

## 4. FEDERAL BORROWING AND DEBT

Debt is the largest legally and contractually binding obligation of the Federal Government. At the end of 2013, the Government owed \$11,983 billion of principal to the individuals and institutions who had loaned it the money to fund past deficits. During that year, the Government paid the public approximately \$259 billion of interest on this debt. At the same time, the Government also held financial assets, net of other financial liabilities, of \$1,056 billion. Therefore, debt net of financial assets was \$10,926 billion.

The \$11,983 billion debt held by the public at the end of 2013 represents an increase of \$701 billion over the level at the end of 2012. In 2013, the \$680 billion deficit and other financing transactions totaling \$22 billion caused the Government to increase its borrowing from the public by \$701 billion. Debt held by the public increased from 70.1 percent of Gross Domestic Product (GDP) at the end of 2012 to 72.1 percent of GDP at the end of 2013.<sup>1</sup> Meanwhile, financial assets net of liabilities grew by \$56 billion in 2013. Debt held by the public net of financial assets increased from 63.9 percent of GDP at the end of 2012 to 65.7 percent of GDP at the end of 2013. The deficit is estimated to fall to \$649 billion, or 3.7 percent of GDP, in 2014, and to fall below 3 percent of GDP starting in 2016. With declining deficits and continued GDP growth, debt held by the public is projected to reach 74.4 percent of GDP at the end of 2014 and to peak at 74.6 percent at the end of 2015, after which it is projected to decline for the remainder of the 10-year budget window, reaching 69.0 percent of GDP at the end of 2024. Debt net of financial assets is expected to increase to 66.8 percent of GDP at the end of 2014, then decrease to 66.6 percent at the end of 2015 and continue to decrease in each of the following years.

### Trends in Debt Since World War II

Table 4–1 depicts trends in Federal debt held by the public from World War II to the present and estimates from the present through 2019. (It is supplemented for earlier years by Tables 7.1–7.3 in *Historical Tables*, which is published as a separate volume of the Budget.) Federal debt peaked at 106.1 percent of GDP in 1946, just after the end of the war. From then until the 1970s, Federal debt as a percentage of GDP decreased almost every year because of relatively small deficits, an expanding economy, and inflation. With households borrowing large amounts to buy homes and consumer durables, and with businesses borrowing large amounts to buy plant and equipment, Federal debt also decreased almost every year

as a percentage of total credit market debt outstanding. The cumulative effect was impressive. From 1950 to 1975, debt held by the public declined from 78.5 percent of GDP to 24.5 percent, and from 53.3 percent of credit market debt to 18.4 percent. Despite rising interest rates, interest outlays became a smaller share of the budget and were roughly stable as a percentage of GDP.

Federal debt relative to GDP is a function of the Nation's fiscal policy as well as overall economic conditions. During the 1970s, large budget deficits emerged as spending grew faster than receipts and as the economy was disrupted by oil shocks and rising inflation. The nominal amount of Federal debt more than doubled, and Federal debt relative to GDP and credit market debt stopped declining after the middle of the decade. The growth of Federal debt accelerated at the beginning of the 1980s, due in large part to a deep recession, and the ratio of Federal debt to GDP grew sharply. It continued to grow throughout the 1980s as large tax cuts, enacted in 1981, and substantial increases in defense spending were only partially offset by reductions in domestic spending. The resulting deficits increased the debt to almost 48 percent of GDP by 1993. The ratio of Federal debt to credit market debt also rose, though to a lesser extent. Interest outlays on debt held by the public, calculated as a percentage of either total Federal outlays or GDP, increased as well.

The growth of Federal debt held by the public was slowing by the mid-1990s. In addition to a growing economy, three major budget agreements were enacted in the 1990s, implementing spending cuts and revenue increases and significantly reducing deficits. The debt declined markedly relative to both GDP and total credit market debt, from 1997 to 2001, as surpluses emerged. Debt fell from 47.8 percent of GDP in 1993 to 31.4 percent of GDP in 2001. Over that same period, debt fell from 26.4 percent of total credit market debt to 17.5 percent. Interest as a share of outlays peaked at 16.5 percent in 1989 and then fell to 8.9 percent by 2002; interest as a percentage of GDP fell by a similar proportion.

The impressive progress in reducing the debt burden stopped and then reversed course beginning in 2002. A decline in the stock market, a recession, and the initially slow recovery from that recession all reduced tax receipts. The tax cuts of 2001 and 2003 had a similarly large and longer-lasting effect, as did the costs of the wars in Iraq and Afghanistan. Deficits ensued and debt began to rise, both in nominal terms and as a percentage of GDP. There was a small temporary improvement in 2006 and 2007 as economic growth led to a short-lived revival of receipt growth.

As a result of the most recent recession, which began in December 2007, and the massive financial and economic challenges it imposed on the Nation, the deficit

<sup>1</sup> These figures reflect the revisions to GDP released by the Department of Commerce's Bureau of Economic Analysis as part of the July 2013 revisions to the National Income and Product Accounts (NIPA). The revisions increased historical levels of GDP, thereby reducing historical figures for debt as a percent of GDP.

**Table 4–1. TRENDS IN FEDERAL DEBT HELD BY THE PUBLIC**

(Dollar amounts in billions)

Fiscal Year	Debt held by the public:		Debt held by the public as a percent of:		Interest on the debt held by the public as a percent of: <sup>3</sup>	
	Current dollars	FY 2013 dollars <sup>1</sup>	GDP	Credit market debt <sup>2</sup>	Total outlays	GDP
1946 .....	241.9	2,342.9	106.1	N/A	7.4	1.8
1950 .....	219.0	1,716.3	78.5	53.3	11.4	1.7
1955 .....	226.6	1,560.7	55.7	43.2	7.6	1.3
1960 .....	236.8	1,445.1	44.3	33.7	8.5	1.5
1965 .....	260.8	1,490.4	36.7	26.9	8.1	1.3
1970 .....	283.2	1,348.6	27.0	20.8	7.9	1.5
1975 .....	394.7	1,385.0	24.5	18.4	7.5	1.6
1980 .....	711.9	1,738.5	25.5	18.6	10.6	2.2
1985 .....	1,507.3	2,809.4	35.3	22.3	16.2	3.6
1990 .....	2,411.6	3,864.7	40.8	22.6	16.2	3.4
1995 .....	3,604.4	5,097.4	47.5	26.4	15.8	3.2
2000 .....	3,409.8	4,445.6	33.6	19.0	13.0	2.3
2005 .....	4,592.2	5,341.4	35.6	17.0	7.7	1.5
2006 .....	4,829.0	5,440.0	35.3	16.4	8.9	1.7
2007 .....	5,035.1	5,522.6	35.1	15.7	9.2	1.8
2008 .....	5,803.1	6,236.3	39.3	17.0	8.7	1.8
2009 .....	7,544.7	8,013.8	52.3	21.2	5.7	1.4
2010 .....	9,018.9	9,497.1	61.0	24.6	6.6	1.5
2011 .....	10,128.2	10,460.6	65.8	26.7	7.4	1.7
2012 .....	11,281.1	11,450.9	70.1	28.5	6.6	1.4
2013 .....	11,982.6	11,982.6	72.1	29.0	7.5	1.6
2014 estimate .....	12,902.7	12,712.4	74.4	N/A	7.4	1.6
2015 estimate .....	13,591.8	13,164.6	74.6	N/A	7.7	1.7
2016 estimate .....	14,256.6	13,557.4	74.3	N/A	8.8	1.9
2017 estimate .....	14,843.5	13,840.9	73.5	N/A	10.3	2.2
2018 estimate .....	15,370.5	14,051.0	72.4	N/A	11.9	2.5
2019 estimate .....	15,982.0	14,322.8	72.0	N/A	12.9	2.7

N/A = Not available.

<sup>1</sup> Debt in current dollars deflated by the GDP chain-type price index with fiscal year 2013 equal to 100.<sup>2</sup> Total credit market debt owed by domestic nonfinancial sectors, modified in some years to be consistent with budget concepts for the measurement of Federal debt. Financial sectors are omitted to avoid double counting, since financial intermediaries borrow in the credit market primarily in order to finance lending in the credit market. Source: Federal Reserve Board flow of funds accounts. Projections are not available.<sup>3</sup> Interest on debt held by the public is estimated as the interest on Treasury debt securities less the “interest received by trust funds” (subfunction 901 less subfunctions 902 and 903). The estimate of interest on debt held by the public does not include the comparatively small amount of interest paid on agency debt or the offsets for interest on Treasury debt received by other Government accounts (revolving funds and special funds).

began increasing rapidly in 2008. The deficit increased substantially in 2009 as the Government continued to take aggressive steps to restore the health of the Nation’s economy and financial markets. The deficit fell somewhat in 2010, increased only slightly in 2011, fell in 2012, and then decreased markedly in 2013. Under the proposals in the Budget, the deficit is projected to fall in 2014, both in nominal terms and as a share of the economy, and continue to fall as a percentage of GDP through 2018, then remain

relatively stable for the remainder of the 10-year budget window. Debt held by the public as a percent of GDP is estimated to be 74.4 percent at the end of 2014 and 74.6 percent at the end of 2015, after which it declines gradually for the remainder of the 10-year budget window, falling to 69.0 percent of GDP in 2024. Debt net of financial assets as a percent of GDP is estimated to grow to 66.8 percent at the end of 2014 and then fall to 66.6 percent at the end of 2015 and continue to decline thereafter.

