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FEDERAL RESERVE statistical release



Z.1

Flow of Funds Accounts of the United States

*Flows and Outstandings
Third Quarter 1998*

Flow of Funds Summary Statistics Third Quarter 1998

Debt of domestic nonfinancial sectors continued to expand at about a 6 percent seasonally adjusted annual rate in the third quarter of 1998. Federal government debt contracted further, while debt of nonfederal sectors again expanded briskly.

Household debt rose at a 8-1/4 percent rate in the third quarter, paced by continued strength in home mortgage borrowing and a pickup in growth of consumer credit.* Debt of nonfinancial businesses accelerated to a 10-1/2 percent rate, the fastest pace in a decade, as a decline in net issuance of corporate bonds was more than offset by increased issuance of commercial paper and borrowing from commercial banks and other financial intermediaries. Businesses also boosted their commercial mortgage borrowing in the third quarter. Growth of debt of state and local governments edged down in the third quarter but remained strong, reflecting in part continued

refunding of higher-cost debt in advance of retirement dates and increased borrowing for capital improvements.

The level of domestic nonfinancial debt outstanding was \$15.9 trillion at the end of the third quarter. Debt of the nonfederal sectors was \$12.2 trillion, and federal debt was \$3.7 trillion.

Figures on the growth and level of debt are found in tables D.1 through D.3. Tables that show financial flows, amounts outstanding, and selected sector balance sheets are included in the remaining pages of this release.

*This release reflects revisions to consumer credit in 1998:Q3 received since publication of the Board's G.19 release for October 1998.

Growth of Domestic Nonfinancial Debt¹

Percentage changes; quarterly data are seasonally adjusted annual rates

| | Total | Federal | Nonfederal | | | |
|---------|-------|---------|------------|------------|----------|------------------------|
| | | | Total | Households | Business | State and local govts. |
| 1991 | 4.3 | 11.1 | 2.3 | 4.7 | -1.7 | 8.6 |
| 1992 | 4.6 | 10.9 | 2.6 | 4.3 | .8 | 2.2 |
| 1993 | 5.0 | 8.3 | 3.8 | 5.3 | 1.6 | 6.0 |
| 1994 | 4.6 | 4.7 | 4.6 | 7.5 | 4.0 | -4.0 |
| 1995 | 5.4 | 4.1 | 5.8 | 7.7 | 6.7 | -4.6 |
| 1996 | 5.3 | 4.0 | 5.8 | 7.7 | 5.2 | -.6 |
| 1997 | 5.3 | .6 | 7.0 | 6.9 | 7.5 | 5.3 |
| 1997:Q1 | 4.7 | 1.7 | 5.7 | 6.5 | 5.8 | 1.6 |
| :Q2 | 4.2 | -1.1 | 6.1 | 6.3 | 6.4 | 4.0 |
| :Q3 | 5.6 | .8 | 7.3 | 6.8 | 7.9 | 6.7 |
| :Q4 | 6.4 | 1.1 | 8.2 | 7.3 | 9.1 | 8.4 |
| 1998:Q1 | 6.1 | -.8 | 8.3 | 7.9 | 8.8 | 8.4 |
| :Q2 | 6.1 | -1.9 | 8.7 | 8.4 | 9.4 | 6.9 |
| :Q3 | 5.9 | -3.6 | 9.0 | 8.3 | 10.4 | 6.3 |

