staff members of the Board of Governors working directly on the development of priced services. The expenses for Board staff members were \$.85 million in the first three quarters of 1999 and \$0.7 million in the first three quarters of 1998. The credit to expenses under SFAS 87 (see note 2) is reflected in operating expenses.

#### (6) IMPUTED COSTS

Imputed costs consist of interest on float, interest on debt, sales taxes, and the FDIC assessment. Interest on float is derived from the value of float to be recovered, either explicitly or through per-item fees, during the period. Float costs include costs for checks, book-entry securities, noncash collection, ACH, and funds transfers.

Interest is imputed on the debt assumed necessary to finance priced-service assets. The sales taxes and FDIC assessment that the Federal Reserve would have paid had it been a private-sector firm are among the components of the PSAF (see note 3).

Float costs are based on the actual float incurred for each priced service, multiplied by the appropriate federal funds rate. Other imputed costs are allocated among priced services according to the ratio of operating expenses less shipping expenses for all services.

The following list shows the daily average recovery of float (before converting to float costs) by the Reserve Banks for the third quarter of 1999 and 1998 in millions of dollars:

<u>1999</u>	<u>1998</u>
437.1	386.2
(148.5)	19.7
585.6	366.5
44.3	36.6
352.0	240.2
100.2	113.7
89.0	(23.9)
	(148.5) 585.6 44.3 352.0 100.2

Unrecovered float includes float generated by services to government agencies and by other central bank services. Float recovered through income on clearing balances is the result of the increase in investable clearing balances; the increase is produced by a deduction for float for cash items in process of collection, which reduces imputed reserve requirements. The income on clearing balances reduces the float to be recovered through other means. As-of adjustments on clearing balances reduces the float to be recovered through other means. As-of adjustments are memorandum adjustments to an institution's reserve or clearing position to recover float incurred by the institution. Direct charges are billed to the institution for float incurred when an institution chooses to close on a normal business day and for float incurred on interteritory check transportation. Float recovered through direct charges is valued at cost using the federal funds rate and charged directly to an institution's account. Float recovered through per-item fees is valued at the federal funds rate and has been added to the cost base subject to recovery in the second quarters of 1999 and 1998.

#### (7) OTHER INCOME AND EXPENSES

Consists of imputed investment income on clearing balances and the actual cost of earnings Consists of imputed investment income on clearing balances and the actual cost of earlings reedits. Investment income on clearing balances represents the average coupon-equivalent yield on three-month Treasury bills applied to the total clearing balance maintained, adjusted for the effect of reserve requirements on clearing balances. Expenses for earnings credits granted to depository institutions on their clearing balances are derived by applying the average federal funds rate to the required portion of the clearing balances, adjusted for the net effect of reserve requirements on clearing balances.

#### (8) INCOME TAXES

Imputed income taxes are calculated at the effective tax rate derived from the PSAF model (see note 3).

#### (9) RETURN ON EQUITY

Represents the after-tax rate of return on equity that the Federal Reserve would have earned had it been a private business firm, as derived from the PSAF model (see note 3). This amount is adjusted to reflect the recovery of automation consolidation costs of \$.3 million for the third quarter of 1999, \$.2 million for the second quarter of 1999, \$.4 million in the second quarter of 1998, and \$2.6 million for the third quarter of 1998. The Reserve Banks plan to recover these amounts, along with a finance charge, by the end of 1999.

