Welcome!

We look forward to beginning today's program shortly.



Connect with us:















With a more sophisticated understanding of the bond landscape, you can make empowered decisions to help you grow your portfolio.





Develop an Ongoing Strategy-with Fidelity



Education on the dimensions of bond investing

Resources to help inform and assist in selecting bond investments

Insights for making more prudent and informed decisions





Today's Agenda

Understanding Macroeconomic Trends





Key Market Drivers





US Equity market sputters as global inflation takes root

- The S&P 500 posted its worst first half total return performance since 1962, posting a loss of 20%.
- In Q2, the S&P 500 slumped -16.1%, highlighted by a -8.3% drop in June alone. After a +9.1% bounce in July it fell back -4.2% in August.
- Consumer price inflation touched 9.1% in the US in June and in the Eurozone in August as supply constraints in energy, food, and labor met longer-term trends of a deglobalizing world economy.

Quantitative Easing era officially ends as monetary policy tightens

- Federal Reserve became increasingly hawkish, beginning a rate-hiking cycle in March and announcing that it would end its U.S. Treasury and mortgage-backed security asset purchases.
- The Fed raised its Fed Funds Rate by 0.75% in June & July, taking it to 2.25%-2.50%.
- Quantitative tightening began in June at \$47.5B / month and is set to double in September to \$95B per month and remain at this pace per Fed plans.

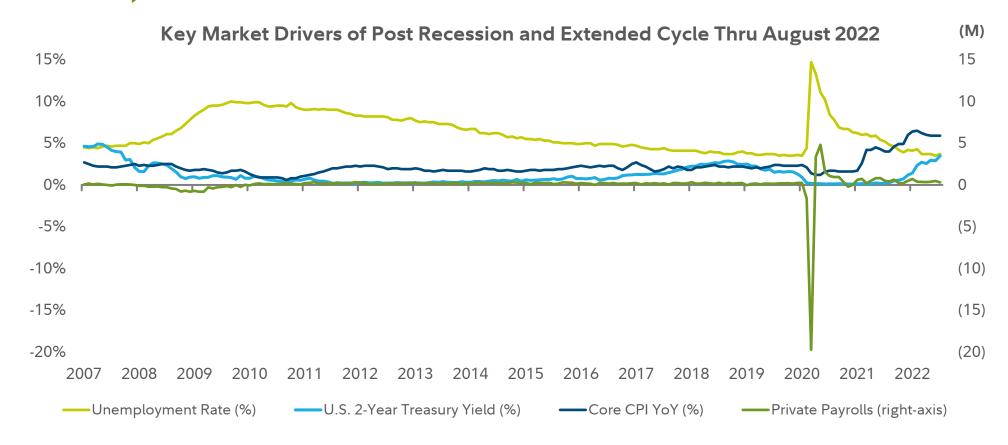
Inflation, employment and the labor market – economic momentum wanes

- The US Consumer Price Index peaked at 9.1% in June but with July's 8.5% reading and 8.3% in August it will be a while before we return to the Fed's 2% target.
- US unemployment plummeted from 14.7% in April '20 to 3.5% by July '22 and 3.7% in August.
- Despite high employment, U of Michigan's Consumer Sentiment index hit an all-time low of 50 in June. Its recent bounce to 59.5 in September mirrors the recent fall in gas prices.
- Treasury 10-year yields spiked to 3.5% in mid-June after starting off 2022 at 1.51%. Yields then retreated to 2.60% by August before their most recent rise to 3.46% as of 9/16/22.
- 2-year Treasury yields rose from 0.73% in December to 2.96% by the end of Q2 and 3.87% on 9/16/22 as the Fed remains hawkish in the face of a negative-sloping yield curve.

Trends:



The Economy Since 2007



Source: Bloomberg, August 2022

In general, the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities.) Fixed income securities also carry inflation risk, liquidity risk, call risk, and credit and default risks for both issuers and counterparties. Any fixed-income security sold or redeemed prior to maturity may be subject to loss.

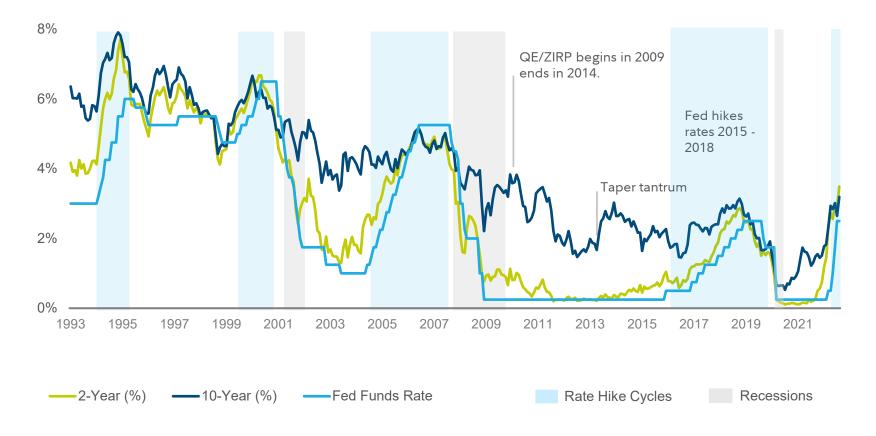
Past performance is no guarantee of future results.

Trends:



U.S. Treasury Yields

• The previous four rate hike cycles averaged 10 rate hikes of 25 basis points each over an average of 22 months.



Source: Bloomberg and NBER, August 2022

In general, the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities.) Fixed income securities also carry inflation risk, liquidity risk, call risk, and credit and default risks for both issuers and counterparties. Any fixed-income security sold or redeemed prior to maturity may be subject to loss.

Trends:



Markets Reaction to Easing and Tightening

QUANTITATIVE EASING CYCLES

	QE1 11/25/08- 3/31/10	QE2 11/3/10- 6/30/11	QE3 9/13/12- 10/29/14	QE4 3/15/20 – 3/9/22
U.S. Treasury Bonds	1.5%	(0.3%)	1.7%	(3.9)%
Investment-Grade Bonds	30.4%	1.4%	6.3%	2.8%
U.S. High-Yield Bonds	79.3%	5.4%	15.9%	17.6%
U.S. Large-Cap Stocks	26.0%	16.1%	35.8%	62.2%
Gold	21.5%	17.7%	(32.0%)	15.0%

FED RATE HIKE CYCLES

	2/28/94– 3/31/95	5/31/99– 7/31/00	6/30/04– 7/31/06	12/16/15- 12/31/18	03/16/22- 9/16/22
U.S. Treasury Bonds	2.0%	6.2%	5.3%	4.3%	(7.1%)
Investment-Grade Bonds	2.2%	3.7%	5.8%	9.2%	(8.1%)
U.S. High-Yield Bonds	2.9%	(0.5%)	16.2%	23.8%	(6.6%)
U.S. Large-Cap Stocks	10.5%	11.4%	9.4%	10.3%	(10.4%)
Gold	4.3%	4.3%	54.2%	19.6%	(13.1%)

Assets represented by the following: Gold – Gold Spot Price (Bloomberg); U.S. Treasury Bonds – Bloomberg Treasury Index; U.S. High-Yield Bonds – Bank of America Merrill Lynch High Yield Master II Index; U.S. Large-Cap Stocks – S&P 500® Index; IG Bonds – Bloomberg Corporate Investment Grade Index.

