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# Tax-Exempt Bonds: A Description of State and Local Government Debt

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## Summary

This report provides information about state and local government debt. State and local governments often issue debt instruments in exchange for the use of individuals' and businesses' savings. This debt obligates state and local governments to make interest payments for the use of these savings and to repay, at some time in the future, the amount borrowed. State and local governments finance capital facilities with debt rather than out of current tax revenue in order to match the time pattern of benefits from these capital facilities with the time pattern of tax payments.

The federal government subsidizes the cost of most state and local debt by excluding the interest income from federal income taxation. This tax exemption of interest income is granted because it is believed that state and local capital facilities will be under provided if state and local taxpayers have to pay the full cost. The federal government also provides a tax preference through tax credit bonds (TCBs). With TCBs, the federal government either provides investors with a federal tax credit in lieu of interest payments or a direct payment to the issuer. Qualified Zone Academy Bonds and Build America Bonds are examples. For more on TCBs, see CRS Report R40523, *Tax Credit Bonds: Overview and Analysis*, by (name redacted).

State and local debt is issued as bonds, to be repaid over a period of time greater than one year and perhaps exceeding 20 years, and as notes, to be repaid within one year. General obligation bonds are secured by the promise to repay with general tax revenue, and revenue bonds are secured with the promise to use the stream of revenue generated by the facility built with the bond proceeds. Most debt is issued to finance new capital facilities, but some is issued to refund a prior bond issue (usually to take advantage of lower interest rates). Tax-exempt bonds issued for some activities are classified as governmental bonds and can be issued without federal constraint because most of the benefits from the capital facilities are enjoyed by the general public. Many tax-exempt revenue bonds are issued for activities Congress has classified as private because most of the benefits from the activities appear to be enjoyed by private individuals and businesses. The annual volume of a subset of these tax-exempt private-activity bonds is capped. For more on private activity bonds, see CRS Report RL31457, *Private Activity Bonds: An Introduction*, by (name redacted).

Arbitrage bonds devote a substantial share of the proceeds to the purchase of assets with higher interest rates than that being paid on the tax-exempt bonds. Such arbitrage bonds are not tax exempt because Congress does not want state and local governments to issue tax-exempt bonds and use the proceeds to earn arbitrage profits. The arbitrage profits could substitute for state and local taxes.

One major policy issue in this area is tax reform proposals that would modify the tax treatment of state and local government bonds. Another policy issue is whether constraints should be relaxed on the types of activities, such as infrastructure spending, for which entities can issue tax-exempt debt. The list of activities that classify tax-exempt private-activity bonds—and whether they should be included in the volume cap—is another area of potential change or reform. This report will be updated as new data become available.

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## What Is Debt?

Individuals and businesses lend their accumulated savings to borrowers. In exchange, borrowers give lenders a debt instrument. These debt instruments, typically called bonds, represent a promise by borrowers to pay interest income to lenders on the principal (the amount of money borrowed) until the principal is repaid to the lenders. This principal, sometimes called the proceeds, is typically used to finance the construction of capital facilities, but is also used for cash management purposes when revenue collections do not match spending needs during the fiscal year.

## Why Do State and Local Governments Issue Debt?

Since public capital facilities provide services over a long period of time, it makes financial and economic sense to pay for the facilities over a similarly long period of time. This is particularly true for state and local governments. Their taxpayers lay claim to the benefits from these facilities by dint of residency and relinquish their claim to benefits when they move. Given the demands a market-oriented society places on labor mobility, taxpayers are reluctant to pay today for state and local capital services to be received in the future. The rational response of the state or local official concerned with satisfying the preferences of constituents is to match the timing of the payments to the flow of services, precisely the function served by long-term bond financing. An attempt to pay for capital facilities “up front” is likely to result in a less than optimal rate of public capital formation.

State and local governments are also faced with the necessity of planning their budget for the year (or in some cases for two years). This requires a balancing of revenue forecasts against forecasts of the demand for services and spending. Not infrequently, the inevitable unforeseen circumstances that undermine any forecast cause a revenue shortfall, which must be financed with short-term borrowing, or “notes.” In addition, even when the forecasts are met, the timing of expenditures may precede the arrival of revenues, creating the necessity to borrow within an otherwise balanced fiscal year. Finally, temporarily high interest rates that prevail at the time bonds are issued to finance a capital project may induce short-term borrowing in anticipation of a drop in rates.

Thus, state and local governments have valid reasons to borrow funds. In fact, these reasons are so universally accepted that both taxpayers and the courts have ignored the 19<sup>th</sup> century legacy of unrealistically restrictive constitutional and statutory limitations on state and local borrowing.<sup>1</sup>

## What Makes State and Local Debt Special?

The federal government has chosen to intervene in the public capital market by granting the debt instruments of state and local governments a unique privilege—the exemption of interest income earned on these bonds from federal income tax. The tax exemption lowers the cost of capital for state and local governments, which should then induce an increase in state and local capital

