

Exploring Municipal Bonds: The potential benefits of tax-exempt income

Income taxes have a tremendous impact on how hard your investment dollars work for you.

Depending on individual circumstances, much of your investment return may go to federal and state taxes. Income generated from tax-exempt municipal bonds and tax-exempt municipal bond funds is an option available to investors that is not subject to federal income taxes¹.

REVIEWING DIFFERENT TYPES OF MUNICIPAL BONDS

Municipal (muni) bonds are debt obligations issued by government entities that use the loans to fund public projects such as the construction of schools, hospitals, and highways.

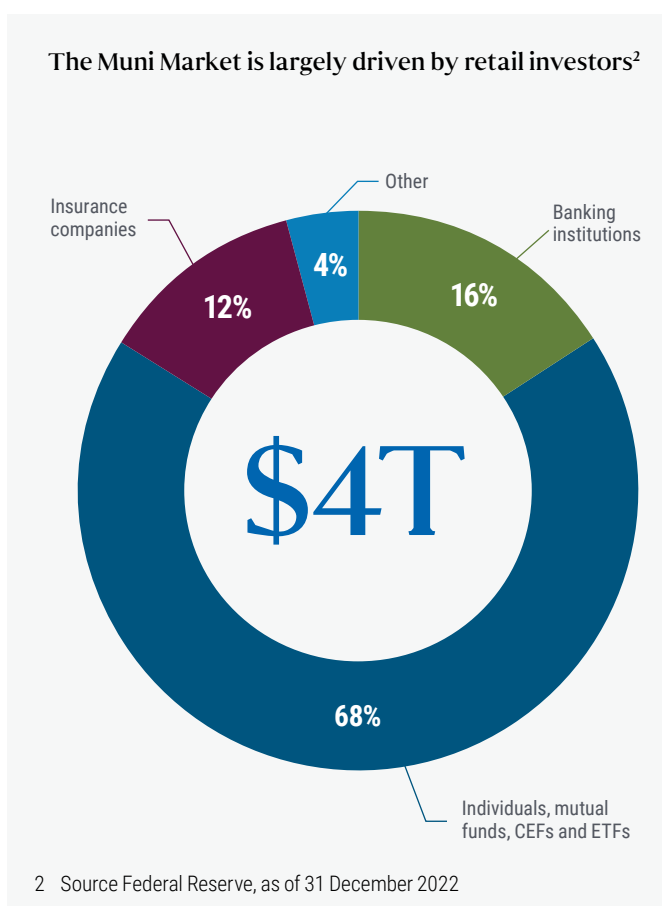
Muni bonds fall into two categories – general obligation bonds (GOs) and revenue bonds. While muni bonds are available in both taxable and tax-exempt formats, the tax-exempt bonds can often attract attention because the income they may generate is often exempt from federal taxes and, in many cases, is exempt from state and local income taxes.

- **General obligation bonds (GOs)**

GOs are issued by governmental entities but they are not backed by revenues from a specific project, such as a toll road. Some GOs are backed by dedicated taxes on property, while others can be payable from general funds.

- **Revenue bonds**

The principal and interest payments for revenue bonds are secured by revenue generated by the issuer or by certain taxes such as sales, fuel or hotel occupancy taxes. Issuers of revenue bonds are generally non-profit organizations, private-sector corporations (e.g. hospitals, universities, etc.), and entities providing a public service (e.g. utilities, public transportation, etc.).



¹ Income from **municipal bonds** is exempt from federal income tax and may be subject to state and local taxes and at times the alternative minimum tax.

UNDERSTANDING THE TAX-EQUIVALENT YIELD

The tax-equivalent yield is the return that a taxable bond would need to equal the yield on a comparable tax-exempt municipal bond. The calculation below is used to compare the returns between a tax-exempt investment and a taxable alternative.

$$\text{Tax equivalent yield} = \frac{\text{Tax-exempt municipal bond yield}}{1 - \text{Marginal tax rate}}$$

To determine whether tax-exempt income means you may be able to retain more of your earnings: 1) Locate your taxable income and marginal tax bracket on the chart, and 2) find the taxable equivalent yields that you would need to match income at various tax-exempt yields.

