

*For use at 12:00 p.m., eastern time  
Monday  
September 16, 2002*

---

**FEDERAL RESERVE** statistical release

---



*Z.1*

# *Flow of Funds Accounts of the United States*

*Flows and Outstandings  
Second Quarter 2002*

## Flow of Funds Summary Statistics Second Quarter 2002

Domestic nonfinancial debt rose at a seasonally adjusted annual rate of 7-3/4 percent in the second quarter of 2002, substantially faster than in the first quarter. Much of the increase reflected a surge in federal government borrowing. State and local government borrowing was also up sharply in the second quarter, with sizable increases in new debt for capital projects and for advance refundings of existing debt.

Growth of household debt remained rapid in the second quarter, paced by another jump in mortgage debt. Growth of nonfinancial business debt moved up in the second quarter, although it remained well below the increases in recent years. The rise in

business borrowing last quarter reflected a pickup in commercial mortgages and a noticeably smaller contraction in commercial paper. By contrast, bank loans to businesses posted a steep decline in the second quarter, and net issuance of corporate bonds eased slightly. With share retirements down sharply from earlier quarters, nonfinancial firms partially offset the weakness in credit market borrowing with a rise in net equity issuance.

The level of domestic nonfinancial debt outstanding was \$20.0 trillion at the end of the second quarter of 2002. Debt of nonfederal sectors was \$16.5 trillion, and federal debt was \$3.5 trillion.

### Growth of Domestic Nonfinancial Debt<sup>1</sup>

Percentage changes; quarterly data are seasonally adjusted annual rates

	Total	Federal	Nonfederal			
			Total	Households	Business	State and local govts.
1992	4.6	10.9	2.6	5.3	-0.2	2.2
1993	4.9	8.3	3.7	6.1	0.4	6.0
1994	4.5	4.7	4.5	7.4	3.8	-4.0
1995	5.4	4.1	5.9	7.4	7.2	-4.6
1996	5.3	4.0	5.8	7.0	6.2	-0.6
1997	5.6	0.6	7.3	6.4	9.0	5.3
1998	6.8	-1.4	9.6	8.2	11.8	7.2
1999	6.6	-1.9	9.1	8.3	11.1	4.4
2000	4.9	-8.0	8.4	8.3	9.9	2.2
2001	6.1	-0.2	7.5	8.6	6.1	8.1
2001:Q1	5.0	-1.8	6.6	7.2	5.7	7.5
:Q2	5.5	-6.4	8.2	9.0	7.3	7.9
:Q3	6.8	6.3	6.9	9.0	5.2	4.3
:Q4	6.4	1.3	7.5	8.3	5.7	11.7
2002:Q1	4.8	1.2	5.6	9.2	1.9	4.5
:Q2	7.8	13.3	6.7	9.0	2.9	12.4

1. Changes shown are on an end-of-period basis.



## Table of Contents

<i>Title</i>	<i>Table</i>	<i>Page</i>
Flow of Funds Accounts, Second Quarter 2002		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>
<b>Summaries</b>				
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 Its 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		
Net Capital Transfers	F.9	14		
Derivation of Measures of Personal Saving	F.10	15	L.10	61

<i>Title</i>	<i>Flows</i>		<i>Levels</i>	
	<i>Table</i>	<i>Page</i>	<i>Table</i>	<i>Page</i>
<b>Sectors</b>				
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 and Exchange-Traded 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
<b>Instruments</b>				
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.11	57		
Instrument Discrepancies	F.12	57		

<i>Title</i>	<i>Balance Sheet</i>		<i>Reconciliation</i>	
	<i>Table</i>	<i>Page</i>	<i>Table</i>	<i>Page</i>
<b>Balance Sheet and Reconciliation Tables</b>				
Households and Nonprofit Organizations	B.100	102	R.100	105
Nonfarm Nonfinancial Corporate Business	B.102	103	R.102	106
Nonfarm Noncorporate Business	B.103	104	R.103	107

