MacKay Municipal Managers™

MMM Weekly Monitor



OCTOBER 7, 2025

Authors: Eric Kazatsky and Eric Snyder, CFA, Client Portfolio Managers

Muni Rally Runs into Spooky Returns Season

- Munis prove they are not all gas, no brakes
- October is historically witching returns period
- Relative is the key to muni value

Relative Performance

Over the past week, municipal performance, at least on a relative basis was mixed. Longer duration tax-exempts continued their winning ways, with long muni rates declining by 3.9bps, however they failed to keep pace with the decline in long US Treasuries. A similar trend was noted in the 10YR portion of the curve, though to a much larger degree. September wrapped up with the strongest monthly return for tax-frees this year—and the best since 2023. It also marks the strongest September performance since 2009, signaling a sharp turnaround for tax-exempts, fueled by a much-needed rally in broader rates.

While we take a bit of a victory lap as an asset class, we need to remember that context is everything and to us, the real story here is the long end of the municipal curve getting off life support. Long munis had a terrible first half, due in part to:

- uncertainty surrounding the tax exemption
- suppressed demand from natural buyers of the long end like banks and insurance companies
- rapid steepening of the curve

However, as we have touched on in prior weeklies, starting August 1 the long end has massively outperformed shorter tenor municipals, closing in on 400bps.

Technicals

Despite September's strong performance, October could spook investors—pun intended. But humor aside, the month is shaping up to be technically challenging for the tax-exempt market, with three key pressures weighing on munis:

1. Source: Municipal Securities Rule Making Board



FIGURE 1: MUNIS UNDERPERFORMED TREASURIES ACROSS THE CURVE



Data as of October 2, 2025. Spot Muni, Spot AA rates Source: Bloomberg

WEAK HISTORICAL RETURNS

October has posted positive returns in only 3 of the past 10 years. While past performance isn't predictive, the historical trend leans negative—and for those who value data, it's hard to ignore.

HEAVY ISSUANCE

Next week's calendar nears \$10 billion¹, and the 30-day visible supply looks similarly strong. While we're unlikely to match last October's \$66 billion peak, this year's average monthly issuance around \$50 billion remains substantial.

AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS



SUPPLY-DEMAND IMBALANCE

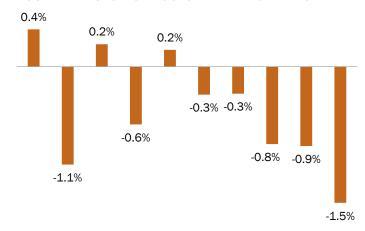
Even \$50 billion in issuance could strain technicals, especially against just \$33 billion in reinvestment demand².

Still, Flows May Be the Wildcard That Flips the Script

Munis often follow a positive feedback loop: perceived cheapness along the curve attracts institutional buyers, tightening ratios and boosting performance. Strong returns then draw in retail investors, reinforcing the rally through sustained fund flows. Historically, expectations of gains have triggered additional inflows.

Moreover, inflow cycles can persist. As Morgan Stanley recently noted via Emerging Portfolio Fund Research (EPFR) data, cumulative muni inflows could exceed \$100 billion if past cycles are any guide. Recent price action, improving flows, and tighter spreads suggest this October might not be as haunted as history implies.

FIGURE 2: HISTORICAL OCTOBER PERFORMANCE

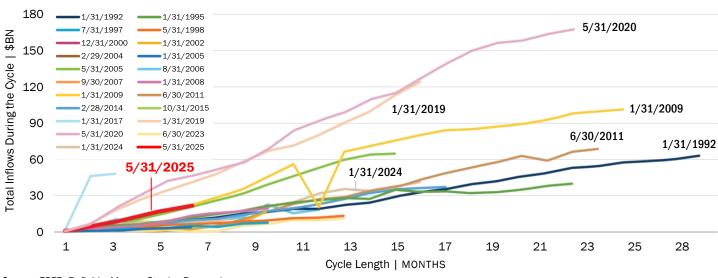


2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 Data as of October 31, 2024