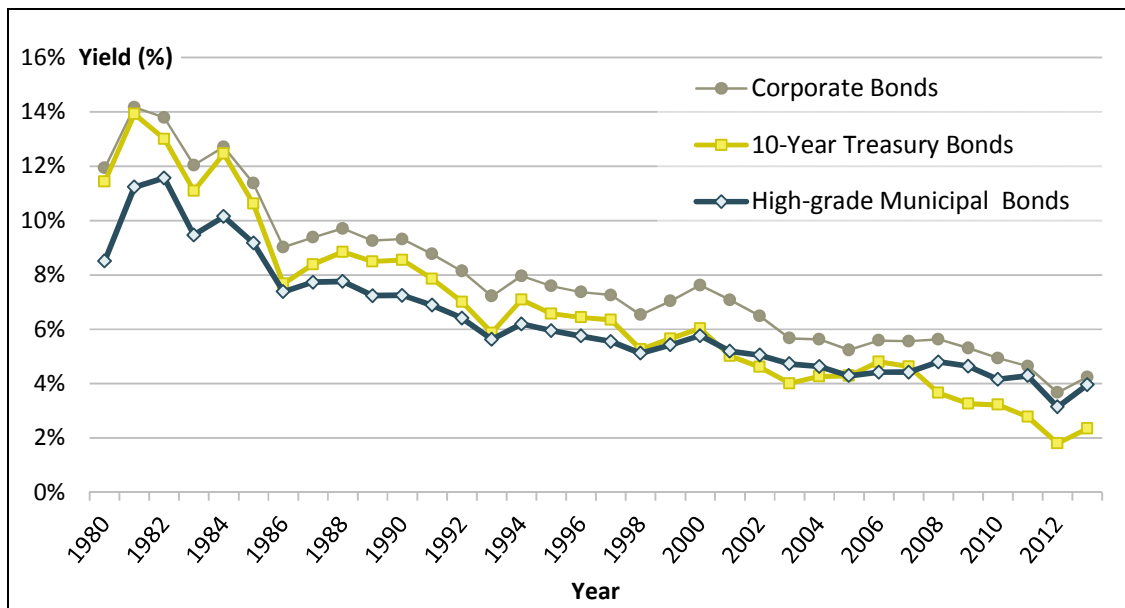
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<sup>1</sup> (name redacted), “History of Municipal Bonds,” in his *The Private Use of Tax-Exempt Bonds: Controlling the Public Subsidy of Private Activity* (Washington, The Urban Institute Press, 1991), pp. 17-27.

formation. The lower cost of capital arises because investors would be indifferent between taxable bonds (e.g., corporate bonds) that yield a 10% rate of return before taxes and tax-exempt bonds of equivalent risk that yield a 6.5% return. The taxable bond interest earnings carry a tax liability (35% of the interest income in most cases), making the after-tax return on the two bonds identical at 6.5%. Thus, state and local governments could raise capital from investors at an interest cost 3.5 percentage points (350 basis points) lower than a borrower issuing taxable debt.

Generally, the degree to which tax-exempt debt is favored is measured in a variety of ways. Two are fairly common: the yield spread and the yield ratio. The yield spread is the difference between the interest rate on taxable bonds (corporate bonds or U.S. Treasury bonds) and the interest rate on tax-exempt municipal bonds of equivalent risk. **Figure 1** displays the average yield on high-grade tax-exempt bonds and taxable bonds from 1980 to 2013 and the distance between them is the yield spread. Since 1980, the spread between tax-exempt and taxable bonds has declined as underlying interest rates have declined. The greater the yield spread, the greater are the nominal savings to state and local governments as measured by the interest rates they would have to pay if they financed with taxable debt.

**Figure 1. Tax-Exempt and Taxable Bonds: Yield Spread and Yield Ratio, 1980 to 2013**



**Source:** Council of Economic Advisors, Economic Report of the President, February 2014, Table B-17.

Another measure, the yield ratio (which is an average rate on tax-exempt bonds divided by an average rate on a taxable bond of like term and risk), adjusts the spread for the level of interest rates. A lower ratio implies a greater savings to state and local governments relative to taxable debt. As the ratio approaches one, however, tax-exempt borrowing approaches that of taxable borrowing. The ratio was lowest in 1980 and reached a peak in 2012 for Treasury bonds and in 2013 for corporate bonds. Since the financial crisis in 2007, the yield ratio of tax-exempt bonds to Treasury bonds has diverged significantly from the ratio of tax-exempt bonds to corporate bonds. Investors may be signaling that Treasury bonds and corporate bonds are no longer interchangeable investments.

These variations in the cost of state and local borrowing relative to the cost of taxable borrowing arise from changes in the demand for and supply of both tax-exempt and taxable bonds. Demand

for tax-exempt bonds depends upon the number of investors, their wealth, statutory tax rates, and alternative investment opportunities. Supply depends upon the desire of the state and local sector for capital facilities and their ability to engage in conduit financing (issuing state or local government bonds and passing the proceeds through to businesses or individuals for their private use). Almost all of the factors which influence demand and supply are affected by federal tax policy and fiscal policy.

## What Does Tax Exemption Cost the Federal Government?

The direct cost to the federal government of this interest exclusion is the individual and corporate income tax revenue forgone. Consider a 35% marginal tax rate corporate investor who purchases a 6.5% tax-exempt bond with principal of \$1,000 that is to be repaid after 20 years. Each year for 20 years this taxpayer receives \$65 in tax-exempt interest income. Each year the federal government forgoes collecting \$35 of revenue because the revenue loss is based upon the yield the taxpayer forgoes. For example, if the investor had purchased a taxable bond carrying a 10% interest rate, he would have received \$100 in interest income and paid \$35 in income taxes on that income.<sup>2</sup>

The annual federal revenue loss (or tax expenditure) on the outstanding stock of tax-exempt bonds issued for public purposes is reported in the *Analytical Perspectives* section of the Budget every year. The estimates for the last 20 years are displayed in **Table 1**.<sup>3</sup> Because they are based upon the outstanding stock of public-purpose tax-exempt bonds, it takes time for some legislative changes to show up in these data. The amount of forgone tax revenue from the exclusion of interest income on public-purpose tax-exempt bonds is substantial, \$28.4 billion in 2013. Over the 2015 to 2019 budget window, the estimated loss of revenue is expected to be \$213.8 billion, or the 12<sup>th</sup>-largest tax expenditure.<sup>4</sup>

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<sup>2</sup> The decision about preferred alternatives is critical to estimates of the revenue loss from tax-exempt bonds. An entire range of financial and real assets exists with different yields, risk, and degree of preferential taxation. It is not true that the municipal bond purchaser's preferred alternative is always a taxable bond.

<sup>3</sup> These estimates are derived by summing the revenue loss estimates for each activity listed in the tax expenditures budget. Technically, this is incorrect because each activity's revenue loss is calculated in isolation, and there are interactive effects. Nonetheless, without an estimate of the interactive effects' impact on revenue loss, the summing employed here provides the best available order of magnitude.

<sup>4</sup> Office of Management and Budget. *Analytical Perspectives: FY2015 Budget of the United States Government*, Table 14-3.