### Debt Held by the Public and Gross Federal Debt

The Federal Government issues debt securities for two principal purposes. First, it borrows from the public to finance the Federal deficit.<sup>2</sup> Second, it issues debt to Federal Government accounts, primarily trust funds, which accumulate surpluses. By law, trust fund surpluses must generally be invested in Federal securities. The gross Federal debt is defined to consist of both the debt held by the public and the debt held by Government accounts. Nearly all the Federal debt has been issued by the Treasury and is sometimes called “public debt,” but a small portion has been issued by other Government agencies and is called “agency debt.”<sup>3</sup>

Borrowing from the public, whether by the Treasury or by some other Federal agency, is important because it represents the Federal demand on credit markets. Regardless of whether the proceeds are used for tangible or intangible investments or to finance current consumption, the Federal demand on credit markets has to be financed out of the saving of households and businesses, the State and local sector, or the rest of the world. Federal borrowing thereby competes with the borrowing of other sectors of the domestic or international economy for financial resources in the credit market. Borrowing from the public thus affects the size and composition of assets held by the private sector and the amount of saving imported from abroad. It also increases the amount of future resources required to pay interest to the public on Federal debt. Borrowing from the public is therefore an important concern of Federal fiscal policy. Borrowing from the public, however, is an incomplete measure of the Federal impact on credit markets. Different types of Federal activities can affect the credit markets in different ways. For example, under its direct loan programs, the Government uses borrowed funds to acquire financial assets that might otherwise require financing in the credit markets directly. (For more information on other ways in which Federal activities impact the credit market, see the discussion at the end of this chapter.)

Issuing debt securities to Government accounts performs an essential function in accounting for the operation of these funds. The balances of debt represent the cumulative surpluses of these funds due to the excess of their tax receipts, interest receipts, and other collections over their spending. The interest on the debt that is credited to these funds accounts for the fact that some earmarked taxes and user charges will be spent at a later time than when the funds receive the monies. The debt securities are assets of those funds but are a liability of

the general fund to the funds that hold the securities, and are a mechanism for crediting interest to those funds on their recorded balances. These balances generally provide the fund with authority to draw upon the U.S. Treasury in later years to make future payments on its behalf to the public. Public policy may result in the Government’s running surpluses and accumulating debt in trust funds and other Government accounts in anticipation of future spending.

However, issuing debt to Government accounts does not have any of the credit market effects of borrowing from the public. It is an internal transaction of the Government, made between two accounts that are both within the Government itself. Issuing debt to a Government account is not a current transaction of the Government with the public; it is not financed by private saving and does not compete with the private sector for available funds in the credit market. While such issuance provides the account with assets—a binding claim against the Treasury—those assets are fully offset by the increased liability of the Treasury to pay the claims, which will ultimately be covered by the collection of revenues or by borrowing. Similarly, the current interest earned by the Government account on its Treasury securities does not need to be financed by other resources.

Furthermore, the debt held by Government accounts does not represent the estimated amount of the account’s obligations or responsibilities to make future payments to the public. For example, if the account records the transactions of a social insurance program, the debt that it holds does not necessarily represent the actuarial present value of estimated future benefits (or future benefits less taxes) for the current participants in the program; nor does it necessarily represent the actuarial present value of estimated future benefits (or future benefits less taxes) for the current participants plus the estimated future participants over some stated time period. The future transactions of Federal social insurance and employee retirement programs, which own 93 percent of the debt held by Government accounts, are important in their own right and need to be analyzed separately. This can be done through information published in the actuarial and financial reports for these programs.<sup>4</sup>

This Budget uses a variety of information sources to analyze the condition of Social Security and Medicare, the Government’s two largest social insurance programs. Table 3-1 in Chapter 3, “Long-Term Budget Outlook,” projects Social Security and Medicare outlays to the year 2085 relative to GDP. The excess of future Social Security and Medicare benefits relative to their dedicated income is very different in concept and much larger in size than the amount of Treasury securities that these programs hold.

<sup>2</sup> For the purposes of the Budget, “debt held by the public” is defined as debt held by investors outside of the Federal Government, both domestic and foreign, including U.S. State and local governments and foreign governments. It also includes debt held by the Federal Reserve.

<sup>3</sup> The term “agency debt” is defined more narrowly in the budget than customarily in the securities market, where it includes not only the debt of the Federal agencies listed in Table 4-4, but also certain Government-guaranteed securities and the debt of the Government-Sponsored Enterprises listed in Table 20-7 in the supplemental materials to the “Credit and Insurance” chapter. (Table 20-7 is available on the Internet at: [www.budget.gov/budget/Analytical\\_Perspectives](http://www.budget.gov/budget/Analytical_Perspectives) and on the Budget CD-ROM.)

<sup>4</sup> Extensive actuarial analyses of the Social Security and Medicare programs are published in the annual reports of the boards of trustees of these funds. The actuarial estimates for Social Security, Medicare, and the major Federal employee retirement programs are summarized in the *Financial Report of the United States Government*, prepared annually by the Department of the Treasury in coordination with the Office of Management and Budget.

**Table 4-2. FEDERAL GOVERNMENT FINANCING AND DEBT**

(In billions of dollars)

	Actual 2013	Estimate										
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
<b>Financing:</b>												
Unified budget deficit .....	679.5	648.8	563.6	531.1	457.8	413.3	502.7	512.2	503.6	530.3	481.7	433.7
Other transactions affecting borrowing from the public:												
Changes in financial assets and liabilities: <sup>1</sup>												
Change in Treasury operating cash balance .....	2.9	1.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Net disbursements of credit financing accounts:												
Direct loan accounts .....	139.0	125.6	120.9	127.2	122.7	108.7	102.3	102.8	104.2	105.9	111.0	113.9
Guaranteed loan accounts .....	-0.5	25.9	9.9	7.8	7.7	6.3	7.7	6.8	3.9	1.2	-0.7	-1.6
Troubled Asset Relief Program equity purchase accounts .....	-7.0	-1.5	-4.1	-0.3	-0.2	-0.1	-0.2	-0.1	-*	-*	-*	-*
Subtotal, net disbursements .....	131.6	150.0	126.8	134.8	130.2	114.8	109.8	109.5	108.0	107.1	110.2	112.3
Net purchases of non-Federal securities by the National Railroad Retirement Investment Trust .....	1.3	-*	-1.1	-1.0	-1.0	-0.9	-0.8	-0.8	-0.8	-0.9	-0.6	-0.5
Net change in other financial assets and liabilities <sup>2</sup> .....	-113.5	119.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Subtotal, changes in financial assets and liabilities .....	22.3	271.4	125.7	133.8	129.2	113.9	109.0	108.7	107.2	106.2	109.6	111.8
Seigniorage on coins .....	-0.4	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
Total, other transactions affecting borrowing from the public .....	21.9	271.3	125.6	133.7	129.0	113.7	108.8	108.5	107.0	106.0	109.4	111.6
Total, requirement to borrow from the public (equals change in debt held by the public) .....	701.4	920.1	689.1	664.8	586.9	527.0	611.5	620.7	610.7	636.3	591.1	545.3
<b>Changes in Debt Subject to Statutory Limitation:</b>												
Change in debt held by the public .....	701.4	920.1	689.1	664.8	586.9	527.0	611.5	620.7	610.7	636.3	591.1	545.3
Change in debt held by Government accounts .....	-32.9	253.1	131.7	133.3	163.2	172.3	98.2	85.4	77.9	47.0	48.8	52.0
Less: change in debt not subject to limit and other adjustments .....	3.9	-8.3	0.9	2.4	2.5	2.1	2.5	2.6	2.1	2.3	2.9	2.7
Total, change in debt subject to statutory limitation .....	672.4	1,164.9	821.8	800.5	752.6	701.5	712.2	708.7	690.7	685.6	642.8	600.0
<b>Debt Subject to Statutory Limitation, End of Year:</b>												
Debt issued by Treasury .....	16,691.7	17,864.0	18,684.5	19,483.1	20,234.1	20,934.4	21,645.1	22,352.3	23,041.7	23,726.1	24,367.7	24,966.7
Less: Treasury debt not subject to limitation (-) <sup>3</sup> .....	-6.7	-14.1	-12.8	-10.9	-9.3	-8.2	-6.6	-5.1	-3.9	-2.7	-1.5	-0.5
Agency debt subject to limitation .....	*	*	*	*	*	*	*	*	*	*	*	*
Adjustment for discount and premium <sup>4</sup> .....	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Total, debt subject to statutory limitation <sup>5</sup> .....	16,699.4	17,864.3	18,686.0	19,486.6	20,239.2	20,940.6	21,652.9	22,361.5	23,052.2	23,737.8	24,380.6	24,980.6
<b>Debt Outstanding, End of Year:</b>												
<b>Gross Federal debt:<sup>6</sup></b>												
Debt issued by Treasury .....	16,691.7	17,864.0	18,684.5	19,483.1	20,234.1	20,934.4	21,645.1	22,352.3	23,041.7	23,726.1	24,367.7	24,966.7
Debt issued by other agencies .....	27.7	28.6	29.0	28.5	27.6	26.6	25.6	24.6	23.7	22.6	21.0	19.2
Total, gross Federal debt .....	16,719.4	17,892.6	18,713.5	19,511.6	20,261.7	20,961.1	21,670.7	22,376.8	23,065.4	23,748.7	24,388.7	24,985.9
<b>Held by:</b>												
Debt held by Government accounts .....	4,736.9	4,990.0	5,121.7	5,255.0	5,418.3	5,590.6	5,688.8	5,774.2	5,852.1	5,899.1	5,948.0	5,999.9
Debt held by the public <sup>7</sup> .....	11,982.6	12,902.7	13,591.8	14,256.6	14,843.5	15,370.5	15,982.0	16,602.6	17,213.3	17,849.6	18,440.7	18,986.0

\* \$50 million or less.