Source: Bloomberg September 2022

You cannot invest directly in an index. See appendix for important index information. Past performance is no guarantee of future results.

Three Dimensions of Bond Investing

Understanding the Treasury Yield Curve



A Range of Yields Around the Benchmarks



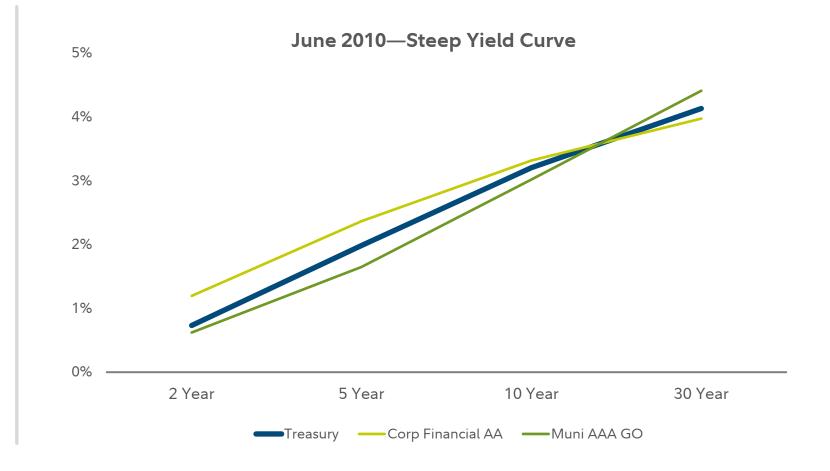
Dimension 1:



Understanding the Treasury Yield Curve

Steep, upward-sloping curve:

During a recession or at the early part of the expansion. Fed (completed) cutting rates



Source: Bloomberg

Yield Curves were taken from 7/21/06, and 6/4/10, and 08/27/2019. UST – U.S. Treasury Actives Curve, Bloomberg; Corp – U.S. Dollar Swaps (30/360, S/A) Curve Financial AA; Muni – U.S. Muni General Obligation AAA Curve.

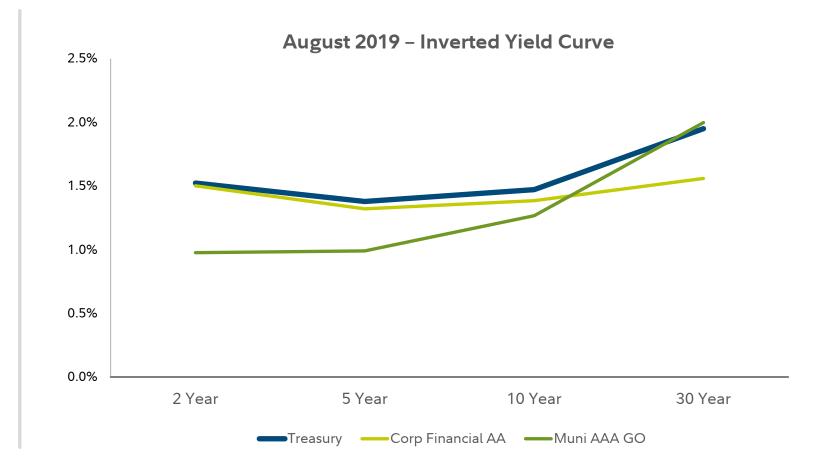
Dimension 1:



Understanding the Treasury Yield Curve

Inverted curve:

Typically at the end of an economic cycle. Fed rate hikes complete



Source: Bloomberg

Yield Curves were taken from 7/21/06, and 6/4/10, and 08/27/2019. UST – U.S. Treasury Actives Curve, Bloomberg; Corp – U.S. Dollar Swaps (30/360, S/A) Curve Financial AA; Muni – U.S. Muni General Obligation AAA Curve.

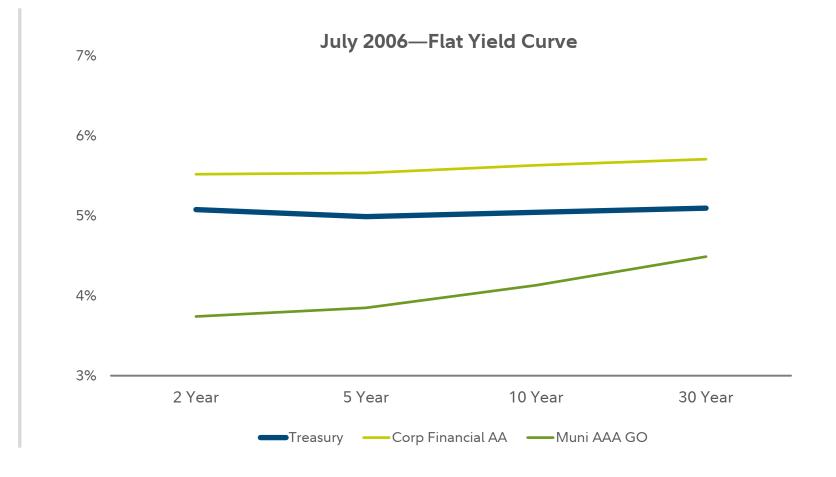
Dimension 1:



Understanding the Treasury Yield Curve

Flat curve:

Close to the end of the cycle. Fed still raising rates, growth strong



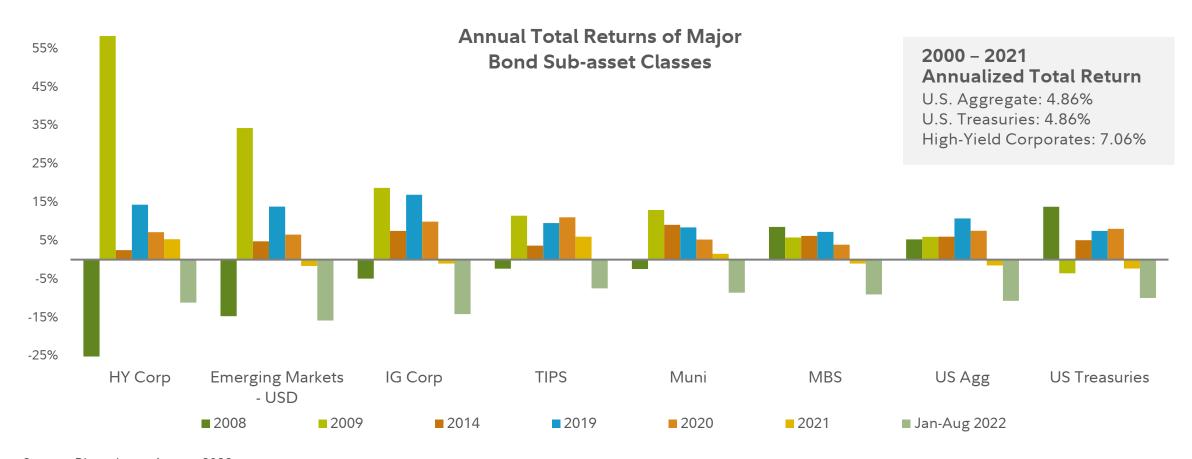
Source: Bloomberg

Yield Curves were taken from 7/21/06, and 6/4/10, and 08/27/2019. UST – U.S. Treasury Actives Curve, Bloomberg; Corp – U.S. Dollar Swaps (30/360, S/A) Curve Financial AA; Muni – U.S. Muni General Obligation AAA Curve.

