

☐First Trust

INVESTMENT EXPERTISE



INVESTMENT MANAGEMENT TEAMS

LEVERAGED FINANCE

William Housey, CFA, MBA, 25 years Jeffrey Scott, CFA, MBA, 32 years Scott D. Fries, CFA, MBA, 27 years Gregory Olsen, CFA, MBA, 29 years Brian Kessler, CFA, CMT, 17 years Sebastian Dassouli, 14 years Natasha Kennedy, MBA, 7 years Peter Fasone, CFA, MBA, 36 years Howard Tiffen. AM. 40+ years Andy Rybak, CFA, MBA, 22 years Dave Tanny, 26 years Jeffrey Johnson, CFA, 8 years Rvan Kommers, 25 years Cory Starkey, CFA, MS, 5 years Daniel Nagode, CFA, 5 years Daniel Waldron Jr., 5 years Sam Cafi, MBA, 11 years Brandon Nelson, 1 years

SECURITIZED PRODUCTS

Jim Snyder, MBA, 32 years
Jeremiah Charles, MS, 18 years
Jud Tigerman, MBA, 25 years
Austin Stockfisch, 10 years
Alex DeRochie, 4 years
Minhua Wu, 4 years
Owen Aronson, 14 years
Stephen Pennington, MS, 17 years
Samuel Cecil, MBA, 9 years
Danielle Vandolder-Beaudin, < 1 year
Jordan Pflum, MS, < 1 year

INVESTMENT GRADE

Todd Larson, CFA, 29 years Eric Maisel, CFA, MS, 29 years Ying Timmerman, CFA, CPA, 14 years David Worniak, CFA, 11 years Nathan Simons, CFA, 10 years Michael Doyle, MBA, 23 years Matthew Franz, 3 years Charles Kovarik, 3 years

GLOBAL BONDS

(First Trust Global Portfolios Limited)

Derek Fulton, 25 years

Leonardo DaCosta, CFA, 17 years

Anthony Beevers, CFA, 11 years

CLOSED-END FUNDS

Ken Fincher, MBA, 25 years Jordan Ramsland, 8 years

MUNICIPAL SECURITIES

Tom Futrell, CFA, MBA, 40 years Johnathan Wilhelm, JD, 29 years Nick Novosad, CFA, 9 years Jeff Samuel, 27 years Sarah Schusler, CFA, 16 years Shari Sikes, MS, 26 years Brendan Stewart, CFA, CPA, 9 years John Loch, MBA, 26 years Andrew Folland, MBA, 25 years Allison Keller, 2 years

PREFERRED SECURITIES

(Stonebridge Advisors LLC)
Scott Fleming, MBA, 40 years
Robert Wolf, MBA, 22 years
Eric Weaver, MS, 14 years
Angelo Graci, CFA, MBA, 26 years
Allen Shepard, PhD, 28 years
Connor Fleming, CFA, CIPM, 9 years
Scott Hubbell, CFA, 13 years
Jeff Vinca, 17 years
Marie-Belle Mikue, 8 years

ECONOMICS

Brian Wesbury, MBA, 39 years Robert Stein, CFA, 26 years Strider Elass, 15 years Andrew Opdyke, CFA, MBA, 10 years Gill Bryce, 7 years Nate Gerze, 1 year Mary Buchanan, 18 years

MARKET ANALYSIS

Bob Carey, CFA, 34 years **Steve Claiborne**, 32 years

RESEARCH

David McGarel, CFA, CPA, 31 years **Jon Erickson**, CFA, MBA, 31 years **Chris Peterson**, CFA, MBA, 22 years

EQUITY RESEARCH

John Sherren, CFA, MBA, 23 years Jared Wollen, CFA, MS, 12 years Tom Marsh, 7 years Eric Glombicki, 1 year Jack Wagner, < 1 year

FIXED INCOME RESEARCH

Jim Vavrek, CFA, 22 years Tom Evans, CFA, JD, 19 years Steve Collins, CFA, MBA, 15 years Orlando Becerra, 8 years

PRODUCT SPECIALIST

Jeff Margolin, MBA, 25 years Ryan O. Issakainen, CFA, MA, 20 years Andrew Hull, 12 years

STRATEGY RESEARCH

Chris Bush, CFA, 15 years Bob Hensley, CFA, MS, 18 years Omar Sepulveda, CFA, 23 years Graham Homberg, CFA, 14 years Elliott Papineau, 13 years Brad Phillips, CFA, 10 years Steve Rinn, CFA, 5 years John Bria, 7 years Chris Swade, 2 years Tyler Jones, 2 years Simon Peterson, < 1 year

QUANT TECH

Dan Godoy, CFA, MBA, 14 years John Hagerson, CFA, 21 years Jeff Sommars, PhD, CFA, 6 years Landon Kavlie, PhD, 5 years Nathan Bliss, PhD, CFA, 3 years Robby Teevans, 2 years Evan Cameron, 1 year Michael Kietzman, 1 year Jon Larson, 1 year Matt Adomshick, 1 year

MODEL INVESTMENT COMMITTEE

Daniel J. Lindquist, CFA, MBA Chairman and Managing Director 29 years

David McGarel, CFA, CPA CIO, COO and Managing Director 31 years **William Housey**, CFA, MBA Managing Director of Fixed-Income 25 years

Chris Peterson, CFA, MBA SVP, Head of Strategy Research 22 years

Chris Fallow, CFA SVP, Portfolio Oversight 21 years

Steve Collins, CFA, MBA SVP, Senior Fixed-Income Analyst 15 years

TABLE OF CONTENTS



MARKET DATA

- SECULAR BULL AND BEAR EQUITY MARKETS
- 4. WEEKLY S&P 500 INDEX
- 5. WEEKLY 2 YR AND 5 YR U.S. TREASURY YIELD
- 6. WEEKLY 10 YR AND 30 YR U.S. TREASURY YIELD
- 40-YEAR MONTHLY 10 YR U.S. TREASURY YIELD
- 10 YR U.S. TREASURY REAL YIELD
- 9. INFLATION: BREAKEVENS
- **10.** 10 YR U.S. TREASURY YIELD AND 10 YR GERMAN BUND YIELD
- 11. WEEKLY 10 YR GOVERNMENT BOND YIELDS (GERMANY & JAPAN)
- 12. WEEKLY 10 YR GOVERNMENT BOND YIELDS (U.K. & ITALY)
- 13. CENTRAL BANK BALANCE SHEETS
- 14. NET DEALER TREASURY HOLDINGS
- 15. GLOBAL NEGATIVE YIELDING DEBT
- 16. WEEKLY U.S. DOLLAR INDEX (DXY)

LEADING INDICATORS

- 17. THE BUSINESS CYCLE
- 18. 2 YR VS 10 YR U.S. TREASURY YIELD SPREAD & 3 MO VS 10 YR U.S. TREASURY YIELD SPREAD
- 19. REAL FEDERAL FUNDS RATE
- 20. TOTAL PICKUP TRUCK SALES
- 21. ECONOMIC SURPRISE INDEX
- 22. COMMODITIES
- 23. CHEMICAL ACTIVITY BAROMETER (CAB INDEX)

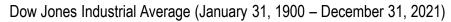
FIXED INCOME OPPORTUNITY SET

- 24. FIXED INCOME DASHBOARD
- 25. MUNICIPAL BONDS
- 26. MONEY MARKET RATES
- 27. FIXED INCOME ASSET CLASS PRICE ANALYSIS
- 28. YIELD PER UNIT OF DURATION
- 29. FIXED INCOME OPPORTUNITY SET DURATION VS YTM
- 30. FIXED INCOME OPPORTUNITY SET NOMINAL & REAL YIELDS
- 31. SIZE AND GROWTH OF THE U.S. DEBT MARKET
- 32. SIZE AND CREDIT QUALITY OF THE U.S. CORPORATE DEBT MARKET
- 33. YTM DIFFERENCE OF HIGH-YIELD BONDS VS LOANS
- 34. SENIOR LOAN AND HIGH-YIELD BOND DEFAULT RATE
- 35. FIXED INCOME ASSET CLASS RETURNS
- 36. ASSET CLASS CORRELATION
- 37. DEFINITIONS

All index data shown herein is for illustrative purposes only and not indicative of any actual investment. Index returns do not reflect any fees, expenses, or sales charges. Investors cannot invest directly in an index.

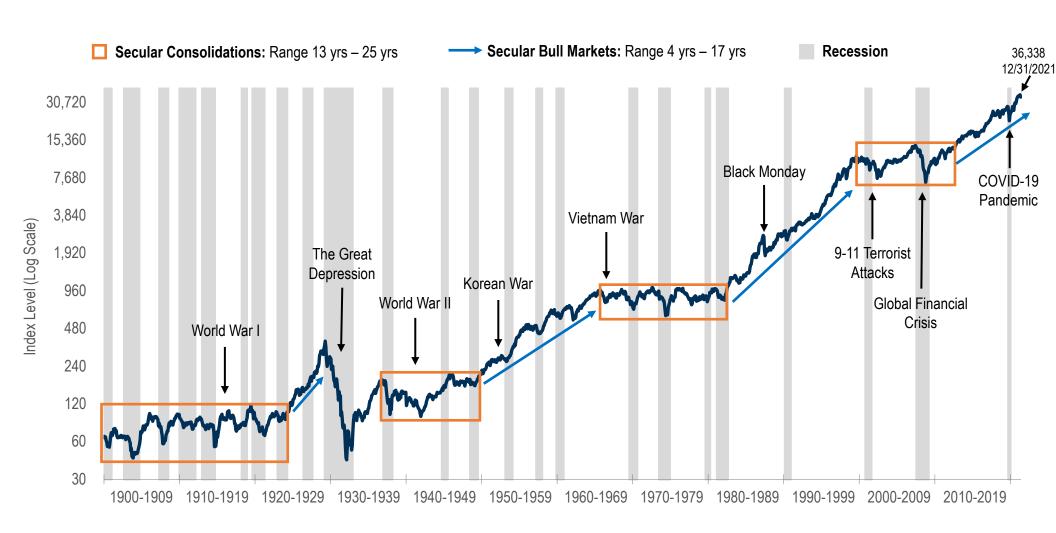
The information presented is not intended to constitute an investment recommendation for, or advice to, any specific person By providing this information, First Trust is not undertaking to give advice in any fiduciary capacity within the meaning of ERISA, the Internal Revenue Code or any other regulatory framework. Financial professionals are responsible for evaluating investment risks independently and for exercising independent judgment in determining whether investments are appropriate for their clients.

SECULAR BULL AND BEAR EQUITY MARKETS





MARKET DATA



Source: Bloomberg. See Index Definitions.