1. Changes shown are on an end-of-period basis and may differ from month-average data in the H.6 release.

Table of Contents

| <i>Title</i> | <i>Table</i> | <i>Page</i> |
|--|--------------|-------------|
| Flow of Funds Accounts, Third Quarter 1998 | | 1 |
| Availability of Data for Latest Quarter | | 3 |
| Debt Growth by Sector | D.1 | 6 |
| Borrowing by Sector | D.2 | 7 |
| Debt Outstanding by Sector | D.3 | 8 |

| <i>Title</i> | <i>Flows</i> | | <i>Levels</i> | |
|--|--------------|-------------|---------------|-------------|
| | <i>Table</i> | <i>Page</i> | <i>Table</i> | <i>Page</i> |
| Summaries | | | | |
| Total Net Borrowing and Lending in Credit Markets | F.1 | 9 | L.1 | 58 |
| Credit Market Borrowing by Nonfinancial Sectors | F.2 | 10 | L.2 | 59 |
| Credit Market Borrowing by Financial Sectors | F.3 | 10 | L.3 | 59 |
| Credit Market Borrowing, All Sectors, by Instrument | F.4 | 11 | L.4 | 60 |
| Total Liabilities and Their Relation to Total Financial Assets | F.5 | 11 | L.5 | 60 |
| Distribution of Gross Domestic Product | F.6 | 12 | | |
| Distribution of National Income | F.7 | 13 | | |
| Gross Saving and Investment | F.8 | 14 | | |
| Derivation of Measures of Personal Saving | F.9 | 15 | L.9 | 61 |

| <i>Title</i> | <i>Flows</i> | | <i>Levels</i> | |
|--|--------------|-------------|---------------|-------------|
| | <i>Table</i> | <i>Page</i> | <i>Table</i> | <i>Page</i> |
| Sectors | | | | |
| Households and Nonprofit Organizations | F.100 | 16 | L.100 | 62 |
| Nonfinancial Business | F.101 | 17 | L.101 | 63 |
| Nonfarm Nonfinancial Corporate Business | F.102 | 18 | L.102 | 64 |
| Nonfarm Noncorporate Business | F.103 | 19 | L.103 | 65 |
| Farm Business | F.104 | 19 | L.104 | 65 |
| State and Local Governments | F.105 | 20 | L.105 | 66 |
| Federal Government | F.106 | 21 | L.106 | 66 |
| Rest of the World | F.107 | 22 | L.107 | 67 |
| Monetary Authority | F.108 | 23 | L.108 | 68 |
| Commercial Banking | F.109 | 24 | L.109 | 69 |
| U.S.-Chartered Commercial Banks | F.110 | 25 | L.110 | 70 |
| Foreign Banking Offices in U.S. | F.111 | 26 | L.111 | 71 |
| Bank Holding Companies | F.112 | 27 | L.112 | 72 |
| Banks in U.S.-Affiliated Areas | F.113 | 27 | L.113 | 72 |
| Savings Institutions | F.114 | 28 | L.114 | 73 |
| Credit Unions | F.115 | 29 | L.115 | 74 |
| Bank Personal Trusts and Estates | F.116 | 29 | L.116 | 74 |
| Life Insurance Companies | F.117 | 30 | L.117 | 75 |
| Other Insurance Companies | F.118 | 30 | L.118 | 75 |
| Private Pension Funds | F.119 | 31 | L.119 | 76 |
| State and Local Government Employee Retirement Funds | F.120 | 31 | L.120 | 76 |
| Money Market Mutual Funds | F.121 | 32 | L.121 | 77 |

| <i>Title</i> | <i>Flows</i> | | <i>Levels</i> | |
|------------------------------------|--------------|-------------|---------------|-------------|
| | <i>Table</i> | <i>Page</i> | <i>Table</i> | <i>Page</i> |
| Mutual Funds | F.122 | 32 | L.122 | 77 |
| Closed-End Funds | F.123 | 32 | L.123 | 77 |
| Government-Sponsored Enterprises | F.124 | 33 | L.124 | 78 |
| Federally Related Mortgage Pools | F.125 | 33 | L.125 | 78 |
| Issuers of Asset-Backed Securities | F.126 | 34 | L.126 | 79 |
| Finance Companies | F.127 | 34 | L.127 | 79 |
| Mortgage Companies | F.128 | 35 | L.128 | 80 |
| Real Estate Investment Trusts | F.129 | 35 | L.129 | 80 |
| Security Brokers and Dealers | F.130 | 36 | L.130 | 81 |
| Funding Corporations | F.131 | 36 | L.131 | 81 |