Source: Bloomberg

FIGURE 3: MUNI RALLY LURES RETAIL BACK TO MARKET

FUND FLOWS: INFLOW CYCLES | BILLIONS VS LENGTH OF CYCLE IN MONTHS



Source: EPFR, Refinitiv, Morgan Stanley Research

2. Source: Bloomberg



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS



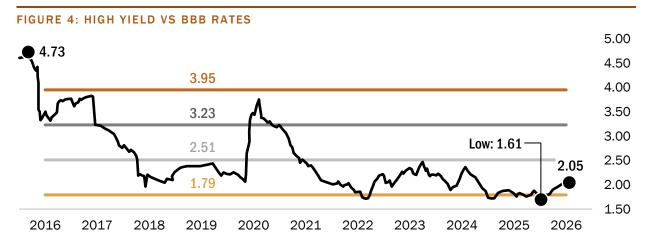
Questions from the Field



How are you thinking about relative value when it comes to spreads down the credit curve?



For our team, relative value and managing the dollar cost per unit of risk is always top of mind. That being said, one of the ways we can look at relative value in lower IG/HY credit is to look at the spread of tax-free high yield bonds compared to that of Baa rated municipals. Using Bloomberg index YTW data for both, shows that the relative spread of high yield vs Baa munis still sits below the long term average, at just 205bps. While solidly off the cycle tights of 161bps, it is also well below the wides of 473bps. At this time, the data would indicate support of our broader move in moving up in credit quality over the past year.

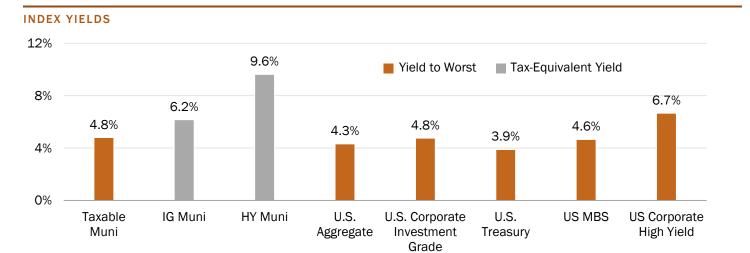


As of October 3, 2025 Source: Bloomberg



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS

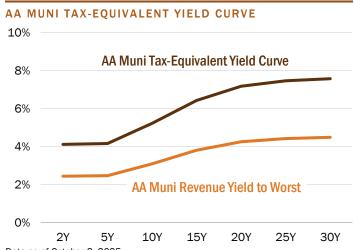




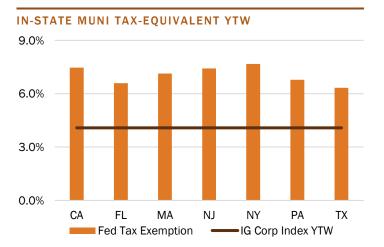
Data as of October 2, 2025.

1. Using 40.8% federal tax rate, including 3.8% Net Investment Income Tax.

Source: Bloomberg



Data as of October 2, 2025. Using 40.8% federal tax rate, including 3.8% Net Investment Income Tax. Source: Bloomberg



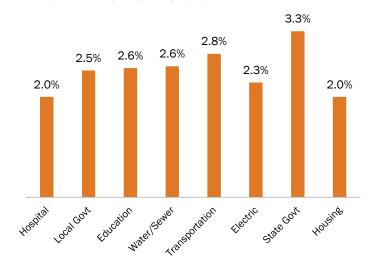
Data as of October 2, 2025. Using 40.8% federal tax rate, including 3.8% Net Investment Income Tax. Source: Bloomberg



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS

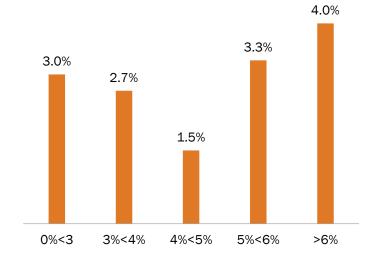


YTD TOTAL RETURNS BY SECTOR



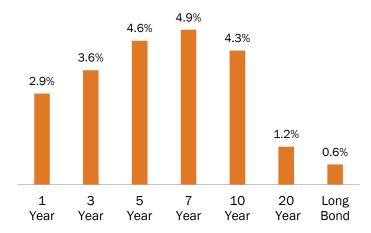
Data as of October 2, 2025. Source: Bloomberg

