CLIENT RESOURCE KIT FIXED INCOME

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INVESTMENT MANAGEMENT TEAMS

LEVERAGED FINANCE

William Housey, CFA, MBA, 25 years Jeffrey Scott, CFA, MBA, 31 years Scott D. Fries, CFA, MBA, 27 years Gregory Olsen, CFA, MBA, 29 years Brian Kessler, CFA, CMT, 17 years Sebastian Dassouli, 13 years Peter Fasone, CFA, MBA, 36 years Howard Tiffen, AM, 40+ years Andy Rybak, CFA, MBA, 22 years Dave Tanny, 25 years Jeffrey Johnson, CFA, 7 years Ryan Kommers, 24 years Cory Starkey, CFA, MS, 4 years Daniel Nagode, CFA, 4 years Daniel Waldron Jr., 4 years Sam Cafi, MBA, 11 years Brandon Nelson, 0 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, 0 years Jordan Pflum, MS, 0 Years

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

INVESTMENT GRADE

Todd Larson, CFA, 29 years Eric Maisel, CFA, MBA, 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

> 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

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, 38 years Robert Stein, CFA, 25 years Strider Elass, 14 years Andrew Opdyke, CFA, MBA, 9 years Gill Bryce, 6 years Mary Buchanan, 17 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

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, 5years John Bria, 7 years Chris Swade, 2 year Tyler Jones, 2 year Simon Peterson, 0 years

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

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- 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
- 7. 40-YEAR MONTHLY 10 YR U.S. TREASURY YIELD
- 8. 10 YR U.S. TREASURY REAL YIELD
- 9. INFLATION: BREAKEVENS
- 10. 10 YR U.S. TREASURY YIELD AND 10 YR GERMAN BUND YIELD
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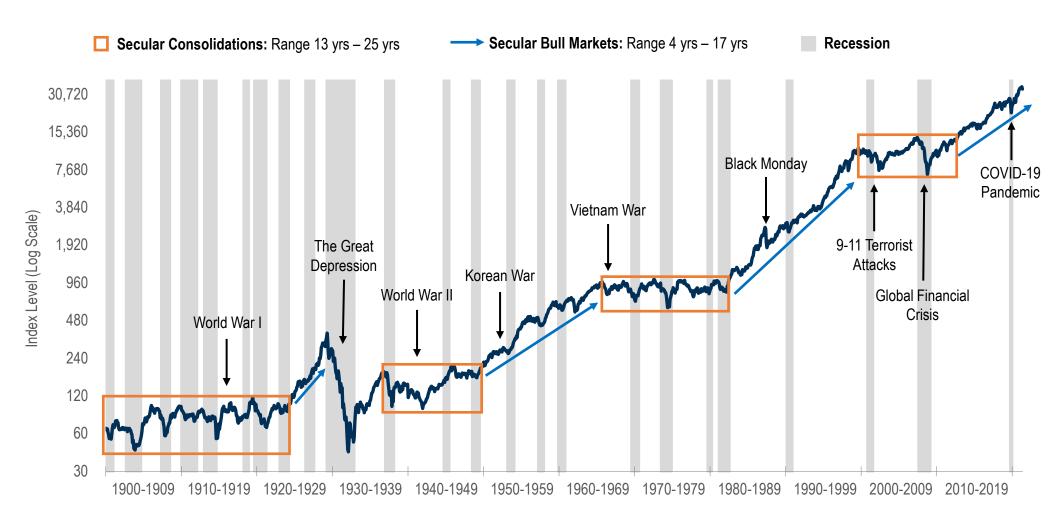
All index data shown herein is for illustrative purposes only and not indicative of any actual investment. Index returns do not reflect any fees, expenses, or sales charges. Investors cannot invest directly in an index.

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

Dow Jones Industrial Average (January 31, 1900 - September 30, 2021)

MARKET DATA



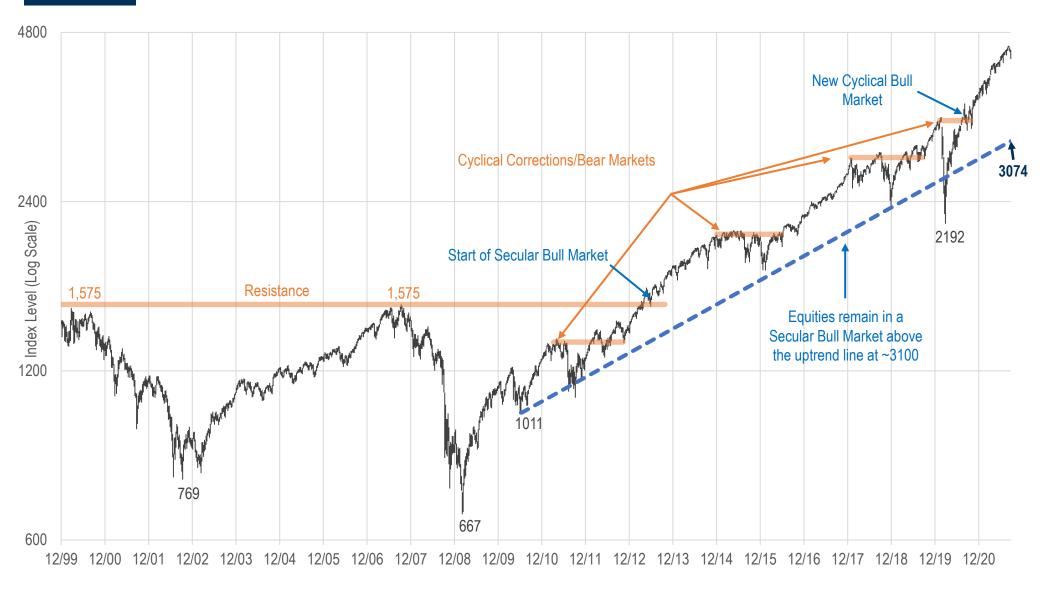
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WEEKLY S&P 500 INDEX

December 31, 1999 - September 24, 2021





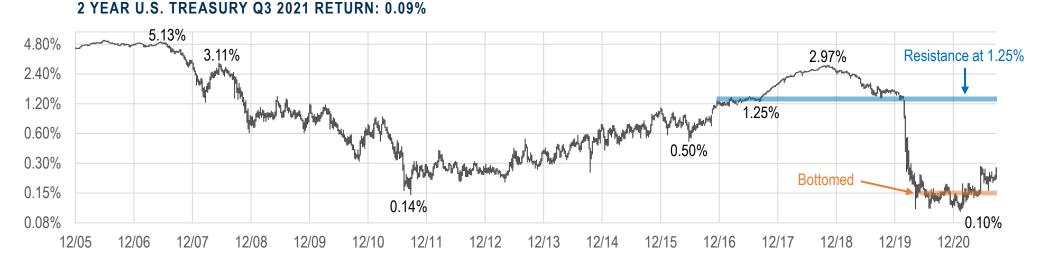


Source: Bloomberg Past performance is no guarantee of future results.

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

December 31, 2005 - September 24, 2021

MARKET DATA



5 YEAR U.S. TREASURY Q3 2021 RETURN: -0.25%



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 and is a one-security index comprised of the most recently issued 2-year U.S. Treasury note. The 5 Year U.S. Treasury return is represented by the ICE BofA Current 5-Year U.S. Treasury Index and is a one-security index comprised of the most recently issued 5-year U.S. Treasury note. The Indices are rebalanced monthly.