## **Index to Statistical Tables**

References are to pages A3-A65 although the prefix "A" is omitted in this index

```
ACCEPTANCES, bankers (See Bankers acceptances)
                                                                            Federal agency obligations, 5, 9, 10, 11, 28, 29
Assets and liabilities (See also Foreigners)
                                                                            Federal credit agencies, 30
  Commercial banks, 15-21
                                                                            Federal finance
                                                                              Debt subject to statutory limitation, and types and ownership
  Domestic finance companies, 32, 33
                                                                                   of gross debt, 27
  Federal Reserve Banks, 10
  Foreign-related institutions, 20
                                                                              Receipts and outlays, 25, 26
Automobiles
                                                                              Treasury financing of surplus, or deficit, 25
  Consumer credit, 36
                                                                              Treasury operating balance, 25
  Production, 44, 45
                                                                            Federal Financing Bank, 30
                                                                            Federal funds, 23, 25
                                                                            Federal Home Loan Banks, 30
BANKERS acceptances, 5, 10, 22, 23
                                                                            Federal Home Loan Mortgage Corporation, 30, 34, 35
Bankers balances, 15–21. (See also Foreigners)
Bonds (See also U.S. government securities)
                                                                            Federal Housing Administration, 30, 34, 35
                                                                            Federal Land Banks, 35
  New issues, 31
                                                                            Federal National Mortgage Association, 30, 34, 35
  Rates, 23
                                                                            Federal Reserve Banks
Business activity, nonfinancial, 42
                                                                              Condition statement, 10
Business loans (See Commercial and industrial loans)
                                                                              Discount rates (See Interest rates)
                                                                              U.S. government securities held, 5, 10, 11, 27
CAPACITY utilization, 43
                                                                            Federal Reserve credit, 5, 6, 10, 12
                                                                            Federal Reserve notes, 10
Capital accounts
                                                                            Federal Reserve System
  Commercial banks, 15-21
                                                                              Balance sheet for priced services, 64, 65
  Federal Reserve Banks, 10
                                                                              Condition statement for priced services, 64, 65
Certificates of deposit, 23
                                                                            Federally sponsored credit agencies, 30
Commercial and industrial loans
                                                                            Finance companies
  Commercial banks, 15-21
                                                                              Assets and liabilities, 32
  Weekly reporting banks, 17, 18
Commercial banks
                                                                              Business credit, 33
                                                                              Loans, 36
  Assets and liabilities, 15-21
  Commercial and industrial loans, 15-21
                                                                              Paper, 22, 23
                                                                            Float, 5
  Consumer loans held, by type and terms, 36
                                                                            Flow of funds, 37-41
  Real estate mortgages held, by holder and property, 35
                                                                            Foreign currency operations, 10
  Time and savings deposits, 4
Commercial paper, 22, 23, 32
                                                                            Foreign deposits in U.S. banks, 5
                                                                            Foreign exchange rates, 62
Condition statements (See Assets and liabilities)
                                                                            Foreign-related institutions, 20
Construction, 42, 46
                                                                            Foreign trade, 51
Consumer credit, 36
Consumer prices, 42
                                                                            Foreigners
                                                                              Claims on, 52, 55, 56, 57, 59
Consumption expenditures, 48, 49
                                                                              Liabilities to, 51, 52, 53, 58, 60, 61
Corporations
  Profits and their distribution, 32
  Security issues, 31, 61
                                                                            GOLD
Cost of living (See Consumer prices)
Credit unions, 36
                                                                              Certificate account, 10
                                                                              Stock, 5, 51
Currency in circulation, 5, 13
                                                                            Government National Mortgage Association, 30, 34, 35
Customer credit, stock market, 24
                                                                            Gross domestic product, 48, 49
DEBT (See specific types of debt or securities)
                                                                            HOUSING, new and existing units, 46
Demand deposits, 15-21
Depository institutions
  Reserve requirements, 8
                                                                            INCOME and expenses, Federal Reserve System, 64, 65
  Reserves and related items, 4, 5, 6, 12
                                                                            Income, personal and national, 42, 48, 49
Deposits (See also specific types)
                                                                            Industrial production, 42, 44
  Commercial banks, 4, 15-21
                                                                            Insurance companies, 27, 35
  Federal Reserve Banks, 5, 10
                                                                            Interest rates
Discount rates at Reserve Banks and at foreign central banks and
                                                                              Bonds, 23
     foreign countries (See Interest rates)
                                                                              Consumer credit, 36
Discounts and advances by Reserve Banks (See Loans)
                                                                              Federal Reserve Banks, 7
Dividends, corporate, 32
                                                                              Money and capital markets, 23
                                                                              Mortgages, 34
                                                                              Prime rate, 22
EMPLOYMENT, 42
                                                                            International capital transactions of United States, 50-61
Euro, 62
                                                                            International organizations, 52, 53, 55, 58, 59
```