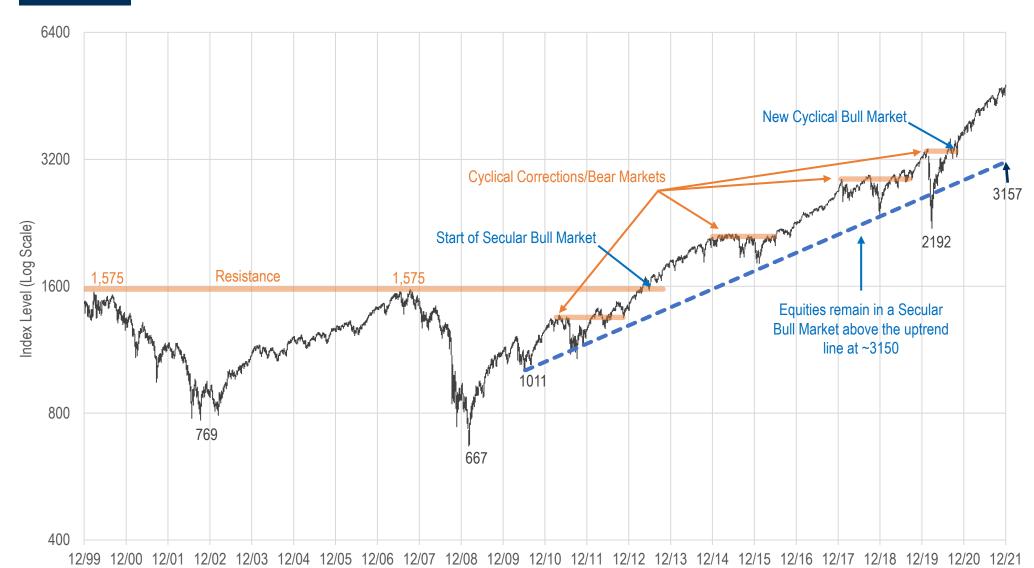
Past performance is no guarantee of future results.

WEEKLY S&P 500 INDEX

December 31, 1999 - December 31, 2021







Source: Bloomberg. See Index Definitions.

Past performance is no guarantee of future results.

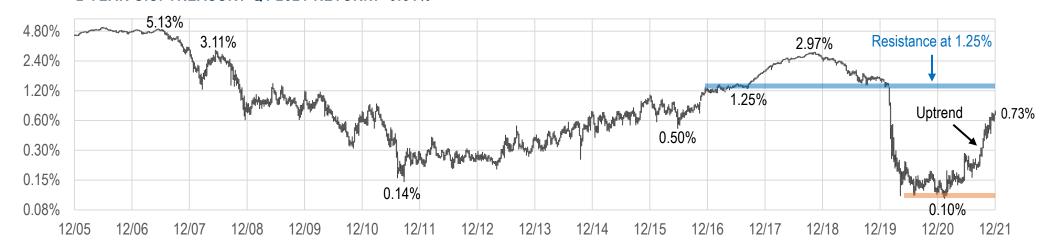
WEEKLY 2 YEAR AND 5 YEAR U.S. TREASURY YIELD

December 31, 2005 – December 31, 2021

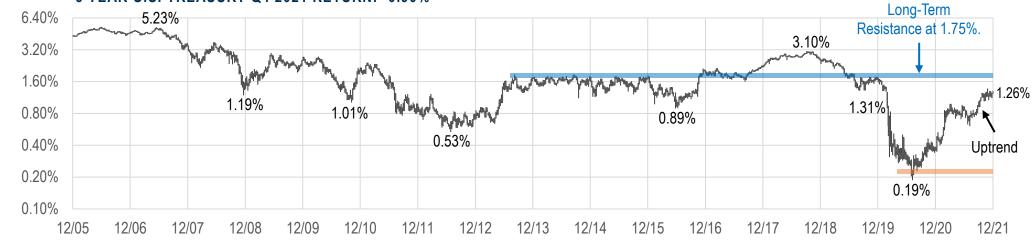


MARKET DATA

2 YEAR U.S. TREASURY Q4 2021 RETURN: -0.51%







Source: Bloomberg. Past performance is no guarantee of future results. The 2 Year U.S. Treasury return is represented by the ICE BofA Current 2-Year U.S. Treasury Index. The 5 Year U.S. Treasury Index. See Index Definitions.

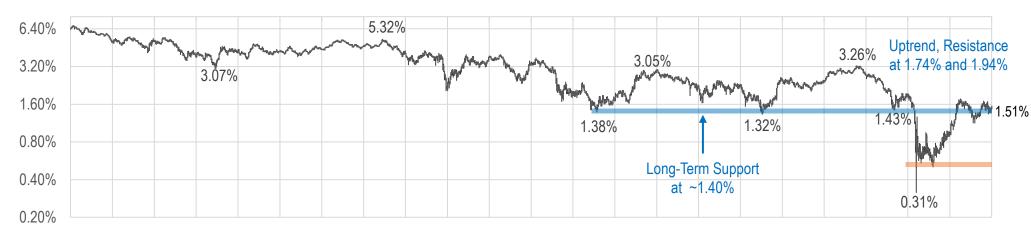
WEEKLY 10 YEAR AND 30 YEAR U.S. TREASURY YIELD

December 31, 1999 – December 31, 2021



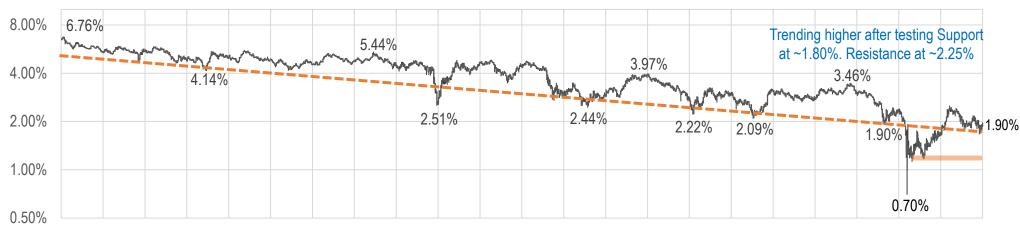
MARKET DATA

10 YEAR U.S. TREASURY Q4 2021 RETURN: 0.75%



12/99 12/00 12/01 12/02 12/03 12/04 12/05 12/06 12/07 12/08 12/09 12/10 12/11 12/12 12/13 12/14 12/15 12/16 12/17 12/18 12/19 12/20 12/21

30 YEAR U.S. TREASURY Q4 2021 RETURN: 4.96%



12/99 12/00 12/01 12/02 12/03 12/04 12/05 12/06 12/07 12/08 12/09 12/10 12/11 12/12 12/13 12/14 12/15 12/16 12/17 12/18 12/19 12/20 12/21

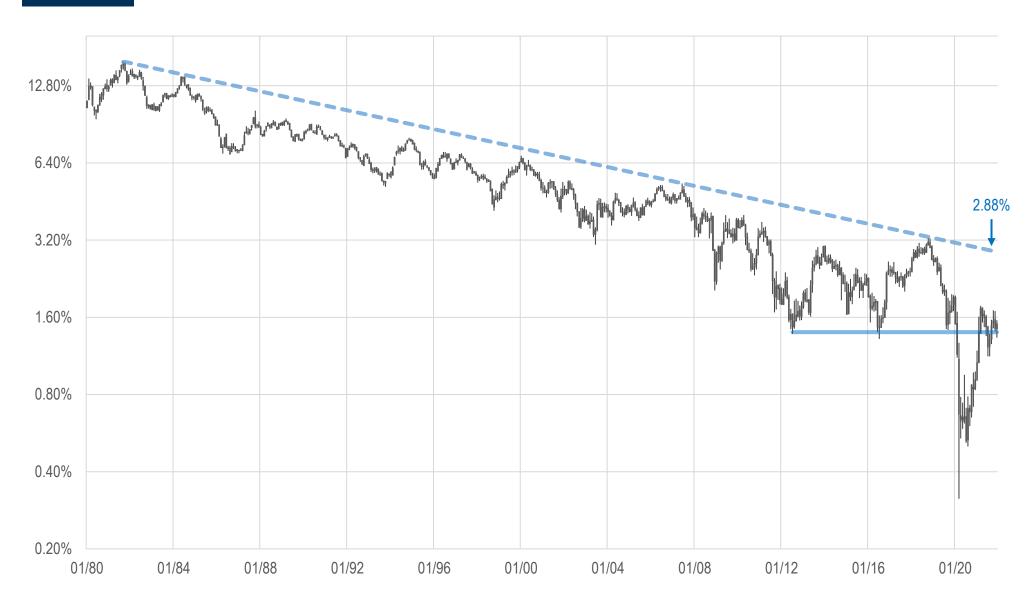
Source: Bloomberg. Past performance is no guarantee of future results. The 10 Year U.S. Treasury return is represented by the ICE BofA Current 10-Year U.S. Treasury Index. The 30 Year U.S. Treasury return is represented by the ICE BofA Current 30-Year U.S. Treasury Index. See Index Definitions.

40-YEAR MONTHLY 10 YEAR U.S. TREASURY YIELD

January 31, 1980 - December 31, 2021



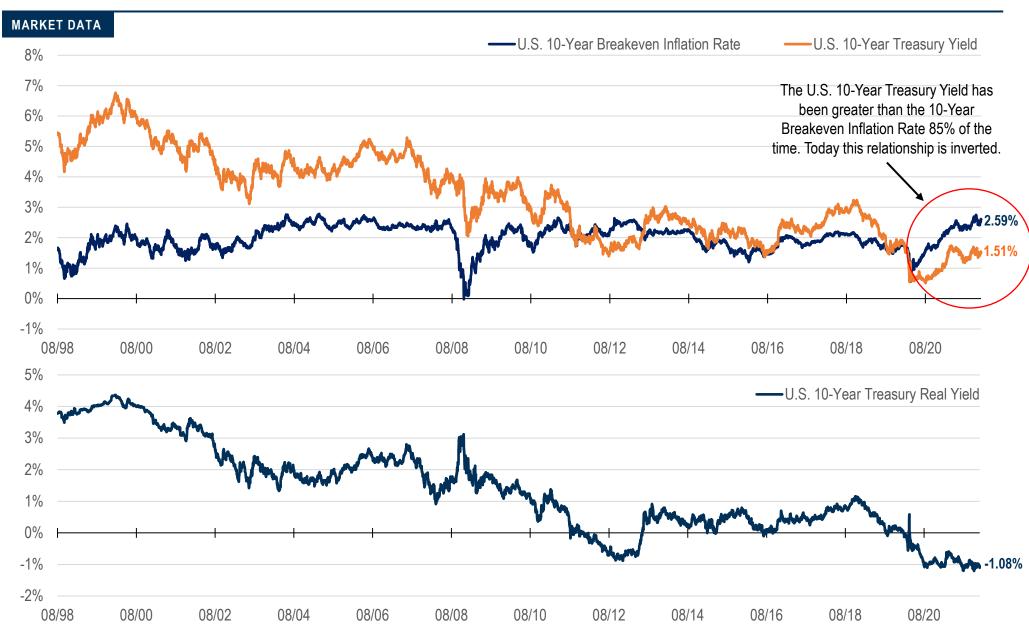
MARKET DATA



10-YEAR U.S. TREASURY REAL YIELD

August 3, 1998 - December 31, 2021





Real Yield is an interest rate that has been adjusted to remove the effects of inflation. Real Yield is calculated as the difference in yields between U.S Treasury bonds and Treasury Inflation-Protected Securities (TIPS). The breakeven rate is a market-based gauge for the expected annual inflation. See Index Definitions.

