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OUARTERLY PERFORMANCE REPORT

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

SEPTEMBER 30, 2022

Sam Austin, Partner Allan Martin, Partner Michael Malchenko, Consultant





MARKET ENVIRONMENT



PROPRIETARY & CONFIDENTIAL

ECONOMIC ENVIRONMENT

• Q2 Real GDP (third estimate) decreased at an annual rate of -0.6%.

- Retail sales ended August at +7.9% on a YoY basis. In the same period last year the YoY growth rate was +11.1%.
- Corporate profits as a percent of GDP ended April 2022 at 12.1%, up from 9.3% in the same period last year and remain elevated relative to historical levels.
- The inventory-to-sales ratio ended August was 1.33. Levels have remained relatively constant since early 2010 with a spike to 1.7 in April 2020.
- The U.S. trade deficit widened in Q3, but remains elevated.
- The unemployment rate was 3.5% ended Q3, down from 3.6% in Q2; U-6, a broader measure of unemployment, was unchanged in Q3 when compared to Q2 at 6.7%.
 - The labor force participation rate ended Q3 at 62.3%, up from 62.2% in Q2 after declining to 60.2% in April 2020 and is at levels below the 10 year pre-pandemic average of 63.0%.
- The Case-Shiller Home Price Index (ended August) declined to 303.76 from 308.43 in June and remains at levels higher than that of pre-financial crisis levels of 150.9.
- Rolling 12-month seasonally-adjusted CPI ended Q3 at 8.2% down from 8.99% in Q2. In the same period last year, it was 5.39%; Capacity Utilization slightly increased to 80.34% in Q3 from 80.30% in Q2.
- Fed Funds rate was increased in Q3 by 1.50% to a targeted range of 3.0%-to-3.25% up from 1.50%-to-1.75%. The 10-year Treasury Yield (constant maturity) finished Q3 at 3.52% up from 3.1% in Q2.
- The Fed continues scaling back asset purchases. The Fed continues to reduce the size of its balance sheet after a period of rapid growth post-pandemic.
- S&P valuations decreased in Q3 to 27.0x from 29.0x in Q2 and are lower than the 10-year average of 28.8x.

- Cyclically adjusted Shiller PE ratio remains above the long-term average of 16.98x.



MARKET ENVIRONMENT

Q3 2022 OVERVIEW

		Qtr.	1 Yr.	3 Yr.	5 Yr.	10 Yr.					
World Equity Benchmarks							MSCI ACWI IMI (Net)				
MSCI ACWI IMI (Net)	World with Small Cap	-6.64%	-21.18%	3.64%	4.16%	7.25%	, ,				
MSCI ACWI Net (USD)	World W/O Small Cap	-6.82%	-20.66%	3.75%	4.44%	7.28%	MSCI ACWI Net (USD)				
MSCI ACWI (Local)	World (Local Currency)	-4.86%	-16.24%	5.19%	5.70%	8.90%	MSCI ACWI (Local)				
Domestic Equity Benchmarks							Russell 3000				
Russell 3000	Domestic All Cap	-4.46%	-17.63%	7.70%	8.62%	11.38%	S&P 500				
S&P 500	Large Core	-4.88%	-15.47%	8.16%	9.24%	11.70%	Russell 1000				
Russell 1000	Large Core	-4.61%	-17.22%	7.94%	9.00%	11.60%	Russell 1000 Growth				
Russell 1000 Growth	Large Growth	-3.60%	-22.59%	10.67%	12.16%	13.70%	Russell 1000 Value				
Russell 1000 Value	Large Value	-5.62%	-11.36%	4.36%	5.29%	9.17%	Russell 2000				
Russell 2000	Small Core	-2.19%	-23.50%	4.29%	3.55%	8.55%	Russell 2000 Growth				
Russell 2000 Growth	Small Growth	0.24%	-29.27%	2.93%	3.60%	8.81%	Russell 2000 Value				
Russell 2000 Value	Small Value	-4.61%	-17.69%	4.72%	2.87%	7.94%	NASDAQ Composite				
NASDAQ Composite	Large Growth	-3.91%	-26.26%	10.63%	11.25%	14.22%	NASDAQ Composite				
NASDAQ Biotechnology	Biotech	0.69%	-25.26%	7.15%	2.17%	10.24%					
International Equity Benchmarks							MSCI ACWI Ex USA				
MSCI ACWI Ex USA	World ex-US	-9.91%	-25.17%	-1.52%	-0.81%	3.01%	MSCI EAFE Net (USD)				
MSCI EAFE Net (USD)	Int'l Developed	-9.36%	-25.13%	-1.83%	-0.84%	3.67%	MSCI EAFE (Local)		يتعصب		
MSCI EAFE (Local)	Int'l Developed (Local Currency)	-3.59%	-11.11%	2.51%	2.83%	7.44%	MSCI EAFE Small Cap	Ļ			
MSCI EAFE Small Cap	Small Cap Int'l	-9.83%	-32.06%	-2.16%	-1.79%	5.28%	MSCI Emerging Markets				
MSCI Emerging Markets	Emerging Equity	-11.57%	-28.11%	-2.07%	-1.81%	1.05%	Bloomberg Aggregate				
Domestic Fixed Income Benchmarks							Barclays US High Yield				
Bloomberg Aggregate	Core Bonds	-4.75%	-14.60%	-3.26%	-0.27%	0.89%	CSFB Levered Loans			I	
Barclays US High Yield	High Yield	-0.65%	-14.14%	-0.45%	1.57%	3.94%	BofA ML US 3-Month T-Bill				
CSFB Levered Loans	Bank Loans	1.19%	-2.62%	2.12%	3.00%	3.70%	Bloomberg US TIPS 1-10 Yr			Quarte	r:
BofAML US 3-Month T-Bill	Cash	0.46%	0.62%	0.59%	1.15%	0.68%	Barclays Global Aggregate			■1 Yr	
Bloomberg US TIPS 1-10 Yr	Inflation	-3.94%	-7.44%	1.79%	2.27%	1.17%					
Global Fixed Income Benchmarks							FTSE WGBI				
Barclays Global Aggregate	Global Core Bonds	-6.94%	-20.43%	-5.74%	-2.32%	-0.93%	BC Global Credit				
FTSE WGBI	World Gov. Bonds	-7.61%	-22.14%	-7.03%	-3.07%	-1.76%	JPM GBI-EM Glob. Diversified	- i -			
BC Global Credit	Global Bonds	-6.58%	-21.53%	-5.15%	-1.81%	0.28%	JPM EMBI+	ļ.			
JPM GBI-EM Glob. Diversified	Em. Mkt. Bonds (Local Currency)	-4.73%	-20.63%	-7.06%	-3.92%	-2.43%	Bloomberg Commodity Index				
JPM EMBI+	Em. Mkt. Bonds	-5.52%	-30.93%	-9.87%	-5.52%	-0.86%	HFRI Fund of Funds Composite Index				
Alternative Benchmarks							Cambridge PE Lagged*		-		
Bloomberg Commodity Index	Commodities	-4.11%	11.80%	13.45%	6.96%	-2.14%	NCREIF ODCE Net Lagged*				
HFRI Fund of Funds Composite Index	Fund of Hedge Funds	-0.70%	-6.84%	4.03%	3.00%	3.43%	FTSE NAREIT All Equity REITs				
Cambridge PE Lagged*	Private Equity	-3.43%	8.82%	19.90%	17.68%	15.53%	CPI + 2%				
NCREIF ODCE Net Lagged*	Real Estate	4.58%	28.36%	11.68%	9.56%	10.16%		2001 200	100	1001 0001	
FTSE NAREIT AII Equity REITs	REIT	-10.83%	-16.27%	-1.10%	4.10%	6.99%	-40%	-30% -20	% -10% 0%	6 10% 20%	
CPI + 2%	Inflation/Real Assets	0.98%	10.37%	7.06%	5.86%	4.58%					