Dimension 2:



Bond Sub-Asset Classes Have Different Risk/Reward Characteristics



Source: Bloomberg, August 2022

HY Corp – Bloomberg U.S. High Yield Index, EM – Bloomberg USD Emerging Markets Index, IG Corp – Bloomberg U.S. Corporate Investment Grade Index, TIPS – Bloomberg U.S. TIPS Index, Muni – Bloomberg Municipal Bond Index, MBS – Bloomberg U.S. Mortgage Backed Securities (MBS) Index, U.S. Agg – Bloomberg U.S. Aggregate Index, UST – Bloomberg U.S. Treasury Index (see index definitions on page 44).

Past performance is no guarantee of future results.



View by: Highest Yield M	edian Yield									
Understanding This Table	3mo	6mo	9mo	1yr	2yr	3yr	5yr	10yr	20yr	30yr+
CDs (New Issues)	3.00%	3.40%	3.40%	3.50%	3.60%	3.65%	4.00%	4.00%		
U.S. Treasury	3.42%	3.68%	3.73%	3.82%	3.76%	3.76%	3.61%	3.45%	3.87%	3.62%
U.S. Treasury Zeros			3.51%	3.60%	3.59%	3.73%	3.62%	3.59%	4.01%	3.56%
Agency/GSE	3.13%	-	3.88%	3.90%	4.03%	4.22%	4.50%	4.92%	4.11%	4.51%
Corporate (Aaa/AAA)	2.45%	3.28%	3.40%	3.60%	3.67%	3.74%	4.03%	-	4.42%	5.00%
Corporate (Aa/AA)	2.98%	3.63%	3.77%	3.63%	3.84%	4.29%	4.49%	4.61%	4.97%	5.42%
Corporate (A/A)	3.38%	3.86%	4.08%	4.53%	5.23%	4.98%	5.91%	5.89%	6.15%	5.96%
Corporate (Baa/BBB)	3.56%	4.25%	4.39%	4.81%	5.98%	6.34%	6.98%	7.81%	6.78%	7.35%
Municipal (Aaa/AAA)		2.39%	2.56%	2.45%	2.64%	2.73%	3.38%	4.15%	4.37%	
Municipal (Aa/AA)	2.62%	2.54%	2.68%	2.81%	2.78%	3.05%	3.32%	4.20%	4.59%	4.47%
Municipal (A/A)	2.47%	2.52%	2.72%	2.70%	2.87%	3.11%	3.48%	4.25%	4.77%	
Taxable Municipal*	2.53%	3.55%	3.86%	3.92%	4.05%	4.20%	4.46%	5.22%		5.46%

Dimension 3:

A Range of Yields Around the Benchmarks

Source: Fidelity.com as of September 2022 For illustrative purposes only

*Taxable Municipal ratings cover a rating range from Aaa to A3 from Moody's or AAA to A- from S&P.



					Ratir	ng		Bid		Ask				
rade	<u>Description</u>	Coupon	Maturity Date	Next Call Date	Moody's	<u>S&P</u>	<u>Yield</u>	Price Qty(min)	Price Qty(min)	Yield to Worst/ Yield to Sink	Yield to Maturity	Depth of Book	3rd Party Price / Recent Trades	and Issuer
Buy Sell	NORSK HYDRO A S BOND 7.25000% 09/23/2027	7.250	09/23/2027	View	AA2	AA-	4.620	111.668 250(5)	112.294 10(5)	4.488	4.488	0	112.309 View	IE SFP D
Buy Sell	CHEVRON USA INC NOTE CALL MAKE WHOLE1.01800% 08/12/2027	1.018	08/12/2027	06/12/2027	AA2	AA-	4.149	86.222 500(2)	86.284 5(2)	4.134	4.134	0	86.701 View	IE SFP D
Buy Sell	WALMART INC NOTE CALL MAKE WHOLE3.95000% 09/09/2027	3.950	09/09/2027	08/09/2027	AA2	AA	4.126	99.216 500(50)	99.494 500(2)	4.063	4.063	0	99.978 View	IE SFP D
	1		'		MEDIA	YIELD				'		1		
Buy Sell	APPLE INC NOTE CALL MAKE WHOLE2.90000% 09/12/2027	2.900	09/12/2027	06/12/2027	AAA	AA+	4.066	94.780 275(275)	94.818 100(5)	4.057	4.057	0	95.241 View	IE SFP D
Buy Sell	VISA INC NOTE CALL MAKE WHOLE2.75000% 09/15/2027	2.750	09/15/2027	06/15/2027	AA3	AA-	4.094	93.977 100(10)	94.338 100(10)	4.011	4.011	0	94.590 View	IE SFP D
Buy Sell	COLGATE PALMOLIVE CONOTE CALL MAKE WHOLE3.10000% 08/15/2027	3.100	08/15/2027	07/15/2027	AA3	AA-	4.002	96.006 6,737(20)	96.233 200(10)	3.950	3.950	0	96.703 View	IE SFP D

Dimension 3:

A Range of Yields Around the Benchmarks

Source: Fidelity.com as of September 2022 For illustrative purposes only

Investing in Corporate & Municipal Bonds

Comparing the Risks & Rewards of Various Bonds



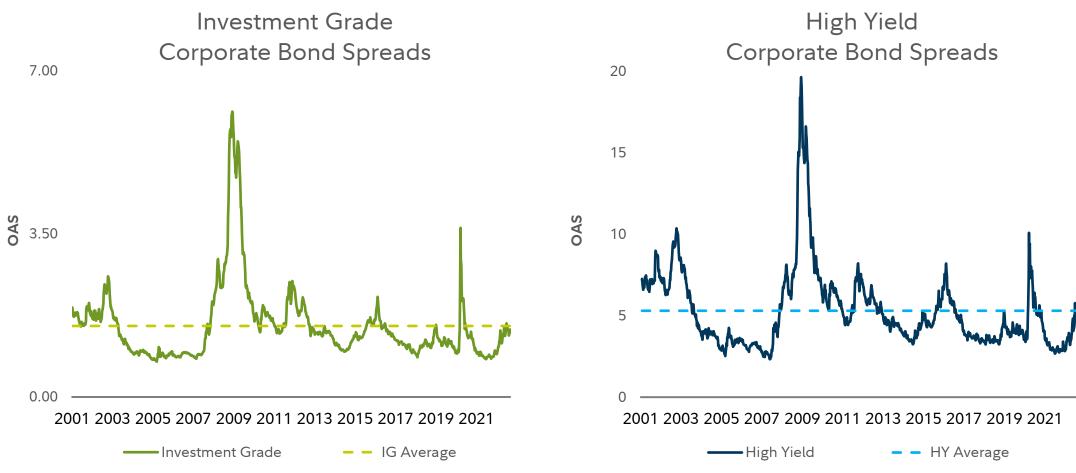
Fidelity's Tools Can Assist in Your Research



Corporate Bonds:

Fidelity.