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

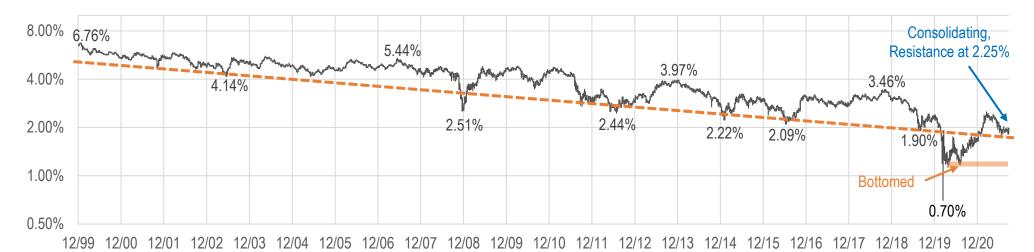
December 31, 1999 - September 24, 2021

MARKET DATA



30 YEAR U.S. TREASURY Q3 2021 RETURN: 0.03%

10 YEAR U.S. TREASURY Q3 2021 RETURN: -0.31%



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 and is a one-security index comprised of the most recently issued 10-year U.S. Treasury note. The 30 Year U.S. Treasury return is represented by the ICE BofA Current 30-Year U.S. Treasury Index and is a one-security index comprised of the most recently issued 30-year U.S. Treasury note. The Indices are rebalanced monthly.

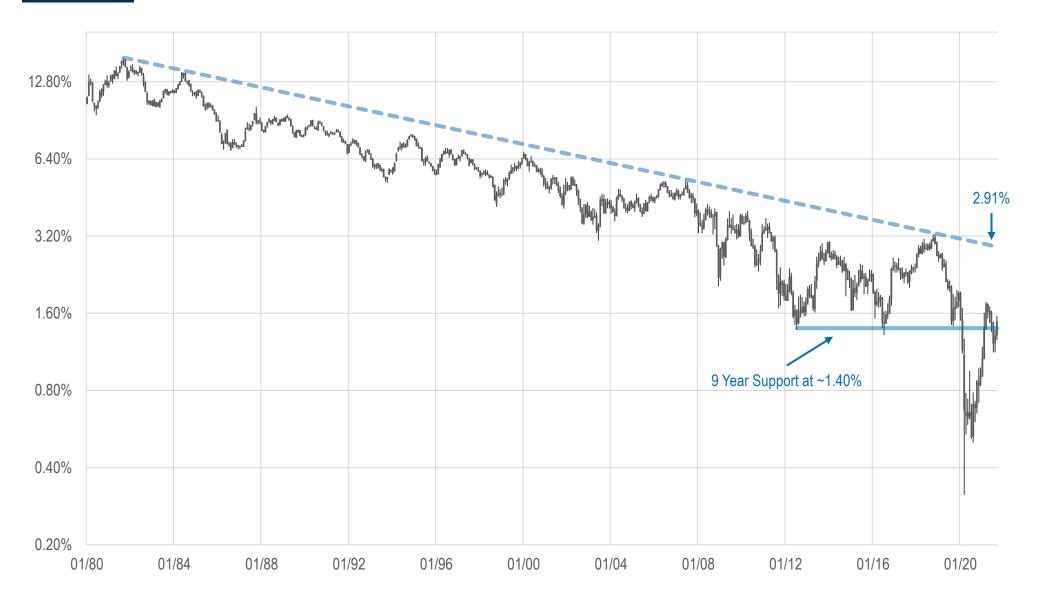
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40-YEAR MONTHLY 10 YEAR U.S. TREASURY YIELD

January 31, 1980 - September 30, 2021

MARKET DATA

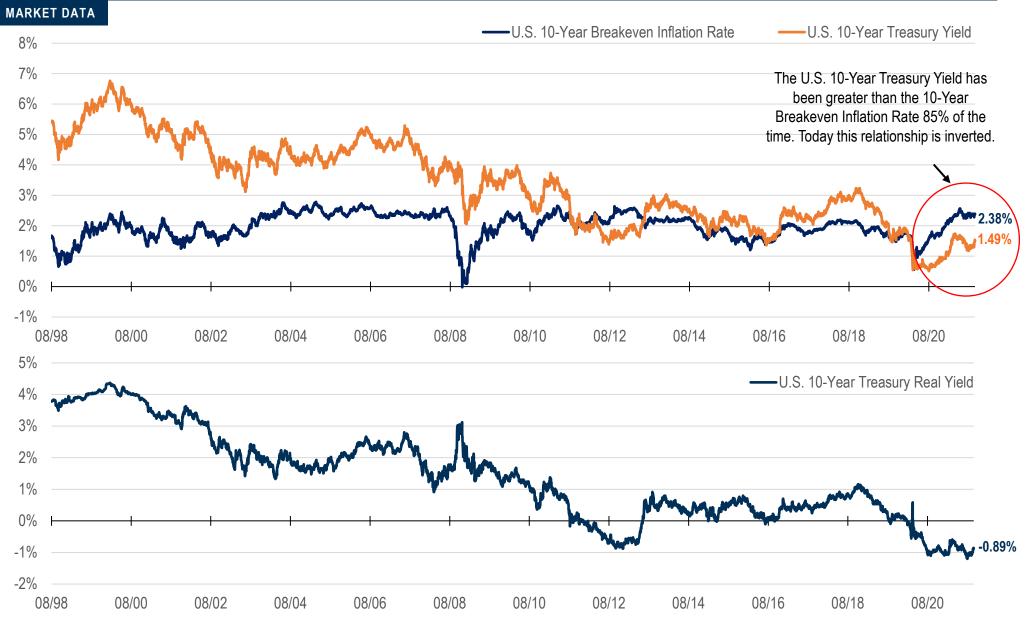


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10-YEAR U.S. TREASURY REAL YIELD

August 3, 1998 - September 30, 2021

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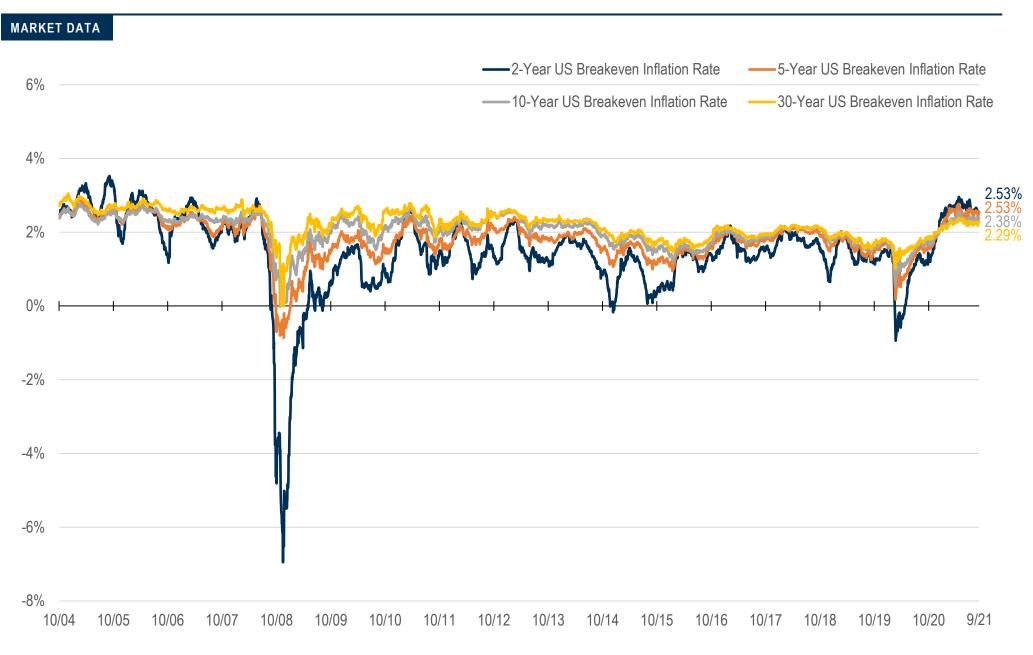


Real Yield is an interest rate that has been adjusted to remove the effects of inflation. Real Yield is calculated as the difference in yields between U.S Treasury bonds and Treasury Inflation-Protected Securities (TIPS). Source: Bloomberg: Past performance is no guarantee of future results.