* As of 6/30/2022

20% 30% 40%

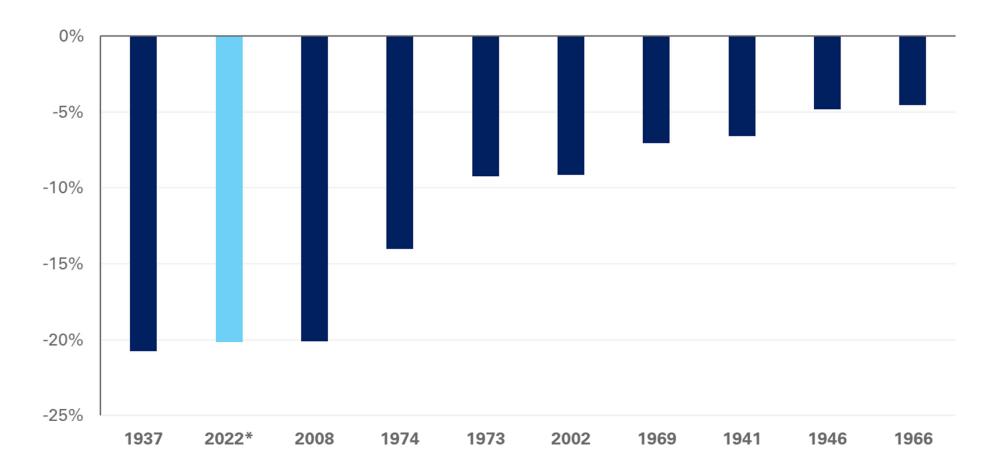
THE BEAR MARKET IS TRENDING WITH THE PAST HISTORICAL S&P 500 BEAR MARKET PATHS RELATIVE TO TODAY





60/40 PORTFOLIO ON TRACK FOR WORST YEAR

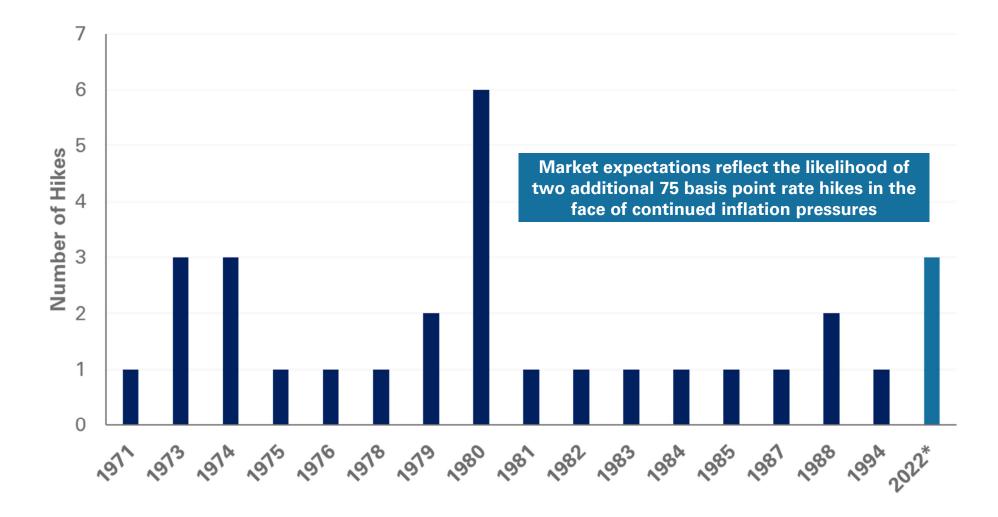
WORST ANNUAL RETURNS: 60/40 PORTFOLIO



60/40 Portfolio represents 60% S&P 500 and 40% U.S. Aggregate Bonds (post 1975) and 40% Treasury (prior to 1974) Data calculated from 12/31/1936; 2022 represents returns through the first nine months of the year Source: S&P, Bloomberg, FactSet