Inventories, 48

Investment companies, issues and assets, 32

FARM mortgage loans, 35

Investments (See also specific types) Commercial banks, 4, 15–21 Federal Reserve Banks, 10, 11 Financial institutions, 35	SAVING Flow of funds, 37–41 National income accounts, 48 Savings institutions, 35, 36, 37–41 Savings deposits ( <i>See</i> Time and savings deposits)
LABOR force, 42 Life insurance companies (See Insurance companies) Loans (See also specific types) Commercial banks, 15–21 Federal Reserve Banks, 5, 6, 7, 10, 11	Securities (See also specific types) Federal and federally sponsored credit agencies, 30 Foreign transactions, 60 New issues, 31 Prices, 24
Federal Reserve System, 64, 65 Financial institutions, 35 Insured or guaranteed by United States, 34, 35	Special drawing rights, 5, 10, 50, 51 State and local governments Holdings of U.S. government securities, 27
MANUFACTURING Capacity utilization, 43 Production, 43, 45	New security issues, 31 Rates on securities, 23 Stock market, selected statistics, 24 Stocks ( <i>See also</i> Securities)
Margin requirements, 24 Member banks, reserve requirements, 8 Mining production, 45 Mobile homes shipped, 46	New issues, 31 Prices, 24 Student Loan Marketing Association, 30
Monetary and credit aggregates, 4, 12 Money and capital market rates, 23 Money stock measures and components, 4, 13	TAX receipts, federal, 26 Thrift institutions, 4. (See also Credit unions and Savings institutions)
Mortgages (See Real estate loans) Mutual funds, 13, 32 Mutual savings banks (See Thrift institutions)	Time and savings deposits, 4, 13, 15–21 Trade, foreign, 51 Treasury cash, Treasury currency, 5 Treasury deposits, 5, 10, 25
NATIONAL defense outlays, 26 National income, 48	Treasury operating balance, 25
OPEN market transactions, 9	UNEMPLOYMENT, 42 U.S. government balances
PERSONAL income, 49 Prices Consumer and producer, 42, 47 Stock market, 24	Commercial bank holdings, 15–21 Treasury deposits at Reserve Banks, 5, 10, 25 U.S. government securities Bank holdings, 15–21, 27
Prime rate, 22 Producer prices, 42, 47 Production, 42, 44 Profits, corporate, 32	Dealer transactions, positions, and financing, 29 Federal Reserve Bank holdings, 5, 10, 11, 27 Foreign and international holdings and transactions, 10, 27, 61
REAL estate loans Banks, 15–21, 35 Terms, yields, and activity, 34	Open market transactions, 9 Outstanding, by type and holder, 27, 28 Rates, 23 U.S. international transactions, 50–62
Type of holder and property mortgaged, 35 Reserves requirements, 8 Reserves	Utilities, production, 45  VETERANS Administration, 34, 35
Commercial banks, 15–21 Depository institutions, 4, 5, 6, 12 Federal Reserve Banks, 10 U.S. reserve assets, 51	WEEKLY reporting banks, 17, 18 Wholesale (producer) prices, 42, 47
Residential mortgage loans, 34, 35 Retail credit and retail sales, 36, 42	YIELDS (See Interest rates)

## Federal Reserve Board of Governors and Official Staff

ALAN GREENSPAN, Chairman ROGER W. FERGUSON, JR., Vice Chairman EDWARD W. KELLEY, JR. LAURENCE H. MEYER

#### OFFICE OF BOARD MEMBERS

LYNN S. Fox, Assistant to the Board
DONALD J. WINN, Assistant to the Board
WINTHROP P. HAMBLEY, Deputy Congressional Liaison
BOB STAHLY MOORE, Special Assistant to the Board
DIANE E. WERNEKE, Special Assistant to the Board

#### LEGAL DIVISION

J. VIRGIL MATTINGLY, JR., General Counsel
SCOTT G. ALVAREZ, Associate General Counsel
RICHARD M. ASHTON, Associate General Counsel
OLIVER IRELAND, Associate General Counsel
KATHLEEN M. O'DAY, Associate General Counsel
KATHLEEN H. WHEATLEY, Assistant General Counsel

#### OFFICE OF THE SECRETARY

JENNIFER J. JOHNSON, Secretary ROBERT DEV. FRIERSON, Associate Secretary BARBARA R. LOWREY, Associate Secretary and Ombudsman

#### DIVISION OF BANKING SUPERVISION AND REGULATION

RICHARD SPILLENKOTHEN, Director STEPHEN C. SCHEMERING, Deputy Director HERBERT A. BIERN, Associate Director ROGER T. COLE, Associate Director WILLIAM A. RYBACK, Associate Director GERALD A. EDWARDS, JR., Deputy Associate Director STEPHEN M. HOFFMAN, JR., Deputy Associate Director JAMES V. HOUPT, Deputy Associate Director JACK P. JENNINGS, Deputy Associate Director MICHAEL G. MARTINSON, Deputy Associate Director SIDNEY M. SUSSAN, Deputy Associate Director MOLLY S. WASSOM, Deputy Associate Director HOWARD A. AMER, Assistant Director NORAH M. BARGER, Assistant Director BETSY CROSS, Assistant Director RICHARD A. SMALL, Assistant Director WILLIAM C. SCHNEIDER, JR., Project Director, National Information Center

#### DIVISION OF INTERNATIONAL FINANCE

KAREN H. JOHNSON, Director
DAVID H. HOWARD, Deputy Director
VINCENT R. REINHART, Deputy Director
THOMAS A. CONNORS, Deputy Director
DALE W. HENDERSON, Associate Director
DONALD B. ADAMS, Senior Adviser
RICHARD T. FREEMAN, Assistant Director
WILLIAM L. HELKIE, Assistant Director
STEVEN B. KAMIN, Assistant Director
RALPH W. TRYON, Assistant Director