<sup>1</sup>A decrease in the Treasury operating cash balance (which is an asset) is a means of financing a deficit and therefore has a negative sign. An increase in checks outstanding (which is a liability) is also a means of financing a deficit and therefore also has a negative sign.<sup>2</sup>Includes checks outstanding, accrued interest payable on Treasury debt, uninvested deposit fund balances, allocations of special drawing rights, and other liability accounts; and, as an offset, cash and monetary assets (other than the Treasury operating cash balance), other asset accounts, and profit on sale of gold.<sup>3</sup>Consists primarily of debt issued by the Federal Financing Bank and Treasury securities held by the Federal Financing Bank.<sup>4</sup>Consists mainly of unamortized discount (less premium) on public issues of Treasury notes and bonds (other than zero-coupon bonds) and unrealized discount on Government account series securities.<sup>5</sup>Legislation enacted February 15, 2014, (P.L. 113-83) temporarily suspends the debt limit through March 15, 2015.<sup>6</sup>Treasury securities held by the public and zero-coupon bonds held by Government accounts are almost all measured at sales price plus amortized discount or less amortized premium. Agency debt securities are almost all measured at face value. Treasury securities in the Government account series are otherwise measured at face value less unrealized discount (if any).<sup>7</sup>At the end of 2013, the Federal Reserve Banks held \$2,072.3 billion of Federal securities and the rest of the public held \$9,910.3 billion. Debt held by the Federal Reserve Banks is not estimated for future years.



For all these reasons, debt held by the public and debt net of financial assets are both better gauges of the effect of the budget on the credit markets than gross Federal debt.

### Government Deficits or Surpluses and the Change in Debt

Table 4–2 summarizes Federal borrowing and debt from 2013 through 2024.<sup>5</sup> In 2013 the Government borrowed \$701 billion, increasing the debt held by the public from \$11,281 billion at the end of 2012 to \$11,983 billion at the end of 2013. The debt held by Government accounts decreased \$33 billion, and gross Federal debt increased by \$669 billion to \$16,719 billion.

**Debt held by the public.**—The Federal Government primarily finances deficits by borrowing from the public, and it primarily uses surpluses to repay debt held by the public.<sup>6</sup> Table 4–2 shows the relationship between the Federal deficit or surplus and the change in debt held by the public. The borrowing or debt repayment depends on the Government's expenditure programs and tax laws, on the economic conditions that influence tax receipts and outlays, and on debt management policy. The sensitivity of the budget to economic conditions is analyzed in Chapter 2, "Economic Assumptions and Interactions with the Budget," in this volume.

The total or unified budget deficit consists of two parts: the on-budget deficit; and the surplus of the off-budget Federal entities, which have been excluded from the budget by law. Under present law, the off-budget Federal entities are the Social Security trust funds (Old-Age and Survivors Insurance and Disability Insurance) and the Postal Service Fund.<sup>7</sup> The on-budget and off-budget surpluses or deficits are added together to determine the Government's financing needs.

Over the long run, it is a good approximation to say that "the deficit is financed by borrowing from the public" or "the surplus is used to repay debt held by the public." However, the Government's need to borrow in any given year has always depended on several other factors besides the unified budget surplus or deficit, such as the change in the Treasury operating cash balance. These other factors—"other transactions affecting borrowing from the public"—can either increase or decrease the Government's need to borrow and can vary considerably in size from year to year. The other transactions affecting borrowing from the public are presented in Table 4–2 (an increase in the need to borrow is represented by a positive sign, like the deficit).

<sup>5</sup> For projections of the debt beyond 2024, see Chapter 3, "Long Term Budget Outlook."

<sup>6</sup> Treasury debt held by the public is measured as the sales price plus the amortized discount (or less the amortized premium). At the time of sale, the book value equals the sales price. Subsequently, it equals the sales price plus the amount of the discount that has been amortized up to that time. In equivalent terms, the book value of the debt equals the principal amount due at maturity (par or face value) less the unamortized discount. (For a security sold at a premium, the definition is symmetrical.) For inflation-indexed notes and bonds, the book value includes a periodic adjustment for inflation. Agency debt is generally recorded at par.

<sup>7</sup> For further explanation of the off-budget Federal entities, see Chapter 10, "Coverage of the Budget."

In 2013 the deficit was \$680 billion while these other factors increased the need to borrow by \$22 billion, or 3 percent of total borrowing from the public. As a result, the Government borrowed \$701 billion from the public. The other factors are estimated to increase borrowing by \$271 billion (29 percent of total borrowing from the public) in 2014, and \$126 billion (18 percent) in 2015. In 2016–2024, these other factors are expected to increase borrowing by annual amounts ranging from \$106 billion to \$134 billion.

Three specific factors presented in Table 4–2 have historically been especially important.

**Change in Treasury operating cash balance.**—The cash balance increased by \$27 billion, to \$85 billion, in 2012 and increased by \$3 billion, to \$88 billion, in 2013. The operating cash balance is projected to increase by \$2 billion, to \$90 billion at the end of 2014. Changes in the operating cash balance, while occasionally large, are inherently limited over time. Decreases in cash—a means of financing the Government—are limited by the amount of past accumulations, which themselves required financing when they were built up. Increases are limited because it is generally more efficient to repay debt.

**Net financing disbursements of the direct loan and guaranteed loan financing accounts.**—Under the Federal Credit Reform Act of 1990 (FCRA), the budgetary program account for each credit program records the estimated subsidy costs—the present value of estimated net losses—at the time when the direct or guaranteed loans are disbursed. The individual cash flows to and from the public associated with the loans or guarantees, such as the disbursement and repayment of loans, the default payments on loan guarantees, the collection of interest and fees, and so forth, are recorded in the credit program's non-budgetary financing account. Although the non-budgetary financing account's cash flows to and from the public are not included in the deficit (except for their impact on subsidy costs), they affect Treasury's net borrowing requirements.<sup>8</sup>

In addition to the transactions with the public, the financing accounts include several types of intragovernmental transactions. In particular, they receive payment from the credit program accounts for the subsidy costs of new direct loans and loan guarantees and for any upward reestimate of the costs of outstanding direct and guaranteed loans. The financing accounts also pay any downward reestimate of costs to budgetary receipt accounts. The total net collections and gross disbursements of the financing accounts, consisting of transactions with both the public and the budgetary accounts, are called "net financing disbursements." They occur in the same way as the "outlays" of a budgetary account, even though they do not represent budgetary costs, and therefore affect the requirement for borrowing from the public in the same way as the deficit.

The intragovernmental transactions of the credit program, financing, and downward reestimate receipt accounts do not affect Federal borrowing from the public.

<sup>8</sup> The FCRA (sec. 505(b)) requires that the financing accounts be non-budgetary. They are non-budgetary in concept because they do not measure cost. For additional discussion of credit programs, see Chapter 20, "Credit and Insurance," and Chapter 9, "Budget Concepts."

Although the deficit changes because of the budgetary account's outlay to, or receipt from, a financing account, the net financing disbursement changes in an equal amount with the opposite sign, so the effects are cancelled out. On the other hand, financing account disbursements to the public increase the requirement for borrowing from the public in the same way as an increase in budget outlays that are disbursed to the public in cash. Likewise, receipts from the public collected by the financing account can be used to finance the payment of the Government's obligations, and therefore they reduce the requirement for Federal borrowing from the public in the same way as an increase in budgetary receipts.

Borrowing due to credit financing accounts was \$132 billion in 2013. In 2014 credit financing accounts are projected to increase borrowing by \$150 billion. After 2014, the credit financing accounts are expected to increase borrowing by amounts ranging from \$107 billion to \$135 billion over the next 10 years.

In some years, large net upward or downward reestimates in the cost of outstanding direct and guaranteed loans may cause large swings in the net financing disbursements. There was a net upward reestimate of \$1.1 billion in 2013 and a net upward reestimate of \$0.4 billion in 2014.

*Net purchases of non-Federal securities by the National Railroad Retirement Investment Trust (NRRIT).*—This trust fund, which was established by the Railroad Retirement and Survivors' Improvement Act of 2001, invests its assets primarily in private stocks and bonds. The Act required special treatment of the purchase or sale of non-Federal assets by the NRRIT trust fund, treating such purchases as a means of financing rather than outlays. Therefore, the increased need to borrow from the public to finance NRRIT's purchases of non-Federal assets is part of the "other transactions affecting borrowing from the public" rather than included as an increase in the deficit. While net purchases and redemptions affect borrowing from the public, unrealized gains and losses on NRRIT's portfolio are included in both the other factors and, with the opposite sign, in NRRIT's net outlays in the deficit, for no net impact on borrowing from the public. In 2013, net increases, including purchases and gains, were \$1 billion. A small net decrease is projected for 2014 and net decreases of roughly \$1 billion annually are projected for 2015 and subsequent years.<sup>9</sup>

*Net change in other financial assets and liabilities.*—In addition to the three factors discussed above, in 2013, the net change in other financial assets and liabilities was also particularly significant. Generally, the amounts in this category are relatively small. For example, this category decreased the need to borrow by \$1 billion in 2012 and increased the need to borrow by \$5 billion in 2011. However, in 2013, this "other" category reduced the need to borrow by a net \$114 billion. Of the net \$114 billion, \$120 billion—offset slightly by other factors—was due to the suspension of the daily reinvestment of the Thrift Savings Plan (TSP) Government Securities Investment

Fund (G-Fund).<sup>10</sup> The Department of the Treasury is authorized to suspend the issuance of obligations to the TSP G-Fund as an "extraordinary measure" if issuances could not be made without causing the public debt of the United States to exceed the debt limit. The suspension of the daily reinvestment of the TSP G-Fund resulted in the amounts being moved from debt held by the public to deposit fund balances, an "other" financial liability. Once Treasury is able to do so without exceeding the debt limit, Treasury is required to fully reinvest the TSP G-Fund and restore any foregone interest. Accordingly, the TSP G-Fund was fully reinvested in October 2013. Table 4–2 reflects the \$120 billion reinvestment, which returns the amount from deposit fund balances to debt held by the public. The debt ceiling and the use of the TSP G-Fund are discussed in further detail below.