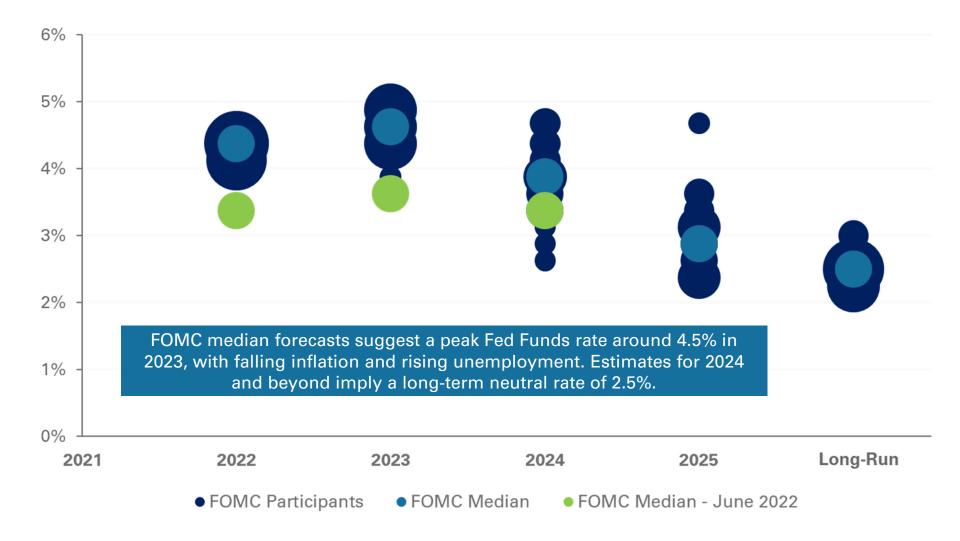
THE MOVEMENT IN RATES HAS BEEN SIGNIFICANT NUMBER OF FED RATE HIKES ≥ 0.75% IN A CALENDAR YEAR