#### DIVISION OF RESEARCH AND STATISTICS

MICHAEL J. PRELL, Director EDWARD C. ETTIN, Deputy Director DAVID J. STOCKTON, Deputy Director WILLIAM R. JONES, Associate Director MYRON L. KWAST, Associate Director PATRICK M. PARKINSON, Associate Director THOMAS D. SIMPSON, Associate Director LAWRENCE SLIFMAN, Associate Director MARTHA S. SCANLON, Deputy Associate Director STEPHEN D. OLINER, Assistant Director STEPHEN A. RHOADES, Assistant Director JANICE SHACK-MARQUEZ, Assistant Director CHARLES S. STRUCKMEYER, Assistant Director ALICE PATRICIA WHITE, Assistant Director JOYCE K. ZICKLER, Assistant Director GLENN B. CANNER, Senior Adviser DAVID S. JONES, Senior Adviser

#### **DIVISION OF MONETARY AFFAIRS**

DONALD L. KOHN, Director
DAVID E. LINDSEY, Deputy Director
BRIAN F. MADIGAN, Associate Director
RICHARD D. PORTER, Deputy Associate Director
WILLIAM C. WHITESELL, Assistant Director
NORMAND R.V. BERNARD, Special Assistant to the Board

#### DIVISION OF CONSUMER AND COMMUNITY AFFAIRS

DOLORES S. SMITH, Director
GLENN E. LONEY, Deputy Director
SANDRA F. BRAUNSTEIN, Assistant Director
MAUREEN P. ENGLISH, Assistant Director
ADRIENNE D. HURT, Assistant Director
IRENE SHAWN MCNULTY, Assistant Director

#### EDWARD M. GRAMLICH

### OFFICE OF STAFF DIRECTOR FOR MANAGEMENT STEPHEN R. MALPHRUS, Staff Director

#### MANAGEMENT DIVISION

Stephen J. Clark, Associate Director, Finance Function
Darrell R. Pauley, Associate Director, Human Resources
Function
Sheila Clark, EEO Programs Director

#### **DIVISION OF SUPPORT SERVICES**

ROBERT E. FRAZIER, Director GEORGE M. LOPEZ, Assistant Director DAVID L. WILLIAMS, Assistant Director

#### **DIVISION OF INFORMATION TECHNOLOGY**

RICHARD C. STEVENS, Director
MARIANNE M. EMERSON, Deputy Director
TILLENA G. CLARK, Assistant Director
MAUREEN HANNAN, Assistant Director
PO KYUNG KIM, Assistant Director
RAYMOND H. MASSEY, Assistant Director
EDWARD T. MULRENIN, Assistant Director
DAY W. RADEBAUGH, JR., Assistant Director

## DIVISION OF RESERVE BANK OPERATIONS AND PAYMENT SYSTEMS

LOUISE L. ROSEMAN, Director
PAUL W. BETTGE, Assistant Director
KENNETH D. BUCKLEY, Assistant Director
JACK DENNIS, JR., Assistant Director
JOSEPH H. HAYES, JR., Assistant Director
JEFFREY C. MARQUARDT, Assistant Director
MARSHA REIDHILL, Assistant Director
JEFF STEHM, Assistant Director

#### OFFICE OF THE INSPECTOR GENERAL

BARRY R. SNYDER, Inspector General DONALD L. ROBINSON, Deputy Inspector General

# Federal Open Market Committee and Advisory Councils

#### FEDERAL OPEN MARKET COMMITTEE

#### **MEMBERS**

#### ALAN GREENSPAN, Chairman

WILLIAM J. McDonough, Vice Chairman

J. Alfred Broaddus, Jr. Roger W. Ferguson, Jr. Edward M. Gramlich JACK GUYNN JERRY L. JORDAN EDWARD W. KELLEY, JR. Laurence H. Meyer Robert T. Parry

#### ALTERNATE MEMBERS

THOMAS M. HOENIG CATHY E. MINEHAN

MICHAEL H. MOSKOW WILLIAM POOLE

JAMIE B. STEWART, JR.