Instruments

| | | | | |
|--|-------|----|-------|----|
| Gold and Official Foreign Exchange Holdings | F.200 | 37 | L.200 | 82 |
| SDR Certificates and Treasury Currency | F.201 | 37 | L.201 | 82 |
| U.S. Deposits in Foreign Countries | F.202 | 37 | L.202 | 82 |
| Net Interbank Transactions | F.203 | 38 | L.203 | 83 |
| Checkable Deposits and Currency | F.204 | 39 | L.204 | 84 |
| Time and Savings Deposits | F.205 | 40 | L.205 | 85 |
| Money Market Mutual Fund Shares | F.206 | 40 | L.206 | 85 |
| Federal Funds and Security Repurchase Agreements | F.207 | 41 | L.207 | 86 |
| Open Market Paper | F.208 | 41 | L.208 | 86 |
| Treasury Securities | F.209 | 42 | L.209 | 87 |

| <i>Title</i> | <i>Flows</i> | | <i>Levels</i> | |
|---|--------------|-------------|---------------|-------------|
| | <i>Table</i> | <i>Page</i> | <i>Table</i> | <i>Page</i> |
| Agency Securities | F.210 | 43 | L.210 | 88 |
| Municipal Securities and Loans | F.211 | 44 | L.211 | 89 |
| Corporate and Foreign Bonds | F.212 | 44 | L.212 | 89 |
| Corporate Equities | F.213 | 45 | L.213 | 90 |
| Mutual Fund Shares | F.214 | 45 | L.214 | 90 |
| Bank Loans Not Elsewhere Classified | F.215 | 46 | L.215 | 91 |
| Other Loans and Advances | F.216 | 47 | L.216 | 92 |
| Total Mortgages | F.217 | 48 | L.217 | 93 |
| Home Mortgages | F.218 | 49 | L.218 | 94 |
| Multifamily Residential Mortgages | F.219 | 49 | L.219 | 94 |
| Commercial Mortgages | F.220 | 50 | L.220 | 95 |
| Farm Mortgages | F.221 | 50 | L.221 | 95 |
| Consumer Credit | F.222 | 51 | L.222 | 96 |
| Trade Credit | F.223 | 51 | L.223 | 96 |
| Security Credit | F.224 | 51 | L.224 | 96 |
| Life Insurance and Pension Fund Reserves | F.225 | 52 | L.225 | 97 |
| Taxes Payable by Businesses | F.226 | 52 | L.226 | 97 |
| Investment in Bank Personal Trusts | F.227 | 52 | L.227 | 97 |
| Proprietors' Equity in Noncorporate Business | F.228 | 52 | | |
| Total Miscellaneous Financial Claims | F.229 | 53 | L.229 | 98 |
| Identified Miscellaneous Financial Claims - Part I | F.230 | 54 | L.230 | 99 |
| Identified Miscellaneous Financial Claims - Part II | F.231 | 55 | L.231 | 100 |
| Unidentified Miscellaneous Financial Claims | F.232 | 56 | L.232 | 101 |
| Sector Discrepancies | F.10 | 57 | | |
| Instrument Discrepancies | F.11 | 57 | | |

| <i>Title</i> | <i>Balance Sheet</i> | | <i>Reconciliation</i> | |
|--|----------------------|-------------|-----------------------|-------------|
| | <i>Table</i> | <i>Page</i> | <i>Table</i> | <i>Page</i> |
| Balance Sheet and Reconciliation Tables | | | | |
| Households and Nonprofit Organizations | B.100 | 102 | R.100 | 104 |
| Nonfarm Nonfinancial Corporate Business | B.102 | 103 | R.102 | 105 |