Sources: Federal Reserve, FactSet, NEPC



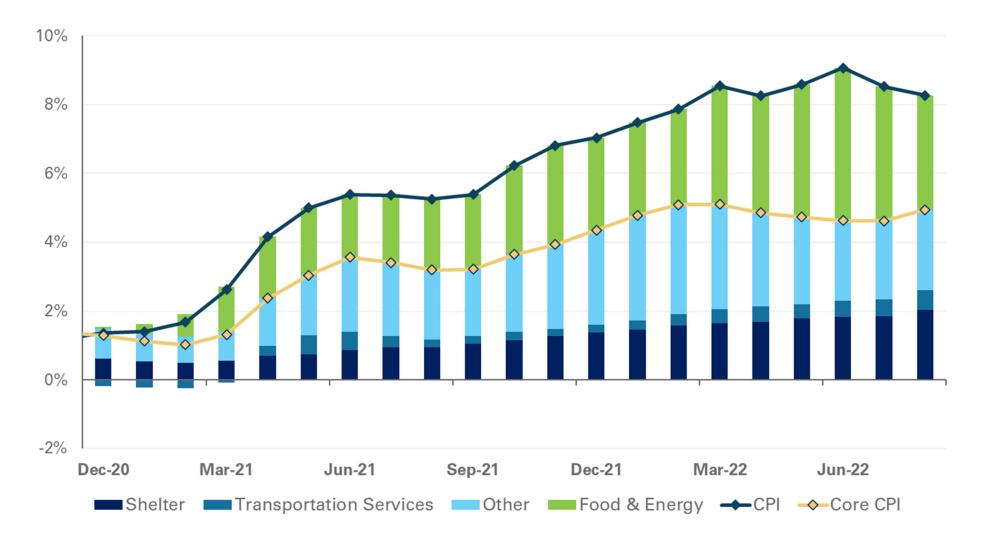
FOMC PROJECTS LOWER RATES IN 2024 FOMC DOT PLOT PROJECTIONS





Source: Federal Reserve System

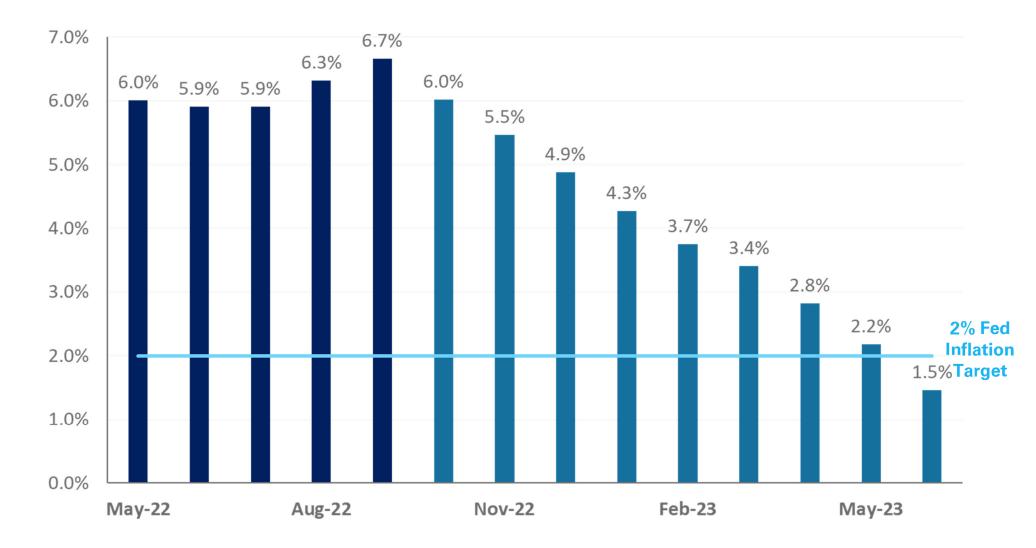
CORE INFLATION INCREASED DURING THE QUARTER ANNUAL U.S. CPI-U CHANGES





Source: Department of Labor, FactSet

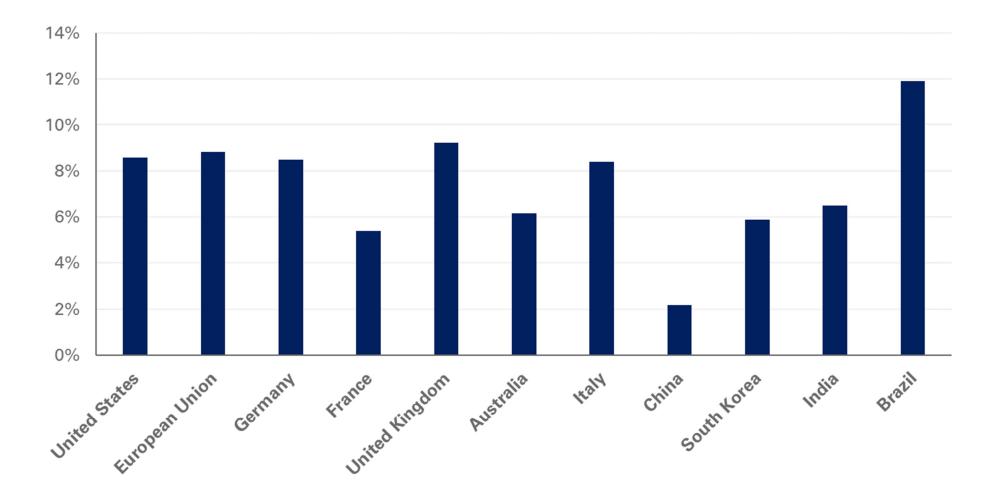
HEADLINE INFLATION WILL REMAIN ELEVATED PROJECTED CHANGE IN U.S. CORE CPI WITH 0% MONTHLY CHANGE





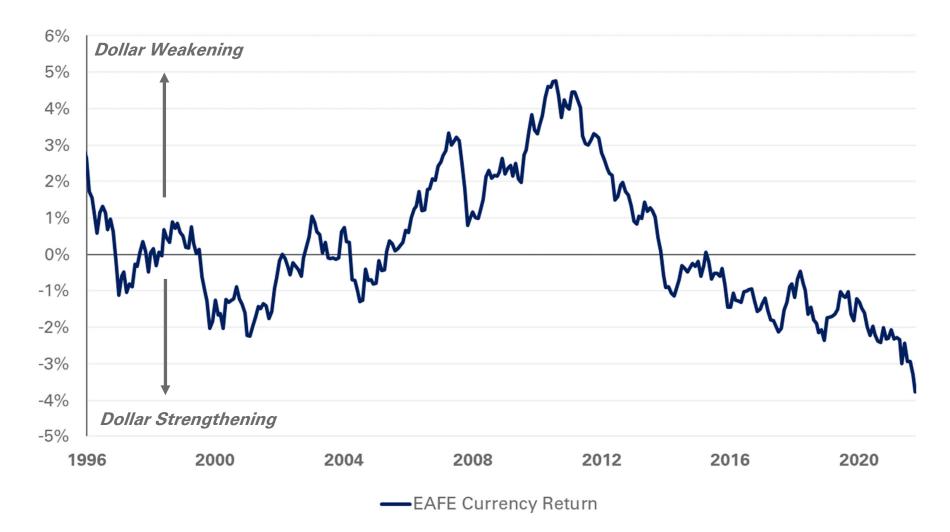
Notes: Figures calculated pulling forward the September index value Sources: U.S. Department of Labor, FactSet, NEPC

GLOBAL INFLATION REMAINED ELEVATED ANNUAL CPI CHANGES



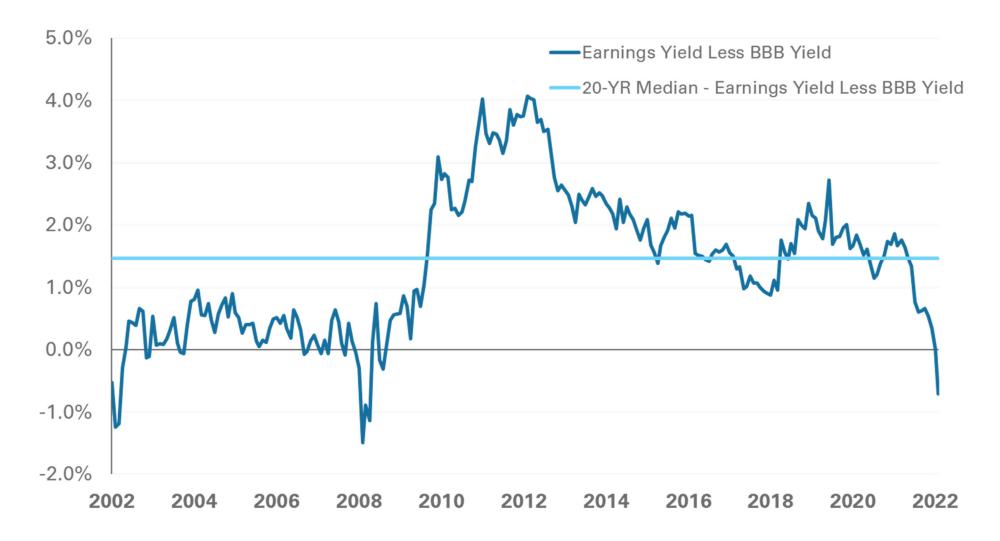
NE PC Figures as of 8/30/2022; Germany, Italy, and South Korea figures as of 9/30/2022 Source: FactSet