			Tax-exempt bond yield						
			2.0%	2.5%	3.0%	3.5%	4.0%	4.5%	5.0%
Single income	Married Filing Jointly income	Marginal tax rate	Taxable equivalent yield						
\$0-\$11,000	\$0-\$22,000	10%	2.22%	2.78%	3.33%	3.89%	4.44%	5.00%	5.56%
\$11,000-\$44,725	\$22,000-\$89,450	12%	2.27%	2.84%	3.41%	3.98%	4.55%	5.11%	5.68%
\$44,725-\$95,375	\$89,450-\$190,750	22%	2.56%	3.21%	3.85%	4.49%	5.13%	5.77%	6.41%
\$95,375-\$182,100	\$190,750-\$364,200	24%	2.63%	3.29%	3.95%	4.61%	5.26%	5.92%	6.58%
\$182,100-\$231,250	\$364,200-\$462,500	32%	2.94%	3.68%	4.41%	5.15%	5.88%	6.62%	7.35%
\$231,250-\$578,125	\$462,500-\$693,750	35%	3.08%	3.85%	4.62%	5.38%	6.15%	6.92%	7.69%
\$578,125+	\$693,750+	37%	3.17%	3.96%	4.76%	5.56%	6.35%	7.14%	7.93%

Hypothetical Example for Illustrative Purposes Only.

As of 31 July 2023. Source: PIMCO



CONCEPT IN PRACTICE

Consider this example: a married couple has a taxable income of \$400,000; they fall into the 32% tax bracket. For this couple, they would need a *taxable bond* to earn 5.88% to match a 4.0% yield from a *tax-exempt bond*.

HOW TO INVEST IN MUNI BONDS

Investors have multiple options when considering ways to invest in munis.

- **Individual bonds** — Investors, along with their financial professional, may research and select individual municipal bonds for purchase based on risk, return, maturity date, state-specific characteristics, etc. Using a “buy-and-hold” strategy, investors can hang onto the bonds until maturity in their portfolio.
- **Muni bond ladders** — Together with a financial professional, investors can research and purchase individual municipal bonds with staggered maturities (e.g. 1, 3, 5, 10, 20, 30 year maturities) to build a ladder in a portfolio that provides a stream of regular income that fits their cash flow needs.
- **Muni bond funds and ETFs** — For investors who are not comfortable selecting individual municipal bonds on their own, a well-diversified muni fund or ETF may be appropriate. A fund that invests in bonds across municipalities with different credit ratings, bond types, and various risk/return profiles can help diversify your muni allocation rather than concentrate a portfolio in one issuer. In addition, investors may want to consider state-specific funds to potentially benefit from both federal and state and local tax exemption.
- **Muni bond Separately Managed Accounts (SMAs)** — Investors can customize a SMA to seek greater flexibility for their portfolio, including the potential for greater tax efficiency and specific state-focused portfolios.
- **Closed-end fund (CEF)** — Type of mutual fund that issues a fixed number of shares through a single initial public offering (IPO) to raise capital for its initial investment. Shares are then bought and sold on an exchange (between buyers and sellers) but no new shares are created or redeemed by the fund manager (unlike traditional open-ended funds) and no new money will flow into the fund. Since shares trade on exchanges, these funds often trade at a premium or a discount from their net asset values (NAV). Many municipal CEFs are actively managed and attempt to maximize tax-exempt income to potentially provide investors with higher distributions.
- **Interval fund** — An interval fund is a type of closed-end fund that is not listed on an exchange. Interval funds periodically offer to repurchase a limited percentage of outstanding shares from their shareholders. Interval funds focused on the municipal bond space can provide investors with access to privately issued, less liquid muni bonds in an attempt to enhance risk-adjusted returns.

SOME PLANNING CONSIDERATIONS

When pursuing optimized after-tax returns for bonds, consider the following:

- Lower income taxpayers may often benefit from taxable bonds, and higher income taxpayers may benefit from tax-exempt bonds.
- Income investors may want to compare after-tax return on taxable bond to municipal bond yield. Growth investors may want to compare total return on taxable and tax-exempt bonds.



A WORD ABOUT RISK

Like all fixed income securities, municipal bonds are susceptible to similar risks including, but not limited to:

- **Interest rate risk** — the potential for investment losses that can be triggered by a move upward in rates for new bonds. If interest rates rise, market prices for existing bonds will typically decline. Bonds with longer maturities are generally more susceptible to changes in interest rates than bonds with shorter maturities.
- **Call risk** — the risk that the municipal bond issuer will redeem the bond prior to the maturity date. This means the bondholder will receive payment on the value of the bond and in some cases will be reinvesting in a less favorable environment with a lower interest rate.
- **Liquidity risk** — refers to the marketability of the bond and whether it can be bought or sold quickly enough to meet obligations. The majority of municipal bonds are not traded on a regular basis and therefore the market for a particular municipal bond may not be particularly liquid given the large number of municipal issuers and variety of securities that make up the municipal bond market.
- **Default risk** — the risk that an issuer (e.g. municipality) will be unable to make required principal or interest payments.

IMPORTANT INFORMATION

Please note that this material contains the opinions of the manager as of the date noted, and may not have been updated to reflect real time market developments. All opinions are subject to change without notice. Strategy availability may be limited to certain investment vehicles; not all investment vehicles may be available to all investors. The views and strategies described may not be appropriate for all investors. This material has been prepared for informational purposes only, and is not intended to provide, and should not be relied on for, accounting, legal or tax advice. You should consult your tax or legal advisor regarding such matters. **Investors should consult their investment professional prior to making an investment decision.**

Past performance is not a guarantee or a reliable indicator of future results.