YTD TOTAL RETURNS BY COUPON



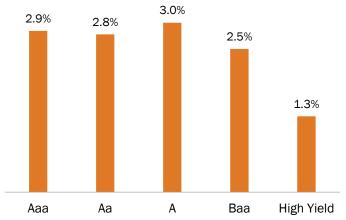
Data as of October 2, 2025. Source: Bloomberg

YTD TOTAL RETURNS BY MATURITY



Data as of October 2, 2025. Source: Bloomberg

YTD TOTAL RETURNS BY RATING CATEGORY



Data as of October 2, 2025. Source: Bloomberg



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS





Data as of October 2, 2025.

"Post GFC Average" measures the period from 1/1/2010 - 7/4/2025

Source: Bloomberg

MUNI YIELDS

Tenor	9/25/2025	10/2/2025	Change (+/-)
BLOOMBERG AAA MUNI KEY RATE YIEI	_DS		
2 YEAR	2.20%	2.27%	0.08%
5 YEAR	2.27%	2.30%	0.04%
10 YEAR	2.92%	2.90%	-0.02%
30 YEAR	4.30%	4.27%	-0.04%
US TREASURY RATE YIELDS			
2 YEAR	3.64%	3.55%	-0.09%
5 YEAR	3.75%	3.67%	-0.08%
10 YEAR	4.18%	4.10%	-0.08%
30 YEAR	4.75%	4.69%	-0.06%
US TREASURY & AAA MUNI CURVE	SLOPES ¹		
	2s10s	10s30s	2s30s
US TREASURY CURVE SLOPE	+ 55 bps	+ 59 bps	+ 114 bps
AAA MUNI CURVE SLOPE	+ 63 bps	+ 137 bps	+ 199 bps

Data as of October 2, 2025.

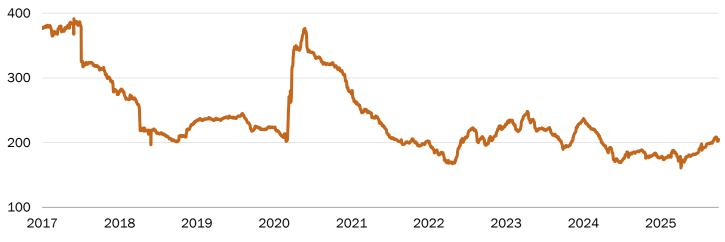
1. 2s10s – is spread between 10yr and 2yr yield; 10s30s – refers to spread between 30yr and 10yr yield; 2s30s – refers to spread between 30yr and 2yr yield Source: Bloomberg



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS

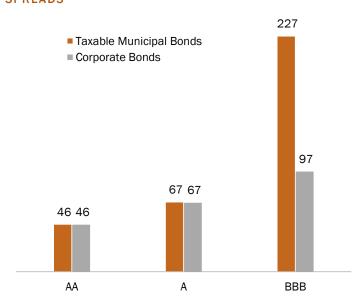


BLOOMBERG MUNICIPAL HIGH YIELD | AAA YIELD DIFFERENTIAL



Data as of October 2, 2025. Source: Bloomberg

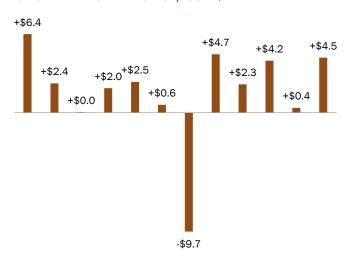
TAXABLE MUNICIPAL AND CORPORATE CREDIT SPREADS



Data as of October 2, 2025.