CURRENCY RETURNS MOVE OVER LONG CYCLES ANNUALIZED ROLLING 10 YEAR CURRENCY RETURNS





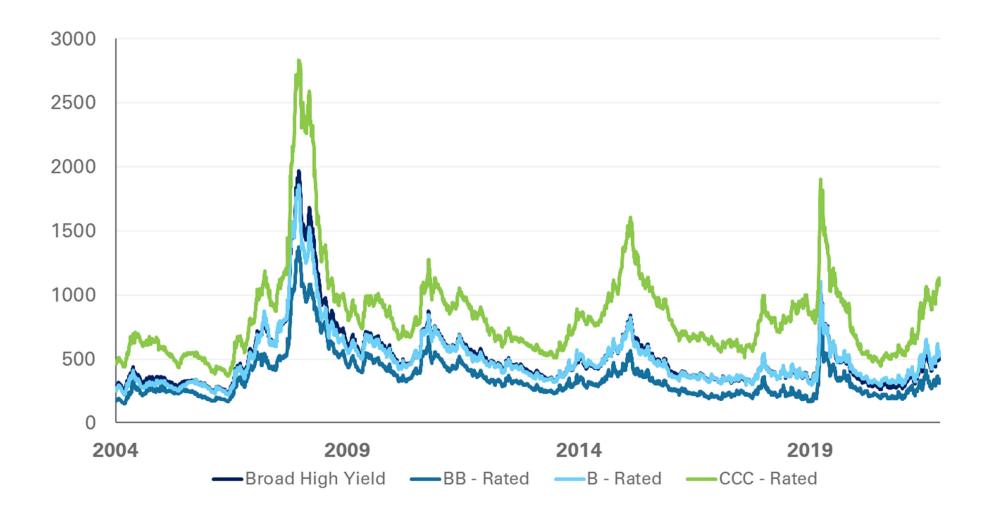
EQUITY REMAINS LESS ATTRACTIVE VS CREDIT S&P 500 EARNINGS YIELD LESS BBB BOND YIELD





Sources: S&P, FactSet, NEPC

KEEP AN EYE ON SPREADS AS AN OPPORTUNITY U.S. CORPORATE HIGH YIELD SPREADS





Sources: Bloomberg, FactSet

KEY THEMES FOR INVESTORS

Stagflation dynamics pose a challenge to portfolio diversification and represent a headwind for equity valuations and profit margins

The path of U.S. corporate earnings do not reflect material weakness for 2023 despite the tightening monetary policy environment

Europe's economy is exposed to an energy shock as its infrastructure undergoes an emergency transplant to pivot from Russian energy

China's zero-COVID policy has global supply chain implications and continues to dampen consumer spending and industrial activity

U.S. Dollar strength reveals risks in the global financial system and will continue to pressure weaker markets, companies and nations





TOTAL FUND PERFORMANCE



PROPRIETARY &¹⁴ CONFIDENTIAL

TOTAL FUND PERFORMANCE SUMMARY NET OF FEES

	Allocation	61		Performa	Performance (%)				
	Market Value (\$)	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)		
Total Fund	13,148,482,295	-3.2 (13)	-9.2 (10)	-5.4 (10)	7.3 (7)	6.6 (7)	7.6 (16)		
Policy Index		-5.7 (97)	-18.7 (83)	-16.1 (90)	1.1 (99)	2.7 (98)	4.5 (100)		
S&P 500 Index		-4.9 (88)	-23.9 (100)	-15.5 (84)	8.2 (1)	9.2 (1)	11.7 (1)		
Blmbg. U.S. Aggregate Index		-4.8 (87)	-14.6 (59)	-14.6 (79)	-3.3 (100)	-0.3 (100)	0.9 (100)		
60% MSCI World/40% FTSE WGBI		-6.6 (100)	-23.5 (100)	-20.2 (100)	0.4 (100)	2.5 (99)	4.6 (100)		
InvMetrics Public DB > \$1 Billion Median		-3.8	-13.9	-10.3	5.1	5.2	6.8		

3 Years Ending September 30, 2022							
	Return	Standard Deviation	Sharpe Ratio	Sortino Ratio			
Total Fund	7.34 (7)	9.10 (10)	0.75 (4)	1.14 (7)			
Policy Index	1.08 (99)	11.06 (39)	0.10 (99)	0.13 (99)			

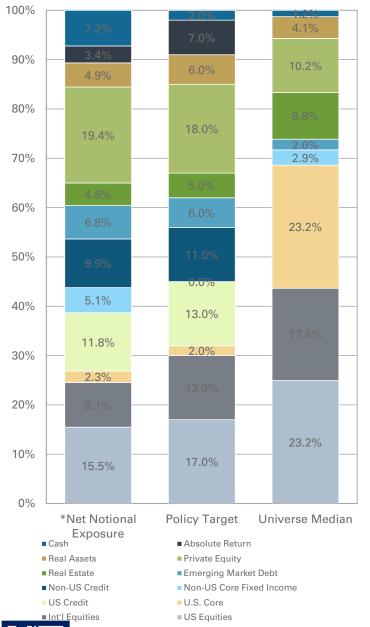
5 Years Ending September 30, 2022								
	Return	Standard Deviation	Sharpe Ratio	Sortino Ratio				
Total Fund	6.61 (7)	7.45 (1)	0.73 (4)	1.11 (4)				
Policy Index	2.70 (98)	9.48 (38)	0.21 (97)	0.28 (96)				
InvMetrics Public DB > \$1 Billion Median	5.18	10.11	0.43	0.60				

10 Years Ending September 30, 2022							
	Return	Standard Deviation	Sharpe Ratio	Sortino Ratio			
Total Fund	7.57 (16)	5.75 (1)	1.17 (1)	1.85 (1)			
Policy Index	4.55 (100)	7.57 (25)	0.53 (99)	0.78 (97)			
InvMetrics Public DB > \$1 Billion Median	6.85	8.28	0.72	1.09			



Note: Risk statistics are measured on a monthly basis.