***Debt held by Government accounts.***—The amount of Federal debt issued to Government accounts depends largely on the surpluses of the trust funds, both on-budget and off-budget, which owned 91 percent of the total Federal debt held by Government accounts at the end of 2013. Investment may differ from the surplus due to changes in the amount of cash assets not currently invested. In 2013, the total trust fund surplus was \$86 billion, and trust fund investment in Federal securities decreased by \$42 billion. This \$129 billion difference was primarily due to the Civil Service Retirement and Disability Fund (CSRDF), which had a surplus of \$16 billion but disinvested \$107 billion, as a result of the extraordinary measures that the Treasury Department is authorized to take with the fund when the Government is at the debt ceiling. For further details on such measures, see the discussion below. The remainder of debt issued to Government accounts is owned by a number of special funds and revolving funds. The debt held in major accounts and the annual investments are shown in Table 4–5.

### **Debt Held by the Public Net of Financial Assets and Liabilities**

While debt held by the public is a key measure for examining the role and impact of the Federal Government in the U.S. and international credit markets and for other purposes, it provides incomplete information on the Government's financial condition. The U.S. Government holds significant financial assets, which must be offset against debt held by the public and other financial liabilities to achieve a more complete understanding of the Government's financial condition. The acquisition of those financial assets represents a transaction with the credit markets, broadening those markets in a way that is analogous to the demand on credit markets that borrowing entails. For this reason, debt held by the public is also an incomplete measure of the impact of the Federal Government in the United States and international credit markets.

One transaction that can increase both borrowing and assets is an increase to the Treasury operating cash balance. When the Government borrows to increase

<sup>9</sup> The budget treatment of this fund is further discussed in Chapter 9, "Budget Concepts."

<sup>10</sup> The TSP is a defined contribution pension plan for Federal employees. The G-Fund is one of several components of the TSP.

**Table 4–3. DEBT HELD BY THE PUBLIC NET OF FINANCIAL ASSETS AND LIABILITIES**

(Dollar amounts in billions)

	Actual 2013	Estimate										
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
<b>Debt Held by the Public:</b>												
Debt held by the public .....	11,982.6	12,902.7	13,591.8	14,256.6	14,843.5	15,370.5	15,982.0	16,602.6	17,213.3	17,849.6	18,440.7	18,986.0
As a percent of GDP .....	72.1%	74.4%	74.6%	74.3%	73.5%	72.4%	72.0%	71.6%	71.1%	70.6%	69.9%	69.0%
<b>Financial Assets Net of Liabilities:</b>												
Treasury operating cash balance .....	88.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Credit financing account balances:												
Direct loan accounts .....	943.8	1,069.4	1,190.3	1,317.5	1,440.3	1,549.0	1,651.3	1,754.1	1,858.3	1,964.2	2,075.1	2,189.0
Guaranteed loan accounts .....	-10.4	15.5	25.5	33.3	40.9	47.2	54.8	61.6	65.5	66.7	66.0	64.4
Troubled Asset Relief Program equity purchase accounts .....	6.6	5.1	1.0	0.7	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1
Subtotal, credit financing account balances .....	940.0	1,090.0	1,216.8	1,351.5	1,481.7	1,596.6	1,706.3	1,815.8	1,923.9	2,031.0	2,141.2	2,253.5
Government-sponsored enterprise preferred stock .....	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2	140.2
Non-Federal securities held by NRRIT .....	24.2	24.1	23.1	22.1	21.1	20.2	19.4	18.6	17.7	16.8	16.2	15.7
Other assets net of liabilities .....	-136.6	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7
Total, financial assets net of liabilities .....	1,056.2	1,327.6	1,453.3	1,587.1	1,716.3	1,830.2	1,939.2	2,047.9	2,155.1	2,261.3	2,370.9	2,482.7
<b>Debt Held by the Public Net of Financial Assets and Liabilities:</b>												
Debt held by the public net of financial assets .....	10,926.4	11,575.1	12,138.5	12,669.4	13,127.1	13,540.2	14,042.7	14,554.7	15,058.2	15,588.4	16,069.8	16,503.4
As a percent of GDP .....	65.7%	66.8%	66.6%	66.1%	65.0%	63.8%	63.3%	62.7%	62.2%	61.7%	60.9%	59.9%

the Treasury operating cash balance, that cash balance also represents an asset that is available to the Federal Government. Looking at both sides of this transaction—the borrowing to obtain the cash and the asset of the cash holdings—provides much more complete information about the Government’s financial condition than looking at only the borrowing from the public. Another example of a transaction that simultaneously increases borrowing from the public and Federal assets is Government borrowing to issue direct loans to the public. When the direct loan is made, the Government is also acquiring an asset in the form of future payments of principal and interest, net of the Government’s expected losses on the loan. Similarly, when NRRIT increases its holdings of non-Federal securities, the borrowing to purchase those securities is offset by the value of the asset holdings.

The acquisition or disposition of Federal financial assets very largely explains the difference between the deficit for a particular year and that year’s increase in debt held by the public. Debt net of financial assets is a measure that is conceptually closer to the measurement of Federal deficits or surpluses; cumulative deficits and surpluses over time more closely equal the debt net of financial assets than they do the debt held by the public.

Table 4–3 presents debt held by the public net of the Government’s financial assets and liabilities, or “net debt.” Treasury debt is presented in the Budget at book value, with no adjustments for the change in economic value that results from fluctuations in interest rates. The balances of credit financing accounts are based on projections of future cash flows. For direct loan financing accounts, the balance generally represents the net present

value of anticipated future inflows such as principal and interest payments from borrowers. For guaranteed loan financing accounts, the balance generally represents the net present value of anticipated future outflows, such as default claim payments net of recoveries and other collections, such as program fees. NRRIT’s holdings of non-Federal securities are marked to market on a monthly basis. Government-Sponsored Enterprise (GSE) preferred stock is measured at market value.

Net financial assets increased by \$56 billion, to \$1,056 billion, in 2013. At the end of 2013, debt held by the public was \$11,983 billion, or 72.1 percent of GDP. The Government held \$1,056 billion in net financial assets, including a cash balance of \$88 billion, net credit financing account balances of \$940 billion, and other assets and liabilities that aggregated to a net asset of \$28 billion. Therefore, debt net of financial assets was \$10,926 billion, or 65.7 percent of GDP. As shown in Table 4–3, the value of the Government’s net financial assets is projected to increase to \$1,328 billion in 2014, due to increases in the net balances of credit financing accounts and other factors. While debt held by the public is expected to increase from 72.1 percent to 74.4 percent of GDP during 2014, net debt is expected to increase from 65.7 percent to 66.8 percent of GDP.

Debt securities and other financial assets and liabilities do not encompass all the assets and liabilities of the Federal Government. For example, accounts payable occur in the normal course of buying goods and services; Social Security benefits are due and payable as of the end of the month but, according to statute, are paid during the next month; and Federal employee salaries are paid after



they have been earned. Like debt securities sold in the credit market, these liabilities have their own distinctive effects on the economy. The Federal Government also has significant holdings of non-financial assets, such as land, mineral deposits, buildings, and equipment. A unique and important asset is the Government's sovereign power to tax. The different types of assets and liabilities are reported annually in the financial statements of Federal agencies and in the *Financial Report of the United States Government*, prepared by the Treasury Department in coordination with the Office of Management and Budget (OMB).

### Treasury Debt

Nearly all Federal debt is issued by the Department of the Treasury. Treasury meets most of the Federal Government's financing needs by issuing marketable securities to the public. These financing needs include both the change in debt held by the public and the refinancing—or rollover—of any outstanding debt that matures during the year. Treasury marketable debt is sold at public auctions on a regular schedule and can be bought and sold on the secondary market. Treasury also sells to the public a relatively small amount of nonmarketable securities, such as savings bonds and State and Local Government Series securities (SLGS).<sup>11</sup> Treasury nonmarketable debt cannot be bought or sold on the secondary market.

Treasury issues marketable securities in a wide range of maturities, and issues both nominal (non-inflation-indexed) and inflation-indexed securities. Treasury's marketable securities include:

**Treasury Bills**—Treasury bills have maturities of one year or less from their issue date. In addition to the regular auction calendar of bill issuance, Treasury issues cash management bills on an as-needed basis for various reasons such as to offset the seasonal patterns of the Government's receipts and outlays.

**Treasury Notes**—Treasury notes have maturities of more than one year and up to 10 years.

**Treasury Bonds**—Treasury bonds have maturities of more than 10 years. The longest-maturity securities issued by Treasury are 30-year bonds.

**Treasury Inflation-Protected Securities (TIPS)**—Treasury inflation-protected—or inflation-indexed—securities are coupon issues for which the par value of the security rises with inflation. The principal value is adjusted daily to reflect inflation as measured by changes in the Consumer Price Index (CPI-U-NSA, with a two-month lag). Although the principal value may be adjusted downward if inflation is negative, at maturity, the securities will be redeemed at the greater of their inflation-adjusted principal or par amount at original issue.

Historically, the average maturity of outstanding debt issued by Treasury has been about five years. The average maturity of outstanding debt was 67 months at the end of 2013.

Traditionally, Treasury has issued securities with a fixed interest rate. In 2012, Treasury began to develop a floating rate securities program to complement its existing suite of securities and to support Treasury's broader debt management objectives. Floating rate securities have a fixed par value but bear interest rates that fluctuate based on movements in a specified benchmark market interest rate. Treasury's floating rate notes are benchmarked to the Treasury 13-week bill. Treasury held the first floating rate securities auction in January 2014. Currently, Treasury is issuing floating rate securities with a maturity of two years.