#### **STAFF**

DONALD L. KOHN, Secretary and Economist NORMAND R.V. BERNARD, Deputy Secretary LYNN S. FOX, Assistant Secretary GARY P. GILLUM, Assistant Secretary J. VIRGIL MATTINGLY, JR., General Counsel THOMAS C. BAXTER, JR., Deputy General Counsel KAREN H. JOHNSON, Economist MICHAEL J. PRELL, Economist CHRISTINE M. CUMMING, Associate Economist DAVID H. HOWARD, Associate Economist WILLIAM C. HUNTER, Associate Economist RICHARD W. LANG, Associate Economist DAVID E. LINDSEY, Associate Economist ARTHUR J. ROLNICK, Associate Economist HARVEY ROSENBLUM, Associate Economist LAWRENCE SLIFMAN, Associate Economist DAVID J. STOCKTON, Associate Economist

PETER R. FISHER, Manager, System Open Market Account

#### FEDERAL ADVISORY COUNCIL

ROBERT W. GILLESPIE, President KENNETH D. LEWIS, Vice President

LAWRENCE K. FISH, First District DOUGLAS A. WARNER III, Second District RONALD L. HANKEY, Third District ROBERT W. GILLESPIE, Fourth District KENNETH D. LEWIS, Fifth District STEPHEN A. HANSEL, Sixth District NORMAN R. BOBINS, Seventh District KATIE S. WINCHESTER, Eighth District RICHARD A. ZONA, Ninth District C. Q. CHANDLER, Tenth District RICHARD W. EVANS, JR., Eleventh District WALTER A. DODS, JR., Twelfth District

JAMES ANNABLE, Co-Secretary WILLIAM J. KORSVIK, Co-Secretary

#### CONSUMER ADVISORY COUNCIL

YVONNE S. SPARKS STRAUTHER, St. Louis, Missouri, Chairman DWIGHT GOLANN, Boston, Massachusetts, Vice Chairman

LAUREN ANDERSON, New Orleans, Louisiana WALTER J. BOYER, Garland, Texas WAYNE-KENT A. BRADSHAW, Los Angeles, California MALCOLM M. BUSH, Chicago, Illinois MARY ELLEN DOMEIER, New Ulm, Minnesota JEREMY D. EISLER, Biloxi, Mississippi ROBERT F. ELLIOT, Prospect Heights, Illinois JOHN C. GAMBOA, San Francisco, California ROSE M. GARCIA, Las Cruces, New Mexico VINCENT J. GIBLIN, West Caldwell, New Jersey KARLA S. IRVINE, Cincinnati, Ohio WILLIE M. JONES, Boston, Massachusetts JANET C. KOEHLER, Ponte Vedra, Florida GWENN S. KYZER, Allen, Texas

JOHN C. LAMB, Sacramento, California
ANNE S. LI, Trenton, New Jersey
MARTHA W. MILLER, Greensboro, North Carolina
DANIEL W. MORTON, Columbus, Ohio
CAROL J. PARRY, New York, New York
PHILIP PRICE, JR., Philadelphia, Pennsylvania
MARTA RAMOS, San Juan, Puerto Rico
DAVID L. RAMP, St. Paul, Minnesota
MARILYN ROSS, Omaha, Nebraska
ROBERT G. SCHWEMM, Lexington, Kentucky
DAVID J. SHIRK, Eugene, Oregon
GAIL M. SMALL, Lame Deer, Montana
GARY S. WASHINGTON, Chicago, Illinois
ROBERT L. WYNN, II, Madison, Wisconsin

#### THRIFT INSTITUTIONS ADVISORY COUNCIL

WILLIAM A. FITZGERALD, Omaha, Nebraska, President F. WELLER MEYER, Falls Church, Virginia, Vice President

GAROLD R. BASE, Plano, Texas

JAMES C. BLAINE, Raleigh, North Carolina

DAVID A. BOCHNOWSKI, Munster, Indiana

LAWRENCE L. BOUDREAUX III, New Orleans, Louisiana
RICHARD P. COUGHLIN, Stoneham, Massachusetts

BABETTE E. HEIMBUCH, Santa Monica, California THOMAS S. JOHNSON, New York, New York WILLIAM A. LONGBRAKE, Seattle, Washington KATHLEEN E. MARINANGEL, McHenry, Illinois ANTHONY J. POPP, Marietta, Ohio

### Federal Reserve Board Publications

For ordering assistance, write PUBLICATIONS SERVICES, MS-127, Board of Governors of the Federal Reserve System, Washington, DC 20551, or telephone (202) 452-3244, or FAX (202) 728-5886. You may also use the publications order form available on the Board's World Wide Web site (http://www.federalreserve.gov). When a charge is indicated, payment should accompany request and be made payable to the Board of Governors of the Federal Reserve System or may be ordered via Mastercard, Visa, or American Express. Payment from foreign residents should be drawn on a U.S. bank.

#### **BOOKS AND MISCELLANEOUS PUBLICATIONS**

THE FEDERAL RESERVE SYSTEM—PURPOSES AND FUNCTIONS, 1994. 157 pp.

Annual Report, 1998.

Annual Report: Budget Review, 1999.