The spread, better known as the option-adjusted spread (OAS) is the measurement of the yield of a fixed income security over that of a risk-free rate of return, which is adjusted to take into account an embedded option. Source: Bloomberg

LONG TERM FUND FLOWS | USD \$BN



 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 June
 July
 Aug
 Sep

 24
 24
 25
 25
 25
 25
 25
 25
 25
 25
 25

Data as of October 2, 2025. Source: Bloomberg



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS



DISCLOSURES

Availability of this document and products and services provided by MacKay Shields LLC may be limited by applicable laws and regulations in certain jurisdictions and this document is provided only for persons to whom this document and the products and services of MacKay Shields LLC may otherwise lawfully be issued or made available. None of the products and services provided by MacKay Shields LLC are offered to any person in any jurisdiction where such offering would be contrary to local law or regulation. It does not constitute investment advice and should not be construed as an offer to buy securities. The contents of this document have not been reviewed by any regulatory authority in any jurisdiction. This material contains the opinions of the MacKay Municipal ManagersTM team of MacKay Shields LLC but not necessarily those of MacKay Shields LLC. The opinions expressed herein are subject to change without notice. This material is distributed for informational purposes only. Forecasts, estimates, and opinions contained herein 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. Any forward-looking statements speak only as of the date they are made and MacKay Shields assumes no duty and does not undertake to update forward-looking statements. No part of this document may be reproduced in any form, or referred to in any other publication, without express written permission of MacKay Shields LLC. ©2025, MacKay Shields LLC. All Rights Reserved.

MacKay Shields LLC does not offer or sponsor any funds registered under the Investment Company Act of 1940, as amended ("Registered Funds"). MacKay Shields LLC serves in the capacity as investment manager of certain Registered Funds through sub-advisory arrangements.

MacKay Municipal Managers is a trademark of MacKay Shields LLC.

MacKay Shields LLC is a wholly owned subsidiary of New York Life Investment Management Holdings LLC, which is wholly owned by New York Life Insurance Company. "New York Life Investments" is both a service mark, and the common trade name of certain investment advisers affiliated with New York Life Insurance Company. Investments are not guaranteed by New York Life Insurance Company or New York Life Investments.

It is not possible to invest directly in an index. Past performance is not indicative of future results.

NOTE TO UK AND EUROPEAN UNION INVESTORS

This document is intended only for the use of professional investors as defined in the Alternative Investment Fund Manager's Directive and/or the UK Financial Conduct Authority's Conduct of Business Sourcebook. To the extent this document has been issued in the United Kingdom, it has been issued by NYL Investments UK LLP, 200 Aldersgate Street, London UK EC1A 4HD, which is authorised and regulated by the UK Financial Conduct Authority. To the extent this document has been issued in the EEA, it has been issued by NYL Investments Europe Limited, 77 Sir John Rogerson's Quay, Block C Dublin D02 VK60 Ireland. NYL Investments Europe Limited is authorized and regulated by the Central Bank of Ireland (i) to act as an alternative investment fund manager of alternative investment funds under the Alternative Investment Fund Managers Directive (Directive 2011/61/EU) and (ii) to provide the services of individual portfolio management, investment advice and the receipt and transmission of orders as defined in Regulation 7(4) of the AlFMD Regulations to persons who meet the definition of "professional client" as set out in the MiFID Regulations. It has passported its license in additional countries in the EEA.

This document only describes capabilities of certain affiliates of New York Life Investments and/or MacKay Shields LLC. No such affiliates will accept subscriptions in any funds not admitted to marketing in your country or provide services to potential customers in your country, including discretionary asset management services, except where it is licensed to do so or can rely on an applicable exemption.

MacKay Shields LLC is a wholly owned subsidiary of New York Life Investment Management Holdings LLC, which is wholly owned by New York Life Insurance Company. "New York Life Investments" is both a service mark, and the common trade name of certain investment advisers affiliated with New York Life Insurance Company. Investments are not guaranteed by New York Life Insurance Company or New York Life Investments.

NOTE TO CANADIAN RECIPIENTS

The information in these materials is not an offer to sell securities or a solicitation of an offer to buy securities in any jurisdiction of Canada. In Canada, any offer or sale of securities or the provision of any advisory or investment fund manager services will be made only in accordance with applicable Canadian securities laws. More specifically, any offer or sale of securities will be made in accordance with applicable exemptions to dealer and investment fund manager registration requirements, as well as under an exemption from the requirement to file a prospectus, and any advice given on securities will be made in reliance on applicable exemptions to adviser registration requirements.