ASSET ALLOCATION COMPLIANCE



Asset Class	*Net Notional Exposure	Net Notional Exposure	Policy Target	Difference	Policy Ranges	Within Range
US Equities	2,035,031	15.5%	17.0%	-1.5%	10%-27%	Yes
Int'l Equities	1,190,421	9.1%	13.0%	-3.9%	8%-18%	Yes
U.S. Core Fixed Income	305,100	2.3%	2.0%	0.3%	-3%-7%	Yes
U.S. Credit	1,553,714	11.8%	13.0%	-1.2%	8%-18%	Yes
Non-U.S. Core Fixed Income	672,700	5.1%	0.0%	5.1%	-5%-5%	Yes
Non-U.S. Credit	1,296,363	9.9%	11.0%	-1.1%	6%-16%	Yes
Emerging Market Debt	889,439	6.8%	6.0%	0.8%	1%-10%	Yes
Real Estate	602,999	4.6%	5.0%	-0.4%	0%-10%	Yes
Private Equity	2,557,062	19.4%	18.0%	1.4%	6%-23%	Yes
Real Assets	643,799	4.9%	6.0%	-1.1%	0%-10%	Yes
Absolute Return	452,919	3.4%	7.0%	-3.6%	0%-12%	Yes
Cash	948,935	7.2%	2.0%	5.2%	0%-10%	Yes
Total	13,148,482	100.00%	100.00%			

*Notional values are sourced from Russell Investments.

INVESTMENT EXPOSURE SUMMARY

OVERLAY AS OF SEPTEMBER 30, 2022

			<u>Delta Adj</u>	usted						
Asset Class	Physical E	xposure	Synthetic E	xposure	Net Po	sition	<u>Overlay</u>	Target	Policy Ta	arget
Total Market Value	12,910.9	100.0 %	0.0	0.0 %	12,910.9	100.0 %	12,910.9	100.0 %	12,910.9	100.00 %
Cash	2,146.4	16.6 %	-2,163.5	-16.8 %	-17.0	-0.1 %	0.0	0.0 %	0.0	0.00 %
Cash	2,146.4	16.6 %	-2,163.5	-16.8 %	-17.0	-0.1 %	0.0	0.0 %	0.0	0.00 %
Equity	2,015.1	15.6 %	1,185.7	9.2 %	3,200.9	24.8 %	3,210.1	24.9 %	3,227.7	25.00 %
Emerging Markets	377.1	2.9 %	192.1	1.5 %	569.2	4.4 %	577.8	4.5 %	581.0	4.50 %
International Developed	325.4	2.5 %	281.8	2.2 %	607.3	4.7 %	577.8	4.5 %	581.0	4.50 %
US Large Cap	1,312.3	10.2 %	456.3	3.5 %	1,768.6	13.7 %	1,797.6	13.9 %	1,807.5	14.00 %
US Small Cap	0.3	0.0 %	255.6	2.0 %	255.8	2.0 %	256.8	2.0 %	258.2	2.00 %
Fixed	3,735.2	28.9 %	977.7	7.6 %	4,713.0	36.5 %	4,686.7	36.3 %	4,712.5	36.50 %
Global ex US Fixed Income	2,175.4	16.8 %	672.7	5.2 %	2,848.1	22.1 %	2,824.9	21.9 %	2,840.4	22.00 %
High Yield	1,218.5	9.4 %	0.0	0.0 %	1,218.5	9.4 %	1,219.8	9.4 %	1,226.5	9.50 %
US Fixed Income	341.3	2.6 %	305.1	2.4 %	646.4	5.0 %	642.0	5.0 %	645.5	5.00 %
Other	5,014.1	38.8 %	0.0	0.0 %	5,014.1	38.8 %	5,014.1	38.8 %	4,970.7	38.50 %
Alternatives	9.1	0.1 %	0.0	0.0 %	9.1	0.1 %	9.1	0.1 %	12.9	0.10 %
Commodities	551.7	4.3 %	0.0	0.0 %	551.7	4.3 %	551.7	4.3 %	529.3	4.10 %
Infrastructure	87.4	0.7 %	0.0	0.0 %	87.4	0.7 %	87.4	0.7 %	64.6	0.50 %
Private Equity	2,494.3	19.3 %	0.0	0.0 %	2,494.3	19.3 %	2,494.3	19.3 %	2,478.9	19.20 %
Real Estate	567.6	4.4 %	0.0	0.0 %	567.6	4.4 %	567.6	4.4 %	581.0	4.50 %
Tactical Cash	1,304.0	10.1 %	0.0	0.0 %	1,304.0	10.1 %	1,304.0	10.1 %	1,304.0	10.10 %



Source: Russell Investments

San Bernardino County Employees' Retirement Association

RISK VS. RETURN

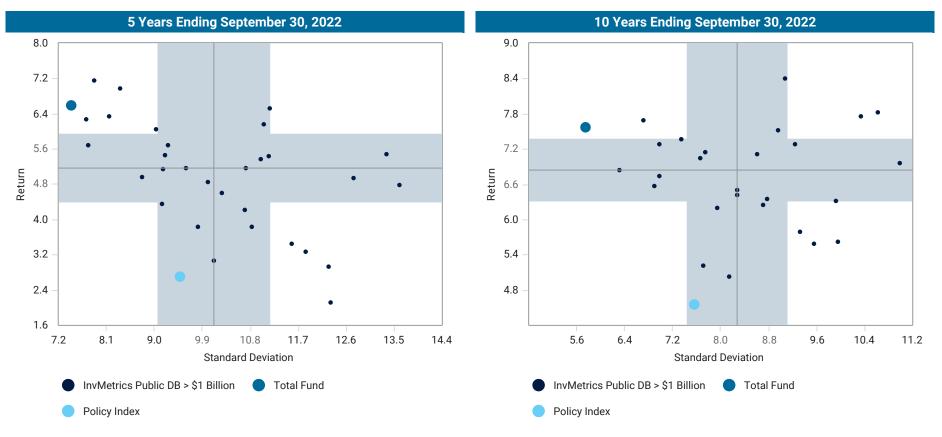


	1 Year Ending September 30, 2022					3 Years Ending September 30, 2022					
	Return	Standard Deviation	Sharpe Ratio	Sortino Ratio		Return	Standard Deviation	Sharpe Ratio	Sortino Ratio		
Total Fund	-5.4 (10)	6.7 (1)	-0.9 (20)	-1.0 (17)	Total Fund	7.3 (7)	9.1 (10)	0.7 (4)	1.1 (7)		
Policy Index	-16.1 (90)	11.8 (70)	-1.5 (100)	-1.5 (100)	Policy Index	1.1 (99)	11.1 (39)	0.1 (99)	0.1 (99)		
Population	31	31	31	31	Population	31	31	31	31		