Corporate Bond Spreads Return to Historical Averages



Source: Bloomberg U.S. Agg Corp Index (Investment Grade – Left Chart) & Bloomberg 's U.S. High Yield Index (High Yield – Right Chart), August 2022 OAS – Option Adjusted Spread

BOND STRUCTURE AND RATINGS

Price & Performance

CVS HEALTH CORP NOTE CALL MAKE WHOLE

3.87500% 07/20/2025

Overview

Details CUSIP 126650CL2 ISIN US126650CL25 SEDOL BYPFB82 SEMI-ANNUALLY Pay Frequency 3.875 Coupon 07/20/2025 Maturity Date Moody's Rating BAA2 S&P Rating BBB YES Issuer Events FINRA YES N/A Survivor Option Bond Type Corporate Sector OTHER INDUSTRIALS Interest Accrual Date 07/20/2015 Redemptive Features Call Protection View Schedule NO

Issuer Information

Issue Date Dated Date First Coupon Date Next Coupon Last Coupon Workout Date Original Issue Amount

Coupon Information

Coupon Type Current Rate Effective Date

Next Reset Date

Next Reset Rate

Issue Price

YES

NO



Fidelity.com Print | Close

Issuer Events

12/07/2020 3:30 PM EST OTHER MATERIAL EVENT REP AS OF 12/07/20

08/12/2020 1:30 PM EDT OTHER MATERIAL EVENT REP AS OF 08/12/20

11/28/2018 12:30 PM EST

OTHER MATERIAL EVENT REMOVED FROM NEGATIVE MDY CREDIT WATCH ON

DOWNGRADED TO Baa2 ON 11/28/18

S&P RATING DOWNGRADE

DOWNGRADED TO BBB ON 03/06/18

OTHER MATERIAL EVENT

REMOVED FROM NEGATIVE S&P CREDIT WATCH ON 03/06/18

__

Day Count Basis 30/360 Trading Flat NO Reset Frequency TERM MODE Benchmark Reference Benchmark Formula



Corporate Bonds:

Dive Deeper to Assess Risk Before You Invest

For illustrative purposes only

Source: Fidelity.com, September 2022

Continuously Callable

Called Bonds

Corporate Bonds:

Dive Deeper into Pricing

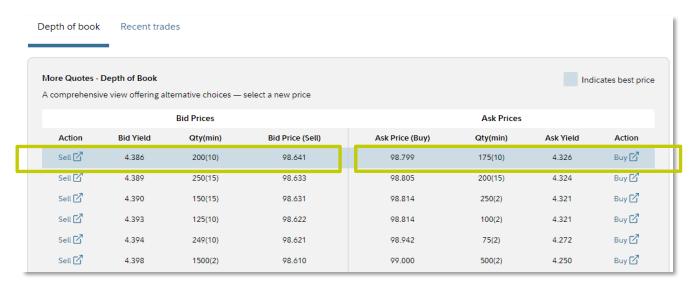
OFFERED PRICES AND YIELDS

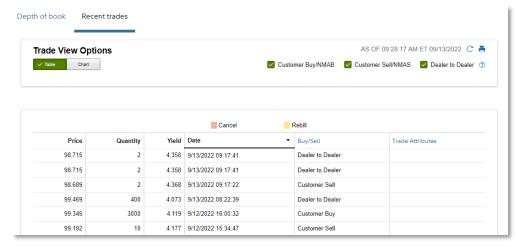
Overview Price & Perf	formance
Basic Analytics	
Price (Bid)	98.649
Price (Ask)	98.789
Depth of Book	View
Ask Yield to Worst	4.330%
Ask Yield to Maturity	4.330%
Current Yield	3.922%
Yield to Sink	
Third Party Price	99.187
Spread to Treasuries	0.583
Treasury Benchmark	3 YR.(2.875% 07/31/2025)
Recent Trade	View Recent Trades
Price	98.715
Quantity	2
Date/Time	09/13/2022 09:17:41
Buy/Sell	DD

For illustrative purposes only Source: Fidelity.com, September 2022



DEPTH OF BOOK AND TRADE HISTORY

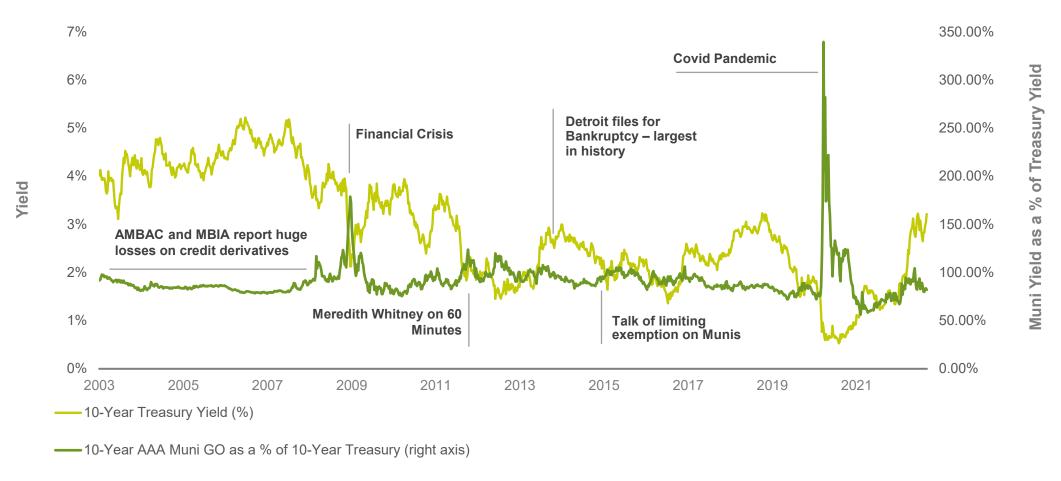




Municipal Bonds:

Fidelity

Municipal Yields Compared to Treasury Yields



Past performance is no guarantee of future results.