INFLATION: BREAKEVENS

October 27, 2004 - September 30, 2021

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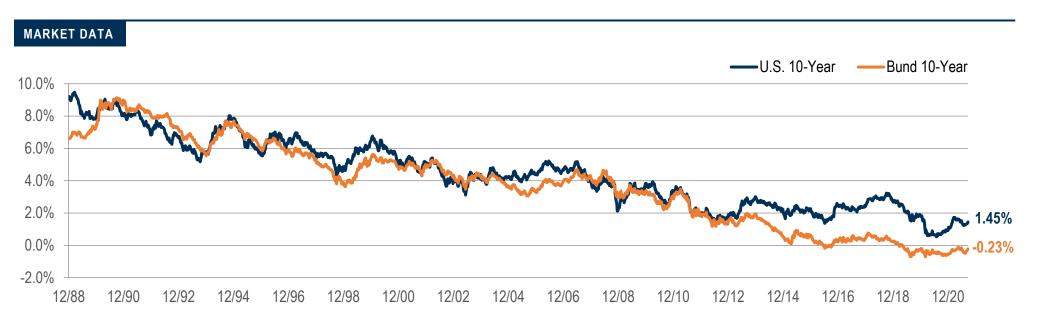


Source: Bloomberg: The breakeven rate is a market-based gauge for the expected annual inflation. Past performance is no guarantee of future results.

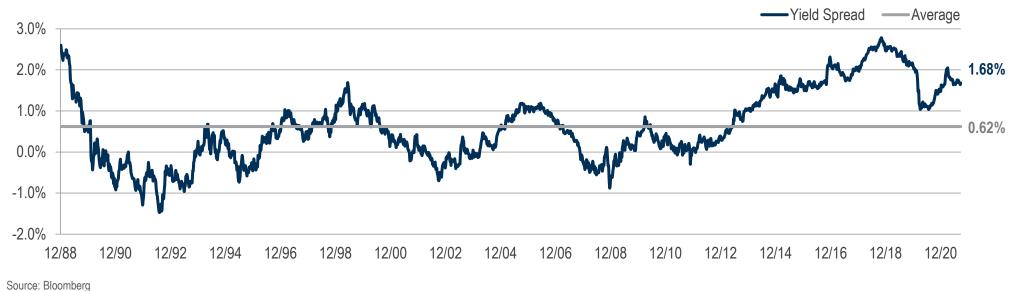
10 YEAR U.S. TREASURY YIELD AND 10 YEAR GERMAN BUND YIELD

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December 31, 1988 - September 24, 2021



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



Past performance is no guarantee of future results.

WEEKLY 10 YEAR GOVERNMENT BOND YIELDS (GERMANY & JAPAN)

December 31, 2005 - September 24, 2021

MARKET DATA

WEEKLY 10 YEAR GERMAN BUND YIELD



WEEKLY 10 YEAR JAPANESE GOVERNMENT BOND YIELD

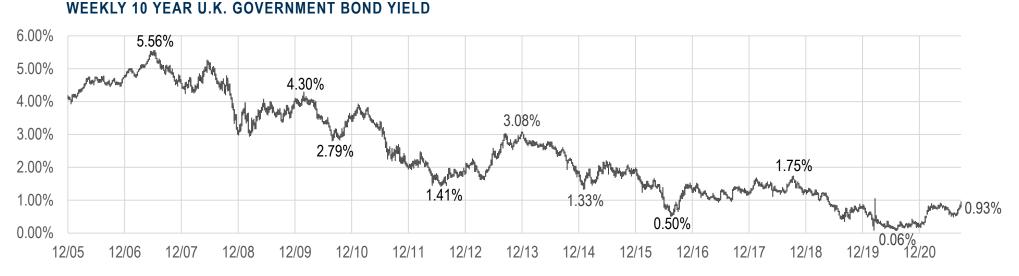


Source: Bloomberg Past performance is no guarantee of future results. **E**First Trust

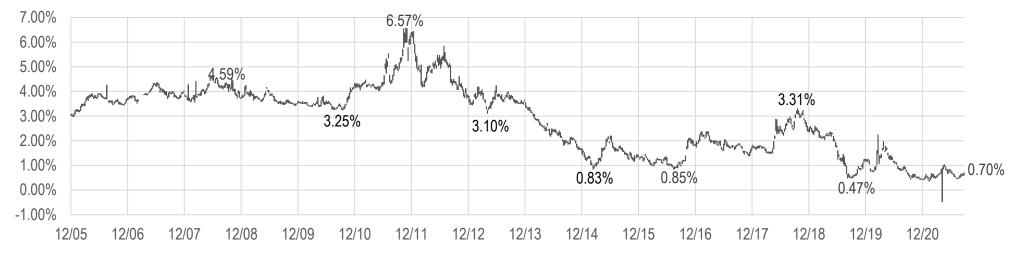
WEEKLY 10 YEAR GOVERNMENT BOND YIELDS (U.K. & ITALY)

December 31, 2005 - September 24, 2021

MARKET DATA



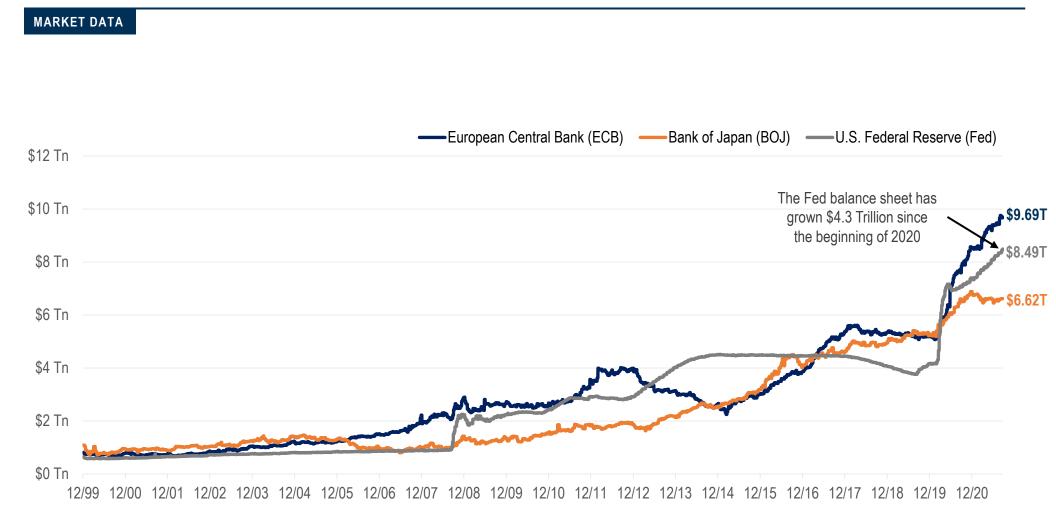
WEEKLY 10 YEAR ITALIAN GOVERNMENT BOND YIELD



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December 31, 1999 - September 24, 2021

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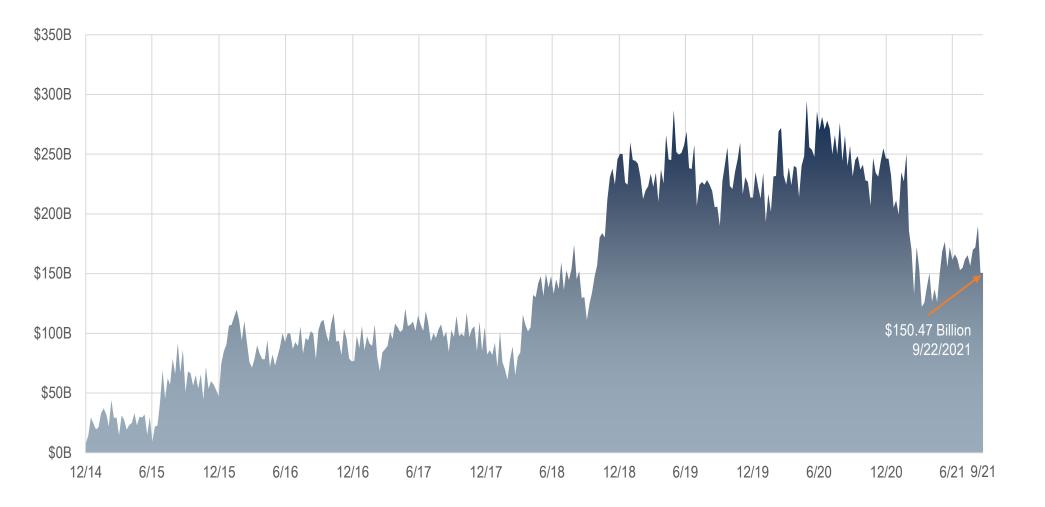