NOTE TO JAPANESE RECIPIENTS

This is issued by New York Life Investment Management Asia Limited (Financial Instruments Business Operator, Kanto Local Finance Bureau (FIBO) No. 2964, Member of Japan Investment Advisers Association and Type 2 Financial Instruments Firms Association) for institutional investors only. As costs and/or fees to be borne by investors vary depending on circumstances such as products, services, investment period and market conditions, the total amount nor the calculation methods cannot be disclosed in advance. All investments involve risks, including market fluctuation and investors may lose the principal amount invested. Investors should obtain and read the prospectus and/or information set forth in Article 37-3 of the Financial Instruments and Exchange Act carefully before making investment decisions

COMPARISONS TO AN INDEX

Comparisons to a financial index are provided for illustrative purposes only. Comparisons to an index are subject to limitations because portfolio holdings, volatility and other portfolio characteristics may differ materially from the index. Unlike an index, portfolios within the composite are actively managed and may also include derivatives. There is no guarantee that any of the securities in an index are contained in any managed portfolio. The performance of an index may assume reinvestment of dividends and income, or follow other index-specific methodologies and criteria, but does not reflect the impact of fees, applicable taxes or trading costs which, unlike an index, may reduce the returns of a managed portfolio. Investors cannot invest in an index. Because of these differences, the performance of an index should not be relied upon as an accurate measure of comparison.

SOURCE INFORMATION

"Bloomberg®", "Bloomberg Indices®", Bloomberg Fixed Income Indices, Bloomberg Equity Indices and all other Bloomberg indices referenced herein are service marks of Bloomberg Finance L.P. and its affiliates, including Bloomberg Index Services Limited ("BISL"), the administrator of the indices (collectively, "Bloomberg") and have been licensed for use for certain purposes by MacKay Shields LLC ("MacKay Shields"). Bloomberg is not affiliated with MacKay Shields, and Bloomberg does not approve, endorse, review, or recommend MacKay Shields or any products, funds or services described herein. Bloomberg does not guarantee the timeliness, accurateness, or completeness of any data or information relating to MacKay Shields or any products, funds or services described herein.



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS



All ICE Data indices referenced herein (each such index, the "Index"), are products of ICE data indices, LLC ("ICE Data"), and are used with permission. ICE® is a registered trademark of ICE Data or its affiliates, and BofA® is a registered trademark of Bank of America Corporation licensed by Bank of America Corporation and its affiliates ("BofA") and may not be used without BofA's prior written approval. ICE Data, its affiliates and their respective third party suppliers disclaim any and all warranties and representations, express and/or implied, including any warranties of merchantability or fitness for a particular purpose or use, including the indices, index data and any data included in, related to, or derived therefrom. Neither ICE Data, its affiliates nor their respective third party suppliers shall be subject to any damages or liability with respect to the adequacy, accuracy, timeliness or completeness of the indices or the index data or any component thereof, and the indices and index data and all components thereof are provided on an "as is" basis and your use is at your own risk. Inclusion of a security within an index is not a recommendation by ICE Data to buy, sell, or hold such security, nor is it considered to be investment advice. ICE Data, its affiliates and their respective third party suppliers do not sponsor, endorse, or recommend MacKay Shields LLC, or any of its products or services.

DEFINITION OF TERMS

Option-Adjusted Spread

The option-adjusted spread (OAS) measures the spread between a bond's rate and the risk-free rate, while adjusting for any embedded options like callables or mortgage-backed securities.

Standard Deviation

Standard deviation is a statistical measurement that looks at how far discrete points in a dataset are dispersed from the mean of that set. It is calculated as the square root of the variance.

Tax Equivalent Yield

The tax-equivalent yield is the return a taxable bond needs to equal the yield on a comparable tax-exempt municipal bond. Investors use this calculation to compare the returns between a tax-free investment and a taxable alternative.

Tax Equivalent Yield to Worst

Tax Equivalent YTW is calculated by dividing the tax-exempt yield by one minus the marginal income tax. this is used to compare YTW on a tax-exempt investment to a taxable investment.