Source: Bloomberg, August 2022



						Ratir	ng	Underlyin	g Rating	Bid	?		Ask			3rd	
rade	<u>State</u>	Description	Coupon	Maturity Date	Next Call Date	Moody's	<u>S&P</u>	Moody's	<u>S&P</u>	<u>Yield</u>	Price Qty(min)	Price Qty(min)	Yield to Worst/ Yield to Sink	Yield to Maturity	Depth of Book	Party Price / Recent Trades	Attribut and Issuer
Buy Sell	NJ	GARFIELD N J GEN IMPT BDS 01.50000% 10/15/2025	1.500	10/15/2025			AA-	A1	NR		No Bid ()	95.470 100(5)	3.050	3.050	-	94.839 View	
Buy Sell	NJ	MAYWOOD N J GEN IMPTBDS 01.25000% 09/15/2025	1.250	09/15/2025			AA				No Bid ()	95.024 100(20)	2.997	2.997	-	93.882 View	
Buy Sell	AZ	MARICOPA CNTY ARIZ SCH DIST NO 028 01.00000% 07/01/2025KYRENE ELEM IMPT BDS2017 PROJ SER. 2020	1.000	07/01/2025		AAA	AA	AAA			No Bid ()	94.725 5(5)	2.981	2.981	-	94.168 View	
Buy Sell	VA	VIRGINIA ST HSG DEV AUTH RENTAL HSG BDS 02.15000% 09/01/2025SER. 2019A	2.150	09/01/2025	View	AA1	AA+	AA1			No Bid ()	98.100 30(5)	2.823	2.823		98.727 View	ME SFP ER F
Buy Sell	ОК	CANADIAN CNTY OKLA EDL FACS AUTH EDL 03.25000% 09/01/2025FACS LEASE REV LEASEREV BDS MUSTANG PUB	3.250	09/01/2025	View		AA-			2.895	101.000 10(10)	101.211 10(10)	2.821	2.821		101.586 View	
Buy Sell	CA	HUNTINGTON BEACH CALIF PUB FING AUTH 03.00000% 09/01/2025REV LEASE REV BDS SENIOR CTR PROJ SER.	3.000	09/01/2025	09/01/2024		AA				No Bid ()	100.378 15(5)	2.800	2.866		100.513 View	
Buy Sell	IN	INDIANA BD BK REV SPL PROG BDS CLAY 00.00000% 07/15/2025TOWNSHIP HAMILTON CNTY SER. 2019B More Issuer Information from BondLink	0.000	07/15/2025			AA-	-		-	No Bid ()	92.449 5(5)	2.790	2.790		91.936 View	
Buy Sell	OK	OKLAHOMA CNTY OKLA INDPT SCH DIST NO 01.50000% 08/01/2025012 EDMOND GO BLDG BDS SER. 2021	1.500	08/01/2025			AA+				No Bid ()	96.460 130(5)	2.788	2.788		95.533 View	

Municipal Bonds:

A Range of Issuers & Risk/Return Within a State

For illustrative purposes only

Source: Fidelity.com, September 2022

Table shows secondary offerings from

various states

HASBROUCK HEIGHTS N J BRD ED SCH DIST

01.00000% 08/15/2025BDS

Overview

Price & Performance

News & Documents

Details CUSIP 418092ES7 Pay Frequency SEMI-ANNUALLY 1.000 Coupon Maturity Date 08/15/2025 ASRD GUARTY MUN CORP Insurer Obligor Material Events YES **EMMA** YES Bond Type Municipal 07/01/2021 Interest Accrual Date

Ratings

S&P Rating

Obligor Rating

Moody's Rating	Current	Prior
	Effective Date	
Rating		
Watchlist		
Underlying Rating		
Insured Rating		
Enhanced Rating		
Obligor Rating		
		AA.

Current

Fidelity

Fidelity

Rating Changes

Municipal Bonds: Check Material Events for Other Important News

Redemptive Features

Call Protection	YES
Continuously Callable	-
Call Defeased	-
Called Bonds	NO
Make Whole Call	NO
Conditional Call	NO
Sinking Fund Protection	YES

	Effective Date
Rating	AA
	05/08/2022

O5/08/2022

Credit Watch -
Underlying Rating AA
Insurer Rating AA

03/18/2014

School ICR AA-06/14/2021

For illustrative purposes only

Source: Fidelity.com, September 2022



Click on the "Date" column to view the PDF version of the document.

Material Event Notices (1)

04/06/2022 NJ	HASBROUCK HEIGHTS N J BRD ED SCH DIST
	Headline: Upgrade (S&P) SCH BDS JUL 1, 2014; SCH BDS DTD JUL 1, 2021 (BK QUALIFIED); SCH REF BDS SER 2015

Primary Market Documents (1)

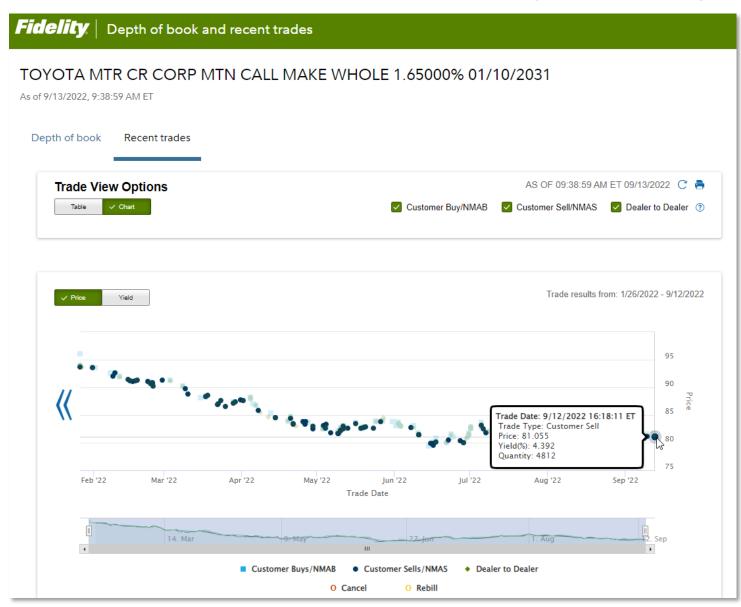
Dated Date	State	Issuer Name / Issue Description	Document Type	Par Amount
07/01/2021	NJ	HASBROUCK HEIGHTS N J BRD ED SCH DIST	Official Statement	\$3,895,000.00
		<no description="" issue="" provided=""></no>		

Financials / Continuing Disclosures (49)

	Document Description	Filing Type
06/30/2022 NJ	HASBROUCK HEIGHTS BRD OF ED Obligor: HASBROUCK HEIGHTS BRD OF ED	Budget
06/30/2021 NJ	HASBROUCK HEIGHTS BRD OF ED (UNAUDITED) Obligor: HASBROUCK HEIGHTS BRD OF ED	Annual Financial Statement, Statutory Financial
06/30/2021 NJ	HASBROUCK HEIGHTS BRD OF ED Obligor: HASBROUCK HEIGHTS BRD OF ED	Continuing Disclosure Report
06/30/2021 NJ	HASBROUCK HEIGHTS BRD OF ED Obligor: HASBROUCK HEIGHTS BRD OF ED	Continuing Disclosure Report
06/30/2021 NJ	HASBROUCK HEIGHTS BRD OF ED Obligor: HASBROUCK HEIGHTS BRD OF ED	CAFR

Recent Trade Charts for Municipal & Corporate Bonds



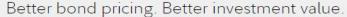


Municipal & Corporate Bonds:

Research Bond-Specific Information

For illustrative purposes only
Source: Fidelity.com, September 2022





You could save an average of \$15 per bond by choosing Fidelity versus potentially spending more elsewhere.