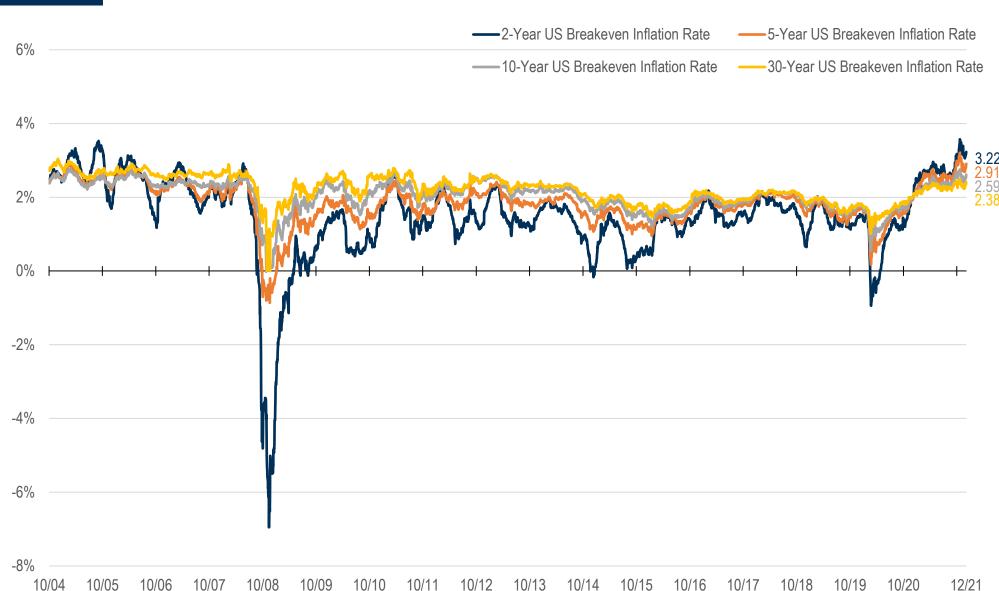
Source: Bloomberg: Past performance is no guarantee of future results.

INFLATION: BREAKEVENS

October 27, 2004 - December 31, 2021





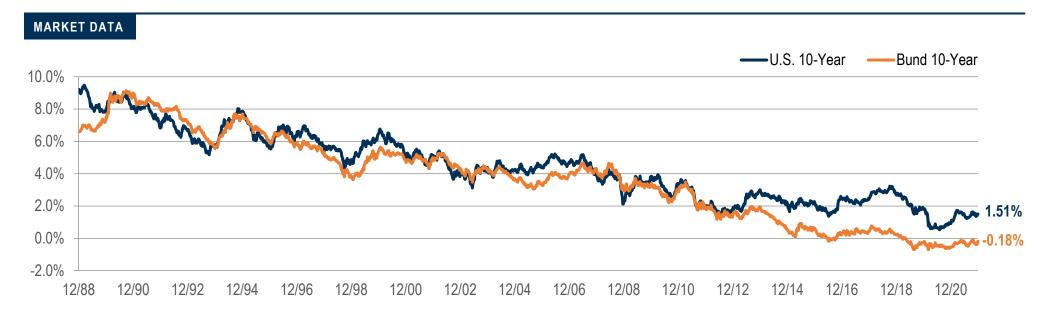


Source: Bloomberg: The breakeven rate is a market-based gauge for the expected annual inflation. Past performance is no guarantee of future results. See Index Definitions.

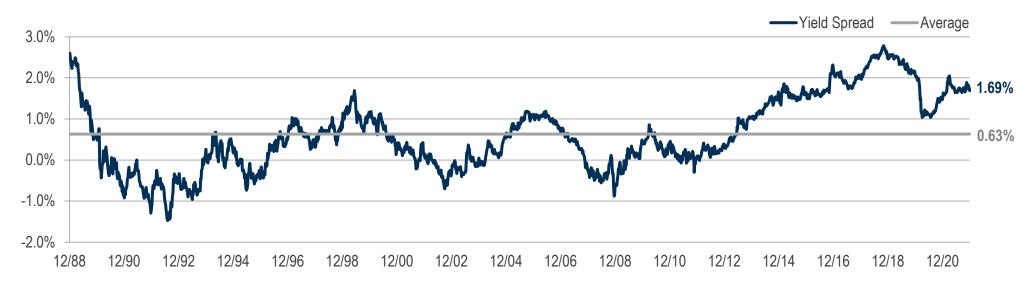
10 YEAR U.S. TREASURY YIELD AND 10 YEAR GERMAN BUND YIELD



December 31, 1988 – December 31, 2021



YIELD SPREAD BETWEEN THE 10 YEAR U.S. TREASURY YIELD AND THE 10 YEAR GERMAN BUND YIELD



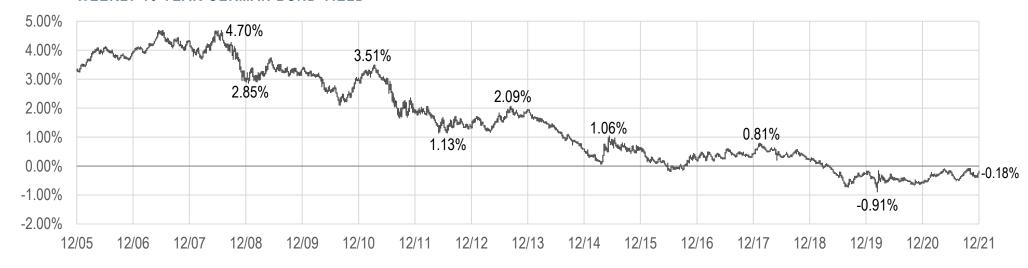
WEEKLY 10 YEAR GOVERNMENT BOND YIELDS (GERMANY & JAPAN)



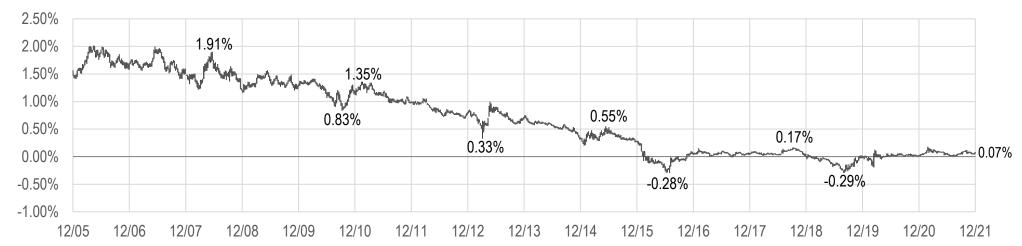
December 31, 2005 - December 31, 2021

MARKET DATA

WEEKLY 10 YEAR GERMAN BUND YIELD



WEEKLY 10 YEAR JAPANESE GOVERNMENT BOND YIELD



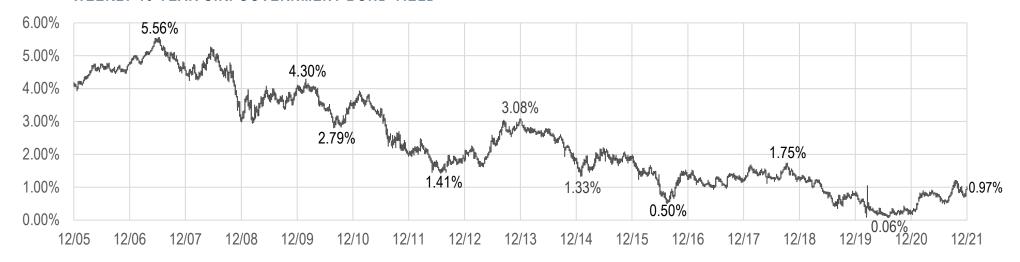
WEEKLY 10 YEAR GOVERNMENT BOND YIELDS (U.K. & ITALY)

December 31, 2005 - December 31, 2021

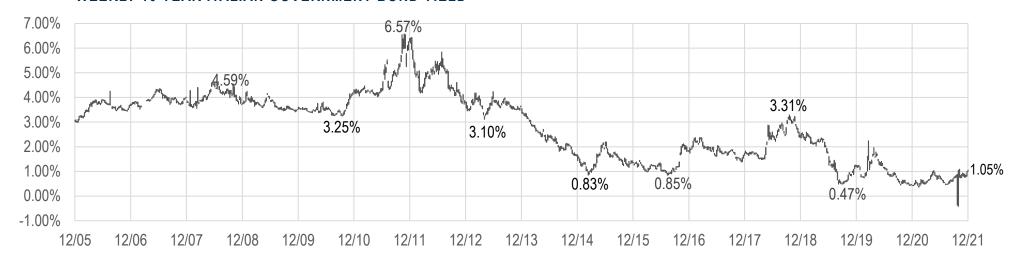


MARKET DATA

WEEKLY 10 YEAR U.K. GOVERNMENT BOND YIELD



WEEKLY 10 YEAR ITALIAN GOVERNMENT BOND YIELD

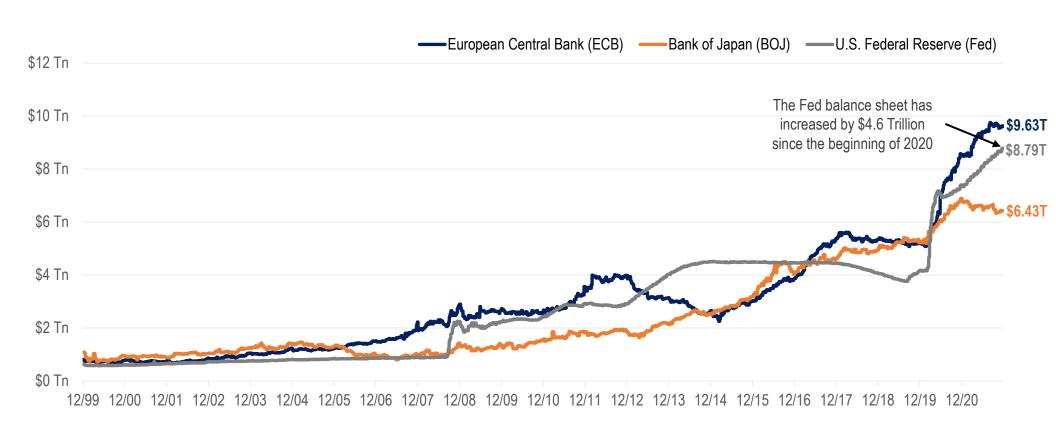


CENTRAL BANK BALANCE SHEETS

December 31, 1999 - December 24, 2021



MARKET DATA



Source: Bloomberg. See Index Definitions.

NET DEALER TREASURY HOLDINGS

December 31, 2014 - December 22, 2021



MARKET DATA



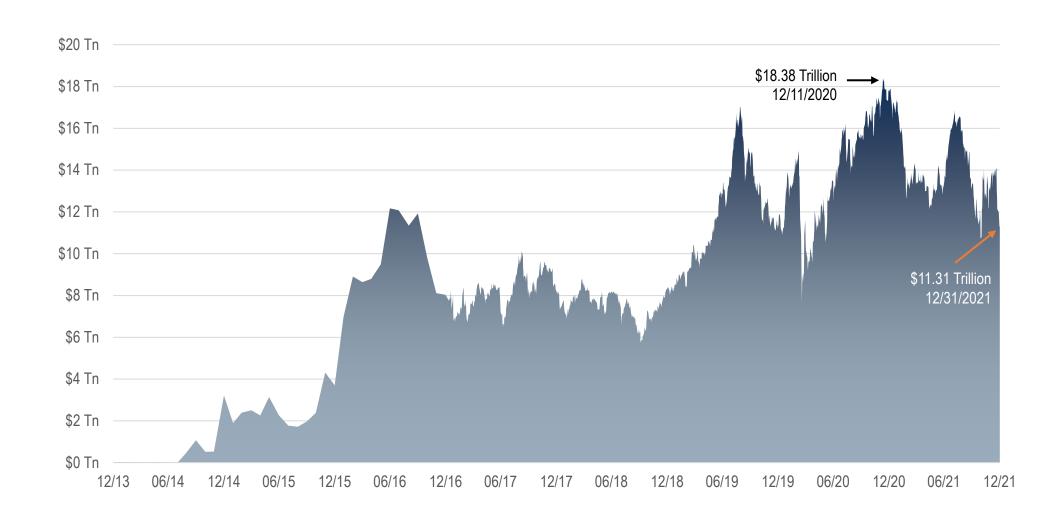
Source: Bloomberg, Federal Reserve. See Index Definitions.