NET DEALER TREASURY HOLDINGS

December 31, 2014 - September 22, 2021

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MARKET DATA



Source: Bloomberg, Federal Reserve

GLOBAL NEGATIVE YIELDING DEBT

December 31, 2013 - September 30, 2021

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MARKET DATA



Source: Bloomberg

Global negative yielding debt is comprised by summing the negative yielding debt within the Bloomberg Barclays Global-Aggregate Index, which is a flagship measure of global investment grade debt from twenty-four local currency markets which includes treasury, government-related, corporate and securitized fixed-rate bonds from both developed and emerging market issuers.

WEEKLY U.S. DOLLAR INDEX (DXY)

January 3, 2014 - September 24, 2021

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Persistent break above 95

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%
- Swiss Franc: 3.6%



Source: Bloomberg

Past performance is no guarantee of future results. The 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.

THE BUSINESS CYCLE

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LEADING INDICATORS

PHASE 1	PHASE 2	PHASE 3	PHASE 4				
Contraction	Recovery	Expansion	Slowdown				
		Returns (09/30/20-09/30/21) Commodities 81.90% S&P 500 30.01% 3-Mo LIBOR 0.13% U.S. Agg -0.90%					
Below capacity & declining	Below capacity & growing	Above capacity & growing	Above capacity & declining				
	Relative Ranking of Ass	sets (by average return)					
Bonds	Equities	Commodities	Bonds				
Equities	Commodities	Equities	Commodities				
Cash	Bonds	Bonds	Cash				
Commodities	Cash	Cash	Equities				

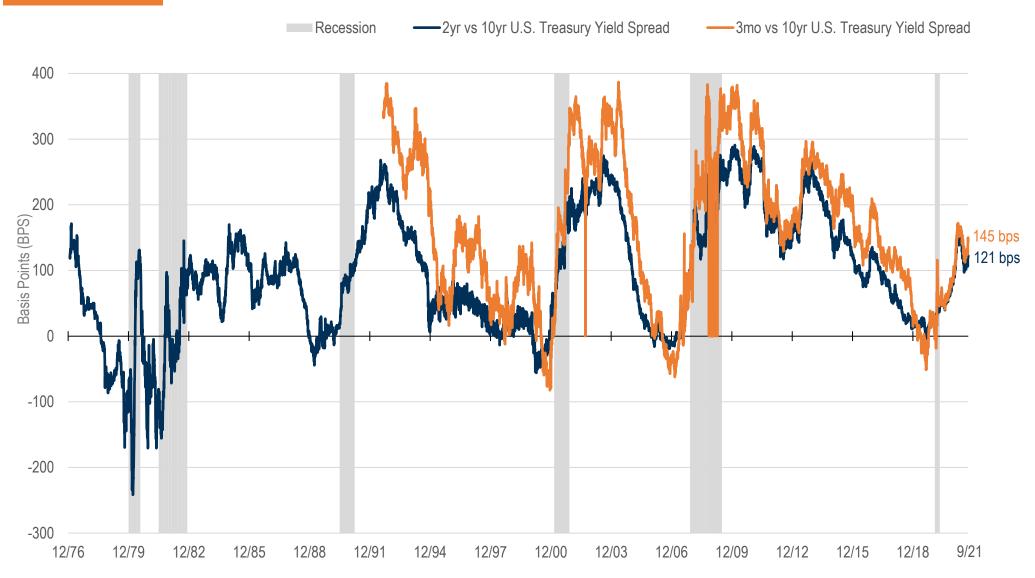
Source: Goldman Sachs Global Investment Research

Past performance is no guarantee of future results. This chart is for illustrative purposes only and not indicative of any actual investment.

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

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LEADING INDICATORS



Source: Bloomberg, as of 9/30/2021.

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% percent or 0.01%. A 1% change is equal to 100 basis points.

REAL FEDERAL FUNDS RATE

December 31, 1970 - September 30, 2021

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Source: Bloomberg, FRED

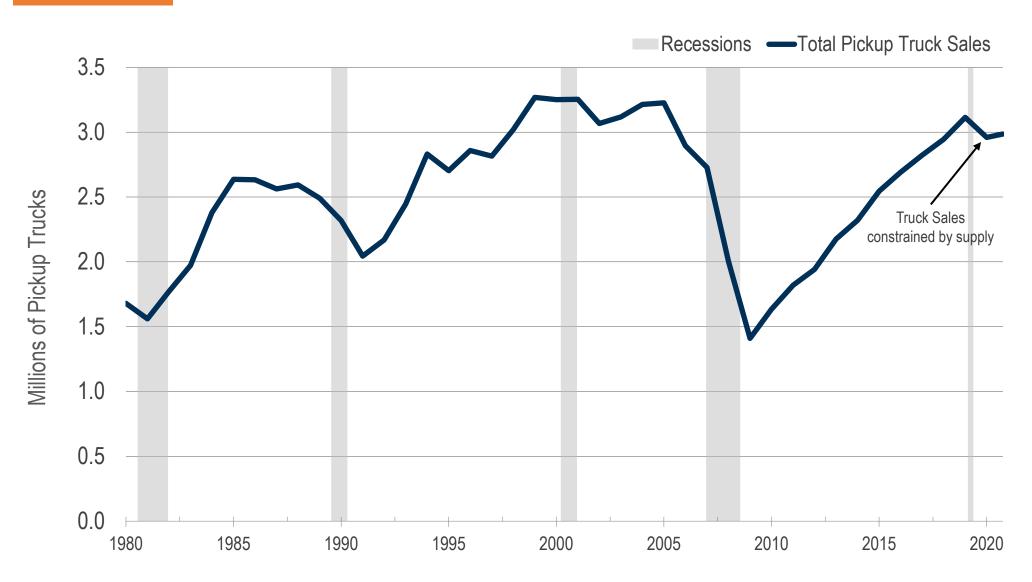
Real Federal Funds Rate is the effective Federal Funds Rate minus 12-month core PCE inflation. The Effective Federal Funds Rate is the interest rate banks charge each other for overnight lending.

TOTAL PICKUP TRUCK SALES

1980 – 3Q 2021

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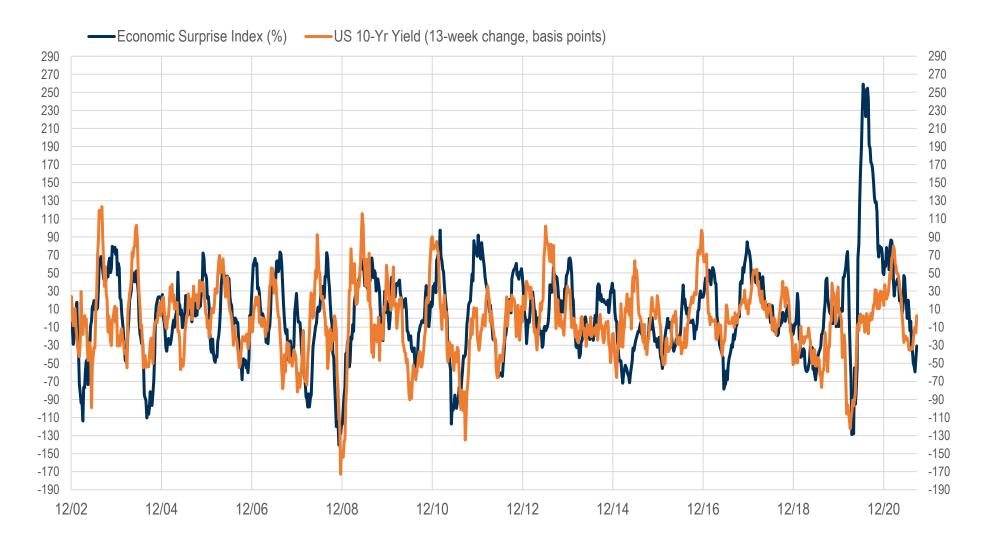
LEADING INDICATORS



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

December 31, 2002 - September 24, 2021

LEADING INDICATORS



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.