	Wells Fargo Price average higher vs. Fidelity	Morgan Stanley Price average higher vs. Fidelity	Merrill Lynch Price average higher vs. Fidelity	Fidelity Incremental purchase cost
1 Corporate bond	\$14.13	\$20.23	\$15.01	\$1.00
1 Municipal bond	\$10.37	\$16.71	\$14.35	\$1.00
Average Corporate/ Municipal bond price higher vs. Fidelity	\$12.25	\$18.47	\$14.68	

Example of a hypothetical single bond purchased online based on average price differentials taken from the 2022 Corporate Insight study¹ commissioned by Fidelity.



Pricing:

Fidelity's \$1 Per Bond Transaction Costs Are Very Competitive

Online:

Fidelity Viewpoint: How much am I paying for my bonds?

For illustrative purposes only

Source: Fidelity.com, September 2022

See disclosure on page 43 for details on this study

Minimum markup or markdown of \$19.95 applies if traded with a Fidelity representative. For U.S. Treasury purchases traded with a Fidelity representative, a flat charge of \$19.95 per trade applies. A \$250 maximum applies to all trades, reduced to a \$50 maximum for bonds maturing in one year or less. Rates are for U.S. dollar-denominated bonds; additional fees and minimums apply for non-dollar bond trades. Other conditions may apply; see Fidelity.com/commissions for details. Please note that markups and markdowns may affect the total cost of the transaction and the total, or "effective," yield of your investment. The offering broker, which may be our affiliate, National Financial Services LLC, may separately mark up or mark down the price of the security and may realize a trading profit or loss on the transaction.

Markup - For secondary market bonds and CD purchases, the difference (dollar and %) between the Prevailing Market Price (PMP) and the trade price. Mark-up is calculated as: Mark-up / Total initial price x 100. The mark-up includes, but may not be limited to, Fidelity's \$1 per bond pricing. Details available on our fee schedule.

Insights:



Market Commentary from Fidelity and Independent Sources

How much am I paying for my bonds?

You may be surprised by how mark-ups vary—and how they impact yields.

FIDELITY VIEWPOINTS - 05/18/2022











Key takeaways

- Mark-ups are dealer commissions bundled into the price of bonds.
- √ Many investors don't know how much dealers mark up bonds—or even if they're paying a mark-up at
- ✓ Mark-ups reduce a bond's yield, thereby reducing the buyer's total returns.
- √ There are ways to determine the amount of dealer mark-ups so you can find the lowest-cost provider.

For illustrative purposes only

Source: Fidelity.com, September 2022



US Economics | 12th Augus 202s



US ECONOMICS WEEKLY

More good news on inflation coming soon

The drop back in CPI inflation in July wasn't enough alone to convince Fed officials to change their plans for interest rate hikes. But we expect the better news on inflation to continue over the coming months, which will eventually persuade the Fed to halt its tightening cycle early next year.

Disinflationary forces beginning to build

The weakness in the July CPI was mainly due to a drop back in energy prices, which are on track for an even bigger decline in August. Furthermore, over the next few months we expect that disinflationary pressure to broaden out. Food prices, which increased by a stiff 1.1% m/m in July, will be the next deflationary shoe to drop. The surge in food price inflation was caused by a series of supply shocks that are now beginning to unwind. Poor harvests and the war in Ukraine drove up corn and wheat prices, drought in the South and West raised meat and fresh vegetable prices, while the avian flu outbreak in the Midwest earlier this year triggered a massive surge in the price of hickens and eggs. Dain prices have also

That could change dramatically in October, however, when new data on health insurer profitability are incorporated. Admittedly, the current elevated pace of CPI rents and owners' equivalent rent will persist for some time, but the private measures do already show a moderation in the inflation rate for new rental agreements.

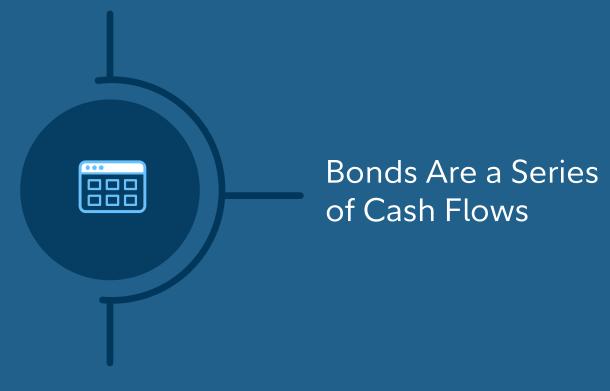
All things considered, we still think that headline inflation will drop below 2% by the middle of next year. (See Chart 1.) But we would stress that the balance of risks is shifting, with downside risks now dominating. It's no longer out of the question that headline inflation could briefly turn negative in the second half of 2023. Admittedly, core CPI inflation would still be running at around 3%, which would limit the Fed's scope to slash interest rates. But we doubt it would be enough to prevent officials from supporting a limited series of cuts to take the fed funds rate back toward neutral.

Chart 1: CPI Inflation (%)



Viewing Fidelity Bond Tools & Strategies

Using Investment Strategies to Manage Wealth



Diversifying Across Bond Types & Sectors



Using Bond Strategies to Manage Your Wealth



Common Financial Challenges Strategies **TOOLS** Bond **COLLEGE EDUCATION CASH FLOW PLANNING** Ladders **RISING INTEREST RATES** YIELD CURVE FLEXIBILITY Fixed Income Analysis **INFLATION FEARS DIVERSIFICATION** STOCK SELL-OFF **OVER-CONCENTRATED**

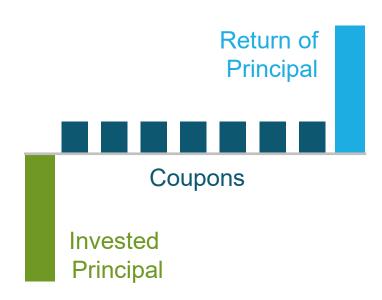
A Bond Is a Series of Cash Flows that Can Be Mixed with Others



A bond's projected cash flows

TOOLS

A ladder's cash flow projection



For illustrative purposes only Source: Fidelity.com, February 2021 Past performance is no guarantee of future results.