<i>Title</i>	<i>Flows</i>		<i>Levels</i>	
	<i>Table</i>	<i>Page</i>	<i>Table</i>	<i>Page</i>
<b>Supplementary Tables</b>				
Nonprofit Organizations	F.100.a	108	L.100.a	109
Consolidated Statement for Federal, State, and Local Governments	F.106.c	110	L.106.c	111
Private Pension Funds: Defined Benefit Plans	F.119.b	112	L.119.b	113
Private Pension Funds: Defined Contribution Plans	F.119.c	112	L.119.c	113
Individual Retirement Accounts (IRAs)	F.225.i	112	L.225.i	113
Flow of Funds Matrix for 2001		114		115
Balance Sheet of Households and Nonprofit Organizations with Equity Detail			B.100.e	116





---

## Flow of Funds Accounts, Second Quarter 2002

---

This publication presents the flow of funds accounts for 2002:Q2.

**Data revisions and other changes.** The statistics in the attached tables reflect the 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. The revisions include the following:

1. Seasonal factors for quarterly financial flows have been recalculated for the period 1992:Q1 onward. The factors were generated using the Statistical Canada X-12-ARIMA/88 seasonal adjustment program.

2. The statistics in this publication reflect the annual revisions to the national income and product accounts from 1999 forward released by the Department of Commerce on July 31, 2002, and subsequent information for 2002:Q2 released on August 29, 2002. The August 2002 issue of the *Survey of Current Business* details the major features of the annual revision of the national income and product accounts.

3. Data for investment and depreciation flows of all sectors and capital stocks for the household and business sectors have been revised beginning in 1999 to reflect updated annual estimates of reproducible tangible wealth published by the Bureau of Economic Analysis of the Department of Commerce in September 2002.

4. Revisions to the rest of the world sector (tables F.107 and L.107) reflect new estimates of the balance of payments from the Department of Commerce for the period 1995-2001. The new estimates are detailed in the July 2002 *Survey of Current Business*.

5. Mortgage assets of finance companies are now reported separately for home mortgages (table F.218 and L.218), multifamily residential mortgages (tables F.219 and L.219), and commercial mortgages (tables F.220 and L.220), for the period 1970:Q2 to 1996:Q1.

6. Estimates of the real estate holdings of households (B.100, line 4) were improved using more detailed information from the biennial American

Housing Surveys in the period 1985 to 1999. Quarterly data were revised from 1984:Q1 forward and indicate a higher level for the value of real estate in the period since 1993.

7. In the nonprofit sector (supplementary tables F.100.a and L.100.a), data for 1999 have been added to reflect newly available information from the Internal Revenue Service/Statistics of Income Division.

### **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 as:

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

**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 ten 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>

The Internet site also provides quarterly data beginning in 1952, organized in compressed files that correspond to the tables published in this release. There are files for quarterly data for seasonally adjusted flows, unadjusted flows, outstandings, balance sheets, and debt (tables D.1, D.2, and D.3).

A Guide to the Flow of Funds Accounts is available. The 1,200-page Guide, in two volumes, explains in detail how the U.S. financial accounts are prepared and the principles underlying the accounts. The Guide can be purchased for \$20.00 from the Board's Publications Services. Publications Services accepts orders accompanied by checks as well as credit card orders. The Internet site for this release at the location shown above contains a link to an order form for the Guide that can be mailed or faxed to Publications Services.

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

Publications Services, Stop 127  
Board of Governors  
of the Federal Reserve System  
20th Street and Constitution Avenue, N.W.  
Washington, DC 20551  
(202) 452-3244