**Table I. Tax Expenditure on the Outstanding Stock of  
Public Purpose Tax-Exempt Bonds: 1994 to 2013**  
(in billions)

Year	Tax Expenditure	Year	Tax Expenditure
1994	\$19.6	2004	\$26.2
1995	\$20.4	2005	\$26.4
1996	\$24.9	2006	\$23.0
1997	\$19.9	2007	\$23.5
1998	\$24.6	2008	\$24.6
1999	\$27.5	2009	\$23.0
2000	\$26.8	2010	\$30.4
2001	\$27.4	2011	\$26.2
2002	\$29.9	2012	\$26.0
2003	\$31.1	2013	\$28.4

**Source:** Office of Management and Budget. Analytical Perspectives: Budget of the United States Government, Table I4-1 (in budget for FY2015), various years.

## Why Does the Federal Government Subsidize State and Local Debt?

When first introduced in 1913, the federal income tax excluded the interest income earned by holders of the debt obligations of states and their political subdivisions from taxable income. It was asserted by many that any taxation of this interest income would be unconstitutional because the exemption was protected by the Tenth Amendment and the doctrine of intergovernmental tax immunity. The U.S. Supreme Court rejected this claim of constitutional protection in 1988 in *South Carolina v. Baker* (485 U.S. 505, [1988]).

Although the legal basis for the subsidy is statutory rather than constitutional, the policy reason for the subsidy is economic. Economic theory suggests that certain types of goods and services will not be provided in the correct or “optimal” amounts by the private sector because some of the benefits are consumed collectively, a street light for example. The nation’s welfare can be increased by public provision of these goods and services, and some of these public goods and services are best provided by state or local governments. Some of the goods and services provided by state or local governments, however, benefit both residents, who pay local taxes, and nonresidents, who pay minimal if any local taxes. Since state and local taxpayers are likely to be unwilling to provide these services to nonresidents without compensation, it is probable that state and local services will be under provided. In theory, the cost reduction provided by the exemption of interest income compensates state and local taxpayers for benefits provided to nonresidents. This encourages the governments to provide the optimal amount of public services.

## Classifying State and Local Debt Instruments

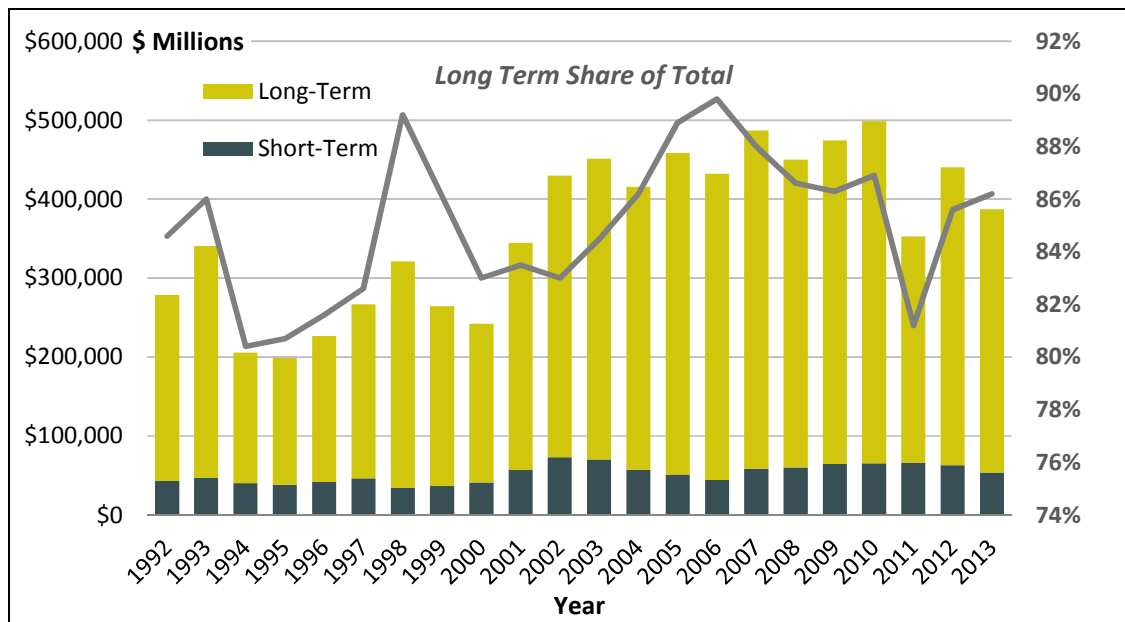
State and local debt can be classified based on (1) the *maturity* (or term), which is the length of time before the principal is repaid; (2) the *type of security*, which is the financial backing for the debt; (3) the *use of the proceeds* for either new facilities or to refinance previously issued bonds; and (4) whether the *type of activity* being financed has a public or a private purpose. Another important factor is the level of risk. Just about every bond issued by a state or local government is rated based on the probability of default. The privately managed rating agencies incorporate all of the above factors as well as the financial health of the entity issuing the bonds when arriving upon a bond rating. The higher the default risk, the lower the rating.

### Maturity: Short-Term vs. Long-Term

#### Tax and Revenue Anticipation Notes

State and local governments must borrow money for long periods of time and for short periods of time. Long-term debt instruments are usually referred to as bonds, and carry maturities in excess of one year. Short-term debt instruments are usually referred to as notes, and carry maturities of 12 months or less. If the notes are to be paid from specific taxes due in the near future, they usually are called tax anticipation notes (TANs); if from anticipated intergovernmental revenue, they are called revenue anticipation notes (RANs). If the notes are to be paid from long-term borrowing (e.g., bonds), they are called bond anticipation notes (BANs). Tax anticipation notes and revenue anticipation notes are often grouped together and referred to as tax and revenue anticipation notes (TRANs). **Figure 2** displays the volume of long-term and short-term borrowing since 1992. Long-term borrowing dominates state and local debt activity in most years, with the long-term share peaking in 2006 at 89.8% of this market.

**Figure 2. Volume of State and Local Government Debt**



Source: The Bond Buyer Yearbook, 2014.