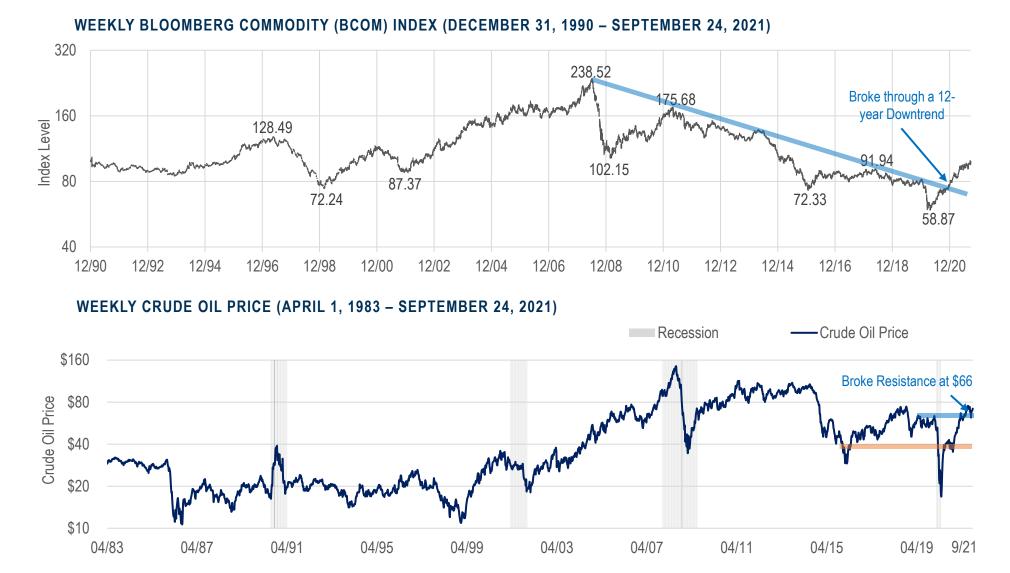
Source: Bloomberg, Citigroup Global Markets Inc. **Past performance is no guarantee of future results.**

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COMMODITIES

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LEADING INDICATORS



Source: Bloomberg. Past performance is no guarantee of future results. The Bloomberg Commodity Index (BCOM) is a highly liquid and diversified benchmark for commodity investments including but not limited to energy, grains, industrial metals, precious metals, softs and livestock.

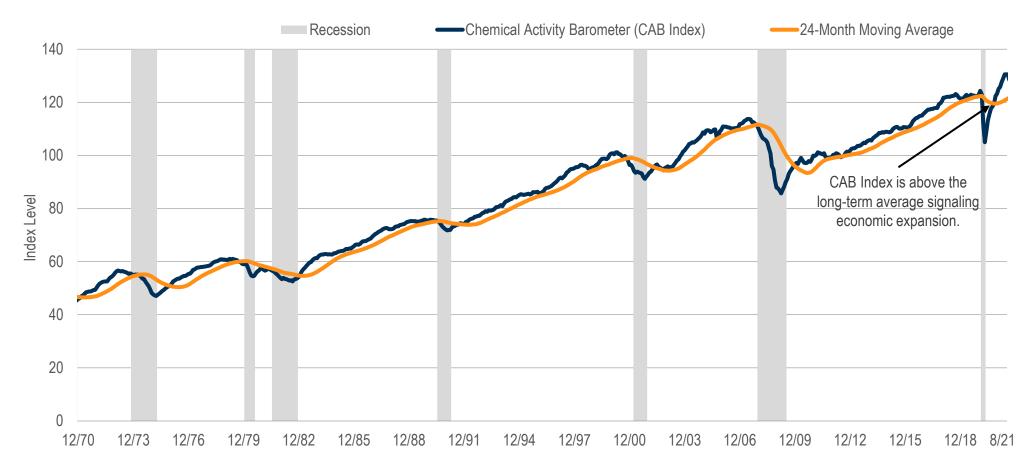
CHEMICAL ACTIVITY BAROMETER (CAB INDEX)

December 31, 1970 - August 31, 2021

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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. The CAB 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.

FIXED INCOME DASHBOARD

10 Year Minimum and Maximum Option Adjusted Spreads (OAS)

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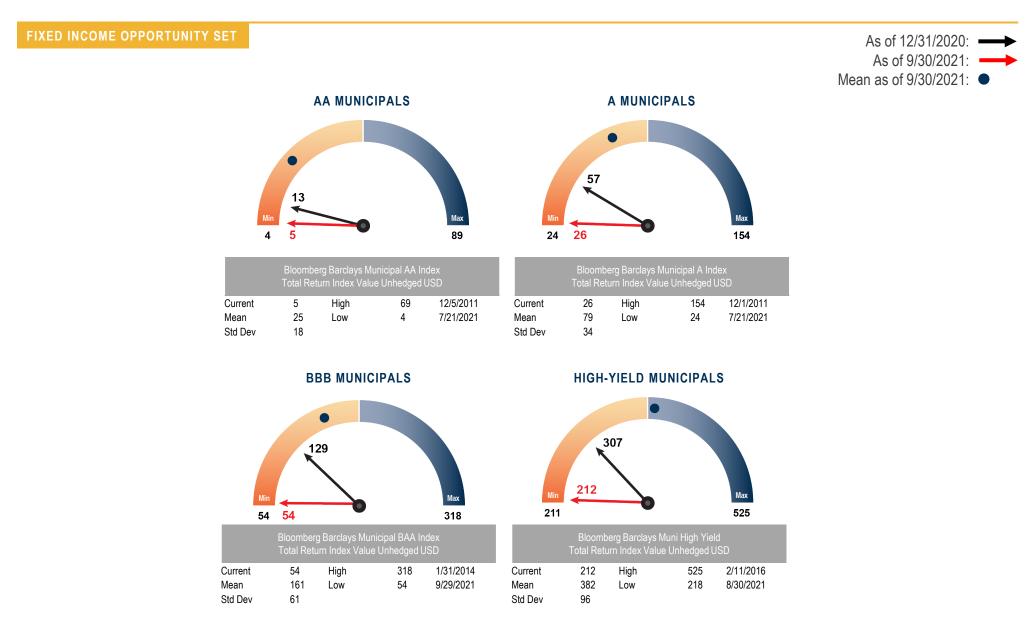
Source: ICE and Standard & Poor's Leveraged Loan Commentary and Data. **Past performance is no guarantee of future results.** Option Adjusted Spread (OAS) is the current spread over a Treasury security of similar tenor. Senior Loan STM is Spread-To-Maturity. Current yield is equivalent to the Index's 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 US Investment Grade Institutional Capital Securities Index (CIPS) / 30% ICE BofA USD Contingent Capital Index (CDLR) / 10% ICE BofA US High Yield Institutional Capital Securities Index (HIPS).