---

## 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 2002:Q2.	Unadjusted flows since 2000.
2. Households and nonprofit organizations sector (tables F.100 and L.100)	Estimates for this sector are largely residuals and are 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 2002:Q2. The source for nonprofit organizations data (tables F.100.a and L.100.a) is the Internal Revenue Service <i>Statistics of Income</i> . Data for nonprofit organizations are available for 1987 through 1999.	
3. Nonfarm nonfinancial corporate business (tables F.102 and L.102)	<i>Quarterly Financial Report</i> (QFR) of the Census Bureau through 2002:Q2; Internal Revenue Service <i>Statistics of Income</i> data through 1999; securities offerings, mortgages, bank loans, commercial paper, and other loans through 2002:Q2.	<i>Statistics of Income</i> data since 1999.
4. Nonfarm noncorporate business (tables F.103 and L.103)	Internal Revenue Service <i>Statistics of Income</i> data through 1999; bank and finance company loans and mortgage borrowing through 2002:Q2.	<i>Statistics of Income</i> data since 1999.
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 2002:Q2; preliminary data for checkable deposits and currency and trade payables through 2001.	Consumption of fixed capital and undistributed profits since 2000.
6. State and local governments (tables F.105 and L.105)	Gross offerings and retirements of municipal securities, deposits at banks, and nonmarketable U.S. government security issues through 2002:Q2; selected financial assets through 1999:Q2 from the comprehensive annual financial reports 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 1999:Q2.

---

7. Federal government (tables F.106 and L.106)	Data from the <i>Monthly Treasury Statement of Receipts and Outlays</i> through 2002:Q2; Treasury data for loan programs through 2002:Q2.	None.
8. Rest of the world (U.S. international transactions) (tables F.107 and L.107)	Balance of payments data through 2002:Q2; NIPA estimates; data from bank Reports of Condition and Treasury International Capital System through 2002:Q2.	None
9. Monetary authority (tables F.108 and L.108)	All data through 2002:Q2.	None.
10. Commercial banking (tables F.109 through F.113 and tables L.109 through L.113)	All data through 2002:Q2 for U.S.-chartered commercial banks, foreign banking offices in the U.S., bank holding companies, and commercial banks in U.S.-affiliated areas.	Data since 2001 for branches of domestic commercial banks located in U.S.-affiliated areas.
11. Savings institutions (tables F.114 and L.114)	All data through 2002:Q2.	None.
12. Credit unions (tables F.115 and L.115)	All data through 2002:Q2.	None.
13. Bank personal trusts and estates (tables F.116 and L.116)	All data through 1999.	Data since 1999.
14. Life insurance companies (tables F.117 and L.117)	All data through 2002:Q1.	Data since 2002:Q1.
15. Other insurance companies (tables F.118 and L.118)	All data through 2002:Q1.	Data since 2002:Q1.
16. Private pension funds (including FERS Thrift Savings Plan) (tables F.119 and L.119)	Quarterly data through 2002:Q2; Internal Revenue Service/Department of Labor/Pension Benefit Guaranty Corporation Form 5500 data through 1998.	Form 5500 data since 1998.
17. State and local government employee retirement funds (tables F.120 and L.120)	All data through 2002:Q1.	Data since 2002:Q1.
18. Money market mutual funds (tables F.121 and L.121)	All data through 2002:Q2.	None.
19. Mutual funds (tables F.122 and L.122)	All data through 2002:Q2.	None.

---

20. Closed-end funds (tables F.123 and L.123)	All data through 2001.	Data since 2001.
21. Exchange-traded funds (tables F.123 and L.123)	All data through 2002:Q2.	None.
22. Government-sponsored enterprises (tables F.124 and L.124)	Data for Fannie Mae, Freddie Mac, FHLBs, FCS, FICO, REFCORP, and Sallie Mae through 2002:Q2.	None.
23. Federally related mortgage pools (tables F.125 and L.125)	All data through 2002:Q2.	None.
24. Issuers of asset-backed securities (ABSs) (tables F.126 and L.126)	All data for private mortgage pools, consumer credit, business loans, student loans, consumer leases, and trade credit securitization through 2002:Q2.	None.
25. Finance companies (tables F.127 and L.127)	All data through 2002:Q2.	None.
26. Mortgage companies (tables F.128 and L.128)	Mortgage data through 1998:Q1.	Data since 1998:Q1.
27. Real estate investment trusts (REITs) (tables F.129 and L.129)	Data from SNL REIT DataSource through 2002:Q2.	None.
28. Security brokers and dealers (tables F.130 and L.130)	Data for firms filing FOCUS and FOGS reports through 2002:Q2.	None.
29. Funding corporations (tables F.131 and L.131)	Estimates for this sector are largely residuals and are derived from data for other sectors.	