San Bernardino County Employees' Retirement Association

RISK VS. RETURN

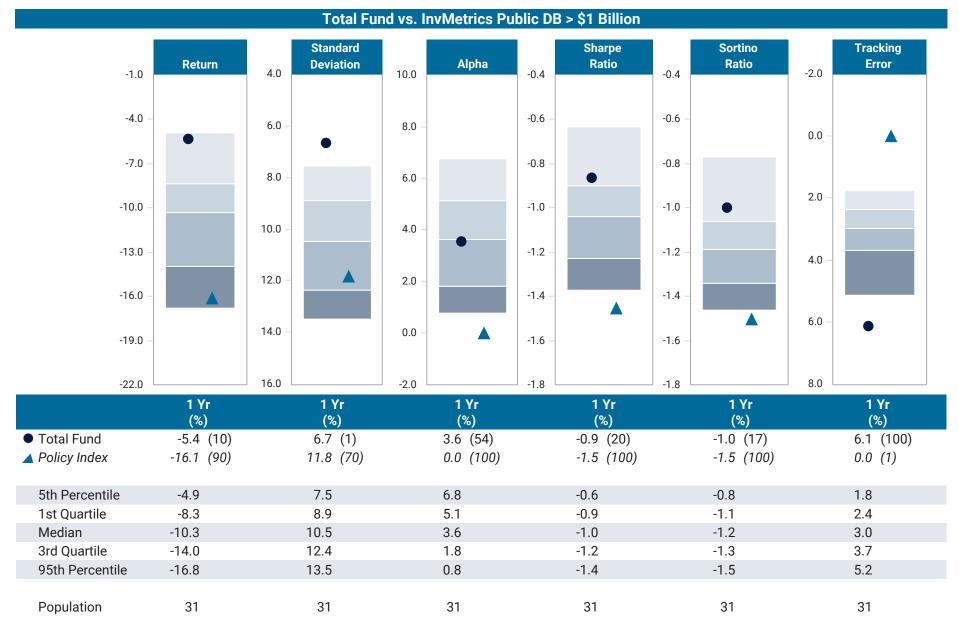


	5 Years Ending September 30, 2022				10 Years Ending September 30, 2022					
	Return	Standard Deviation	Sharpe Ratio	Sortino Ratio		Return	Standard Deviation	Sharpe Ratio	Sortino Ratio	
Total Fund	6.6 (7)	7.4 (1)	0.7 (4)	1.1 (4)	Total Fund	7.6 (16)	5.8 (1)	1.2 (1)	1.8 (1)	
Policy Index	2.7 (98)	9.5 (38)	0.2 (97)	0.3 (96)	Policy Index	4.5 (100)	7.6 (25)	0.5 (99)	0.8 (97)	
Population	31	31	31	31	Population	27	27	27	27	



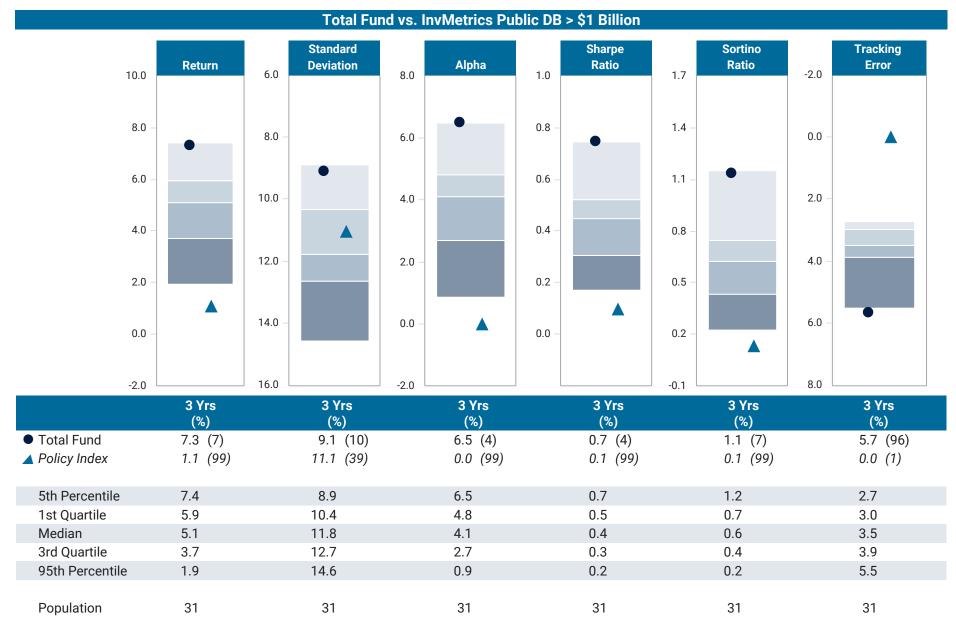
San Bernardino County Employees' Retirement Association