| <i>Title</i> | <i>Flows</i> | | <i>Levels</i> | |
|---|--------------|-------------|---------------|-------------|
| | <i>Table</i> | <i>Page</i> | <i>Table</i> | <i>Page</i> |
| Supplementary Tables | | | | |
| Nonprofit Organizations | F.100.a | 106 | L.100.a | 107 |
| Private Pension Funds: Defined Benefit Plans | F.119.b | 108 | L.119.b | 110 |
| Private Pension Funds: Defined Contribution Plans | F.119.c | 109 | L.119.c | 111 |
| Flow of Funds Matrix for 1997 | | 112 | | 113 |
| Balance Sheet of Households and Nonprofit Organizations with Equity Detail | | | B.100.e | 114 |

Flow of Funds Accounts, Third Quarter 1998

This publication presents the flow of funds accounts for 1998:Q3.

Data revisions and other changes. The statistics shown in these tables reflect use of new or revised source data. Most significant revisions appear in recent quarters; however, new source information resulted in changes to data for earlier periods. A revision to the bank Reports of Condition indicated that a larger volume of consumer credit was securitized by banks in the third quarter than had been reported in the Federal Reserve Board's G.19 release for October, published December 7, 1998.

In this release the estimates for nonprofit organizations (supplementary tables F.100.a and L.100.a) reflect newly available data from the Internal Revenue Service's *Statistics of Income* for 1995.

Explanatory notes for tables D.1, D.2, and D.3. Domestic debt comprises credit market funds borrowed by U.S. entities from both domestic and foreign sources, while foreign debt represents amounts borrowed by foreign financial and nonfinancial entities in U.S. markets only. Financial sectors consist of government-sponsored enterprises, federally related mortgage pools, and private financial institutions. Credit market debt consists of debt securities, mortgages, bank loans, commercial paper, consumer credit, U.S. government loans, and other loans and advances; it excludes trade debt, loans for the purpose of carrying securities, and funds raised from equity sources.

Growth rates in table D.1 are calculated by dividing seasonally adjusted flows from table D.2 by seasonally adjusted levels at the end of the previous period from table D.3. Seasonally adjusted levels in flow of funds statistics are derived by carrying forward year-end levels by seasonally adjusted flows. Growth rates calculated from changes in unadjusted levels printed in table L.2 can differ from those in table D.1.

Relation of Flows to Outstandings. Estimates of financial assets and liabilities outstanding are linked

to data on flows. However, figures on outstandings contain discontinuities or breaks in series that could affect analysis of particular relationships over time. Specifically, outstandings in the flow of funds accounts are related to the flows in the following way:

$$\text{Outstanding}_t = \text{Outstanding}_{t-1} + \text{Flow}_t + \text{Discontinuity}_t$$

where "t" is the time period.

Discontinuities result from changes in valuation, breaks in source data, and changes in definitions. For most series, the value of the discontinuity is zero for nearly all time periods. However, in a few instances, the discontinuity is nonzero for almost all time periods, or is quite large in a particular quarter, such as a period when there is a sharp increase or decrease in equity prices or a major break in source data.

The discontinuities in a series can distort estimated rates of growth in assets and liabilities between periods. In order to minimize these distortions, percentage changes in assets and liabilities in flow of funds releases should be calculated in the following manner:

$$\text{Percentage change}_t = (\text{Flow}_t / \text{Outstanding}_{t-1}) * 100$$

Preliminary Estimates. Figures shown for the most recent quarter in these tables are based on preliminary and incomplete information. A summary list of the principal sources of information available when the latest quarter's data were compiled is provided in a table following this introduction. The distinction between "available" data and "missing" data is not between final and preliminary versions of data, but rather between those source estimates that are fully ready when the latest quarterly publication is compiled and those that are not yet completed. However, the items that are shown as available are, in general, also preliminary in the sense that they are subject to revision by source agencies.