In addition to quarterly announcements about the overall auction calendar, Treasury publicly announces in advance the auction of each security. Individuals can participate directly in Treasury auctions or can purchase securities through brokers, dealers, and other financial institutions. Treasury accepts two types of auction bids—competitive and noncompetitive. In a competitive bid, the bidder specifies the yield. A significant portion of competitive bids are submitted by primary dealers, which are banks and securities brokerages that have been designated to trade in Treasury securities with the Federal Reserve System. In a noncompetitive bid, the bidder agrees to accept the yield determined by the auction.<sup>12</sup> At the close of the auction, Treasury accepts all eligible noncompetitive bids and then accepts competitive bids in ascending order beginning with the lowest yield bid until the offering amount is reached. All winning bidders receive the highest accepted yield bid.

Treasury marketable securities are highly liquid and actively traded on the secondary market. The liquidity of Treasury securities is reflected in the ratio of bids received to bids accepted in Treasury auctions; the demand for the securities is substantially greater than the level of issuance. Because they are backed by the full faith and credit of the United States Government, Treasury marketable securities are considered to be "risk-free." Therefore, the Treasury yield curve is commonly used as a benchmark for a wide variety of purposes in the financial markets.

Whereas Treasury issuance of marketable debt is based on the Government's financing needs, Treasury's issuance of nonmarketable debt is based on the public's demand for the specific types of investments. Increases in outstanding balances of nonmarketable debt reduce the need for marketable borrowing. In 2013, there was net disinvestment in nonmarketables, necessitating additional marketable borrowing to finance the redemption of nonmarketable debt.<sup>13</sup>

### Agency Debt

A few Federal agencies, shown in Table 4–4, sell or have sold debt securities to the public and, at times, to other Government accounts. Currently, new debt is issued only by the Tennessee Valley Authority (TVA) and the Federal Housing Administration (FHA); the remain-

<sup>11</sup> Under the SLGS program, the Treasury offers special low-yield securities to State and local governments and other entities for temporary investment of proceeds of tax-exempt bonds.

<sup>12</sup> Noncompetitive bids cannot exceed \$5 million.

<sup>13</sup> Detail on the marketable and nonmarketable securities issued by Treasury is found in the *Monthly Statement of the Public Debt*, published on a monthly basis by the Department of the Treasury.



**Table 4-4. AGENCY DEBT**

(In millions of dollars)

	2013 Actual		2014 Estimate		2015 Estimate	
	Borrowing/ Repayment(–)	Debt, End-of-Year	Borrowing/ Repayment(–)	Debt, End-of-Year	Borrowing/ Repayment(–)	Debt, End-of-Year
<b>Borrowing from the public:</b>						
Housing and Urban Development:						
Federal Housing Administration .....		19	*	19	.....	19
Architect of the Capitol .....	–7	121	–7	114	–7	107
National Archives .....	–17	134	–18	116	–20	97
Tennessee Valley Authority:						
Bonds and notes .....	718	24,816	1,086	25,902	596	26,498
Lease/leaseback obligations .....	–56	2,142	–88	2,054	–102	1,952
Prepayment obligations .....	–102	510	–100	410	–100	310
<b>Total, borrowing from the public</b> .....	537	27,741	874	28,615	368	28,982
<b>Borrowing from other funds:</b>						
Tennessee Valley Authority <sup>1</sup> .....	1	5	.....	5	.....	5
<b>Total, borrowing from other funds</b> .....	1	5	.....	5	.....	5
<b>Total, agency borrowing</b> .....	537	27,746	874	28,620	368	28,988
<b>Memorandum:</b>						
Tennessee Valley Authority bonds and notes, total .....	718	24,821	1,086	25,907	596	26,504

\* \$500,000 or less.

<sup>1</sup>Represents open market purchases by the National Railroad Retirement Investment Trust.

ing agencies are repaying past borrowing. Agency debt increased from \$27.2 billion at the end of 2012 to \$27.7 billion at the end of 2013, due to increases in debt issued by TVA, slightly offset by decreases in debt issued by other agencies. Agency debt is less than one-quarter of one percent of Federal debt held by the public. As a result of new borrowing by TVA, agency debt is estimated to increase by \$0.9 billion in 2014 and by \$0.4 billion in 2015.

The predominant agency borrower is TVA, which had borrowings of \$27.5 billion from the public as of the end of 2013, or 99 percent of the total debt of all agencies. TVA issues debt primarily to finance capital projects.

TVA has traditionally financed its capital construction by selling bonds and notes to the public. Since 2000, it has also employed two types of alternative financing methods, lease/leaseback obligations and prepayment obligations. Under the lease/leaseback obligations method, TVA signs contracts to lease some facilities and equipment to private investors and simultaneously leases them back. It receives a lump sum for leasing out its assets, and then leases them back at fixed annual payments for a set number of years. TVA retains substantially all of the economic benefits and risks related to ownership of the assets.<sup>14</sup> Under the prepayment obligations method, TVA's power distributors may prepay a portion of the price of the power they plan to purchase in the future. In return, they obtain a discount on a specific quantity of the future power they buy from TVA. The quantity varies, depending on TVA's estimated cost of borrowing.

<sup>14</sup> This arrangement is at least as governmental as a "lease-purchase without substantial private risk." For further detail on the current budgetary treatment of lease-purchase without substantial private risk, see OMB Circular No. A–11, Appendix B.

The OMB determined that each of these alternative financing methods is a means of financing the acquisition of assets owned and used by the Government, or of refinancing debt previously incurred to finance such assets. They are equivalent in concept to other forms of borrowing from the public, although under different terms and conditions. The budget therefore records the upfront cash proceeds from these methods as borrowing from the public, not offsetting collections.<sup>15</sup> The budget presentation is consistent with the reporting of these obligations as liabilities on TVA's balance sheet under generally accepted accounting principles. Table 4–4 presents these alternative financing methods separately from TVA bonds and notes to distinguish between the types of borrowing. Obligations for lease/leasebacks were \$2.1 billion at the end of 2013 and are estimated to be \$2.1 billion at the end of 2014 and \$2.0 billion at the end of 2015. Obligations for prepayments were \$0.5 billion at the end of 2013 and are estimated to be \$0.4 billion at the end of 2014 and \$0.3 billion at the end of 2015.

Although the FHA generally makes direct disbursements to the public for default claims on FHA-insured mortgages, it may also pay claims by issuing debentures.

<sup>15</sup> This budgetary treatment differs from the treatment in the *Monthly Treasury Statement of Receipts and Outlays of the United States Government (Monthly Treasury Statement)* Table 6 Schedule C, and the *Combined Statement of Receipts, Outlays, and Balances of the United States Government* Schedule 3, both published by the Department of the Treasury. These two schedules, which present debt issued by agencies other than Treasury, exclude the TVA alternative financing arrangements. This difference in treatment is one factor causing minor differences between debt figures reported in the Budget and debt figures reported by Treasury. The other factors are adjustments for the timing of the reporting of Federal debt held by NRRIT and treatment of the Federal debt held by the Securities Investor Protection Corporation.

tures. Issuing debentures to pay the Government's bills is equivalent to selling securities to the public and then paying the bills by disbursing the cash borrowed, so the transaction is recorded as being simultaneously an outlay and borrowing. The debentures are therefore classified as agency debt.

A number of years ago, the Federal Government guaranteed the debt used to finance the construction of buildings for the National Archives and the Architect of the Capitol, and subsequently exercised full control over the design, construction, and operation of the buildings. These arrangements are equivalent to direct Federal construction financed by Federal borrowing. The construction expenditures and interest were therefore classified as Federal outlays, and the borrowing was classified as Federal agency borrowing from the public.

A number of Federal agencies borrow from the Bureau of the Public Debt (BPD) or the Federal Financing Bank (FFB), both within the Department of the Treasury. Agency borrowing from the FFB or the BPD is not included in gross Federal debt. It would be double counting to add together (a) the agency borrowing from the BPD or FFB and (b) the Treasury borrowing from the public that is needed to provide the BPD or FFB with the funds to lend to the agencies.

### Debt Held by Government Accounts

Trust funds, and some special funds and public enterprise revolving funds, accumulate cash in excess of current needs in order to meet future obligations. These cash surpluses are generally invested in Treasury debt.

Total investment by trust funds and other Government accounts decreased by \$33 billion in 2013. Investment by Government accounts is estimated to be \$253 billion in 2014 and \$132 billion in 2015, as shown in Table 4–5. The holdings of Federal securities by Government accounts are estimated to increase to \$5,122 billion by the end of 2015, or 27 percent of the gross Federal debt. The percentage is estimated to decrease gradually over the next 10 years.

The Government account holdings of Federal securities are concentrated among a few funds: the Social Security Old-Age and Survivors Insurance (OASI) and Disability Insurance (DI) trust funds; the Medicare Hospital Insurance (HI) and Supplementary Medical Insurance (SMI) trust funds; and four Federal employee retirement funds. These Federal employee retirement funds include the Military Retirement Fund and the Civil Service Retirement and Disability Fund, which are trust funds, and the uniformed services Medicare-Eligible Retiree Health Care Fund (MERHCF) and Postal Service Retiree Health Benefits Fund (PSRHBF), which are special funds. At the end of 2015, these Social Security, Medicare, and Federal employee retirement funds are estimated to own 92 percent of the total debt held by Government accounts. During 2013–2015, the Military Retirement Fund has a large surplus and is estimated to invest a total of \$160 billion, 45 percent of total net investment by Government accounts, and the Social Security OASI fund is projected to invest \$151 billion, 43 percent of the net total. CSRDF is

projected to invest \$52 billion, 15 percent of the net total. Some Government accounts reduce their investments in Federal securities during 2013–2015. During these years, the Social Security DI fund disinvests \$99 billion, or 28 percent of the total net investment and the Medicare HI trust fund disinvests \$42 billion, or 12 percent of the total.