FEDERAL RESERVE BULLETIN. Monthly. \$25.00 per year or \$2.50 each in the United States, its possessions, Canada, and Mexico. Elsewhere, \$35.00 per year or \$3.00 each.

ANNUAL STATISTICAL DIGEST: period covered, release date, number of pages, and price.

1981	October 1982	239 pp.	\$ 6.50
1982	December 1983	266 pp.	\$ 7.50
1983	October 1984	264 pp.	\$11.50
1984	October 1985	254 pp.	\$12.50
1985	October 1986	231 pp.	\$15.00
1986	November 1987	288 pp.	\$15.00
1987	October 1988	272 pp.	\$15.00
1988	November 1989	256 pp.	\$25.00
198089	March 1991	712 pp.	\$25.00
1990	November 1991	185 pp.	\$25.00
1991	November 1992	215 pp.	\$25.00
1992	December 1993	215 pp.	\$25.00
1993	December 1994	281 pp.	\$25.00
1994	December 1995	190 pp.	\$25.00
1990–95	November 1996	404 pp.	\$25.00

SELECTED INTEREST AND EXCHANGE RATES—WEEKLY SERIES OF CHARTS. Weekly. \$30.00 per year or \$.70 each in the United States, its possessions, Canada, and Mexico. Elsewhere, \$35.00 per year or \$.80 each.

REGULATIONS OF THE BOARD OF GOVERNORS OF THE FEDERAL RESERVE SYSTEM.

Annual Percentage Rate Tables (Truth in Lending—Regulation Z) Vol. I (Regular Transactions). 1969. 100 pp. Vol. II (Irregular Transactions). 1969. 116 pp. Each volume \$5.00.

GUIDE TO THE FLOW OF FUNDS ACCOUNTS. 672 pp. \$8.50 each. FEDERAL RESERVE REGULATORY SERVICE. Loose-leaf; updated monthly. (Requests must be prepaid.)

Consumer and Community Affairs Handbook. \$75.00 per year. Monetary Policy and Reserve Requirements Handbook. \$75.00 per year.

Securities Credit Transactions Handbook. \$75.00 per year. The Payment System Handbook. \$75.00 per year.

Federal Reserve Regulatory Service. Four vols. (Contains all four Handbooks plus substantial additional material.) \$200.00 per year.

Rates for subscribers outside the United States are as follows and include additional air mail costs:

Federal Reserve Regulatory Service, \$250.00 per year. Each Handbook, \$90.00 per year.

FEDERAL RESERVE REGULATORY SERVICE FOR PERSONAL COMPUTERS. CD-ROM; updated monthly.

Standalone PC. \$300 per year.

Network, maximum 1 concurrent user. \$300 per year. Network, maximum 10 concurrent users. \$750 per year.

Network, maximum 50 concurrent users. \$2,000 per year. Network, maximum 100 concurrent users. \$3,000 per year.

Subscribers outside the United States should add \$50 to cover additional airmail costs.

THE FEDERAL RESERVE ACT AND OTHER STATUTORY PROVISIONS AFFECTING THE FEDERAL RESERVE SYSTEM, as amended through October 1998. 723 pp. \$20.00 each.

THE U.S. ECONOMY IN AN INTERDEPENDENT WORLD: A MULTI-COUNTRY MODEL, May 1984. 590 pp. \$14.50 each.

INDUSTRIAL PRODUCTION—1986 EDITION. December 1986. 440 pp. \$9.00 each.

FINANCIAL FUTURES AND OPTIONS IN THE U.S. ECONOMY. December 1986. 264 pp. \$10.00 each.

FINANCIAL SECTORS IN OPEN ECONOMIES: EMPIRICAL ANALYSIS AND POLICY ISSUES. August 1990. 608 pp. \$25.00 each.

RISK MEASUREMENT AND SYSTEMIC RISK: PROCEEDINGS OF A JOINT CENTRAL BANK RESEARCH CONFERENCE. 1996. 578 pp. \$25.00 each.

#### EDUCATION PAMPHLETS

Short pamphlets suitable for classroom use. Multiple copies are available without charge.