GLOBAL NEGATIVE YIELDING DEBT

December 31, 2013 - December 31, 2021



MARKET DATA



Source: Bloomberg. Global negative yielding debt is comprised by summing the negative yielding debt within the Bloomberg Global-Aggregate Index. See Index Definitions.

WEEKLY U.S. DOLLAR INDEX (DXY)

December 31, 2010 - December 31, 2021

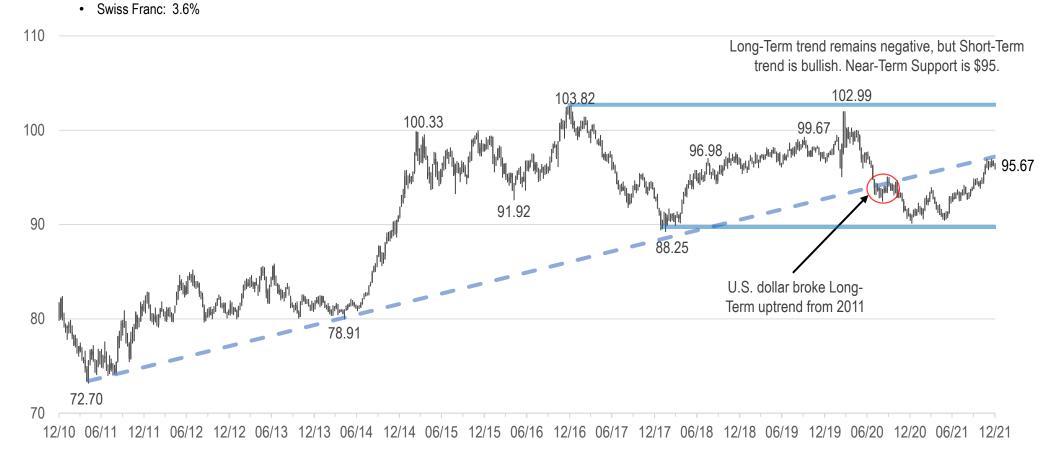


MARKET DATA

DXY is a measure of the U.S dollar's value relative to the following currencies:

• Euro: 57.6%

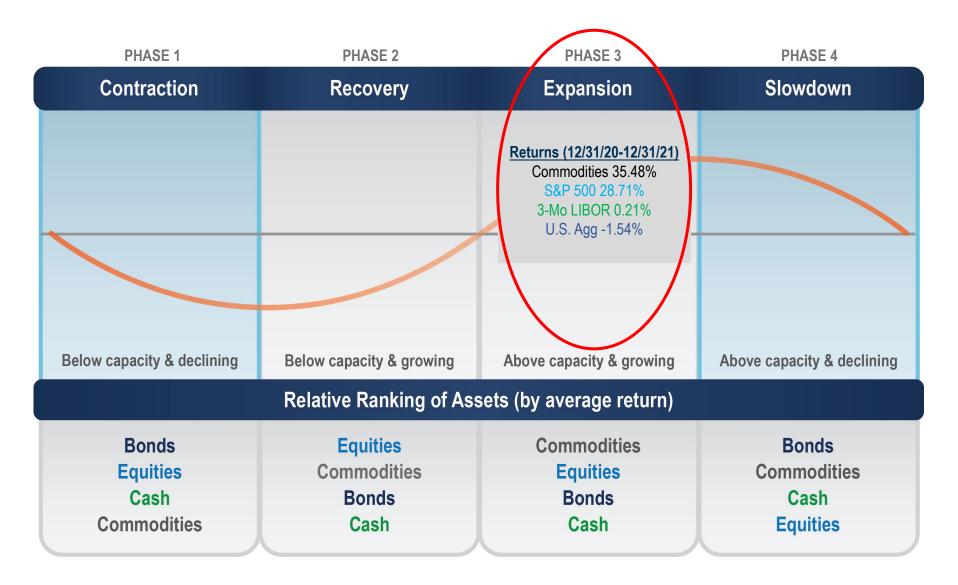
Japanese Yen: 13.6%
British Pound: 11.9%
Canadian Dollar: 9.1%
Swedish Krona: 4.2%



THE BUSINESS CYCLE



LEADING INDICATORS

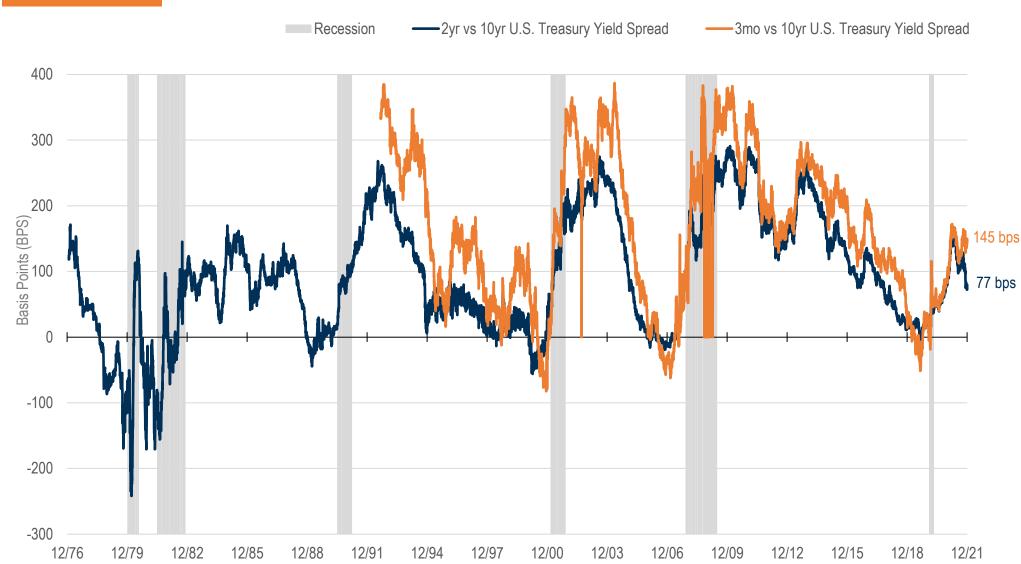


Source: Goldman Sachs Global Investment Research Past performance is no guarantee of future results. This chart is for illustrative purposes only and not indicative of any actual investment. See Index Definitions.

2 YEAR VS 10 YEAR U.S. TREASURY YIELD SPREAD & 3 MONTH VS 10 YEAR U.S. TREASURY YIELD SPREAD







Source: Bloomberg, as of 12/31/2021. **Past performance is no guarantee of future results.** The yield spread is the difference between yields on the varying Treasury maturities. A basis point is a common unit of measure for interest rates and is equal to 1/100th of 1% or 0.01%. A 1% change is equal to 100 basis points. See Index Definitions.

REAL FEDERAL FUNDS RATE

December 31, 1970 - December 31, 2021





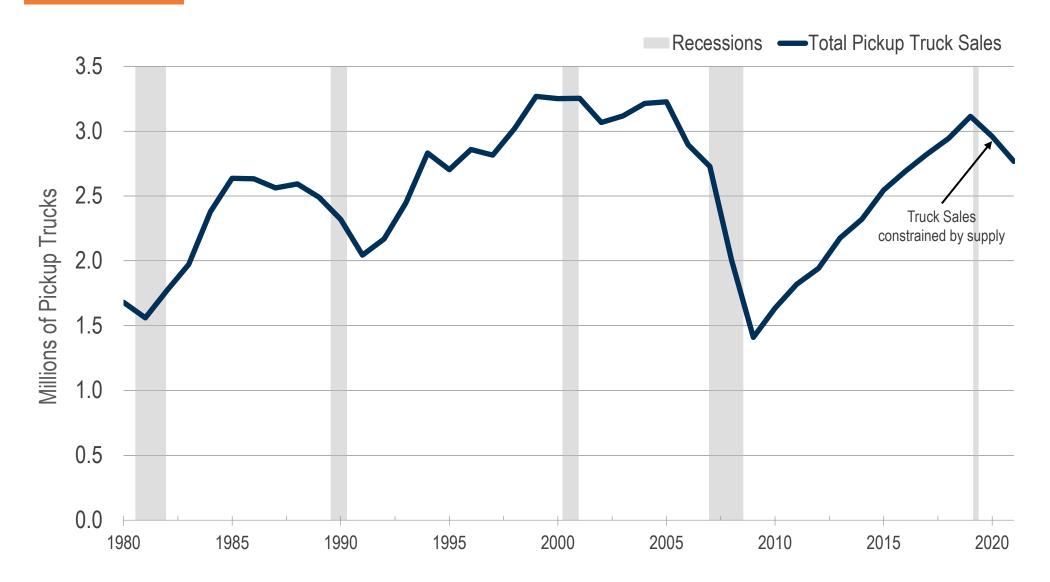
Source: Bloomberg, FRED. The Real Federal Funds Rate is the effective Federal Funds Rate minus 12-month core PCE inflation. The Effective Federal Funds Rate is the interest rate banks charge each other for overnight lending. See Index Definitions.

TOTAL PICKUP TRUCK SALES

1980 - 4Q 2021



LEADING INDICATORS



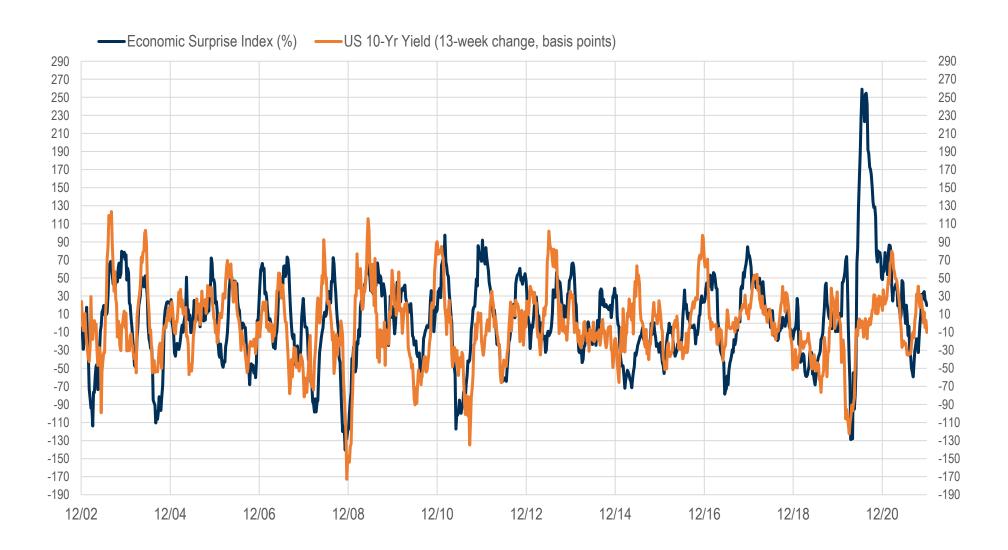
Source: Motor Intelligence, Good Car Bad Car. See Index Definitions.