*Technical note on measurement.*—The Treasury securities held by Government accounts consist almost entirely of the Government account series. Most were issued at par value (face value), and the securities issued at a discount or premium were traditionally recorded at par in the OMB and Treasury reports on Federal debt. However, there are two kinds of exceptions.

First, Treasury issues zero-coupon bonds to a very few Government accounts. Because the purchase price is a small fraction of par value and the amounts are large, the holdings are recorded in Table 4–5 at par value less unamortized discount. The only two Government accounts that held zero-coupon bonds during the period of this table are the Nuclear Waste Disposal Fund in the Department of Energy and the Pension Benefit Guaranty Corporation (PBGC). The total unamortized discount on zero-coupon bonds was \$20.4 billion at the end of 2013.

Second, Treasury subtracts the unrealized discount on other Government account series securities in calculating “net Federal securities held as investments of Government accounts.” Unlike the discount recorded for zero-coupon bonds and debt held by the public, the unrealized discount is the discount at the time of issue and is not amortized over the term of the security. In Table 4–5 it is shown as a separate item at the end of the table and not distributed by account. The amount was \$1.9 billion at the end of 2013.

### Debt Held by the Federal Reserve

The Federal Reserve acquires marketable Treasury securities as part of its exercise of monetary policy. For purposes of the Budget and reporting by the Department of the Treasury, the transactions of the Federal Reserve are considered to be non-budgetary, and accordingly the Federal Reserve's holdings of Treasury securities are included as part of debt held by the public.<sup>16</sup> Federal Reserve holdings were \$2,072 billion (17 percent of debt held by the public) at the end of 2013, up from \$1,645 billion (15 percent of debt held by the public) at the end of 2012. Over the last 10 years, the Federal Reserve holdings have averaged 14 percent of debt held by the public. The historical holdings of the Federal Reserve are presented in Table 7.1 in the *Historical Tables* volume of the Budget. The Budget does not project Federal Reserve holdings for future years.

### Limitations on Federal Debt

*Definition of debt subject to limit.*—Statutory limitations have usually been placed on Federal debt. Until World War I, the Congress ordinarily authorized a specific amount of debt for each separate issue. Beginning with

<sup>16</sup> For further detail on the monetary policy activities of the Federal Reserve and the treatment of the Federal Reserve in the Budget, see Chapter 10, “Coverage of the Budget.”

**Table 4-5. DEBT HELD BY GOVERNMENT ACCOUNTS<sup>1</sup>**  
(In millions of dollars)

Description	Investment or Disinvestment (-)			Holdings, End of 2015 Estimate
	2013 Actual	2014 Estimate	2015 Estimate	
<b>Investment in Treasury debt:</b>				
<b>Energy:</b>				
Nuclear waste disposal fund <sup>1</sup> .....	2,179	628	628	31,655
Uranium enrichment decontamination fund .....	-348	-487	160	3,346
<b>Health and Human Services:</b>				
Federal hospital insurance trust fund .....	-22,282	-17,016	-3,174	185,820
Federal supplementary medical insurance trust fund .....	-1,939	5,254	99	72,738
Vaccine injury compensation fund .....	50	80	91	3,415
Child enrollment contingency fund .....	3	-2,098	.....	.....
<b>Homeland Security:</b>				
Aquatic resources trust fund .....	-76	36	-11	1,891
Oil spill liability trust fund .....	659	618	723	4,554
<b>Housing and Urban Development:</b>				
Federal Housing Administration mutual mortgage fund .....	-2,774	7,877	13,167	21,044
Guarantees of mortgage-backed securities .....	-306	6,485	689	8,986
<b>Interior:</b>				
Abandoned mine reclamation fund .....	-1	20	-69	2,702
Federal aid in wildlife restoration fund .....	686	108	30	1,559
Environmental improvement and restoration fund .....	58	133	1,330	2,790
<b>Justice: Assets forfeiture fund .....</b>	<b>583</b>	<b>-309</b>	<b>-2,471</b>	<b>1,896</b>
<b>Labor:</b>				
Unemployment trust fund .....	8,805	9,522	4,000	43,000
Pension Benefit Guaranty Corporation <sup>1</sup> .....	1,636	-141	611	17,962
<b>State: Foreign service retirement and disability trust fund .....</b>	<b>471</b>	<b>504</b>	<b>504</b>	<b>18,372</b>
<b>Transportation:</b>				
Airport and airway trust fund .....	1,383	261	-1,259	10,810
Transportation trust fund .....	-8,013	-1,957	14,628	14,628
Aviation insurance revolving fund .....	119	57	153	2,147
<b>Treasury:</b>				
Exchange stabilization fund .....	-11	-3	4	22,670
Treasury forfeiture fund .....	1,193	-867	.....	1,957
Comptroller of the Currency assessment fund .....	-66	-*	.....	1,293
<b>Veterans Affairs:</b>				
National service life insurance trust fund .....	-656	-840	-721	4,695
Veterans special life insurance fund .....	-39	-75	-88	1,751
<b>Corps of Engineers: Harbor maintenance trust fund .....</b>	<b>820</b>	<b>802</b>	<b>866</b>	<b>9,374</b>
<b>Other Defense-Civil:</b>				
Military retirement trust fund .....	44,888	55,927	58,896	536,150
Medicare-eligible retiree health care fund .....	12,552	10,447	9,863	208,974
Education benefits fund .....	-112	-106	-117	1,556
<b>Environmental Protection Agency:</b>				
Leaking underground storage tank trust fund .....	64	64	-57	1,330
Hazardous substance trust fund .....	-63	-63	1	3,125
<b>International Assistance Programs: Overseas Private Investment Corporation .....</b>	<b>150</b>	<b>59</b>	<b>29</b>	<b>5,480</b>
<b>Office of Personnel Management:</b>				
Civil service retirement and disability trust fund .....	-107,099	143,248	15,975	878,679
Postal Service retiree health benefits fund .....	-3,023	11,771	7,166	61,261
Employees life insurance fund .....	701	*	1,170	43,121
Employees health benefits fund .....	2,168	697	1,164	25,290
<b>Social Security Administration:</b>				
Federal old-age and survivors insurance trust fund <sup>2</sup> .....	68,901	49,860	31,998	2,737,457
Federal disability insurance trust fund <sup>2</sup> .....	-31,554	-33,079	-34,109	33,603

**Table 4-5. DEBT HELD BY GOVERNMENT ACCOUNTS<sup>1</sup>—Continued**  
(In millions of dollars)

Description	Investment or Disinvestment (–)			Holdings, End of 2015 Estimate
	2013 Actual	2014 Estimate	2015 Estimate	
<b>District of Columbia:</b> Federal pension fund .....	–434	–25	–10	3,174
<b>Farm Credit System Insurance Corporation:</b>				
Farm Credit System Insurance fund .....	107	260	176	3,637
<b>Federal Communications Commission:</b>				
Universal service fund .....	609	–*	.....	7,150
<b>Federal Deposit Insurance Corporation:</b>				
Deposit insurance fund .....	366	4,240	10,356	51,460
Senior unsecured debt guarantee fund .....	–1,104	.....	.....	.....
FSLIC resolution fund .....	–2,599	4	–399	430
<b>National Credit Union Administration:</b>				
Share insurance fund .....	346	461	399	11,503
Central liquidity facility .....	–1,815	70	8	205
Postal Service funds <sup>2</sup> .....	269	*	.....	2,860
Railroad Retirement Board trust funds .....	54	–20	–33	2,337
Securities Investor Protection Corporation <sup>3</sup> .....	315	95	128	2,138
United States Enrichment Corporation fund .....	10	10	16	1,634
Other Federal funds .....	343	–61	377	5,882
Other trust funds .....	745	672	–1,181	4,079
Unrealized discount <sup>1</sup> .....	146	.....	.....	–1,892
<b>Total, investment in Treasury debt<sup>1</sup> .....</b>	<b>–32,935</b>	<b>253,121</b>	<b>131,706</b>	<b>5,121,678</b>
<b>Investment in agency debt:</b>				
<b>Railroad Retirement Board:</b>				
National Railroad Retirement Investment Trust .....	1	.....	.....	5
<b>Total, investment in agency debt<sup>1</sup> .....</b>	<b>1</b>	<b>.....</b>	<b>.....</b>	<b>5</b>
<b>Total, investment in Federal debt<sup>1</sup> .....</b>	<b>–32,934</b>	<b>253,121</b>	<b>131,706</b>	<b>5,121,683</b>
<b>Memorandum:</b>				
Investment by Federal funds (on-budget) .....	8,839	38,732	42,341	481,643
Investment by Federal funds (off-budget) .....	269	*	.....	2,860
Investment by trust funds (on-budget) .....	–79,537	197,608	91,476	1,868,013
Investment by trust funds (off-budget) .....	37,348	16,781	–2,111	2,771,060
Unrealized discount <sup>1</sup> .....	146	.....	.....	–1,892

\* \$500 thousand or less.

<sup>1</sup>Debt held by Government accounts is measured at face value except for the Treasury zero-coupon bonds held by the Nuclear waste disposal fund and the Pension Benefit Guaranty Corporation (PBGC), which are recorded at market or redemption price; and the unrealized discount on Government account series, which is not distributed by account. Changes are not estimated in the unrealized discount. If recorded at face value, at the end of 2013 the debt figures would be \$20.2 billion higher for the Nuclear waste disposal fund and \$0.2 billion higher for PBGC than recorded in this table.

<sup>2</sup> Off-budget Federal entity.