MUNICIPAL BONDS

10 Year Spreads to AAA Municipals

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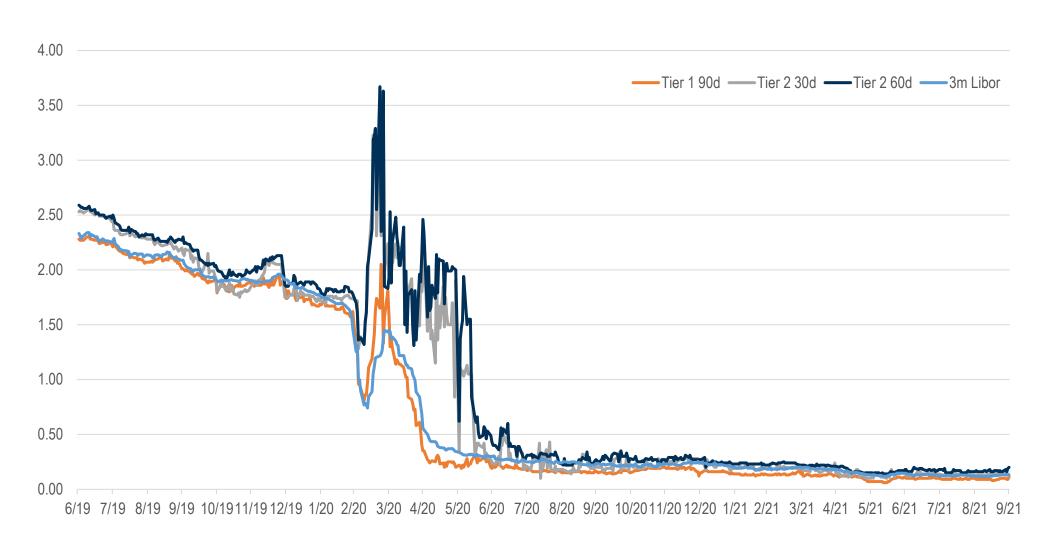


Source: Bloomberg. Past performance is no guarantee of future results. The spread is the difference between the benchmark shown and the Bloomberg Barclays Municipal AAA Index Total Return Index Value Unhedged USD.

June 30, 2019 - September 30, 2021

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FIXED INCOME OPPORTUNITY SET

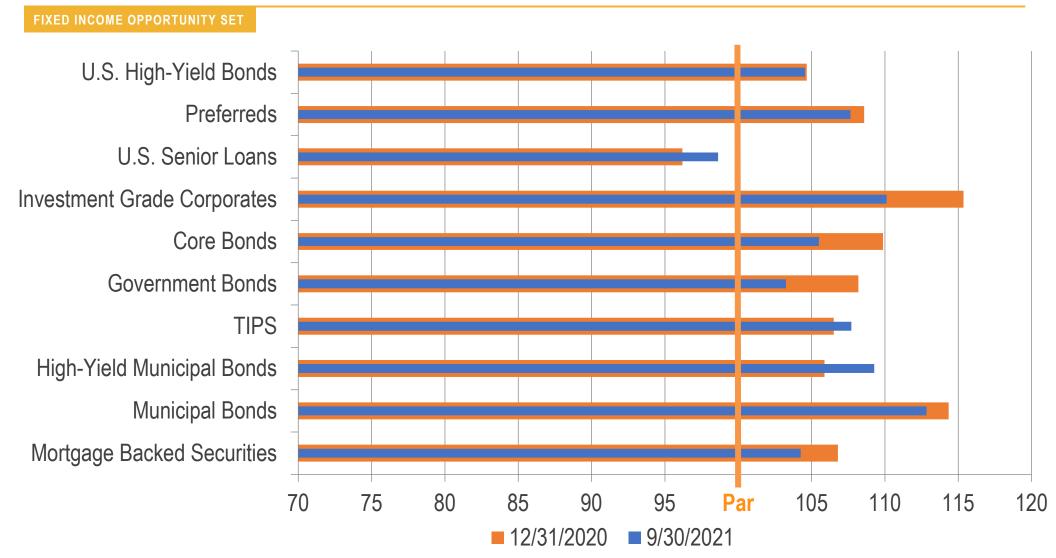


Source: Bloomberg. Tier 1 90d - U.S. Commercial Paper Placed Top 90 Day Yield (DCPB090Y Index), Tier 1 30d - U.S. Commercial Paper Dealer Placed Second 30 Day Yield (DCPD030Y Index), Tier 2 60d- U.S. Commercial Paper Dealer Placed Second 60 Day Yield (DCPD060Y Index), 3m Libor- ICE LIBOR USD 3 Month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

FIXED INCOME ASSET CLASS PRICE ANALYSIS

As of September 30, 2021

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Source: Barclays, 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; Institutional Capital Securities Index; Preferreds are represented by a blended benchmark consisting of 30% ICE BofA Core Plus Fixed Rate Preferred Securities Index (P0P4) / 30% ICE BofA US Investment Grade Institutional Capital Securities Index; CIPS) / 30% ICE BofA USD Contingent Capital Index (CDLR) / 10% ICE BofA US 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 Barclays U.S. Corporate Investment Grade Index; Core Bonds are represented by the Bloomberg Barclays U.S. Aggregate Bond Index; Government Bonds are represented by the Bloomberg Barclays U.S. Government Index; TIPS are represented by the Bloomberg Barclays U.S. Treasury TIPS 1-5 Year Index; High Yield Municipal Bonds are represented by the Bloomberg Barclays Municipal Bond Index; Mortgage Backed Securities are represented by the ICE BofA U.S. Mortgage Backed Securities Index.

YIELD PER UNIT OF DURATION

Bloomberg Barclays U.S. Aggregate Bond Index (January 30, 1976 - September 30, 2021)

FIXED INCOME OPPORTUNITY SET



Source: Bloomberg

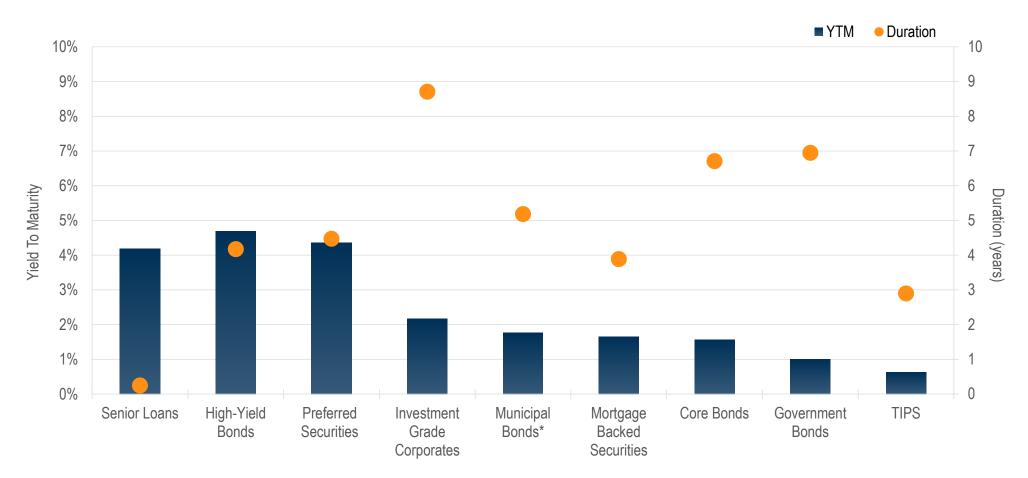
Duration is a measure of a bond's sensitivity to interest rate changes that reflects the change in a bond's price given a change in yield. Past performance is no guarantee of future results.