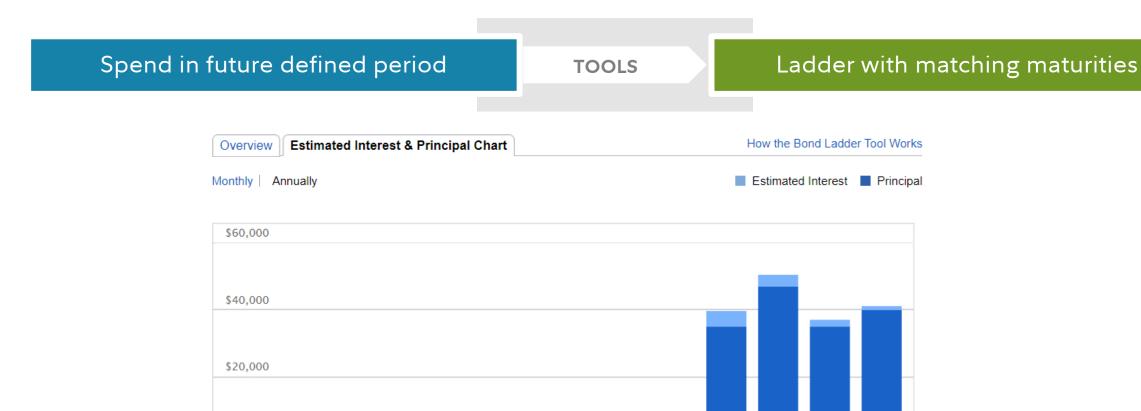
Search Results



College Education



Plan the Exact Year and Month Your Bonds Will Mature



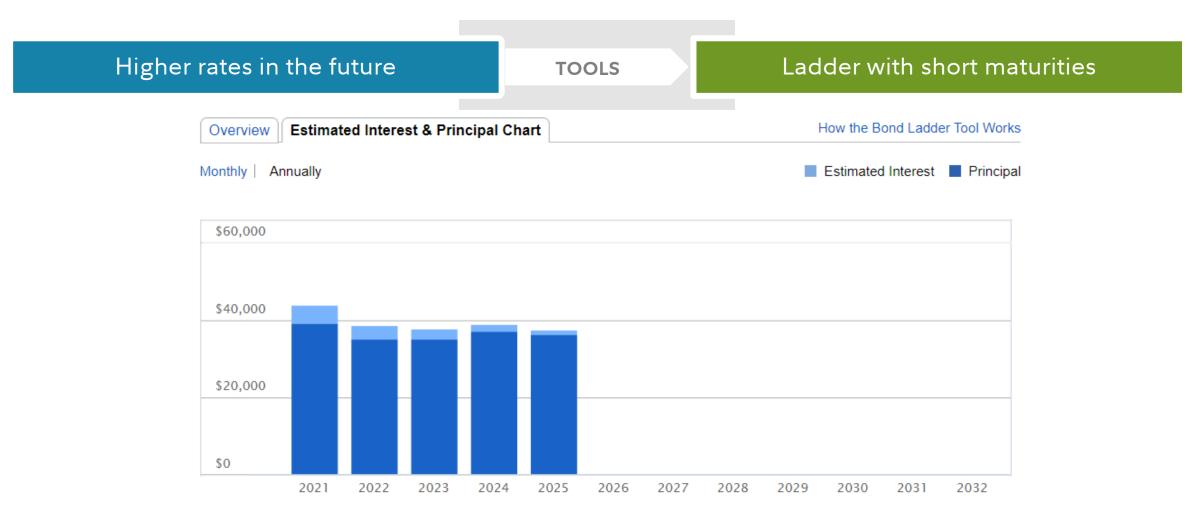
For illustrative purposes only Source: Fidelity.com, February 2021 Past performance is no guarantee of future results.

\$0

Rising Interest Rates / Inflation Fears



A Short-Dated Ladder Allows You to Reinvest Sooner



Stock Sell-Off



Certain Bond Types Are Less Correlated with Stocks than Others

Earn a return, inverse correlation

TOOLS

Fixed income market data

Fixed Income Market Data

Yield Curve | Key Rates | Market Benchmarks Data DATA AS OF END OF PREVIOUS BUSINESS DAY - 08/31/2022 Graph ✓ ■ Aggregate ✓ ■ Treasury Municipal ✓ Corporate ✓ Agency 0.0% -2.5% -5.0%

Market data provided by Factset. Powered and implemented by FactSet Digital Solutions. Legal Statement.

S&P 500 return over similar period (8/31/21 – 8/31/22) was (11.23)%. Source: Fidelity.com

Aggregate – Bloomberg Aggregate Bond Index, Treasury – Bloomberg Aggregate Bond Index Treasury, Municipal – Bloomberg Municipal Bond Index, Corporate – Dow Jones Corporate Bond Index, Agency - Bloomberg Aggregate Bond Index Agency (see index definitions on page 44)

Bond Product Type ¹	Correlation ² vs S&P 500
Treasury	(0.20)
U.S. Aggregate	0.11
Mortgage-Backed Securities	(0.02)
Municipal Bonds	0.15
Inv. Grade Corporate Bonds	0.40
Emerging Market Bonds	0.57
High Yield Corporates	0.72

For illustrative purposes only

(1) Source: Morningstar using Bloomberg indices (2) Correlations 12/31/2002 – 8/31/2022

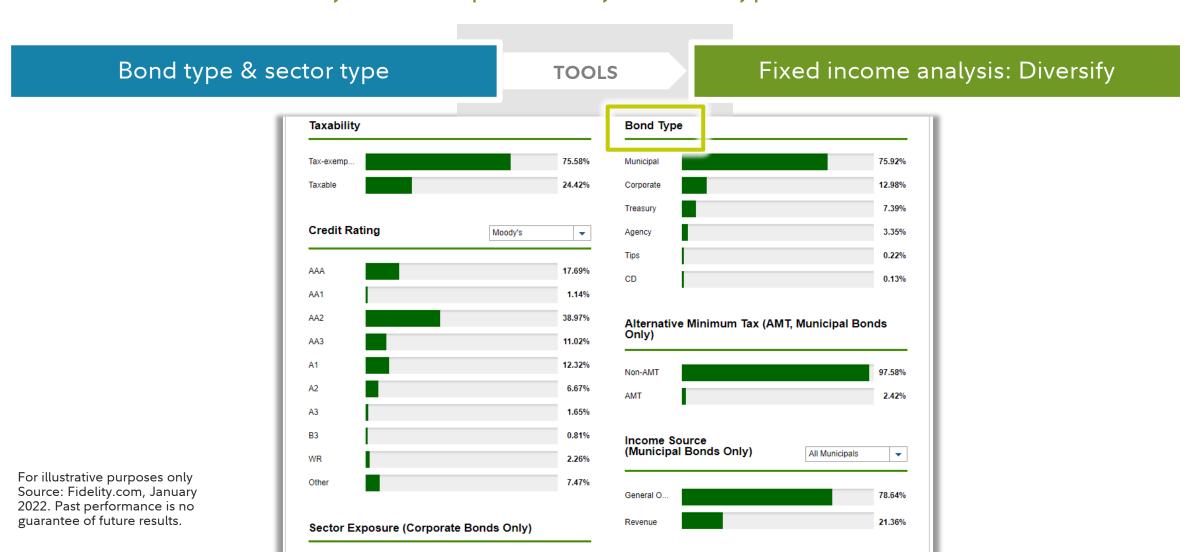
Past performance is no guarantee of future results

Over Concentrated

Finance (



Use Fixed Income Analysis to Help Diversify Across Types and Sectors



66.93%

Duration (years)





In Review





Fidelity's Fixed Income Tools

fidelity.com/fixedincome/tools

Fidelity's Research Page

fidelity.com/fixedincome/research

Attend additional seminars:

- Demystifying Bond Selection for Your Portfolio
- Understanding Bond Pricing
- Using Fidelity's Fixed Income & Bond Investing Tools



How Fidelity Can Help



Create a more effective, overall fixed income investment strategy

Available resources include:

- Your local Financial Consultant
- A local Fixed Income Consultant
- A Fixed Income Specialist at 800-544-5372

With a more sophisticated understanding of the bond landscape, you can make empowered decisions to help you grow your portfolio.