Consumer Handbook on Adjustable Rate Mortgages Consumer Handbook to Credit Protection Laws

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

Series on the Structure of the Federal Reserve System

The Board of Governors of the Federal Reserve System

The Federal Open Market Committee

Federal Reserve Bank Board of Directors

Federal Reserve Banks

A Consumer's Guide to Mortgage Lock-Ins

A Consumer's Guide to Mortgage Settlement Costs

A Consumer's Guide to Mortgage Refinancings

Home Mortgages: Understanding the Process and Your Right to Fair Lending

How to File a Consumer Complaint about a Bank

Making Sense of Savings

SHOP: The Card You Pick Can Save You Money

Welcome to the Federal Reserve

When Your Home is on the Line: What You Should Know About Home Equity Lines of Credit

Keys to Vehicle Leasing

Looking for the Best Mortgage

## STAFF STUDIES: Only Summaries Printed in the BULLETIN

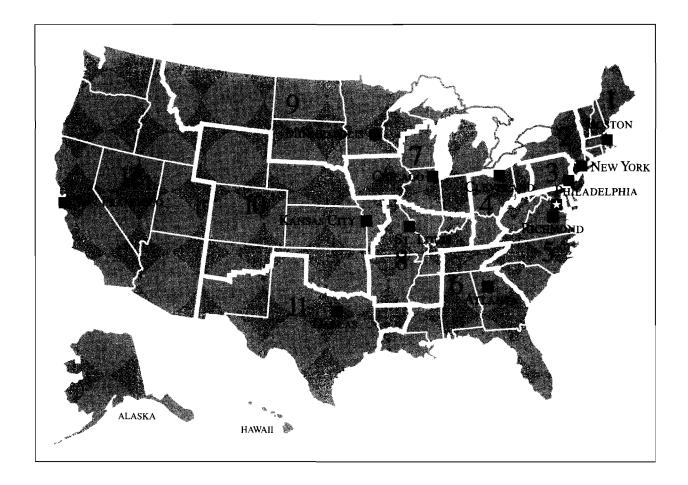
Studies and papers on economic and financial subjects that are of general interest. Requests to obtain single copies of the full text or to be added to the mailing list for the series may be sent to Publications Services.

Staff Studies 1-158, 161, 163, 165, 166, 168, and 169 are out of print.

- 159. New Data on the Performance of Nonbank Subsidiaries of Bank Holding Companies, by Nellie Liang and Donald Savage. February 1990. 12 pp.
- 160. Banking Markets and the Use of Financial Services by Small and Medium-Sized Businesses, by Gregory E. Elliehausen and John D. Wolken. September 1990. 35 pp.

- 162. EVIDENCE ON THE SIZE OF BANKING MARKETS FROM MORT-GAGE LOAN RATES IN TWENTY CITIES, by Stephen A. Rhoades. February 1992. 11 pp.
- 164. THE 1989–92 CREDIT CRUNCH FOR REAL ESTATE, by James T. Fergus and John L. Goodman, Jr. July 1993. 20 pp.
- 167. A Summary of Merger Performance Studies in Banking, 1980–93, and an Assessment of the "Operating Performance" and "Event Study" Methodologies, by Stephen A. Rhoades. July 1994. 37 pp.
- 170. THE COST OF IMPLEMENTING CONSUMER FINANCIAL REGULATIONS: AN ANALYSIS OF EXPERIENCE WITH THE TRUTH IN SAVINGS ACT, by Gregory Elliehausen and Barbara R. Lowrey, December 1997. 17 pp.
- 171. THE COST OF BANK REGULATION: A REVIEW OF THE EVIDENCE, by Gregory Elliehausen, April 1998. 35 pp.

## Maps of the Federal Reserve System



#### LEGEND

#### Both pages

- Federal Reserve Bank city
- Board of Governors of the Federal Reserve System, Washington, D.C.

#### Note

The Federal Reserve officially identifies Districts by number and Reserve Bank city (shown on both pages) and by letter (shown on the facing page).

In the 12th District, the Seattle Branch serves Alaska, and the San Francisco Bank serves Hawaii.

The System serves commonwealths and territories as follows: the New York Bank serves the Commonwealth

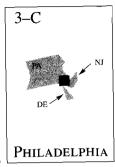
#### Facing page

- Federal Reserve Branch city
- Branch boundary

of Puerto Rico and the U.S. Virgin Islands; the San Francisco Bank serves American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands. The Board of Governors revised the branch boundaries of the System most recently in February 1996.