## **Auction Rate Securities**

Auction Rate Securities (ARSs) are long-term debt obligations with the unique feature of adjustable or variable interest rates.<sup>5</sup> In contrast to long-term, fixed rate securities, issuers go to auction periodically (anywhere from every 7 to 35 days) to reset the interest rate on the debt outstanding. The auction mechanism and interest rate parameters vary by issuer (and issue) though most use what is termed a “Dutch auction” where each bidder submits a bid for the amount they are willing to purchase at a given interest rate. All bids are ordered from lowest interest rate to highest interest rate and the rate where the market clears, that is, where all bonds would be purchased, establishes the new ARS rate. All bidders receive that rate.

### ***Unique Features of ARSs***

ARSs typically have a “call option” where the issuer can buy the ARS back at par (face value) at any scheduled auction and then retire the debt. Most ARSs are insured by the issuer because they *do not* carry a “put” option that would allow bondholders to sell the bonds at a specified price to the issuer or a designated third party. The bond insurance reduces risk and thus interest rate, making the bonds less costly to issuers. For this reason, ARSs are

very sensitive to changes in credit ratings and normally require the highest ratings (e.g. AAA/Aaa) to make them marketable. This is usually achieved with bond insurance.<sup>6</sup>

### ***A Failed Auction***

The existing holders of ARSs offer bids as well as new bidders. If all bids of both existing bond holders and new participants fail to clear the market, the auction is termed a “failed auction.” In this scenario, the original agreement with bondholder stipulates a “reservation” interest rate the issuer must pay in the event of a failed auction at least until the next successful auction. The reservation rate is typically significantly higher than current market interest rates. Because the rate is higher than market interest rates, issuers of ARSs wish to avoid paying the reservation rate.

### ***Growth and Decline of ARSs***

The issuance of ARSs grew considerably from 1988 through 2007. In 1988, the Bond Buyer identified one ARS issue valued at \$25 million; none were issued in 1987.<sup>7</sup> In 2004, the peak year, 438 ARS bonds valued at \$42.5 billion were issued. No ARSs have been issued since 2007, roughly corresponding to the beginning of the financial crisis, when 322 were sold for a total value of \$38.7 billion.

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<sup>5</sup> For more see CRS Report RL34672, *Auction-Rate Securities*, by (name redacted).

<sup>6</sup> Douglas Skarr, California Debt and Investment Advisory Commission, “Auction Rate Securities,” *Issue Brief*, Aug. 2004, pp. 2-3.

<sup>7</sup> *The Bond Buyer 2007 Yearbook*, SourceMedia Inc., New York, NY.

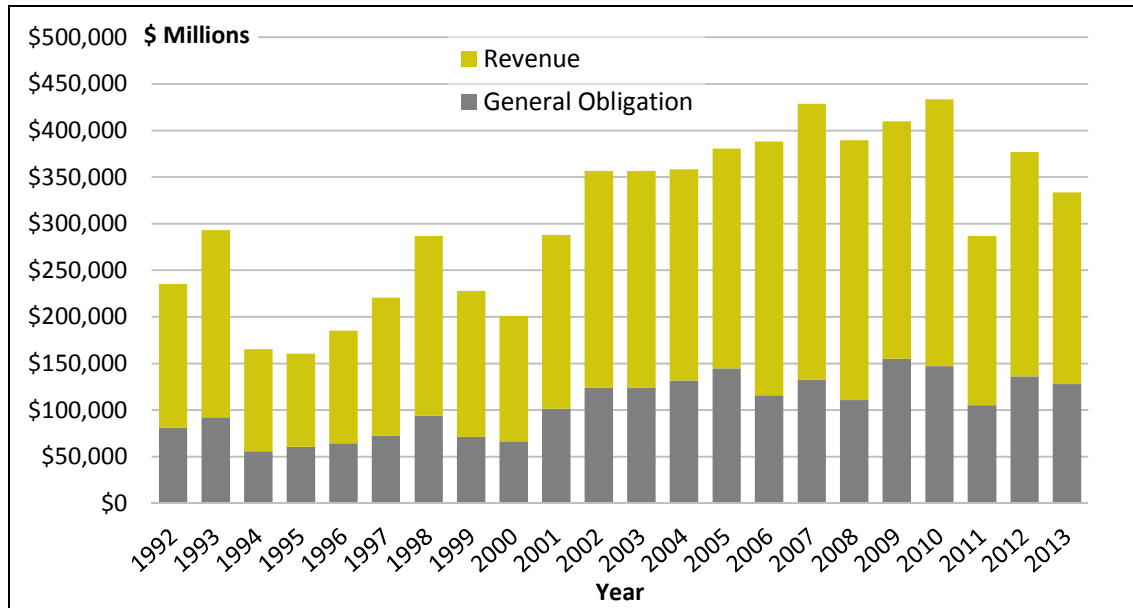
## **Security: General Obligation, Revenue, and Lease Rental Bonds**

Another important characteristic of tax-exempt bonds is the security provided to the bondholder. General obligation (GO) bonds pledge the full faith and credit of the issuing government. The issuing government makes an unconditional pledge to use its powers of taxation to honor its liability for interest and principal repayment. Revenue bonds, or non-guaranteed debt, pledge only the earnings from revenue-producing activities, most often the earnings from the facilities being financed with the revenue bonds. Should these earnings prove to be inadequate to honor these commitments, the issuing government is under no obligation to use its taxing powers to finance the shortfall. Some revenue bonds are issued with credit enhancements provided by insurance or bank letters of credit that guarantee payment upon such a revenue shortfall.

**Figure 3** displays the breakdown between long-term GO and revenue bonds since 1992. The long-term market has been and continues to be dominated by revenue bonds, which are nonguaranteed debt instruments. The revenue bond share has fluctuated between 61% and 72% from 1992 through 2013.

All tax-exempt interest income attributable to state and local governments does not appear in the form of bonds. Governments may engage in installment purchase contracts and finance leases for which the portion of the installment or lease payment to a vendor is tax exempt. For example, computer equipment or road building equipment could be leased from a vendor using a rental agreement or an installment sales contract. Under this type of agreement, the monthly payments to the vendor are large enough to cover the vendor's interest expense on the funds borrowed to purchase the equipment which was leased to the government. This portion that is attributable to interest income is not included in the vendor's taxable income. Such transactions are often referred to as municipal leasing.