Margins of Uncertainty. Flow of funds statistics are subject to uncertainties resulting from measurement errors in source data, incompatibilities among data from different sources, potential revisions in both

financial and nonfinancial series, and incomplete data in parts of the accounts. The size of these uncertainties cannot be quantified in precise statistical terms, but allowance for them is explicitly made throughout the accounts by the inclusion of "discrepancies" for various sectors and instrument types. A discrepancy for a sector is the difference between its measured sources of funds and its measured uses of funds. For an instrument category, a discrepancy is the difference between measured funds borrowed through the financial instrument and measured funds lent through that instrument. The size of such discrepancies relative to the main asset or liability components is one indication of the quality of source data, especially on an annual basis. For quarterly data, differences in seasonal adjustment procedures for financial and nonfinancial components of the accounts sometimes result in discrepancies that cancel in annual data.

Availability of Data. Flow of funds statistics are updated about nine weeks following the end of a quarter. This publication--the Z.1 release--is available from the Board's Publications Services. Flow of funds data are also available electronically through the Internet at the following location:

<http://www.federalreserve.gov/releases/Z1>

and through the Economic Bulletin Board of the Department of Commerce.

Data from the flow of funds accounts are also available on 3-1/2 inch diskettes. The diskettes contain quarterly data beginning in 1952, organized in files that correspond to the tables published in this release. One diskette contains the seasonally adjusted flows, a second diskette contains unadjusted flows, and a third diskette contains quarterly outstandings, which are not seasonally adjusted. In addition, the third diskette contains quarterly data for the debt tables (tables D.1, D.2, and D.3) and available balance sheet tables and supplemental tables, as well as monthly data from January 1955 onward for the monthly debt aggregate published in the Board's H.6 statistical release, "Money Stock, Liquid Assets, and Debt Measures."

Subscription Information. The Federal Reserve Board charges for subscriptions to all statistical releases. Inquiries for releases or the diskettes should be directed to:

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of the Federal Reserve System
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Washington, DC 20551
(202) 452-3244

A Guide to the Flow of Funds Accounts is available. The 670-page *Guide* explains in detail how the U.S. financial accounts are prepared and the principles underlying the accounts.

Availability of Data for Latest Quarter

| | <u>Available at time of publication</u> | <u>Major items missing</u> |
|---|---|---|
| 1. National income and product accounts (NIPA) | Preliminary estimates, seasonally adjusted, for 1998:Q3; unadjusted flows through 1997. | Unadjusted flows since 1997. |
| 2. Household sector (tables F.100 and L.100) | Estimates for this sector are largely residual and derived from data for other sectors. Availability of data depends on schedules for other sectors. Data for consumer credit, which are estimated directly, are available through 1998:Q3. | |
| 3. Nonfarm nonfinancial corporate business (tables F.102 and L.102) | <i>Quarterly Financial Report</i> (QFR) of the Census Bureau through 1998:Q2; Internal Revenue Service <i>Statistics of Income</i> data through 1995; securities offerings, mortgages, bank loans, commercial paper, and other loans through 1998:Q3. | <i>Statistics of Income</i> data since 1995; QFR data for 1998:Q3. |
| 4. Nonfarm noncorporate business (tables F.103 and L.103) | Internal Revenue Service <i>Statistics of Income</i> data through 1995; bank and finance company loans and mortgage borrowing through 1998:Q3. | <i>Statistics of Income</i> data since 1995. |
| 5. Farm business (tables F.104 and L.104) | Mortgages, bank loans, loans from government-sponsored enterprises, U.S. government loans to farms, and equity in government-sponsored enterprises through 1998:Q3; checkable deposits and currency and trade payables through 1997. | Data for consumption of fixed capital and undistributed profits since 1997. |