Volatility

Volatility is a measurement of how varied the returns of a given security or market index are over time. It is often measured from either the standard deviation or variance between those returns. In most cases, the higher the volatility, the riskier the security.

Yield to Worst

Yield to worst is a measure of the lowest possible yield that can be received on a bond that fully operates within the terms of its contract. It is a type of yield that is referenced when a bond has provisions that would allow the issuer to close it out before it matures. YTW helps investors manage risks and ensure that specific income requirements will still be met even in the worst scenarios.

INDEX DESCRIPTIONS

Bloomberg U.S. Taxable Municipal Bond Index

The Bloomberg U.S. Taxable Municipal Bond Index is a rules-based, market-value-weighted index engineered for the long-term taxable bond market. To be included in the index, bonds must be rated investment-grade (Baa3/BBB- or higher) by at least two of the following ratings agencies if all three rate the bond: Moody's, S&P, Fitch. If only two of the three agencies rate the security, the lower rating is used to determine index eligibility. If only one of the three agencies rates a security, the rating must be investment grade. They must have an outstanding par value of at least \$7 million and be issued as part of a transaction of at least \$75 million. The bonds must be fixed rate and must be at least one year from their maturity date. Remarketed issues (unless converted to fixed rate), bonds with floating rates, and derivatives, are excluded from the benchmark.

Bloomberg Municipal AMT index

The Bloomberg Municipal AMT index refers to a specific Bloomberg municipal bond index that includes bonds subject to the Alternative Minimum Tax (AMT). Unlike most municipal bond indices, which exclude AMT-subject securities, these indices contain bonds that typically offer higher yields to individuals who are subject to the AMT

Muni IG AMT ex Territories Index

The Muni IG ex. AMT and ex Territories Index is the Bloomberg Municipal Bond Index excluding AMT and US. Territory exposure.

Bloomberg Municipal Bond Index

A rules-based, market-value-weighted index engineered for the long-term tax-exempt bond market. To be included in the index, bonds must be rated investment-grade (Baa3/BBB- or higher) by at least two of the following agencies: Moody's, S&P, Fitch. If only two of the three agencies rate the security, the lower rating is used to determine index eligibility. If only one of the three agencies rates a security, the rating must be investment-grade. They must have an outstanding par value of at least \$7 million and be issued as part of a transaction of at least \$75 million. The bonds must be fixed rate, have a date-date after December 31, 1990, and must be at least one year from their maturity date. Remarketed issues, taxable municipal bonds, bonds with floating rates, and derivatives, are excluded from the benchmark. The index has four main sectors: general obligation bonds, revenue bonds (including all insured bonds with a Aaa/AAA rating), and pre-refunded bonds. Most of the index has historical data to January 1980. In addition, sub-indices have been created based on maturity, state, sector, quality, and revenue source, with inception dates later than January 1980.

Subset of Bloomberg Municipal Bond Index

- ${\bf 1}$ Year: This index is the ${\bf 1}$ Year (1-2) component of the Municipal Bond index.
- 3 Year: This index is the 3 Year (2-4) component of the Bloomberg Municipal Bond Index.
- 5 Year: This index is the 5 Year (4-6) component of the Municipal Bond index.
- 7 Year: This index is the 7 Year (6-8) component of the Municipal Bond index.
- 10 Year: This index is the 10 Year (8-12) component of the Municipal Bond index.
- 15 Year: This index is the 15 Year (12-17) component of the Municipal Bond index.
- 20 Year: This index is the 20 Year (17-22) component of the Municipal Bond index.
- Long Bond: This index is the Long Bond (22+) component of the Municipal Bond index.

Bloomberg 5-Year Muni Index

The Bloomberg 5 Year Municipal Bond Index is a capitalization weighted bond index created by Bloomberg intended to be representative of major municipal bonds of all quality ratings with an average maturity of approximately five years.

Bloomberg Municipal 1-10 Year Blend 1-12 Year Index

The Bloomberg Municipal 1-10 Year Blend 1-12 Year Index measures the performance of short and intermediate components of the Municipal Bond Index — an unmanaged, market value-weighted index which covers the U.S. investment grade, tax-exempt bond market.