**Figure 3. Volume of Long-Term Tax-Exempt Debt: General Obligation (GO) and Revenue Bonds, 1992 to 2013**  
(in millions)



Source: The Bond Buyer Yearbook, 2014.

Lease rental revenue bonds and certificates are variations on revenue bonds. An authority or nonprofit corporation issues bonds, builds a facility with the proceeds, and leases the facility to a municipality. Security for the bonds or certificates is based on the lease payments. When the bonds are retired, the facility belongs to the lessee (the municipality). An advantage to this type of arrangement is that many states' constitutional and statutory definitions do not consider this type of financing to be debt because the lease payments are annual operating expenses based upon appropriated monies.

The leasing technique has also been used to provide tax-exempt funds to nonprofit organizations. A municipality issues the bonds for the construction of a facility that is leased to a nonprofit hospital or university. Again, security for the bonds is based on the lease payments.

### Use of the Proceeds: New-Issue vs. Refunding Bonds

Long-term tax-exempt bond issues also can be characterized by their status as new issues or refunding issues. New issues represent bonds issued to finance new capital facilities. Refundings usually are made to replace outstanding bonds with bonds that carry lower interest rates or other favorable terms. As such, the refunding bonds usually do not add to the stock of outstanding bonds or the capital stock. The proceeds of the refunding bonds are used to pay off the remaining principal of the original bond issue, which is retired. Advance refunding bonds, however, do add to the outstanding stock of bonds without adding to the stock of capital. Advance refunding bonds are issued prior to the date on which the original bonds are refunded, so that for a period of time there are two bond issues outstanding to finance the same capital facilities.

The volume of refunding shares varies widely, depending to a great extent on changes in the relative magnitudes of taxable and tax-exempt interest rates. Note that the 1993 increase in the

top marginal individual income tax rates may have increased the demand for tax-exempt bonds. Higher tax rates make tax-exempt bonds more attractive relative to taxable bonds, all other things being equal. The increased demand and accompanying lower interest rates may have prompted state and local governments to replace outstanding issues with refunding bonds that carried lower interest rates. In contrast, refundings dropped considerably in 1999 and 2000. The decline could have been in response to higher interest rates or to strong economic conditions in most states which minimized the need for debt finance generally. The story is reversed from 2001 to 2003 as the economy slowed and state budgets were strained by lower tax revenue collections. New issues in 2003 were more than double the amount of new issues in 2000. In 2005, GO bonds and refunding bond volume peaked, likely reflecting the historically low interest rates on tax-exempt debt. The low rate environment since 2011 has also pushed up the share of refunding issues.

## Public Purpose vs. Private Purpose

An important characteristic of tax-exempt bonds is the purpose or activity for which the bonds are issued. Most of the tax legislation pertaining to tax-exempt bonds over the last 30 years reflects an effort to restrict tax exemption to bonds issued for activities that satisfy some broadly defined “public” purpose, that is, for which federal taxpayers are likely to receive substantial benefits. Bonds are considered to be for a public purpose if they satisfy either of two criteria: less than 10% of the proceeds are used directly or indirectly by a non-governmental entity; or less than 10% of the bond proceeds are secured directly or indirectly by property used in a trade or business. Bonds that satisfy either of these tests are termed “governmental” bonds and can be issued without federal limit. Bonds that fail both of these tests are termed “private-activity” bonds (PABs) because they provide significant benefits to private individuals or businesses. These projects are ineligible for tax-exempt financing.

Activities which fail the two tests but are considered to provide both public and private benefits have been termed eligible or *qualified* PABs. These selected activities can be financed with tax-exempt bonds. **Table 2** provides the dollar value of new issues of tax-exempt private-activity bonds and their share of total private-activity volume capacity for 2012 and 2013. **Figure 4** provides historical data on the portion of PAB volume to total bond volume.

**Table 2. Private-Activity Bond Volume by Type of Activity in 2012 and 2013**

Capacity Allocation	Allocation in Billions		Percent of Capacity Available	
	2012	2013	2012	2013
<b>Total Volume Capacity Available</b>	<b>\$79,295.00</b>	<b>\$87,223.50</b>	<b>100.00%</b>	<b>100.00%</b>
New Volume Capacity	\$32,469.10	\$32,748.30	40.95%	37.55%
Carry Forward from Previous Years	\$50,611.10	\$56,445.30	63.83%	64.71%
<b>Total Carryforward to Next Year</b>	<b>\$46,678.70</b>	<b>\$60,220.00</b>	<b>58.87%</b>	<b>69.04%</b>
<b>Total PABs Issued</b>	<b>\$11,088.80</b>	<b>\$8,824.30</b>	<b>13.98%</b>	<b>10.12%</b>
Single-family Mortgage Revenue	\$2,654.40	\$1,828.20	3.35%	2.10%

Capacity Allocation	Allocation in Billions		Percent of Capacity Available	
	2012	2013	2012	2013
Multi-family Housing <sup>a</sup>	\$5,003.90	\$4,722.30	6.31%	5.41%
Mortgage Credit Certificates	\$2,564.70	\$3,441.20	3.23%	3.95%
Exempt Facilities	\$7,391.30	\$6,076.00	9.32%	6.97%
Other Activities	\$30.10	\$84.20	0.04%	0.10%
Student Loans	\$772.00	\$480.20	0.97%	0.55%
Industrial Development	\$240.40	\$355.80	0.30%	0.41%
<b>Abandon Capacity</b>	<b>\$6,604.80</b>	<b>\$11,751.60</b>	<b>8.33%</b>	<b>13.47%</b>