<sup>3</sup> Amounts on calendar-year basis.

the Second Liberty Bond Act of 1917, however, the nature of the limitation was modified in several steps until it developed into a ceiling on the total amount of most Federal debt outstanding. This last type of limitation has been in effect since 1941. The limit currently applies to most debt issued by the Treasury since September 1917, whether held by the public or by Government accounts; and other debt issued by Federal agencies that, according to explicit statute, is guaranteed as to principal and interest by the U.S. Government.

The third part of Table 4–2 compares total Treasury debt with the amount of Federal debt that is subject to the limit. Nearly all Treasury debt is subject to the debt limit.

A large portion of the Treasury debt not subject to the general statutory limit was issued by the Federal Financing Bank. The FFB is authorized to have outstanding up to \$15 billion of publicly issued debt. It issued \$14 billion of securities to the CSRDF on November 15, 2004, in exchange for an equal amount of regular Treasury securities. The securities mature on dates from June 30, 2009, through June 30, 2019. At the end of 2013, \$6 billion of these securities remained outstanding. On October 1, 2013, FFB issued \$9 billion of securities to the CSRDF, in exchange for an equal amount of special-issue Treasury securities issued by the Treasury and held by the CSRDF. The securities issued in October 2013 mature on dates from June 30, 2015, through June 30, 2024. The FFB secu-



rities have the same interest rates and maturities as the Treasury securities for which they were exchanged.

The Housing and Economic Recovery Act of 2008 created another type of debt not subject to limit. This debt, termed “Hope Bonds,” has been issued by Treasury to the FFB for the HOPE for Homeowners program. The outstanding balance of Hope Bonds was \$494 million at the end of 2013 and is projected to fall to \$32 million at the end of 2014 and then to increase gradually in subsequent years.

The other Treasury debt not subject to the general limit consists almost entirely of silver certificates and other currencies no longer being issued. It was \$485 million at the end of 2013 and is projected to gradually decline over time.

The sole agency debt currently subject to the general limit, \$209,000 at the end of 2013, is certain debentures issued by the Federal Housing Administration.<sup>17</sup>

Some of the other agency debt, however, is subject to its own statutory limit. For example, the Tennessee Valley Authority is limited to \$30 billion of bonds and notes outstanding.

The comparison between Treasury debt and debt subject to limit also includes an adjustment for measurement differences in the treatment of discounts and premiums. As explained earlier in this chapter, debt securities may be sold at a discount or premium, and the measurement of debt may take this into account rather than recording the face value of the securities. However, the measurement differs between gross Federal debt (and its components) and the statutory definition of debt subject to limit. An adjustment is needed to derive debt subject to limit (as defined by law) from Treasury debt. The amount of the adjustment was \$14.4 billion at the end of 2013 compared with the total unamortized discount (less premium) of \$46.5 billion on all Treasury securities.

**Changes in the debt limit.**—The statutory debt limit has been changed many times. Since 1960, the Congress has passed 81 separate acts to raise the limit, revise the definition, extend the duration of a temporary increase, or temporarily suspend the limit.<sup>18</sup>

The \$16,394 billion debt ceiling that had been established by the Budget Control Act of 2011 was reached on December 31, 2012.

The three subsequent laws addressing the debt limit have each provided for a temporary suspension followed by an increase in an amount equivalent to the debt that was issued during that suspension period in order to fund commitments requiring payment through the specified end date. The No Budget, No Pay Act of 2013 suspended the debt limit from February 4, 2013, through May 18, 2013, and then raised the debt limit on May 19, 2013, by \$305 billion, to \$16,699 billion. Subsequently, Treasury began to take extraordinary measures to meet the Government’s obligation to pay its bills and invest

its trust funds while remaining below the statutory limit. The Continuing Appropriations Act, 2014, suspended the \$16,699 billion debt ceiling from October 17, 2013, through February 7, 2014, and then raised the debt limit on February 8, 2014, by \$512 billion to \$17,212 billion. Again, Treasury began to take extraordinary measures to meet the Government’s obligations. The Temporary Debt Limit Extension Act suspended the \$17,212 billion debt ceiling from February 15, 2014, through March 15, 2015.

At many times in the past several decades, including 2013 and 2014, the Government has reached the statutory debt limit before an increase has been enacted. When this has occurred, it has been necessary for the Department of the Treasury to take extraordinary measures to meet the Government’s financial obligations. One such measure is the partial or full suspension of the daily reinvestment of the Thrift Savings Plan G-Fund. The Treasury Secretary has statutory authority to suspend investment of the G-Fund in Treasury securities as needed to prevent the debt from exceeding the debt limit. Treasury determines each day the amount of investments that would allow the fund to be invested as fully as possible without exceeding the debt limit. At the end of December 2013, the TSP G-Fund had an outstanding balance of \$173 billion. The Secretary is also authorized to suspend investments in the CSRDF and to declare a debt issuance suspension period, which allows him or her to redeem a limited amount of securities held by the CSRDF. The Postal Accountability and Enhancement Act of 2006 provides that investments in the Postal Service Retiree Health Benefits Fund shall be made in the same manner as investments in the CSRDF.<sup>19</sup> Therefore, Treasury is able to take similar administrative actions with the PSRHBFB. The law requires that when any such actions are taken with the G-Fund, the CSRDF, or the PSRHBFB, the Secretary is required to make the fund whole after the debt limit has been raised by restoring the forgone interest and investing the fund fully. Another measure for staying below the debt limit is disinvestment of the Exchange Stabilization Fund. The outstanding balance in the Exchange Stabilization Fund was \$23 billion at the end of December 2013.

As the debt nears the limit, including in 2013 and 2014, Treasury has also suspended the issuance of SLGS to reduce unanticipated fluctuations in the level of the debt.

In addition to these steps, Treasury has previously exchanged Treasury securities held by the CSRDF with borrowing by the FFB, which, as explained above, is not subject to the debt limit. This measure was most recently taken in November 2004 and October 2013.

The debt limit has always been increased prior to the exhaustion of Treasury’s limited available administrative actions to continue to finance Government operations when the statutory ceiling has been reached. Failure to enact a debt limit increase before these actions were exhausted would have significant and long-term negative consequences. Without an increase, Treasury would be unable to make timely interest payments or redeem maturing securities. Investors would cease to view U.S.

<sup>17</sup> At the end of 2013, there were also \$18 million of FHA debentures not subject to limit.

<sup>18</sup> The Acts and the statutory limits since 1940 are listed in *Historical Tables, Budget of the United States Government, Fiscal Year 2015*, Table 7.3.

<sup>19</sup> Both the CSRDF and the PSRHBFB are administered by the Office of Personnel Management.

**Table 4-6. FEDERAL FUNDS FINANCING AND CHANGE IN DEBT SUBJECT TO STATUTORY LIMIT**

(In billions of dollars)

Description	Actual 2013	Estimate										
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
<b>Change in Gross Federal Debt:</b>												
Federal funds deficit (+) .....	765.9	743.7	668.9	621.6	573.9	538.4	556.3	550.0	539.8	526.2	476.8	429.8
Other transactions affecting borrowing from the public --												
Federal funds <sup>1</sup> .....	20.6	271.3	126.6	134.6	130.0	114.7	109.6	109.3	107.9	106.9	110.1	112.1
Increase (+) or decrease (–) in Federal debt held by Federal funds .....	9.1	38.7	42.3	42.8	47.1	47.2	44.6	47.6	41.7	51.2	53.7	55.9
Adjustments for trust fund surplus/deficit not invested/ disinvested in Federal securities <sup>2</sup> .....	–127.2	119.5	–17.0	–1.0	–1.0	–0.9	–0.8	–0.8	–0.8	–0.9	–0.6	–0.5
Change in unrealized discount on Federal debt held by Government accounts .....	0.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total financing requirements .....</b>	<b>668.5</b>	<b>1,173.2</b>	<b>820.8</b>	<b>798.1</b>	<b>750.1</b>	<b>699.3</b>	<b>709.7</b>	<b>706.1</b>	<b>688.6</b>	<b>683.3</b>	<b>639.9</b>	<b>597.3</b>
<b>Change in Debt Subject to Limit:</b>												
Change in gross Federal debt .....	668.5	1,173.2	820.8	798.1	750.1	699.3	709.7	706.1	688.6	683.3	639.9	597.3
Less: increase (+) or decrease (–) in Federal debt not subject to limit .....	–0.9	8.3	–0.9	–2.4	–2.5	–2.1	–2.5	–2.6	–2.1	–2.3	–2.9	–2.7
Less: change in adjustment for discount and premium <sup>3</sup> .....	–3.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total, change in debt subject to limit .....</b>	<b>672.4</b>	<b>1,164.9</b>	<b>821.8</b>	<b>800.5</b>	<b>752.6</b>	<b>701.5</b>	<b>712.2</b>	<b>708.7</b>	<b>690.7</b>	<b>685.6</b>	<b>642.8</b>	<b>600.0</b>
<b>Memorandum:</b>												
<b>Debt subject to statutory limit <sup>4</sup> .....</b>	<b>16,699.4</b>	<b>17,864.3</b>	<b>18,686.0</b>	<b>19,486.6</b>	<b>20,239.2</b>	<b>20,940.6</b>	<b>21,652.9</b>	<b>22,361.5</b>	<b>23,052.2</b>	<b>23,737.8</b>	<b>24,380.6</b>	<b>24,980.6</b>

<sup>1</sup> Includes Federal fund transactions that correspond to those presented in Table 4-2, but that are for Federal funds alone with respect to the public and trust funds.<sup>2</sup> Includes trust fund holdings in other cash assets and changes in the investments of the National Railroad Retirement Investment Trust in non-Federal securities.<sup>3</sup> Consists of unamortized discount (less premium) on public issues of Treasury notes and bonds (other than zero-coupon bonds).<sup>4</sup> Legislation enacted February 15, 2014, (P.L. 113-83) temporarily suspends the debt limit through March 15, 2015.