AUTHORS: ERIC KAZATSKY AND ERIC SNYDER, CFA, CLIENT PORTFOLIO MANAGERS



Bloomberg Municipal Long Bond 22+ Index

The Bloomberg Municipal Long Bond 22+ Index (often referred to as the Bloomberg Long-Term Municipal Bond Index) tracks the performance of long-term, tax-exempt U.S. municipal bonds with maturities of 22 years or longer. This index serves as a benchmark for high-quality municipal debt and covers various sectors, including general obligation, revenue, insured, and pre-refunded bonds.

Bloomberg Municipal Bond High Yield Index

The Bloomberg Municipal Bond: High Yield Index is a flagship measure of the US municipal tax-exempt non-investment grade bond market. Included in the index are securities from all 50 US States and four other qualifying regions (Washington DC, Puerto Rico, Guam, and the Virgin Islands). The index includes state and local general obligation bonds and revenue bonds.

Bloomberg U.S. Aggregate Bond Index

The Bloomberg U.S. Aggregate Bond Index measures the performance of investment grade, U.S. dollar-denominated, fixed rate taxable bond market, including Treasuries, government-related and corporate securities, MBS (agency fixed-rate and hybrid ARM pass-throughs), ABS, and CMBS. It rolls up into other flagship indices, such as the multi-currency Global Aggregate Index and the U.S. Universal Index, which includes high yield and emerging markets debt.

Bloomberg U.S. Corporate Bond Index

The Bloomberg US Corporate Index measures the investment grade, fixed-rate, taxable corporate bond market. It includes USD-denominated securities publicly issued by US and non-US industrial, utility, and financial issuers. The index is a component of the US Credit and US Aggregate Indices, and provided the necessary inclusion rules are met, US Corporate Index securities also contribute to the multi-currency Global Aggregate Index. The index includes securities with remaining maturity of at least one year.

Bloomberg U.S. Treasury Index

The Bloomberg U.S. Treasury Index measures the performance of public obligations of the U.S. Treasury, including securities that roll up to the U.S. Aggregate, U.S. Universal, and Global Aggregate Indices.

Bloomberg U.S. Mortgage-Backed Security Index

The US MBS Index is formed by grouping the universe of individual TBA-deliverable MBS pools into pool cohorts and then applying the index inclusion rules at the cohort level. Each cohort is a representation of its mapped individual pools and contributes their total amount outstanding to the US MBS Index.

Bloomberg U.S. Corporate High Yield Index

The Bloomberg US Corporate High Yield Bond Index measures the USD-denominated, high yield, fixed-rate corporate bond market. Securities are classified as high yield if the middle rating of Moody's, Fitch and S&P is Ba1/BB+/BB+ or below.

Bloomberg Global Aggregate Bond Index

The Bloomberg Global Aggregate Index is a flagship measure of global investment grade debt from twenty-seven local currency markets. This multi-currency benchmark includes treasury, government-related, corporate and securitized fixed-rate bonds from both developed and emerging markets issuers.

Bloomberg Securitized Bond Index

The Bloomberg U.S. Securitized: MBS, ABS, and CMBS Index tracks all USD-denominated, investment grade, securitized issues within the "Parent Index". MBS must have a weighted average maturity of at least one year. CMBS and ABS must have a remaining average life of at least one year.

Bloomberg US Municipal Bond Index Total Return Index Value Unhedged

The Bloomberg U.S. Municipal Index covers the USD-denominated long-term tax-exempt bond market. The index has four main sectors: state and local general obligation bonds, revenue bonds, insured bonds and pre-refunded bonds

Bloomberg US Aggregate Total Return Value Unhedged

The Bloomberg US Aggregate Total Return Value Unhedged Index (LBUSTRUU:IND) is a benchmark that measures the performance of the U.S. investment-grade, fixed-rate, taxable bond market, excluding any currency hedging. It tracks a broad universe of U.S. dollar-denominated securities, including U.S. Treasuries, government-related debt, corporate bonds, mortgage-backed securities (MBS), and asset-backed securities (ABS).

Bloomberg US Treasury Total Return Unhedged

The Bloomberg US Treasury Index measures US dollar-denominated, fixed-rate, nominal debt issued by the US Treasury.