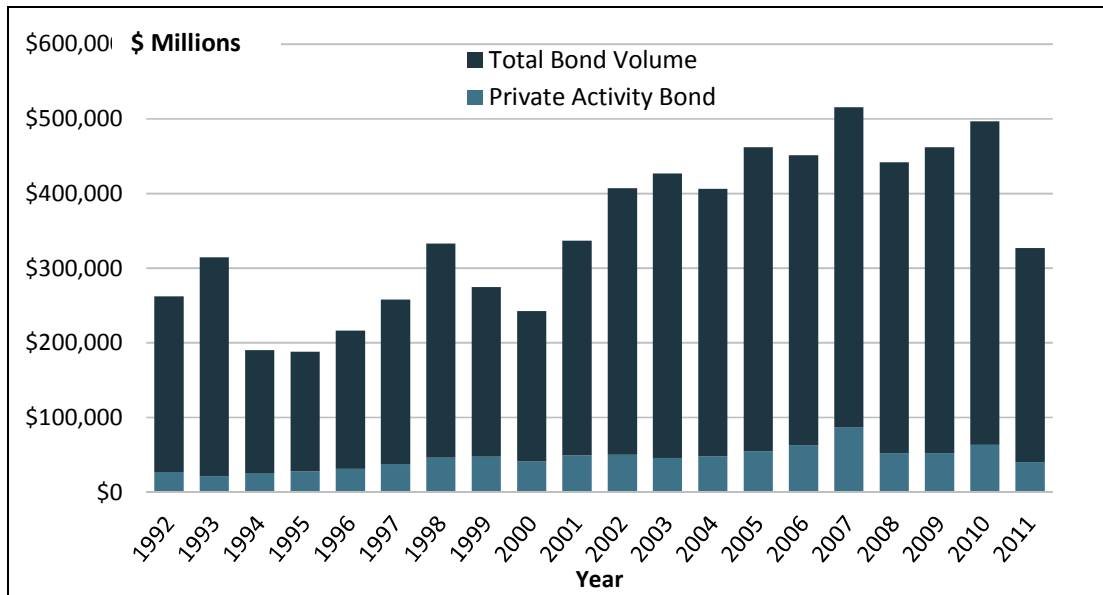
**Source:** “CDFA’s 2013 Annual Volume Cap Report,” July 2014; and “CDFA’s 2012 Annual Volume Cap Data,” July 2014. The data are available at <http://www.cdfa.net/>.

a. Multifamily housing bonds are an allowable use of exempt facility bonds and are also included in the “Exempt Facility” category.

## Private Activities Eligible for Tax Exemption

All tax-exempt private-activity bonds are subject to restrictions that do not apply to governmental bonds, chief among them being no advance refundings and the inclusion of the interest income in the alternative minimum income tax base. In addition, the annual dollar value of all bonds issued for most of these activities by all governmental units within a state is limited to the greater of \$100 per resident or \$348.91 million in 2014.

**Figure 4. New-Money and Long-Term Private-Activity Bond Volume, 1992 to 2011**



**Source:** The 1992 to 1995 data are from Nutter, Sarah, “Tax-Exempt Private Activity Bonds, 1988-1995,” *SOI Bulletin*, Summer 1999; Belmonte, Cynthia, “Tax-Exempt Bonds, 2003-2004,” *SOI Bulletin*, Fall 2006; Belmonte, Cynthia, “Tax-Exempt Bonds, 2005,” *SOI Bulletin*, Fall 2007; and for later years the IRS data are available at

<http://www.irs.ustreas.gov/taxstats/charitablestats/article/0,,id=97029,00.html>. Total long-term bond volume data are from the *Bond Buyer Yearbook 2014*.

The cap has been adjusted for inflation since 2004. The annual volume cap applies to the total of bonds issued primarily for but not limited to multi- and single-family housing, industrial development, exempt facilities,<sup>8</sup> student loans, and bond-financed takeovers of investor-owned utilities (usually electric utilities).

Bonds issued for several activities classified as private are not subject to the volume cap if the facilities are governmentally owned.<sup>9</sup> These activities are airports, docks, and wharves; nonprofit organization facilities; high-speed inter-urban rail facilities; and solid waste disposal facilities that produce electric energy. **Table 3** below reports the estimated tax expenditure for selected private activities that qualify for financing with tax-exempt debt.

Recently, Congress has further expanded the types of private activities eligible for tax-exempt financing and has increased the capacity for selected activities and issuers. A brief description of legislation that Congress has enacted since 2001 follows below.

**Table 3. Federal Tax Expenditure for Selected Private Activities  
Financed with Tax-Exempt Bonds**

Private Activity	2013 Tax Expenditure (in millions)	Percentage of Total
<i>Total of Selected Activities</i>	\$10,020	100.00%
Energy Facilities	\$20	0.20%
Water, Sewerage, and Hazardous Waste Disposal	\$450	4.49%
Small-Issues	\$170	1.70%
Owner-Occupied Mortgage Subsidy	\$1,230	12.28%
Rental Housing	\$1,000	9.98%
Airports, Docks, and Similar Facilities	\$740	7.39%
Student Loans	\$510	5.09%
Private Nonprofit Educational Facilities	\$2,240	22.36%
Hospital Construction	\$3,430	34.23%
Veterans' Housing	\$10	0.10%
GO Zone and GO Zone Mortgage	\$220	2.20%

**Source:** Office of Management and Budget. *Analytical Perspectives: Budget of the United States Government, Fiscal Year 2015*, Table 14-1, pp. 205-209.

<sup>8</sup> Exempt facilities subject to the volume cap are the following: mass commuting facilities, water furnishing, sewage treatment, solid waste disposal, residential rental projects, electric energy or gas furnishing, local district heating or cooling provision, and hazardous waste disposal and 25% of high-speed rail facility bonds. 26 I.R.C. §141(e), §142(a), and §146(g).

<sup>9</sup> This does not mean governmental ownership in the conventional sense. It simply means that lease arrangements for private management and operation of bond-financed facilities must be structured to deny accelerated depreciation benefits to the private operator, lease length must conform to the facility's expected service life, and any sale of the facility to the private operator must be made at fair market value. 26 I.R.C. §146(g).

### ***Economic Growth and Tax Relief Reconciliation Act of 2001***

As part of the Economic Growth and Tax Relief Reconciliation Act of 2001 (P.L. 107-16), a new type of tax-exempt private-activity bond was created beginning on January 1, 2002.<sup>10</sup> The act expanded the definition of “an exempt facility bond” to include bonds issued for qualified public educational facilities. Bonds issued for qualified educational facilities are not counted against a state’s private-activity volume cap. However, the qualified public educational facility bonds have their own volume capacity limit equal to the greater of \$10 multiplied by the state population or \$5 million. Since nearly all states would be better off with the \$10 per capita limit, the potential new debt would have been approximately \$2.8 billion in 2001 if the bonds were available in 2001.