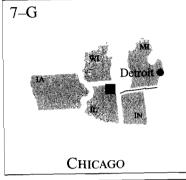


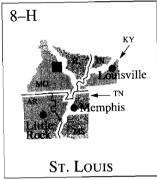


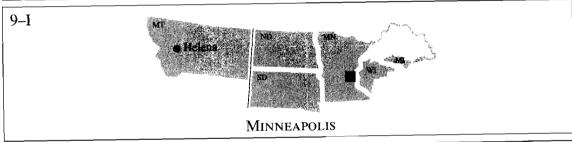


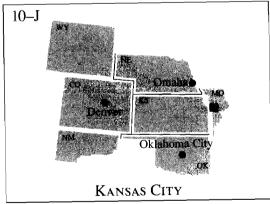


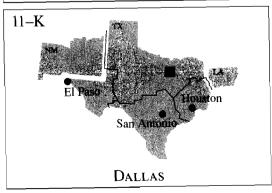


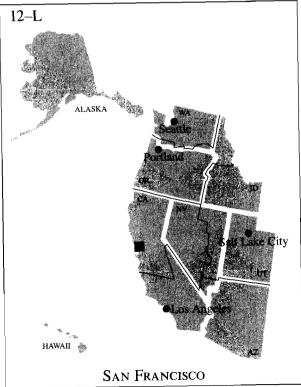












## Federal Reserve Banks, Branches, and Offices

FEDERAL RESERVE BANK branch, or <i>facility</i> Zip	Chairman Deputy Chairman	President Pirst Vice President	Vice President in charge of branch
BOSTON* 02106	William C. Brainard William O. Taylor	Cathy E. Minehan Paul M. Connolly	
NEW YORK* 10045  Buffalo	Peter G. Peterson Charles A. Heimbold, Jr. Bal Dixit	William J. McDonough Jamie B. Stewart, Jr.	Carl W. Turnipseed <sup>1</sup>
PHILADELPHIA 19105	Joan Carter	Edward G. Boehne	cuir W. Turmpseed
11112112021111117103	Charisse R. Lillie	William H. Stone, Jr.	
CLEVELAND* 44101	David H. Hoag To be announced	Jerry L. Jordan Sandra Pianalto	
Cincinnati         45201           Pittsburgh         15230	George C. Juilfs John T. Ryan, III		Barbara B.Henshaw Robert B. Schaub
RICHMOND*23219	Jeremiah J. Sheehan Wesley S. Williams, Jr.	J. Alfred Broaddus, Jr. Walter A. Varvel	
Baltimore         21203           Charlotte         28230	To be announced To be announced		William J. Tignanelli <sup>1</sup> Dan M. Bechter <sup>1</sup>
ATLANTA 30303	John F. Wieland Paula Lovell	Jack Guynn Patrick K. Barron	James M. McKee
Birmingham       35283         Jacksonville       32231         Miami       33152         Nashville       37203         New Orleans       70161	To be announced	rudick ix. Duron	Andre T. Anderson Robert J. Slack James T. Curry III Melvyn K. Purcell <sup>1</sup> Robert J. Musso <sup>1</sup>
CHICAGO*	Arthur C. Martinez Robert J. Darnall Timothy D. Leuliette	Michael H. Moskow William C. Conrad	David R. Allardice¹
ST. LOUIS63166	Susan S. Elliott	William Poole	
Little Rock         72203           Louisville         40232           Memphis         38101	Charles W. Mueller To be announced To be announced To be announced	W. LeGrande Rives	Robert A. Hopkins Thomas A. Boone Martha Perine Beard
MINNEAPOLIS 55480 Helena 59601	James J. Howard Ronald N. Zwieg William P. Underriner	Gary H. Stern Colleen K. Strand	Samuel H. Gane
KANSAS CITY 64198	Jo Marie Dancik	Thomas M. Hoenig	Samuel II. Galle
Denver	Terrence P. Dunn Kathryn A. Paul Larry W. Brummett Gladys Styles Johnston	Richard K. Rasdall	Carl M. Gambs <sup>1</sup> Kelly J. Dubbert Steven D. Evans
DALLAS	Roger R. Hemminghaus H. B. Zachry, Jr.	Robert D. McTeer, Jr. Helen E. Holcomb	5,67,67,27,27,41,0
El Paso       79999         Houston       77252         San Antonio       78295	To be announced To be announced To be announced	neich L. Holcomb	Sammie C. Clay Robert Smith, III <sup>1</sup> James L. Stull <sup>1</sup>
SAN FRANCISCO 94120	Gary G. Michael	Robert T. Parry	
Los Angeles       90051         Portland       97208         Salt Lake City       84125         Seattle       98124	Nelson C. Rising Lonnie Kane Nancy Wilgenbusch Barbara L. Wilson Richard R. Sonstelie	John F. Moore	Mark L. Mullinix <sup>1</sup> Raymond H. Laurence <sup>1</sup> Andrea P. Wolcott Gordon R. G. Werkema <sup>2</sup>

<sup>\*</sup>Additional offices of these Banks are located at Windsor Locks, Connecticut 06096; East Rutherford, New Jersey 07016; Utica at Oriskany, New York 13424; Columbus, Ohio 43216; Columbia, South Carolina 29210; Charleston, West Virginia 25311; Des Moines, Iowa 50306; Indianapolis, Indiana 46204; Milwaukee, Wisconsin 53202; and Peoria, Illinois 61607.

Senior Vice President.
 Executive Vice President