ECONOMIC SURPRISE INDEX & 10-YEAR U.S. TREASURY YIELD

☐First Trust

December 31, 2002 - December 31, 2021

LEADING INDICATORS

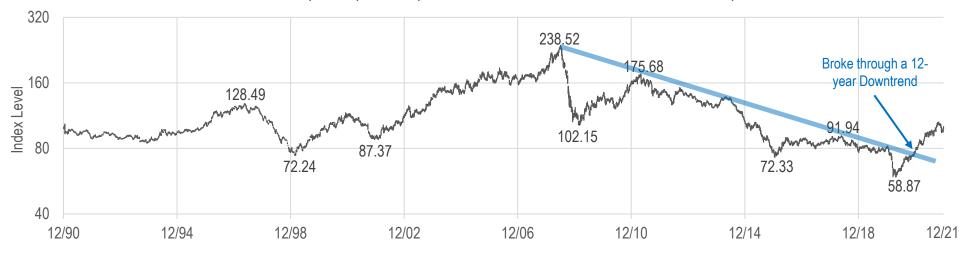


Source: Bloomberg, Citigroup Global Markets Inc. **Past performance is no guarantee of future results.** A positive reading means that data releases have been stronger than expected and a negative reading means that data releases have been worse than expected. The Economic Surprise Index has historically exhibited a positive correlation with 10–Year U.S. Treasury yields. See Index Definitions.



LEADING INDICATORS

WEEKLY BLOOMBERG COMMODITY (BCOM) INDEX (DECEMBER 31, 1990 - DECEMBER 31, 2021)



WEEKLY CRUDE OIL PRICE (APRIL 1, 1983 - DECEMBER 31, 2021)



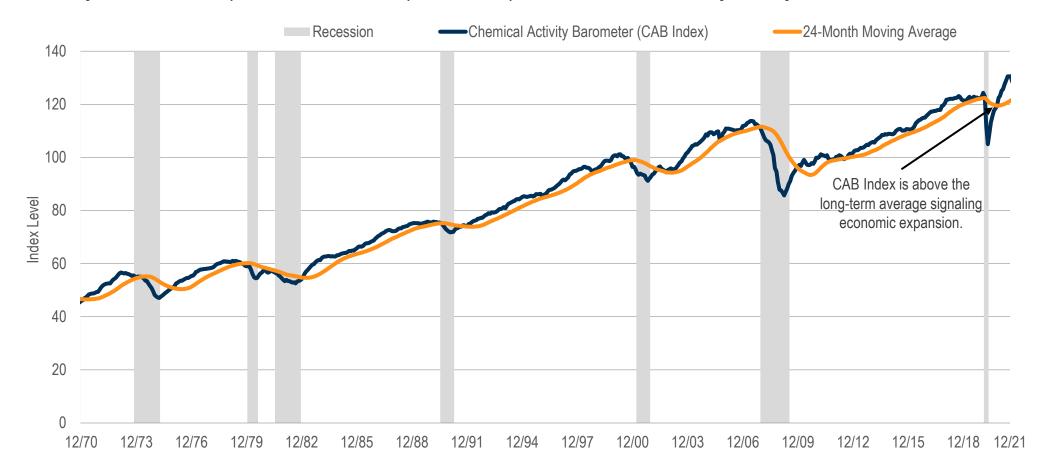
CHEMICAL ACTIVITY BAROMETER (CAB INDEX)

December 31, 1970 - August 31, 2021



LEADING INDICATORS

- The CAB Index is a composite index which comprises indicators drawn from a range of chemicals and sectors, including chlorine and other alkalies, pigments, plastic resins and other selected basic industrial chemicals.
- Specific indicators used include: hours worked in chemicals; chemical company stock data; publicly sourced, chemical price information; end-use (or customer) industry sales-to-inventories; and several broader leading economic measures (building permits and ISM PMI new orders).
- According to the American Chemistry Council, the CAB has historically lead recessions by two to fourteen months, with an average lead of eight months.



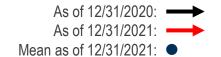
Source: Bloomberg, FRED, the American Chemistry Council. Past performance is no guarantee of future results. See Index Definitions.

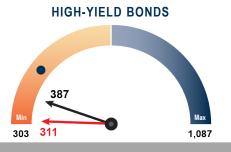
FIXED INCOME DASHBOARD

10 Year Minimum and Maximum Option Adjusted Spreads (OAS)



FIXED INCOME OPPORTUNITY SET





OAS	– ICE Bo	fA U.S. High Yield	d Constraine	ed Index
Current OAS	311	High OAS	1,087	3/23/2020
Mean OAS	463	Low OAS	303	12/28/2021
Std Dev	120			

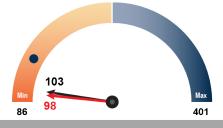


	STM – S&	&P/LSTA Leveraç	jed Loan Ind	dex	
Current STM	411	High STM	1,071	3/23/2020	
Mean STM	470	Low STM	353	4/20/2018	
Std Dev	82				



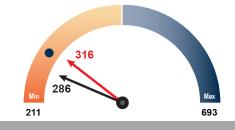
	CYS – P	referreds Blende	d Benchma	ırk*	
Current CYS	388	High CYS	603	3/23/2020	
Mean CYS	405	Low CYS	307	2/27/2019	
Std Dev	54				

INVESTMENT-GRADE CORPORATES



	OAS – I	CE BofA U.S. Co	rporate Ind	
Current OAS	98	High OAS	401	3/23/2020
Mean OAS	138	Low OAS	86	9/27/2021
Std Dev	36			

EMERGING MARKETS



OAS – ICE	BofA U.S.	. Emerging Market	ts External S	Sovereign Index
Current OAS Mean OAS	316 312	High OAS Low OAS	693 211	3/23/2020 2/2/2018
Std Dev	56			

MORTGAGE-BACKED SECURITIES



UA3 - 1		4 0.5. Mortgage i	Jackeu Se	curilles iridex
Current OAS	13	High OAS	136	3/19/2020
Mean OAS	35	Low OAS	-12	4/30/2021
Std Dev	21			

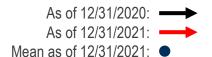
Source: ICE and Standard & Poor's Leveraged Loan Commentary and Data. **Past performance is no guarantee of future results.** Option Adjusted Spread (OAS) is the current spread over a Treasury security of similar tenor. Senior Loan STM is Spread-To-Maturity. Current yield is equivalent to the Index's annual income (face value multiplied by par weighted coupon) divided by the current price (full market value). Preferreds Current Yield Spread (CYS) is the current yield of the preferreds blended benchmark minus the current yield of the 10-Year Treasury Index (GA10), going back to 12/31/2013. *The blended benchmark consists of 30% ICE BofA Core Plus Fixed Rate Preferred Securities Index (P0P4) / 30% ICE BofA U.S. Investment Grade Institutional Capital Securities Index (HIPS). See Index Definitions.

MUNICIPAL BONDS

10 Year Spreads to AAA Municipals



FIXED INCOME OPPORTUNITY SET

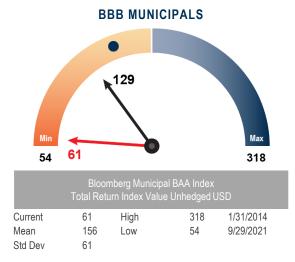


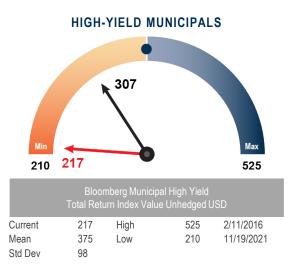


		omberg Munici _l turn Index Valu		
Current	7	High	68	1/3/2012
Mean	23	Low	4	7/21/2021
Std Dev	17			



Bloomberg Municipal A Index Total Return Index Value Unhedged USD											
Current	32	High	151	1/3/2012							
Mean	76	Low	24	7/21/2021							
Std Dev	33										





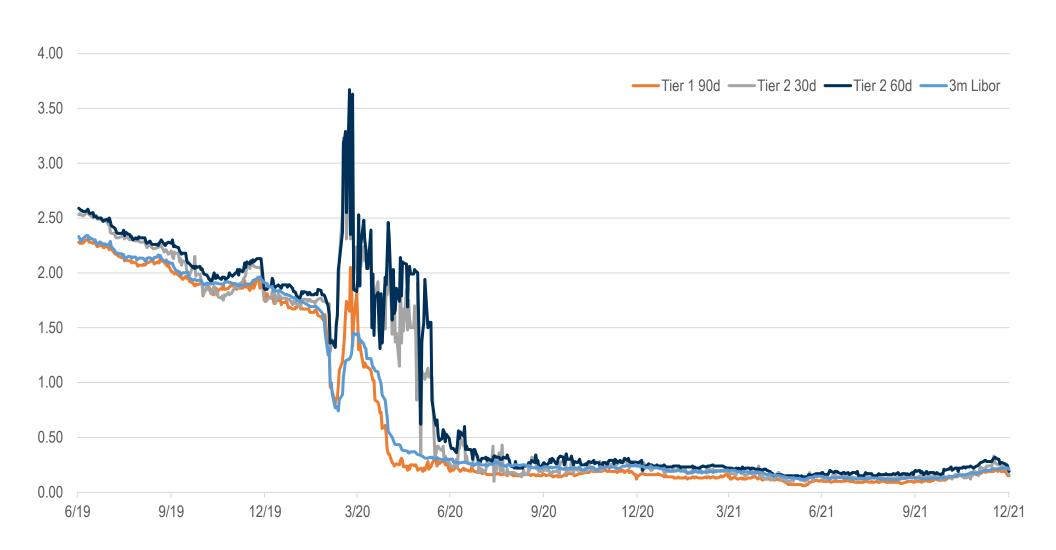
Source: Bloomberg. Past performance is no guarantee of future results. The spread is the difference between the benchmark shown and the Bloomberg Municipal AAA Index Total Return Index Value Unhedged USD. See Index Definitions.

MONEY MARKET RATES

June 30, 2019 - December 31, 2021



FIXED INCOME OPPORTUNITY SET



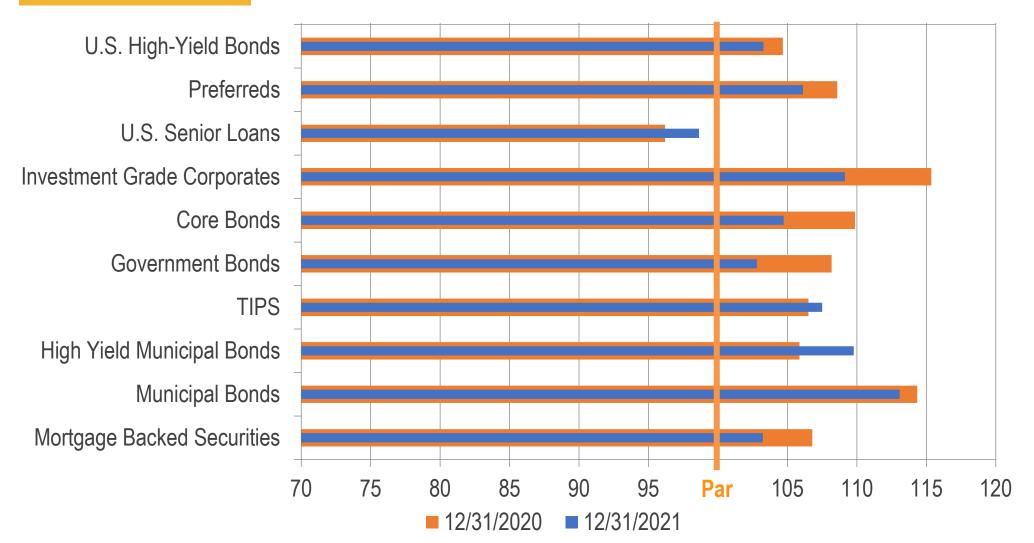
Source: Bloomberg. Past performance is no guarantee of future results. Tier 1 90d - U.S. Commercial Paper Placed Top 90 Day Yield (DCPB090Y Index), Tier 1 30d - U.S. Commercial Paper Dealer Placed Second 30 Day Yield (DCPD030Y Index), Tier 2 60d- U.S. Commercial Paper Dealer Placed Second 60 Day Yield (DCPD060Y Index), 3m Libor- ICE LIBOR USD 3 Month (US0003M Index). For illustrative purposes only.