Why Fidelity



WE BELIEVE IN MAKING THE COMPLEX, SIMPLER



Planning and Advice



Trading



Straightforward Pricing



Expert Insights and Investing Tools



Security and Protection

Important additional information



Investing involves risk, including risk of loss.

\$0.00 commission applies to online U.S. equity trades, exchange-traded funds (ETFs), and options (+ \$0.65 per contract fee) in a Fidelity retail account only for Fidelity Brokerage Services LLC retail clients. Sell orders are subject to an activity assessment fee (from \$0.01 to \$0.03 per \$1,000 of principal). There is an Options Regulatory Fee that applies to both option buy and sell transactions. The fee is subject to change. Other exclusions and conditions may apply. See Fidelity.com/commissions for details. Employee equity compensation transactions and accounts managed by advisors or intermediaries through Fidelity Institutional® are subject to different commission schedules.

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Fidelity now offers the Fidelity ZERO Total Market Index Fund (FZROX), Fidelity ZERO International Index Fund (FZILX), Fidelity ZERO Large Cap Index Fund (FNILX), and Fidelity ZERO Extended Market Index Fund (FZIPX) available to individual retail investors who purchase their shares through a Fidelity brokerage account.

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Other fees and expenses may also apply to straight forward pricing.

In general, the bond market is volatile, and fixed income securities carry interest rate risk. (As interest rates rise, bond prices usually fall, and vice versa. This effect is usually more pronounced for longer-term securities). Fixed income securities also carry inflation risk, liquidity risk, call risk and credit and default risks for both issuers and counterparties. Any fixed-income security sold or redeemed prior to maturity may be subject to loss.

Interest income earned from tax-exempt municipal securities generally is exempt from federal income tax, and may also be exempt from state and local income taxes if the investor is a resident in the state of issuance. A portion of the income received may be subject to federal and state income taxes, including the federal alternative minimum tax. In addition, investors may be subject to tax on amounts recognized in connection with the sale of municipal bonds, including capital gains and "market discount" taxed at ordinary income rates. "Market discount" arises when a bond is purchased on the secondary market for a price that is less than its stated redemption price by more than a statutory amount. Before making any investment, investors should review the official statement for the relevant offering for additional tax and other considerations.

Disclosures



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References to specific securities are for illustrative purposes only and should not be construed as recommendations or investment advice.

A bond ladder, depending on the types and amount of securities within it, may not ensure adequate diversification of your investment portfolio. While diversification does not ensure a profit or guarantee against loss, a lack of diversification may result in heightened volatility of your portfolio value. You must perform your own evaluation as to whether a bond ladder and the securities held within it are consistent with your investment objectives, risk tolerance, and financial circumstances. To learn more about diversification and its effects on your portfolio, contact a representative.

Diversification does not ensure a profit or guarantee against loss.

1. (from page 27) Fidelity commissioned Corporate Insight to study bond pricing, available online, for self-directed retail investors from three brokers that offer corporate and municipal bonds for comparison to Fidelity's standard online pricing. The <u>study</u> compared online bond prices for more than 27,000 municipal and corporate inventory matches from February 4 through March 7, 2022. It compared municipal and corporate inventories offered online in varying quantities. The study found that, on average, the three online bond brokers identified in the chart were asking \$15.14 more per bond. Corporate Insight determined the average price differential by calculating the difference between the prices of matching corporate and municipal bond inventory at Fidelity, including Fidelity's \$1 per bond markup for online trades vs. the prices offered online for the same bonds from the three brokers in the table, then averaging the differences of the financial services firms. The analysis included investment grade corporate and municipal bonds only.

Past performance is no guarantee of future results.

Disclosures



All indexes are unmanaged, and performance of the indexes includes reinvestment of dividends and interest income, unless otherwise noted. Indexes are not illustrative of any particular investment, and it is not possible to invest directly in an index.

Bloomberg U.S. High Yield Index is a market value-weighted index that covers the universe of dollar-denominated, fixed-rate, non-investment grade debt.

Bloomberg Emerging Market Bond Index is an unmanaged index that tracks total returns for external-currency-denominated debt instruments of the emerging markets.

Bloomberg U.S. Corporate Investment Grade Index is a market value-weighted index of investment-grade corporate fixed-rate debt issues with maturities of one year or more.

Bloomberg U.S. TIPS Index is an unmanaged index that consists of inflation-protected securities issued by the U.S. Treasury.

Bloomberg Municipal Bond Index is an unmanaged index that includes investment-grade, tax-exempt, and fixed-rate bonds with maturities greater than two years selected from issues larger than \$75 million.

The Bloomberg U.S. Mortgage Backed Securities (MBS) Index tracks agency mortgage backed pass-through securities (both fixed-rate and hybrid ARM) guaranteed by Ginnie Mae (GNMA), Fannie Mae (FNMA), and Freddie Mac (FHLMC). The index is constructed by grouping individual TBA-deliverable MBS pools into aggregates or generics based on program, coupon and vintage. Introduced in 1985, the GNMA, FHLMC and FNMA fixed-rate indices for 30- and 15-year securities were backdated to January 1976, May 1977, and November 1982, respectively. In April 2007, agency hybrid adjustable-rate mortgage (ARM) pass-through securities were added to the index.

Bloomberg U.S. Aggregate Index is an unmanaged index that tracks domestic investment-grade bonds, including corporate, government, and mortgage-backed securities.

Bloomberg U.S. Treasury Index is a market value–weighted index of public obligations of the U.S. Treasury with maturities of one year or more. The Bloomberg Municipal Bond Index is an unmanaged market value–weighted index of investment-grade municipal bonds with maturities of

one year or more.

BofA Merrill Lynch US High Yield Master II Index tracks the performance of US dollar denominated below investment grade rated corporate debt publicly issued in the US domestic market. Each security must have greater than 1 year of remaining maturity, a fixed coupon schedule, and a minimum amount outstanding of \$100 million.

The S&P 500® is an unmanaged market value-weighted index including 500 leading companies and captures approximately 80% coverage of available market capitalization.

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