| | | |
|---|---|---|
| 6. State and local governments (tables F.105 and L.105) | Gross offerings and retirements of municipal securities, deposits at banks, holdings of mortgages and nonmarketable U.S. government securities issues through 1998:Q3; selected financial assets through 1997:Q2 from the <i>Comprehensive Annual Financial Reports</i> of state and local governments that account for most of the holdings of the sector, and data from Standard & Poor's on local government investment pools. | Selected financial asset items since 1997:Q2. |
| 7. Federal government (tables F.106 and L.106) | Data from the <i>Monthly Treasury Statement of Receipts and Outlays</i> through 1998:Q3; data from the Federal Financing Bank through 1998:Q3; Treasury data for loan programs through 1998:Q3. | None. |
| 8. Rest of the world (U.S. international transactions) (tables F.107 and L.107) | Balance of payments data through 1998:Q3; NIPA estimates, data from bank Reports of Condition and Treasury International Capital System data through 1998:Q3. | None. |
| 9. Monetary authority (tables F.108 and L.108) | All data through 1998:Q3. | None. |
| 10. Commercial banking (tables F.109 and L.109) | All data through 1998:Q3 for U.S.-chartered banks, foreign banking offices in the U.S., bank holding companies, and commercial banks in U.S.-affiliated areas. | Data since 1997 for branches of domestic commercial banks located in U.S.-affiliated areas. |
| 11. Savings institutions (tables F.114 and L.114) | All data through 1998:Q3. | None. |
| 12. Credit unions (tables F.115 and L.115) | All data through 1998:Q3. | None. |
| 13. Bank personal trusts and estates (tables F.116 and L.116) | All data through 1997. | Data since 1997:Q4. |
| 14. Life insurance companies (tables F.117 and L.117) | All data through 1998:Q2. Preliminary data for 1998:Q3. | Final data for 1998:Q3. |
| 15. Other insurance companies (tables F.118 and L.118) | All data through 1998:Q2. Preliminary data for 1998:Q3. | Final data for 1998:Q3. |

| | | |
|--|--|--|
| 16. Private pension funds (including FERS Thrift Savings Plan) (tables F. 119 and L.119) | Quarterly data through 1998:Q3; Internal Revenue Service/ Department of Labor/Pension Benefit Guaranty Corporation Form 5500 data through 1994. | Form 5500 data since 1994. |
| 17. State and local government employee retirement funds (tables F.120 and L.120) | All data through 1998:Q2. | Data for 1998:Q3. |
| 18. Money market mutual funds (tables F.121 and L.121) | All data through 1998:Q3. | None. |
| 19. Mutual funds (tables F.122 and L.122) | All data through 1998:Q3. | None. |
| 20. Closed-end funds (tables F.123 and L.123) | All data through 1997. | Data since 1997. |
| 21. Government-sponsored enterprises (tables F.124 and L.124) | Balance sheet data for FHLBs, Fannie Mae, Freddie Mac, Sallie Mae, FCS, FICO, and REFCORP through 1998:Q3. | None. |
| 22. Federally related mortgage pools (tables F.125 and L.125) | All data through 1998:Q3. | None. |
| 23. Issuers of asset-backed securities (ABSs) (tables F.126 and L.126) | All data from Trepp/PSA Information Services of the Muller Data Corporation and data for private mortgage pools, consumer credit, business loans, student loans, consumer leases, and trade credit securitization through 1998:Q3. | None. |
| 24. Finance companies (tables F.127 and L.127) | All data through 1998:Q3. | None. |
| 25. Mortgage companies (tables F.128 and L.128) | Mortgage data through 1997:Q4. | Data since 1997:Q4. |
| 26. Real estate investment trusts (REITs) (tables F.129 and L.129) | Data through 1997:Q3; equity and unsecured debt issuance through 1998:Q3. | Data since 1997:Q3. |
| 27. Security brokers and dealers (tables F.130 and L.130) | Data for firms filing FOCUS reports through 1998:Q2; data for firms filing FOGS reports through 1998:Q1. | Data for firms filing FOCUS reports for 1998:Q3; data for firms filing FOGS since 1998:Q1. |
| 28. Funding corporations (tables F.131 and L.131) | Estimates for this sector are largely residual and derived from data for other sectors. | |