FIXED INCOME ASSET CLASS PRICE ANALYSIS

As of December 31, 2021







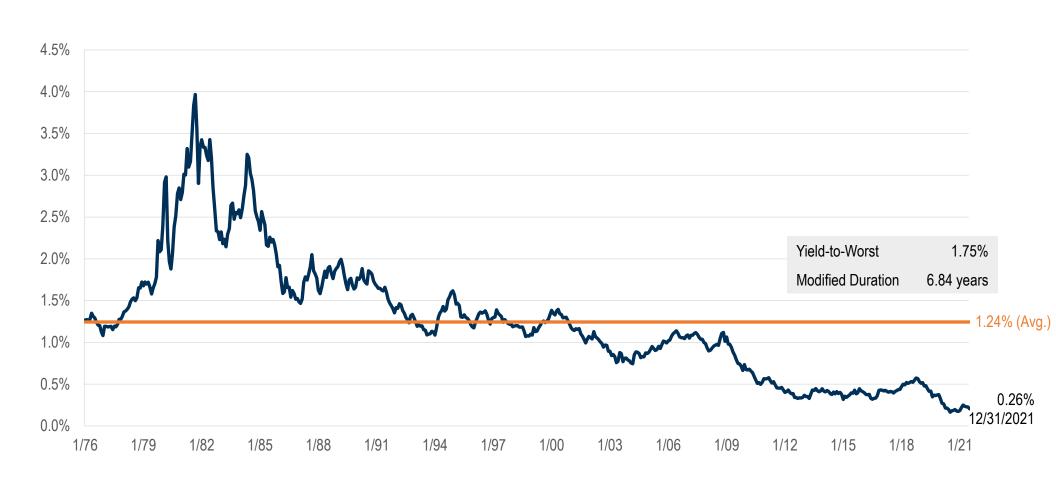
Source: S&P LCD and Bloomberg. Past performance is no guarantee of future results. U.S. High-Yield Bonds are represented by the ICE BofA U.S. High Yield Constrained Index. Preferreds are represented by a blended benchmark consisting of 30% ICE BofA Core Plus Fixed Rate Preferred Securities Index (P0P4) / 30% ICE BofA U.S. Investment Grade Institutional Capital Securities Index (CIPS) / 30% ICE BofA USD Contingent Capital Index (CDLR) / 10% ICE BofA U.S. High Yield Institutional Capital Securities Index (HIPS); U.S. Senior Loans are represented by the S&P/LSTA Leveraged Loan Index. Investment Grade Corporates are represented by the Bloomberg U.S. Aggregate Bond Index. Government Bonds are represented by the Bloomberg U.S. Government Index. TIPS are represented by the Bloomberg U.S. Treasury TIPS 1-5 Year Index. High Yield Municipal Bonds are represented by the Bloomberg Backed Securities are represented by the ICE BofA U.S. Mortgage Backed Securities Index. See Index Definitions.

YIELD PER UNIT OF DURATION

Bloomberg U.S. Aggregate Bond Index (January 30, 1976 – December 31, 2021)



FIXED INCOME OPPORTUNITY SET



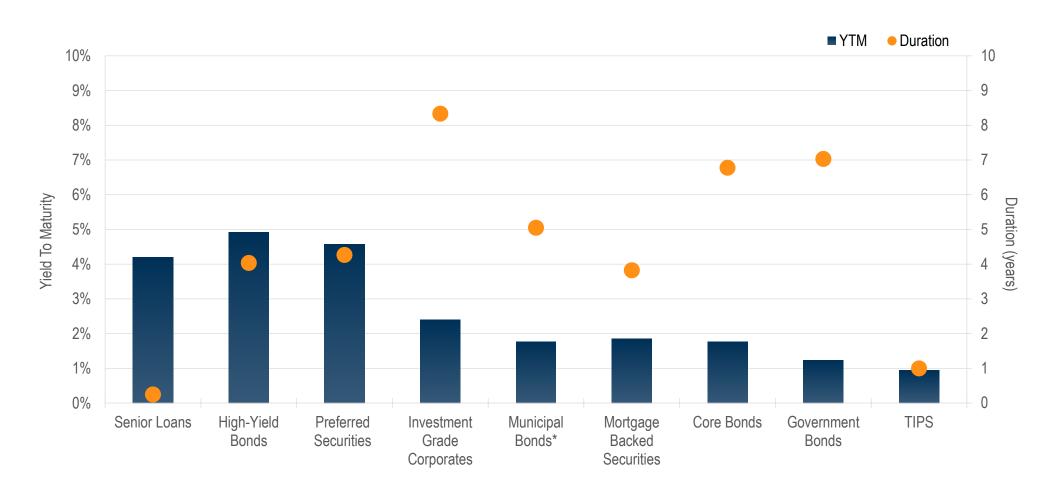
Source: Bloomberg. Past performance is no guarantee of future results. Duration is a measure of a bond's sensitivity to interest rate changes that reflects the change in a bond's price given a change in yield. See Index Definitions.

FIXED INCOME OPPORTUNITY SET – DURATION VS YTM

As of December 31, 2021



FIXED INCOME OPPORTUNITY SET



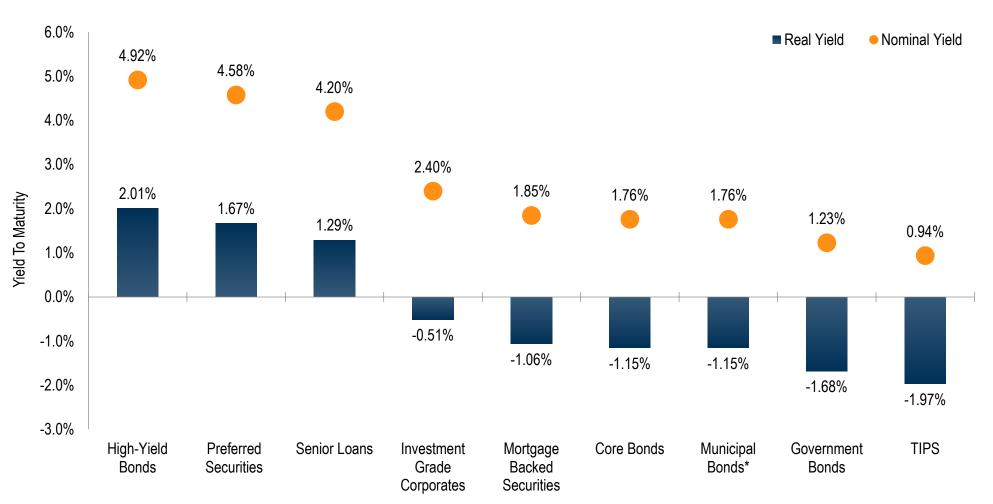
Source: S&P LCD, and Bloomberg. Past performance is no guarantee of future results. *YTM represents the Tax-Equivalent Yield (TEY) for the highest tax bracket of 37%. U.S. Senior Loans are represented by the S&P/LSTA Leveraged Loan Index. High-Yield Bonds are represented by the ICE BofA U.S. High Yield Constrained Index. Preferreds are represented by a blended benchmark consisting of 30% ICE BofA Core Plus Fixed Rate Preferred Securities Index (P0P4) / 30% ICE BofA U.S. Investment Grade Institutional Capital Securities Index (CIPS) / 30% ICE BofA USD Contingent Capital Index (CDLR) / 10% ICE BofA U.S. High Yield Institutional Capital Securities Index (HIPS). Investment Grade Corporates are represented by the Bloomberg U.S. Corporate Investment Grade Index. Municipal Bonds are represented by the Bloomberg Backed Securities Index. Core Bonds are represented by the Bloomberg U.S. Aggregate Bond Index. Government Bonds are represented by the Bloomberg U.S. Government Index. TIPS are represented by the Bloomberg U.S. Treasury TIPS 1-5 Year Index. See Index Definitions.

FIXED INCOME OPPORTUNITY SET – NOMINAL & REAL YIELDS

As of December 31, 2021



FIXED INCOME OPPORTUNITY SET



Source: S&P LCD, and Bloomberg. Past performance is no guarantee of future results. Real yield is represented by nominal yield-to-maturity minus the 5-yr inflation breakeven rate of 2.91%, which is calculated as the difference in yields between U.S Treasury bonds and Treasury Inflation-Protected Securities (TIPS).

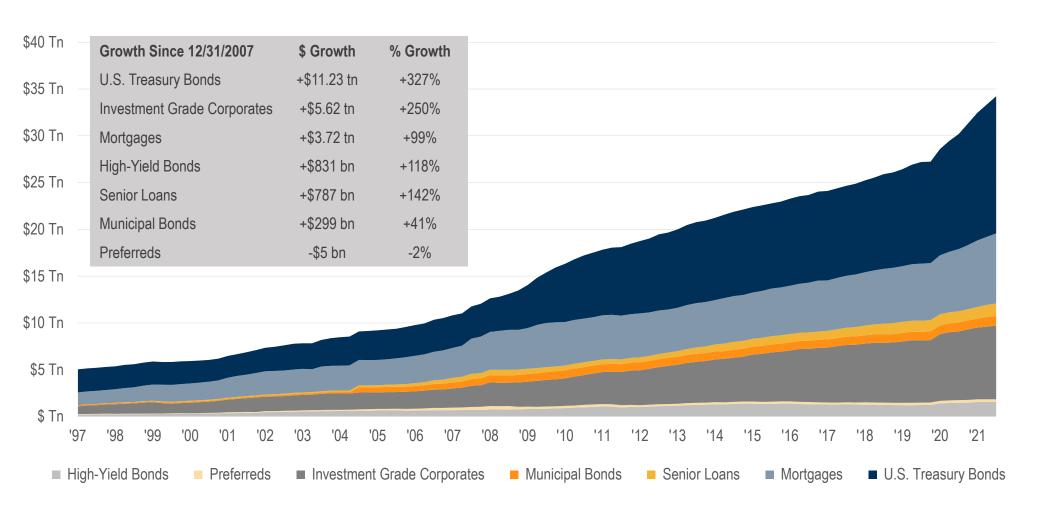
*YTM represents the Tax-Equivalent Yield (TEY) for the highest tax bracket of 37%. Senior Loans are represented by the S&P/LSTA Leveraged Loan Index. High-Yield Bonds are represented by the ICE BofA U.S. High Yield Constrained Index. Preferred Securities are represented by a blended benchmark consisting of 30% ICE BofA Core Plus Fixed Rate Preferred Securities Index (P0P4) / 30% ICE BofA U.S. Investment Grade Institutional Capital Securities Index (CIPS) / 30% ICE BofA USD Contingent Capital Index (CDLR) / 10% ICE BofA U.S. High Yield Institutional Capital Securities Index (HIPS). Investment Grade Corporates are represented by the ICE BofA U.S. Mortgage Backed Securities Index. Core Bonds are represented by the Bloomberg U.S. Aggregate Bond Index. Government Bonds are represented by the Bloomberg U.S. Treasury TIPS 1-5 Year Index. See Index Definitions.