All investments contain risk and may lose value. Investing in the **bond market** is subject to risks, including market, interest rate, issuer, credit, inflation risk, and liquidity risk. The value of most bonds and bond strategies are impacted by changes in interest rates. Bonds and bond strategies with longer durations tend to be more sensitive and volatile than those with shorter durations; bond prices generally fall as interest rates rise, and low interest rate environments increase this risk. Reductions in bond counterparty capacity may contribute to decreased market liquidity and increased price volatility. Bond investments may be worth more or less than the original cost when redeemed. **Equities** may decline in value due to both real and perceived general market, economic and industry conditions. Income from **municipal bonds** is exempt from federal income tax and may be subject to state and local taxes and at times the alternative minimum tax; a strategy concentrating in a single or limited number of states is subject to greater risk of adverse economic conditions and regulatory changes. **Diversification** does not ensure against loss.

This paper includes hypothetical analysis. HYPOTHETICAL PERFORMANCE RESULTS HAVE MANY INHERENT LIMITATIONS, SOME OF WHICH ARE DESCRIBED BELOW. NO REPRESENTATION IS BEING MADE THAT ANY ACCOUNT WILL OR IS LIKELY TO ACHIEVE PROFITS OR LOSSES SIMILAR TO THOSE SHOWN. IN FACT, THERE ARE FREQUENTLY SHARP DIFFERENCES BETWEEN HYPOTHETICAL PERFORMANCE RESULTS AND THE ACTUAL RESULTS SUBSEQUENTLY ACHIEVED BY ANY PARTICULAR TRADING PROGRAM.

ONE OF THE LIMITATIONS OF HYPOTHETICAL PERFORMANCE RESULTS IS THAT THEY ARE GENERALLY PREPARED WITH THE BENEFIT OF HINDSIGHT. IN ADDITION, HYPOTHETICAL TRADING DOES NOT INVOLVE FINANCIAL RISK, AND NO HYPOTHETICAL TRADING RECORD CAN COMPLETELY ACCOUNT FOR THE IMPACT OF FINANCIAL RISK IN ACTUAL TRADING. FOR EXAMPLE, THE ABILITY TO WITHSTAND LOSSES OR TO ADHERE TO A PARTICULAR TRADING PROGRAM IN SPITE OF TRADING LOSSES ARE MATERIAL POINTS WHICH CAN ALSO ADVERSELY AFFECT ACTUAL TRADING RESULTS. THERE ARE NUMEROUS OTHER FACTORS RELATED TO THE MARKETS IN GENERAL OR TO THE IMPLEMENTATION OF ANY SPECIFIC TRADING PROGRAM WHICH CANNOT BE FULLY ACCOUNTED FOR IN THE PREPARATION OF HYPOTHETICAL PERFORMANCE RESULTS AND ALL OF WHICH CAN ADVERSELY AFFECT ACTUAL TRADING RESULTS.

PIMCO does not provide legal or tax advice. Please consult your tax and/or legal counsel for specific tax or legal questions and concerns. The discussion herein is general in nature and is provided for informational purposes only. There is no guarantee as to its accuracy or completeness. Any tax statements contained herein are not intended or written to be used, and cannot be relied upon or used for the purpose of avoiding penalties imposed by the Internal Revenue Service or state and local tax authorities. Individuals should consult their own legal and tax counsel as to matters discussed herein and before entering into any estate planning, trust, investment, retirement, or insurance arrangement.

Statements concerning financial market trends or portfolio strategies are based on current market conditions, which will fluctuate. Different types of investments involve varying degrees of risk. There is no guarantee that these investment strategies will work under all market conditions or are appropriate for all investors and each investor should evaluate their ability to invest for the long term, especially during periods of downturn in the market. Outlook and strategies are subject to change without notice. No representation is being made that any account, product, or strategy will or is likely to achieve profits, losses, or results similar to those shown.

PIMCO as a general matter provides services to qualified institutions, financial intermediaries and institutional investors. Individual investors should contact their own financial professional to determine the most appropriate investment options for their financial situation. This material contains the current opinions of the manager and such opinions are subject to change without notice. This material has been distributed for informational purposes only and should not be considered as investment advice or a recommendation of any particular security, strategy or investment product. Information contained herein has been obtained from sources believed to be reliable, but not guaranteed. No part of this material may be reproduced in any form, or referred to in any other publication, without express written permission. PIMCO is a trademark of Allianz Asset Management of America LLC in the United States and throughout the world. ©2023, PIMCO

Pacific Investment Management Company LLC, 650 Newport Center Drive, Newport Beach, CA 92660 | 800.387.4626