Treasury securities as free of credit risk and Treasury's interest costs would increase. Because interest rates throughout the economy are benchmarked to the Treasury rates, interest rates for State and local governments, businesses, and individuals would also rise. Foreign investors would likely shift out of dollar-denominated assets, driving down the value of the dollar and further increasing interest rates on non-Federal, as well as Treasury, debt. In addition, the Federal Government would be forced to delay or discontinue payments on its broad range of obligations, including Social Security and other payments to individuals, Medicaid and other grant payments to States, individual and corporate tax refunds, Federal employee salaries, payments to vendors and contractors, and other obligations.

The debt subject to limit is estimated to increase to \$17,864 billion by the end of 2014 and to \$18,686 billion by the end of 2015.

**Federal funds financing and the change in debt subject to limit.**—The change in debt held by the public, as shown in Table 4-2, and the change in debt net of financial assets are determined primarily by the total Government deficit or surplus. The debt subject to limit, however, includes not only debt held by the public but also debt held by Government accounts. The change in debt subject to limit is therefore determined both by the factors that determine the total Government deficit or surplus and by the factors that determine the change in debt held by Government accounts. The effect of debt held by Government accounts on the total debt subject to limit can be seen in the second part of Table 4-2. The change

in debt held by Government accounts results in 15 percent of the estimated total increase in debt subject to limit from 2014 through 2024.

The budget is composed of two groups of funds, Federal funds and trust funds. The Federal funds, in the main, are derived from tax receipts and borrowing and are used for the general purposes of the Government. The trust funds, on the other hand, are financed by taxes or other receipts dedicated by law for specified purposes, such as for paying Social Security benefits or making grants to State governments for highway construction.<sup>20</sup>

A Federal funds deficit must generally be financed by borrowing, which can be done either by selling securities to the public or by issuing securities to Government accounts that are not within the Federal funds group. Federal funds borrowing consists almost entirely of Treasury securities that are subject to the statutory debt limit. Very little debt subject to statutory limit has been issued for reasons except to finance the Federal funds deficit. The change in debt subject to limit is therefore determined primarily by the Federal funds deficit, which is equal to the difference between the total Government deficit or surplus and the trust fund surplus. Trust fund surpluses are almost entirely invested in securities subject to the debt limit, and trust funds hold most of the debt held by Government accounts. The trust fund surplus reduces the total budget deficit or increases the total budget surplus, decreasing the need to borrow from the public or increasing the ability to repay borrowing from the public. When

<sup>20</sup> For further discussion of the trust funds and Federal funds groups, see Chapter 26, "Trust Funds and Federal Funds."

**Table 4–7. FOREIGN HOLDINGS OF FEDERAL DEBT**

(Dollar amounts in billions)

Fiscal Year	Debt held by the public			Change in debt held by the public <sup>2</sup>	
	Total	Foreign <sup>1</sup>	Percentage foreign	Total	Foreign
1965 .....	260.8	12.3	4.7	3.9	0.3
1970 .....	283.2	14.0	5.0	5.1	3.8
1975 .....	394.7	66.0	16.7	51.0	9.2
1980 .....	711.9	121.7	17.1	71.6	1.4
1985 .....	1,507.3	222.9	14.8	200.3	47.3
1990 .....	2,411.6	463.8	19.2	220.8	72.0
1995 .....	3,604.4	820.4	22.8	171.3	138.4
2000 .....	3,409.8	1,038.8	30.5	–222.6	–242.6
2005 .....	4,592.2	1,929.6	42.0	296.7	135.1
2006 .....	4,829.0	2,025.3	41.9	236.8	95.7
2007 .....	5,035.1	2,235.3	44.4	206.2	210.0
2008 .....	5,803.1	2,802.4	48.3	767.9	567.1
2009 .....	7,544.7	3,570.6	47.3	1,741.7	768.2
2010 .....	9,018.9	4,324.2	47.9	1,474.2	753.6
2011 .....	10,128.2	4,912.1	48.5	1,109.3	587.9
2012 .....	11,281.1	5,476.0	48.5	1,152.9	563.9
2013 .....	11,982.6	5,652.9	47.2	701.4	176.9

<sup>1</sup> Estimated by Treasury Department. These estimates exclude agency debt, the holdings of which are believed to be small. The data on foreign holdings are recorded by methods that are not fully comparable with the data on debt held by the public. Projections of foreign holdings are not available. The estimates include the effects of benchmark revisions in 1984, 1989, 1994, and 2000, annual June benchmark revisions for 2002–2010, and additional revisions.

<sup>2</sup> Change in debt held by the public is defined as equal to the change in debt held by the public from the beginning of the year to the end of the year.

the trust fund surplus is invested in Federal securities, the debt held by Government accounts increases, offsetting the decrease in debt held by the public by an equal amount. Thus, there is no net effect on gross Federal debt.

Table 4–6 derives the change in debt subject to limit. In 2013 the Federal funds deficit was \$766 billion, and other factors increased financing requirements by \$21 billion. The change in the Treasury operating cash balance increased financing requirements by \$3 billion and the net financing disbursements of credit financing accounts increased financing requirements by \$132 billion, largely offset by other factors, which decreased financing requirements by \$114 billion. As discussed earlier in this chapter, this net \$114 billion in other factors was mainly due to the suspension of investment of the TSP G-Fund, undertaken as an extraordinary measure to continue Federal Government operations while at the debt ceiling. In addition, special funds and revolving funds, which are part of the Federal funds group, invested a net of \$9 billion in Treasury securities. A \$127 billion adjustment is also made for the difference between the trust fund surplus or deficit and the trust funds' investment or disinvestment in Federal securities (including the changes in NRRIT's investments in non-Federal securities). As discussed above, this unusually large adjustment amount is due primarily to the extraordinary measures taken with the

CSRDF. As a net result of all these factors, \$669 billion in financing was required, increasing gross Federal debt by that amount. Since Federal debt not subject to limit decreased by \$1 billion and the adjustment for discount and premium changed by \$3 billion, the debt subject to limit increased by \$672 billion, while debt held by the public increased by \$701 billion.

Debt subject to limit is estimated to increase by \$1,165 billion in 2014 and by \$822 billion in 2015. The projected increases in the debt subject to limit are caused by the continued Federal funds deficit, supplemented by the other factors shown in Table 4–6. While debt held by the public increases by \$7,003 billion from the end of 2013 through 2024, debt subject to limit increases by \$8,281 billion.

### Foreign Holdings of Federal Debt

During most of American history, the Federal debt was held almost entirely by individuals and institutions within the United States. In the late 1960s, foreign holdings were just over \$10 billion, less than 5 percent of the total Federal debt held by the public. Foreign holdings began to grow significantly starting in 1970 and now represent almost half of outstanding debt. This increase has been almost entirely due to decisions by foreign central banks, corporations, and individuals, rather than the direct marketing of these securities to foreign residents.

Foreign holdings of Federal debt are presented in Table 4–7. At the end of 2013, foreign holdings of Treasury debt were \$5,653 billion, which was 47 percent of the total debt held by the public.<sup>21</sup> Foreign central banks and foreign official institutions owned 71 percent of the foreign holdings of Federal debt; private investors owned nearly all the rest. At the end of 2013, the nations holding the largest shares of U.S. Federal debt were China, which held 23 percent of all foreign holdings, and Japan, which held 21 percent. All of the foreign holdings of Federal debt are denominated in dollars.

Although the amount of foreign holdings of Federal debt has grown greatly over this period, the proportion that foreign entities and individuals own, after increasing abruptly in the very early 1970s, remained about 15–20 percent until the mid-1990s. During 1995–97, however, growth in foreign holdings accelerated, reaching 33 percent by the end of 1997. Foreign holdings of Federal debt resumed growth in the following decade, increasing from 34 percent at the end of 2002 to 42 percent at the end of 2004 and to 48 percent at the end of 2008. Since 2008, foreign holdings have remained relatively stable as a percentage of Federal debt. Foreign holdings fell from 49 percent at the end of 2012 to 47 percent at the end of 2013. The increase in foreign holdings was about 25 percent of total Federal borrowing from the public in 2013 and 46 percent over the last five years.

Foreign holdings of Federal debt are around 25 percent of the foreign-owned assets in the United States, depending on the method of measuring total assets. The foreign purchases of Federal debt securities do not measure the

full impact of the capital inflow from abroad on the market for Federal debt securities. The capital inflow supplies additional funds to the credit market generally, and thus affects the market for Federal debt. For example, the capital inflow includes deposits in U.S. financial intermediaries that themselves buy Federal debt.

### **Federal, Federally Guaranteed, and Other Federally Assisted Borrowing**

The Government's effects on the credit markets arise not only from its own borrowing but also from the direct loans that it makes to the public and the provision of assistance to certain borrowing by the public. The Government guarantees various types of borrowing by individuals, businesses, and other non-Federal entities, thereby providing assistance to private credit markets. The Government is also assisting borrowing by States through the Build America Bonds program, which subsidizes the interest that States pay on such borrowing. In addition, the Government has established private corporations—Government-Sponsored Enterprises—to provide financial intermediation for specified public purposes; it exempts the interest on most State and local government debt from income tax; it permits mortgage interest to be deducted in calculating taxable income; and it insures the deposits of banks and thrift institutions, which themselves make loans.

Federal credit programs and other forms of assistance are discussed in Chapter 20, "Credit and Insurance," in this volume. Detailed data are presented in tables accompanying that chapter.

<sup>21</sup> The debt calculated by the Bureau of Economic Analysis is different, though similar in size, because of a different method of valuing securities.