SIZE AND GROWTH OF THE U.S. DEBT MARKET

March 31, 1997 - December 31, 2021



FIXED INCOME OPPORTUNITY SET



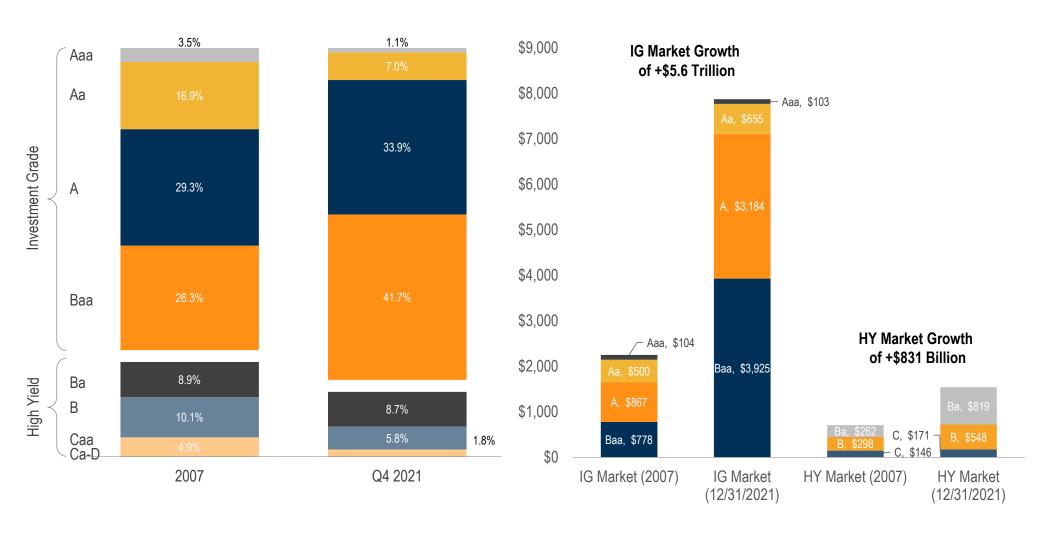
Source: ICE and Standard & Poor's Leveraged Loan Commentary and Data. U.S. High-Yield Bonds are represented by the ICE BofA U.S. High Yield Constrained Index. Preferreds are represented by the sum of ICE BofA Fixed Rate Preferred Securities Index and the ICE BofA Investment Grade Institutional Capital Securities Index. Investment Grade Corporates are represented by the ICE BofA U.S. Municipal Securities Index. Municipal Bonds are represented by the ICE BofA U.S. Mortgage Backed Securities Index. U.S. Treasury Bonds are represented by the ICE BofA U.S. Treasury & Agency Index. See Index Definitions.

SIZE AND CREDIT QUALITY OF THE U.S. CORPORATE DEBT MARKET



December 31, 2007 vs. December 31, 2021

FIXED INCOME OPPORTUNITY SET



Source: Bloomberg. Investment Grade represented by Bloomberg U.S. Corporate Bond Index. High Yield represented by Bloomberg U.S. Corporate High Yield Index. The Index composite rating is a derived value that is used to classify bonds by credit quality in Bloomberg Indices. It is set as the middle rating of Moody's, S&P and Fitch; when a rating from only two agencies is available, the lower is used; if only one agency rates a bond, that rating is taken. Investment grade bonds have a rating of at least Baa3 from Moody's or BBB- from S&P and Fitch. High-yield bonds have a rating below Baa3 from Moody's or BBB- from S&P and Fitch. Credit ratings are subject to change. See Index Definitions.

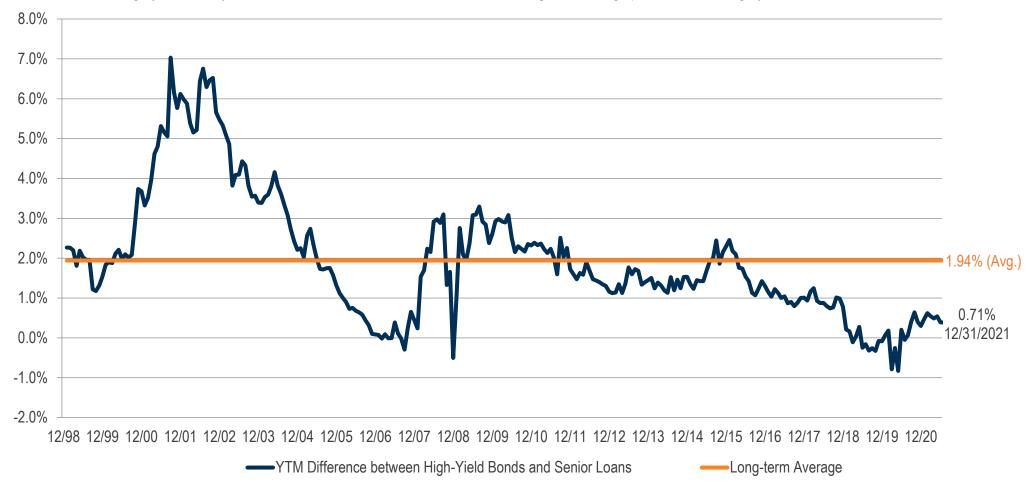
YTM DIFFERENCE OF HIGH-YIELD BONDS VS LOANS

December 31, 1998 - December 31, 2021



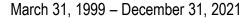
FIXED INCOME OPPORTUNITY SET





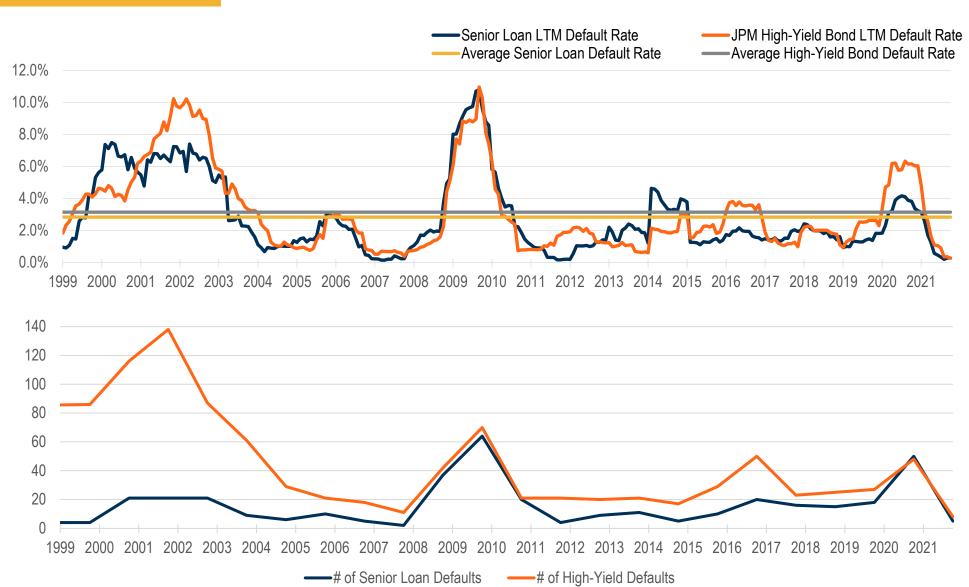
Source: Bloomberg and Standard & Poor's Leveraged Loan Commentary and Data. **Past performance is no guarantee of future results**. High-yield bonds are represented by the ICE BofA U.S. High-Yield Constrained Index (HUC0). Senior loans are represented by the S&P/LSTA Leveraged Loan Index (LLI). See Index Definitions.

SENIOR LOAN AND HIGH-YIELD BOND DEFAULT RATE





FIXED INCOME OPPORTUNITY SET



Source: Standard & Poor's LCD and JP Morgan high-yield research. **Past performance is no guarantee of future results.** High-yield bonds are represented by J.P. Morgan's high-yield bond universe based on the last twelve months (LTM). Senior loans are represented by the S&P/LSTA Leveraged Loan Index (LLI) and based on the LTM. See Index Definitions.

FIXED INCOME ASSET CLASS RETURNS (%)

2000 - December 31, 2021



FIXED	INCOM	E OPPO	RTUNIT	Y SET																	
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
45.71	43.73	19.59	44.54	16.67	6.50	26.07	12.72	24.03	76.41	35.85	29.93	15.81	27.58	25.07	7.58	18.31	12.21	1.41	23.26	18.10	39.85
20.27	12.16	16.79	28.97	11.13	6.32	11.85	10.57	11.35	58.21	15.12	17.13	13.59	7.44	16.39	3.30	17.13	10.58	1.40	17.71	13.32	5.40
16.20	9.84	11.92	14.78	10.33	5.69	8.10	9.81	10.23	44.87	13.66	13.88	12.73	6.15	15.44	1.39	10.22	8.53	1.28	15.11	9.50	5.28
11.68	9.77	10.14	11.01	9.38	3.76	7.33	8.83	7.87	20.07	10.69	10.70	9.43	0.30	9.05	1.18	9.88	7.50	1.14	14.32	7.47	2.24
11.11	8.22	9.60	10.43	7.70	3.51	6.44	7.41	7.62	16.80	9.97	7.90	8.10	-0.17	5.97	0.90	3.68	7.29	1.02	10.14	7.11	1.52
	8.16	9.28	9.43	5.60	3.20	4.84	6.98	-2.47	15.93	9.38	6.57	6.78	-1.34	4.80	0.41	2.32	5.45	0.01	8.17	6.95	-0.57
9.46	8.15	8.69	6.91	5.11	2.74	4.61	5.60	-2.76	12.91	7.76	6.33	4.80	-2.12	4.16	-0.38	1.65	4.25	-0.38	7.54	5.77	-1.00
9.21	5.28	7.66	5.31	4.48	1.56	4.49	3.60	-3.92	5.37	6.67	5.37	3.56	-2.55	2.57	-1.21	1.56	3.67	-1.84	6.29	5.21	-1.18
7.74	5.13	6.46	2.85	4.35	1.42	3.71	3.36	-25.24	2.63	5.90	4.98	2.42	-3.65	2.45	-3.29	1.33	1.86	-2.08	5.86	3.68	-1.46
4.94	4.21	1.12	2.48	4.08	1.36	3.51	1.88	-26.16	1.29	5.29	4.11	1.83	-4.30	2.06	-4.47	1.06	1.14	-4.34	5.59	3.07	-1.72
1.43	2.65	-1.41	2.20	2.02	0.96	3.47	1.87	-28.75	-1.41	2.38	1.82	1.71	-6.62	0.66	-4.56	0.64	0.25	-6.76	5.22	2.78	-4.37
-5.86	-1.37	-3.36	2.11	0.89	-6.66	1.85	-11.31	-36.91	-12.92	2.35	1.53	0.31	-12.66	-0.79	-32.59	0.25	-6.52	-12.42	3.31	-28.84	-6.60
■ Floati	ng Rate	■ Global	Treasury	■ GNM/	A = High	Yield =	Intermed	iate Corpo	orate 🔳 li	ntermedia	ate Treasu	ıry = Loı	ng Corpor	ate Lo	ng Treası	ıry ■ ML	.P ■ Mui	nicipal =	Preferred	d Short	t Treasu

Source: Bloomberg. Past performance is no guarantee of future results. An index does not charge management fees or brokerage expenses, and no such fees or expenses were deducted from the performance shown. The asset classes shown here offer different characteristics in terms of income, tax treatment, capital appreciation and risk. High-yield securities, or "junk" bonds, are subject to greater market fluctuations and risk of loss than securities with higher ratings, and therefore, may be highly speculative. Fixed rate investment grade (IG) bonds are subject to fluctuations due to higher interest rates, economic recession, deterioration of the bond market or investors' perception thereof, possible downgrades and defaults of interest and/or principal. Diversification does not guarantee a profit or protect against loss. Asset classes are represented by the following indices: High Yield - Bloomberg U.S. Corporate High-Yield Bond Index. Intermediate Corporate - Bloomberg U.S. Intermediate Treasury - Bloomberg U.S. Municipal Index. Long Corporate - Bloomberg U.S. Long Credit Index. Intermediate Treasury - Bloomberg U.S. Long Treasury - Bloomberg Global Treasury - Bloomberg Global Treasury Index. Floating Rate - Credit Suisse Leveraged Loan Index GNMA - Bloomberg GNMA Index. Short Treasury - Bloomberg 2-Yr U.S. Treasury Bellwethers Index. MLP - Alerian MLP Index. Preferred - ICE BofA Fixed Rate Preferred Securities Index. See Index Definitions.