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As of September 30, 2021



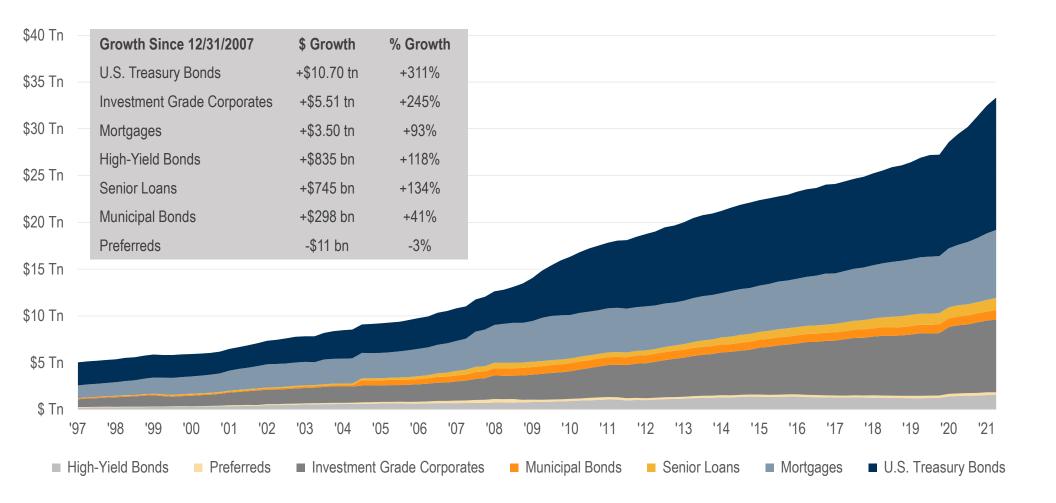
FIXED INCOME OPPORTUNITY SET



Source: Barclays, S&P LCD, and Bloomberg.

*YTM represents the Tax-Equivalent Yield (TEY) for the highest tax bracket of 37%. **Past performance is no guarantee of future results**. U.S. Senior Loans are represented by the S&P/LSTA Leveraged Loan Index; 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 (POP4) / 30% ICE BofA USD Contingent Capital Index (CDLR) / 10% ICE BofA US High Yield Institutional Capital Securities Index (HIPS); Investment Grade Corporates are represented by the Bloomberg Barclays U.S. Corporate Investment Grade Index; Municipal Bonds are represented by the Bloomberg Barclays U.S. Government Index; TIPS are represented by the Bloomberg Barclays U.S. Treasury TIPS 1-5 Year Index. March 31, 1997 – September 30, 2021

FIXED INCOME OPPORTUNITY SET



Source: ICE and Standard & Poor's Leveraged Loan Commentary and Data

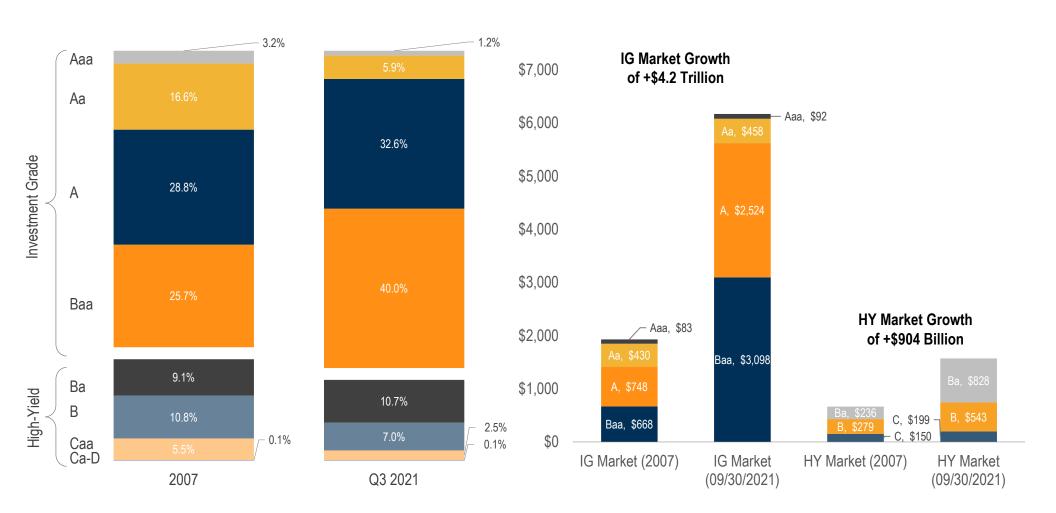
U.S. High-Yield Bonds are represented by the ICE BofA U.S. High Yield Constrained Index; Preferreds are represented by the sum of ICE BofA Fixed Rate Preferred Securities Index and the BofA Investment Grade Institutional Capital Securities Index; Investment Grade Corporates are represented by the ICE BofA U.S. Corporate Index; Municipal Bonds are represented by the ICE BofA U.S. Municipal Securities Index; Senior Loans are represented by the S&P/LSTA Leveraged Loan Index; Mortgages 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.

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

December 31, 2007 vs. September 30, 2021

FIXED INCOME OPPORTUNITY SET

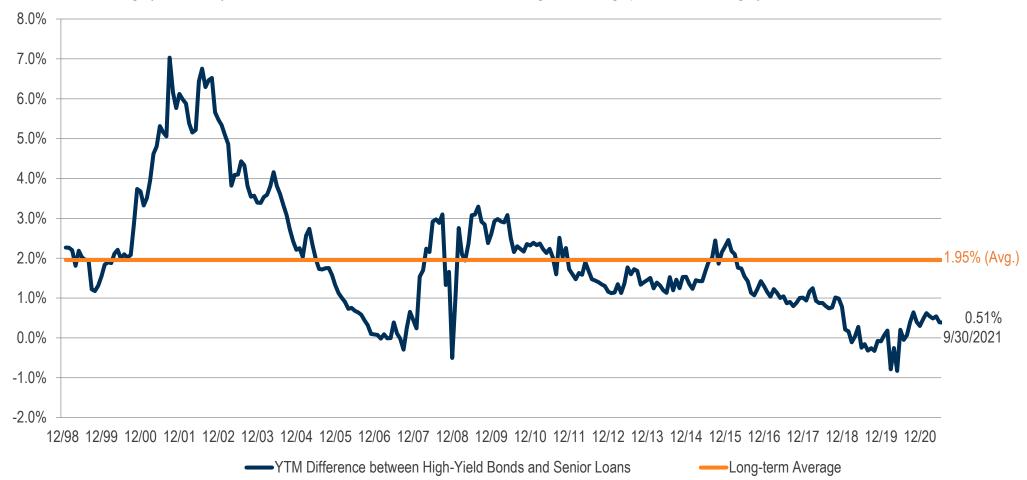


Source: Bloomberg. U.S. Investment Grade represented by Bloomberg Barclays U.S. Corporate Bond Index and U.S. High Yield represented by Bloomberg Barclays U.S. Corporate Figh Yield Index. The Index composite rating is a derived value that is used to classify bonds by credit quality in Bloomberg Barclays 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. High-yield bonds have a rating below Baa3 from Moody's or BBB- from S&P and Fitch.

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YTM DIFFERENCE OF HIGH-YIELD BONDS VS LOANS

FIXED INCOME OPPORTUNITY SE



High-yield bonds yield 0.51% more than senior loans, lower than the long-term average premium to own high-yield bonds of 1.95%

Source: Bloomberg and Standard & Poor's Leveraged Loan Commentary and Data

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). Past performance is no guarantee of future results.

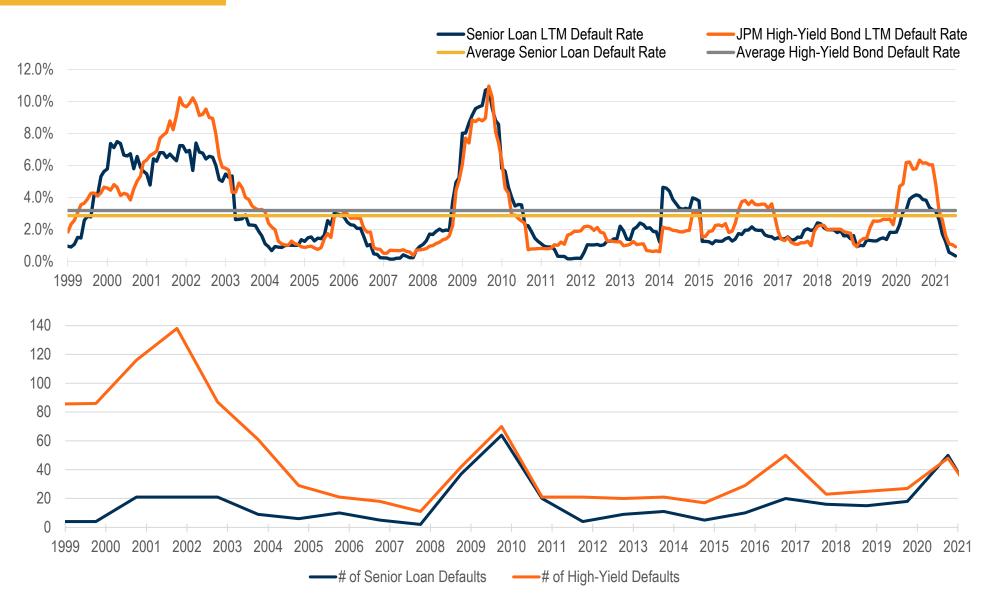
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SENIOR LOAN AND HIGH-YIELD BOND DEFAULT RATE

March 31, 1999 - September 30, 2021

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Source: Standard & Poor's LCD and JP Morgan high-yield research. 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. Past performance is no guarantee of future results.