### ***Job Creation and Worker Assistance Act of 2002***

The JCWA 2002 (P.L. 107-147) created the New York Liberty Zone (NYLZ) in the wake of the September 11, 2001, terrorist attacks. The legislation included several tax benefits for the NYLZ intended to foster economic revitalization within the NYLZ. Specifically, the so-called “Liberty Bond” program allows New York State (in conjunction and coordination with New York City) to issue up to \$8 billion of tax-exempt private-activity bonds for qualified facilities in the NYLZ. Qualified facilities follow the exempt facility rules within Section 142 of the IRC. The original deadline to issue the bonds was January 1, 2005, but was extended to January 1, 2014, by the American Taxpayer Relief Act (P.L. 112-240).

### ***American Jobs Creation Act***

In 2004, the American Jobs Creation Act (P.L. 108-357) created bonds for “qualified green building and sustainable design projects.” The bonds are exempt from the state volume cap and are instead limited to an aggregate of \$2 billion for bonds issued between January 1, 2005, and October 1, 2009.

### ***The Safe, Accountable, Flexible, Efficient, Transportation Equity Act of 2005***

This legislation created a new type of tax-exempt private activity bond for the construction of rail to highway (or highway to rail) transfer facilities. The national limit is \$15 billion and the bonds are not subject to state volume caps for private activity bonds. The Secretary of Transportation allocates the bond authority on a project-by-project basis.

### ***Gulf Opportunity Zone Act of 2005***

The hurricanes that struck the Gulf region in late summer 2005 prompted Congress to create a tax-advantaged economic development zone intended to encourage investment and rebuilding in the Gulf region. The Gulf Opportunity Zone (GOZ) was comprised of the counties where the Federal Emergency Management Agency (FEMA) declared the inhabitants to be eligible for individual and public assistance. Based on proportion of state personal income, the Katrina-

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<sup>10</sup> For a more extensive explanation of the tax exempt bond provisions in EGTRRA, see CRS Report RS20932, *Tax-Exempt Bond Provisions in the "Economic Growth and Tax Relief Reconciliation Act of 2001"*, by (name redacted).

affected portion of the GOZ represents approximately 73% of Louisiana's economy, 69% of Mississippi's, and 18% of Alabama's.

Specifically, the "Gulf Opportunity Zone Act of 2005" (GOZA 2005, P.L. 109-135) contained two provisions that expanded the amount of private-activity bonds outstanding and language to relax the eligibility rules for mortgage revenue bonds. The most significant is the provision that increased the volume cap for private-activity bonds issued for Hurricane Katrina recovery in Alabama, Louisiana, and Mississippi (identified as the Gulf Opportunity Zone, or "GO Zone"). GOZA 2005 added \$2,500 per person in the federally declared Katrina disaster areas in which the residents qualified for individual and public assistance.

The increased volume capacity added approximately \$2.2 billion for Alabama, \$7.8 billion for Louisiana, and \$4.8 billion for Mississippi in aggregate over five years. The legislation defined "qualified project costs" that are eligible for bond financing as (1) the cost of any qualified residential rental project (26 §142(d)); and (2) the cost of acquisition, construction, reconstruction, and renovation of—(i) nonresidential real property (including fixed improvements associated with such property) and (ii) public utility property (26 §168(i)(10)), in the GOZ. The additional capacity was to have to been issued before January 1, 2011.

The second provision allowed for advance refunding of certain tax-exempt bonds. Under GOZA 2005, governmental bonds issued by Alabama, Louisiana, and Mississippi could be advance refunded an additional time and exempt facility private-activity bonds for airports, docks, and wharves once. Private-activity bonds are otherwise not eligible for advance refunding (see earlier discussion of advance refunding).

### ***The Housing and Economic Recovery Act of 2008***

In response to the housing crisis of 2008, Congress included two provisions in the Housing and Economic Recovery Act of 2008 (HERA; P.L. 110-289) that were intended to assist the housing sector. First, HERA provided that interest on qualified private activity bonds issued for (1) qualified residential rental projects, (2) qualified mortgage bonds, and (3) qualified veterans' mortgage bonds would not be subject to the AMT. In addition, HERA also created an additional \$11 billion of volume cap space for bonds issued for qualified mortgage bonds and qualified bonds for residential rental projects. The cap space was designated for 2008 but could have been carried forward through 2010.

### ***The American Recovery and Reinvestment Act of 2009***

In response to the financial crisis and economic recession, Congress included several bond-related provisions in the American Recovery and Reinvestment Act of 2009 (ARRA; P.L. 111-5). The following three provisions were intended to make bond finance less expensive for the designated projects. One expanded the definition of qualified manufacturing facilities (under §144(a)(12)(C)) to include the creation and production of intangible property including patents, copyrights, formulae, etc. Before ARRA, only tangible property was eligible. The second created a new category of private activity bond called "recovery zone facility bonds." The bonds were to be used for investment in infrastructure, job training, education, and economic development in economically distressed areas. The bonds, which were subject to a separate national cap of \$15 billion were allocated to the states based on the decline in employment in 2008. The bonds were to be issued in 2009 and 2010.



A third provision provided \$2 billion for tribal governments to issue tax-exempt bonds for economic development purposes. The tax code currently allows tribal governments to issue debt for “essential government services” only. Many economic development projects would not qualify absent this ARRA provision.

## **What Are Arbitrage Bonds?**

Many individuals and businesses make money by engaging in arbitrage, borrowing money at one interest rate and lending that borrowed money to others at a higher interest rate. The difference between the rate at which one borrows and the rate at which one lends produces arbitrage earnings. At its most basic level, it is the primary activity of commercial banks—pay depositors an interest rate of “x” and use the deposits to make commercial, automobile, and home loans at “x + y” interest rate. In this context, arbitrage is a time-honored and appropriate financial market activity.

That is not the case in the tax-exempt bond market. State and local governments do not pay federal income tax, and absent federal constraint, have unlimited capacity to issue debt at low interest rates and reinvest the bond proceeds in higher-yielding taxable debt instruments, thereby earning arbitrage profits. Unchecked, state and local governments could substitute arbitrage earnings for a substantial portion of their own citizens’ tax effort.