ASSET CLASS CORRELATION

December 31, 2011 - December 31, 2021



FIXED INCOME OPPORTUNITY SET

	S&P 500	Core Bonds	Senior Loans	High-Yield Bonds	Preferreds	EM	U.S. Convertibles	U.S. MBS	Municipals	IG Corporates	U.S. Treasury	MLPs	Commodities	Ann. Volatility
S&P 500	1.00													13.08
Core Bonds	-0.02	1.00												2.98
Senior Loans	0.63	0.08	1.00											5.14
High-Yield Bonds	0.73	0.24	0.87	1.00										6.54
Preferreds	0.56	0.44	0.63	0.72	1.00									5.66
EM	0.54	0.46	0.64	0.80	0.65	1.00								7.43
U.S. Convertibles	0.83	0.08	0.70	0.76	0.54	0.55	1.00							12.31
U.S. MBS	-0.16	0.85	-0.17	0.01	0.29	0.28	-0.07	1.00						2.04
Municipals	0.06	0.73	0.29	0.38	0.50	0.59	0.16	0.60	1.00					3.58
IG Corporates	0.22	0.92	0.36	0.49	0.62	0.63	0.30	0.65	0.70	1.00				4.72
U.S. Treasury	-0.33	0.89	-0.33	-0.18	0.11	0.10	-0.25	0.82	0.55	0.68	1.00			3.56
MLPs	0.70	0.06	0.74	0.73	0.59	0.48	0.66	-0.10	0.12	0.31	-0.28	1.00		29.76
Commodities	0.48	-0.09	0.53	0.62	0.32	0.48	0.50	-0.16	0.07	0.07	-0.33	0.50	1.00	13.33

Source: Morningstar. Past performance is no guarantee of future results. Annual (Ann) Volatility is based on standard deviation which is a measure of price variability (risk). Equities are represented by the S&P 500 Index. Core Bonds are represented by the Bloomberg U.S. Aggregate Bond Index. Senior Loans are represented by the S&P/LSTA Leveraged Loan Index. High-Yield Bonds are represented by the ICE BofA U.S. High Yield Constrained Index. Preferreds are represented by the ICE BofA Fixed Rate Preferred Securities Index. EM is represented by the ICE BofA U.S. Emerging Markets External Sovereign Index. U.S. Convertibles are represented by the Bloomberg U.S. MBS Index. Municipals are represented by the Bloomberg Municipal Bond Index. IG Corporates are represented by the Bloomberg U.S. Corporate Investment Grade Index. U.S. Treasury is represented by the Bloomberg U.S. Treasury Index. MLPs are represented by the Alerian MLP Index. Commodities are represented by the Bloomberg Commodity Index. See Index Definitions.

DEFINITIONS



Alerian MLP Index - A composite of 50 prominent energy Master Limited Partnerships (MLPs).

CAB Index - Is designed and prepared in compliance with ACC's Antitrust Guidelines and FTC Safe Harbor Guidelines; does not use company-specific price information as input data; and data is aggregated such that company-specific and product-specific data cannot be determined.

Bloomberg Commodity Index (BCOM) - A highly liquid and diversified benchmark for commodity investments including but not limited to energy, grains, industrial metals, precious metals, softs and livestock.

Bloomberg GNMA Index - Consists of 30-yr and 15-yr pass-through GNMAs and GNMA Graduated Payment Mortgages.

Bloomberg Global Aggregate Index - Measures the global investment grade debt from 24 local currency markets which includes treasury, government-related, corporate and securitized fixed-rate bonds from both developed and emerging market issuers.

Bloomberg Global Treasury Index - Tracks fixed-rate, local currency government debt of IG countries, including both developed and emerging markets.

Bloomberg High Yield Municipal Bond Index - Measures the performance of U.S. dollar-denominated high-yield municipal bonds.

Bloomberg Municipal Bond Index - Tracks the performance of the tax-exempt bond market.

Bloomberg U.S. Aggregate Bond Index - Measures the investment grade, U.S. dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, MBS, ABS and CMBS.

Bloomberg U.S. Corporate Bond Index - Measures the investment grade, fixed-rate, taxable corporate bond market. It includes USD-denominated securities publicly issued by U.S. and non-U.S. industrial, utility and financial issuers.

Bloomberg U.S. Corporate High Yield Index - Measures the USD-denominated, high yield, fixed-rate corporate bond market.

Bloomberg U.S. Corporate Investment Grade Index - Tracks publicly issued, SEC-registered, U.S. corporate and specified foreign debentures and secured notes that have a maturity greater than one year, at least \$250 M outstanding par balance, and rated Baa3/BBB- or higher.

Bloomberg U.S. Government Index - Consists of securities issued by the U.S. Government.

Bloomberg U.S. Intermediate Credit Index - Measures the Investment Grade (IG), U.S. dollar (USD)-denominated, fixed-rate, taxable corporate and gov't-related bond markets with a maturity greater than 1 yr. and less than 10 yrs.

Bloomberg U.S. Intermediate Treasury Index - Consists of public obligations of the U.S. Treasury with maturities from 1 and up to 10 yrs.

Bloomberg U.S. Long Credit Index - Measures the IG, USD-denominated, fixed-rate, taxable corporate and gov't-related bond markets with 10 or more years to maturity.

Bloomberg U.S. Long Treasury Index - Consists of public obligations of the U.S. Treasury with 10 or more years to maturity.

Bloomberg U.S. MBS Index - Tracks agency mortgage backed pass-through securities (both fixed-rate and hybrid ARM) guaranteed by Ginnie Mae, Fannie Mae, and Freddie Mac.

Bloomberg U.S. Municipal Index - Covers the USD-denominated long-term tax exempt bond market.

Bloomberg U.S. Treasury Index - Measures U.S. dollar-denominated, fixed-rate, nominal debt issued by the U.S. Treasury.

Bloomberg U.S. Treasury TIPS 1-5 Year Index - Measures the performance of inflation-protected public obligations of the U.S. Treasury that have a remaining maturity of less than five years.

Bloomberg 2-Yr U.S. Treasury Bellwethers Index - Consists of U.S. Treasury bonds with an average maturity of 2 years.

Credit Suisse Leveraged Loan Index - Tracks the investable market of the USD-denominated leveraged loan market. All loans are funded term loans with a maturity of at least 1 year and are made by issuers domiciled in developed.

Dow Jones Industrial Average® (The Dow®) - A price-weighted measure of 30 U.S. blue-chip companies. The index covers all industries except transportation and utilities.

Economic Surprise Index - Measures data surprises relative to market expectations and has historically exhibited a positive correlation with 10-Year U.S. Treasury Yields.

DEFINITIONS

ICE BofA Core Plus Fixed Rate Preferred Securities Index (P0P4) - Tracks the performance of fixed rate U.S. dollar denominated preferred securities issued in the U.S. domestic market.

ICE BofA Current 2-Year U.S. Treasury Index - A one-security index comprised of the most recently issued 2-year U.S. Treasury note.

ICE BofA Current 5-Year U.S. Treasury Index - A one-security index comprised of the most recently issued 5-year U.S. Treasury note.

ICE BofA Current 10-Year U.S. Treasury Index - A one-security index comprised of the most recently issued 10-year U.S. Treasury note.

ICE BofA Current 30-Year U.S. Treasury Index - A one-security index comprised of the most recently issued 30-year U.S. Treasury note.

ICE BofA Fixed Rate Preferred Securities Index (POP1) - Tracks the performance of fixed rate USD-denominated preferred securities issued in the domestic market.

ICE BofA USD Contingent Capital Index (CDLR) - Tracks the performance of investment grade and below investment grade contingent capital debt publicly issued in the major domestic and eurobond markets.

ICE BofA U.S. Convertible Index - Tracks the performance of publicly issued U.S. dollar denominated convertible securities of U.S. companies.

ICE BofA U.S. Corporate Index - Tracks the performance of U.S. dollar denominated investment grade (BBB/Baa-rated or better) corporate debt publicly issued in the U.S. domestic market.

ICE BofA U.S. Emerging Markets External Sovereign Index - Tracks the performance of U.S. dollar emerging markets sovereign debt publicly issued in the U.S. and Eurobond markets.

ICE BofA U.S. High Yield Constrained Index - Tracks the performance of U.S. dollar denominated below investment grade corporate debt publicly issued in the U.S. domestic market but caps issuer exposure at 2%.

ICE BofA U.S. High Yield Institutional Capital Securities Index (HIPS) - Tracks the performance of U.S. dollar denominated sub-investment grade hybrid capital corporate and preferred securities publicly issued in the U.S. domestic market.

ICE BofA U.S. Investment Grade Institutional Capital Securities Index (CIPS) - Tracks the performance of U.S. dollar denominated investment grade hybrid capital corporate and preferred securities publicly issued in the U.S. domestic market.

ICE BofA U.S. Mortgage Backed Securities Index - Tracks the performance of U.S. dollar denominated fixed rate and hybrid residential mortgage pass-through securities publicly issued by U.S. agencies in the U.S. domestic market.

ICE BofA U.S. Municipal Securities Index - Tracks the performance of U.S. dollar denominated investment grade tax-exempt debt publicly issued by U.S. states and territories, and their political subdivisions, in the U.S. domestic market.

ICE BofA U.S. Treasury & Agency Index - Tracks the performance of U.S. dollar denominated U.S. Treasury and non-subordinated U.S. agency debt issued in the U.S. domestic market.

ICE LIBOR - A benchmark designed to produce an average rate that is representative of the rates at which large, leading, internationally active banks with access to the wholesale, unsecured funding market could fund themselves in the market in particular currencies for certain tenors.

J.P. Morgan's High-yield Bond Universe - Consists of fixed income securities of domestic and foreign issuers with a maximum credit rating of BB+ or Ba1.

S&P/LSTA Leveraged Loan Index - A leveraged loan index which covers the U.S. Loan market. The Index reflects the market-weighted performance of institutional leveraged loans in the U.S. loan market based upon real-time market weightings, spreads and interest payments.

S&P 500 Index - An unmanaged index of 500 stocks used to measure large-cap U.S. stock market performance.

U.S. Dollar Index (DXY) - Indicates the general international value of the U.S. Dollar (USD). The index calculates this by averaging the exchange rates between the USD and major world currencies.

Indices are unmanaged and investors cannot invest directly in an index.