FIXED INCOME ASSET CLASS RETURNS (%)

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2000 – September 30, 2021

FIXED INCOME OPPORTUNITY SET

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	3Q '21
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	30.88
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	4.68
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	4.53
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	2.21
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	0.79
10.26	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	-0.03
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		-0.44
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	-1.01
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	-1.15
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	-2.66
1.43	2.65	-1.41	2.20		0.96	3.47	1.87	-28.75		2.38	1.82		-6.62	0.66	-4.56	0.64	0.25	-6.76		2.78	-5.67
-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	-7.63

Floating Rate Global Treasury GNMA High Yield Intermediate Corporate Intermediate Treasury Long Corporate Long Treasury MLP Municipal Preferred Short Treasury

Source: Bloomberg. Past performance is no guarantee of future results. All of the indices are unmanaged, statistical composites that cannot be purchased directly by investors. 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 Barclays U.S. Corporate High-Yield Bond Index consists of the universe of fixed-rate, non-IG debt. **Intermediate Corporate** - Bloomberg Barclays U.S. Intermediate Credit Index measures the 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. **Municipal** - Bloomberg Barclays U.S. Municipal Index covers the USD-denominated long-term tax exempt bond market. **Long Corporate** - Bloomberg Barclays 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. **Intermediate Treasury** - Bloomberg Barclays U.S. Intermediate Treasury Index consists of public obligations of the U.S. Treasury with maturities from 1 and up to 10 yrs. **Long Treasury** - Bloomberg Barclays U.S. Long Treasury Index consists of public obligations of the U.S. Treasury lndex tracks fixed-rate, local currency gov't debt of IG countries, including both developed and emerging markets. **Floating Rate** - 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 countries. **GNMA** - Bloomberg Barclays GNMA Index consists of 30-yr and 15-yr pass-through GNMAs and GNMA Graduated Payment Mortgages. **Short Treasury** - Bloomberg Barclays 2-Yr U.S. Treasury Bellwethers Index consists of U.S. Treasury bonds with an average maturity of 2 years. **MLP** - Alerian MLP Index is a composite of 50 prominent energy Master Limited Partnerships (MLPs). **Preferred** - ICE BofA Fixed Rate Preferred Securities Index tracks the performance of fixed rate USD-denominated preferred securities issued in the domestic market.

ASSET CLASS CORRELATION

June 30, 2011 – September 30, 2021

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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													13.26
Core Bonds	-0.01	1.00												2.99
Senior Loans	0.65	0.08	1.00											5.20
High-Yield Bonds	0.75	0.24	0.87	1.00										6.81
Preferreds	0.58	0.45	0.64	0.72	1.00									5.69
EM	0.56	0.46	0.65	0.80	0.65	1.00								7.52
U.S. Convertibles	0.84	0.08	0.72	0.77	0.55	0.56	1.00							12.27
U.S. MBS	-0.16	0.85	-0.17	0.01	0.27	0.27	-0.08	1.00						2.04
Municipals	0.05	0.73	0.28	0.35	0.48	0.57	0.15	0.60	1.00					3.61
IG Corporates	0.24	0.91	0.37	0.51	0.64	0.64	0.30	0.64	0.69	1.00				4.82
U.S. Treasury	-0.34	0.89	-0.33	-0.18	0.10	0.08	-0.26	0.82	0.55	0.66	1.00			3.57
MLPs	0.70	0.07	0.75	0.72	0.59	0.48	0.66	-0.10	0.12	0.32	-0.27	1.00		29.81
Commodities	0.49	-0.09	0.54	0.62	0.33	0.49	0.51	-0.17	0.06	0.08	-0.34	0.49	1.00	13.29

Source: Morningstar. **Past performance is no guarantee of future results.** Volatility is based on standard deviation which is a measure of price variability (risk). Core Bonds are represented by the Bloomberg Barclays 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 U.S. Emerging Markets External Sovereign Index; U.S. Convertibles are represented by the ICE BofA U.S. Convertible Index; U.S. MBS is represented by the Bloomberg Barclays U.S. MBS Index; Municipals are represented by the Bloomberg Barclays Municipal Bond Index; IG Corporates are represented by the Bloomberg Barclays U.S. Treasury is represented by the Bloomberg Barclays U.S. Treasury Index; MLPs are represented by the Alerian MLP Index; Commodities are represented by the Bloomberg Commodity Index.

DEFINITIONS

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CBOE S&P 500 3-Month Volatility Index - VIX3M is designed to be a constant measure of 3-month implied volatility of the S&P 500.

Citi Economic Surprise United States Index – Measures data surprises relative to market expectations.

Convertibles – ICE BofA US Convertible Bonds TR USD tracks the performance of publicly issued U.S. dollar denominated convertible securities of U.S. companies.

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

Emerging Markets – 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.

Government Debt (Agency & Treasury) – Bloomberg Barclays U.S. Government Index consists of Securities issued by the U.S. Government.

Government Debt (Agency & Treasury) – 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.

High-Yield Bonds – ICE BofA U.S. High Yield Constrained Index (HUC0) 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%.

High-Yield Bonds – J.P. Morgan Global High Yield Indices consist of fixed income securities of domestic and foreign issuers with a maximum credit rating of BB+ or Ba1.

High-Yield Municipal Bonds – ICE BofA U.S. Municipal Index tracks the performance of U.S. dollar denominated below investment grade tax-exempt debt publicly issued by U.S. states and territories, and their political subdivisions, in the U.S. domestic market.

Institutional Preferreds – ICE BofA US Investment Grade Institutional Capital Securities Index tracks the performance of U.S. dollar denominated investment grade hybrid capital corporate and preferred securities publicly issued in the U.S. domestic market.

Investment Grade Corporates – Bloomberg Barclays 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.

Investment Grade Corporate Bonds – 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.

Mortgage-Backed Securities – Bloomberg Barclays U.S. Mortgage Backed Securities Index tracks agency mortgage backed pass-through securities (both fixed-rate and hybrid ARM) guaranteed by Ginnie Mae, Fannie Mae, and Freddie Mac.

Mortgage-Backed Securities – 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.

Municipal Bonds - Bloomberg Barclays Municipal Bond Index tracks the performance of the tax-exempt bond market.

Municipal Bonds – ICE BofA U.S. Municipal High Yield 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.

Senior Loans – S&P/LSTA Leveraged Loan Index (LLI) is designed to track the current outstanding balance and spread over LIBOR for fully funded term loans.

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

Treasury Inflation Protected Securities (TIPS) – Bloomberg Barclays 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.

U.S. Aggregate – Bloomberg Barclays U.S. Aggregate Bond Index is a broad-based flagship benchmark that measures the investment grade, U.S. dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, MBS, ABS and CMBS.

VIX Index – The VIX Index is the financial benchmark designed to be an up-to-the-minute market estimate of the expected volatility of the S&P 500 Index, and is calculated by using the midpoint of realtime S&P 500 Index option bid/ask quotes.

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