Congress has decided that such arbitrage should be limited, and that tax-exempt bond proceeds must be used as quickly as possible to pay contractors for the construction of the capital facilities for which the bonds were issued. Since it is impossible for bonds to be issued precisely when contractors must be paid for their expenses incurred in building public capital facilities, the tax law provides a three-year period to spend an increasing share of the bond proceeds. Bond issues that have unspent proceeds in excess of the allowed amounts during this three-year spend-down schedule must rebate any arbitrage earnings to the Department of the Treasury. Bond issues are considered to be taxable arbitrage bonds if a governmental unit, in violation of the arbitrage restriction in the tax code, invested a substantial portion of the proceeds “to acquire higher yielding investments, or to replace funds which were used directly or indirectly to acquire higher yielding investments.”<sup>11</sup>

## **What Are Tax Credit Bonds?**

Tax Credit Bonds (TCBs) are a type of bond that offers an investor a federal tax credit or the issuer a direct payment. Build America Bonds (BABs), which are no longer issued, are a type of TCB that offers a direct payment to the issuer.

There are a variety of other TCBs in addition to BABs. Qualified zone academy bonds (QZABs), which were the first tax credit bonds, were introduced as part of the Taxpayer Relief Act of 1997 (P.L. 105-34) and were first issued in 1998. Clean renewable energy bonds (CREBs) were created by the Energy Policy Act of 2005 (P.L. 109-58) and “new” CREBs by the Emergency Economic Stabilization Act of 2008 (P.L. 110-343). Gulf tax credit bonds (GTCBs) were created by the Gulf

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<sup>11</sup> 26 I.R.C. §148(a).

Opportunity Zone Act of 2005 (P.L. 109-135), but authority to issue GTCBs has expired. Qualified forestry conservation bonds (QFCBs) were created by the Food, Conservation, and Energy Act of 2008 (P.L. 110-246). Qualified energy conservation bonds (QECBs) and Midwest Disaster Bonds (MWDBs) were created by the Emergency Economic Stabilization Act of 2008 (P.L. 110-343).

The American Recovery and Reinvestment Act of 2009 (P.L. 111-5, ARRA) included several bond provisions that use a tax credit or issue direct payment. Specifically, ARRA created Qualified School Construction Bonds (QSCBs), BABs, and Recovery Zone Economic Development Bonds (RZEDBs). Unlike other tax credit bonds, the interest rate on the BABs and RZEDBs is a rate agreed to by the issuer and investor and the issuers receive direct payments from the Treasury. In contrast, the Secretary of the Treasury sets the credit rate for the other TCBs. The authority to issue BABs and RZEDBs expired after 2010.

Each TCB, with the exception of BABs, is designated for a specific purpose, location, or project. Issuers use the proceeds for public school construction and renovation; clean renewable energy projects; refinancing of outstanding government debt in regions affected by natural disasters; conservation of forest land; investment in energy conservation; and for economic development purposes. All of the TCBs are temporary tax provisions.

The QZAB and QSCB credit rate is set at 100% and the “new CREB” and QECB credit rate is set at 70% of the interest cost. In contrast, the BAB tax credit rate is 35%. QZABs are typically extended as part of so-called “extenders” legislation. They expired after 2013 but were retroactively extended through 2014 by the Tax Increase Prevention Act of 2014 (P.L. 113-295).

## Legislative Issues

Current legislative interest focuses on altering the tax treatment of state and local debt to provide a more economically efficient subsidy with a lower federal revenue cost.<sup>12</sup> There are three primary types of proposals that include changes to state and local government bonds—capping the preference, eliminating the preference, and changing the preference to a direct issuer subsidy. These three types can be seen in the following proposals. The President’s FY2015 budget proposal would include partial elimination of the tax preference by capping the preference at the 28% marginal tax rate. The Simpson-Bowles (SB) deficit reduction plan proposes complete elimination of the tax preference.<sup>13</sup> The Congressional Budget Office (CBO) “Revenue Options” report proposes eliminating the tax exemption for new qualified private activity bonds which would generate a budget savings of \$30 billion over the 2015 to 2024 budget window.<sup>14</sup> The direction of broader tax reform will likely dictate which modifications, if any, are made to the tax treatment of state and local government debt.

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<sup>12</sup> For more, see CRS Report R42396, *The Impact of Budget Proposals on Tax-Exempt Bonds*, by (name redacted).

<sup>13</sup> The White House, The National Commission on Fiscal Responsibility and Reform, *The Moment of Truth*, December 2010, available at [http://www.fiscalcommission.gov/sites/fiscalcommission.gov/files/documents/TheMomentofTruth12\\_1\\_2010.pdf](http://www.fiscalcommission.gov/sites/fiscalcommission.gov/files/documents/TheMomentofTruth12_1_2010.pdf).

<sup>14</sup> Congressional Budget Office, “Options for Reducing the Deficit: 2015 to 2024,” November 2014, p. 134. Available at <http://www.cbo.gov/budget-options/2014>.

## Suggested Readings

Hilhouse, Albert M. *Municipal Bonds: A Century of Experience* (New York: Prentice-Hall, 1936).

The classic history of the use and development of municipal bonds from their introduction in the 19<sup>th</sup> century.

U.S. Senate. Committee on the Budget. *Tax Expenditures: Compendium of Background Material on Individual Provisions*. S.Prt. 112-45. 112<sup>th</sup> Congress, 2<sup>nd</sup> session, December 2012.

Provides description, revenue loss estimate, and economic analysis of the effects of governmental bonds and each major category of private-activity bond.

Zimmerman, Dennis. *The Private Use of Tax-Exempt Bonds: Controlling Public Subsidy of Private Activity* (Washington: The Urban Institute Press, 1991).

Provides institutional background: history, legal framework, and industry characteristics. Provides discussion of tax-exempt bonds as an economic policy tool affecting: intergovernmental fiscal relations, the federal budget deficit, efficient resource allocation, and tax equity. Provides a history and economic analysis of tax-exempt bond legislation from 1968 to 1989.

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