September 30, 2022



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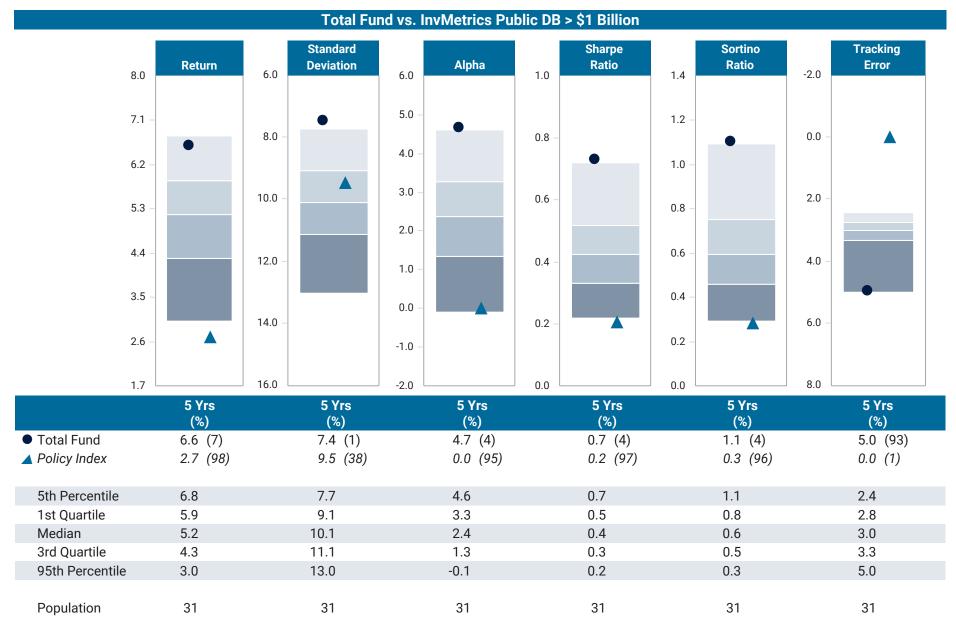
September 30, 2022





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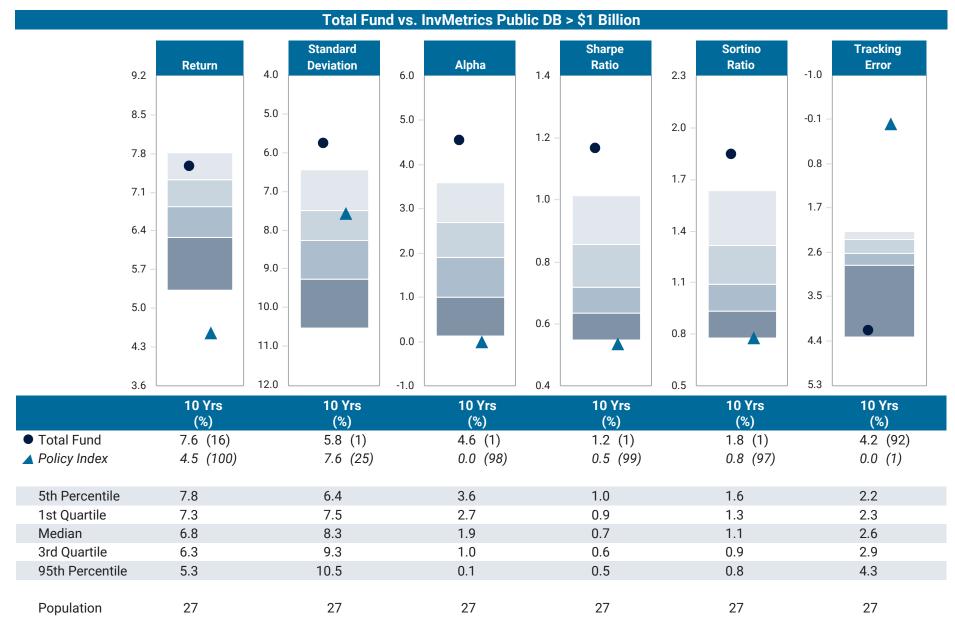
September 30, 2022





San Bernardino County Employees' Retirement Association

September 30, 2022



NEPC Profit-Sharing Plan

1 Year Ending Septemb	er 30, 2022			
	Return	Standard Deviation	Tracking Error	Information Ratio
Domestic Equity With Beta Overlay	-18.0	19.5	2.8	-0.3
Russell 3000 Index	-17.6	20.7	0.0	
International Equity With Beta Overlay	-19.2	11.5	4.3	1.5
MSCI AC World ex USA index	-24.8	15.3	0.0	
Global Fixed Income With Beta Overlay	-2.9	4.0	6.6	2.9
Blmbg. Global Aggregate	-20.4	7.8	0.0	
U.S. Credit Strategies	-1.4	5.0	5.3	1.3
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index	-8.2	6.9	0.0	
Non-U.S. Credit Composite	-0.3	4.8	10.3	3.2
ICE BofA Euro High Yield Constrained TR	-28.8	12.2	0.0	
Emerging Markets Debt Composite	-9.0	4.1	9.5	1.6
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified	-22.5	9.6	0.0	
Alpha Pool Composite	-3.2	5.0	5.0	-1.3
91 Day T-Bill + 3%	3.6	0.3	0.0	
Private Equity Composite	7.8	6.4	7.7	0.4
C A Global All PE (Qtr Lag)	4.4	8.4	0.0	
Real Estate Composite	20.5	5.2	12.6	-0.1
NCREIF Property Index 1 Qtr. Lag	21.5	8.4	0.0	
Real Assets Composite	16.5	5.5	13.3	1.1
Real Assets Custom Blend	-0.6	15.6	0.0	



NEPC Profit-Sharing Plan

3 Years Ending Septem	ber 30, 2022			
	Return	Standard Deviation	Tracking Error	Information Ratio
Domestic Equity With Beta Overlay	5.4	20.9	3.1	-0.7
Russell 3000 Index	7.7	20.7	0.0	
International Equity With Beta Overlay	0.1	16.2	3.7	0.2
MSCI AC World ex USA index	-1.1	18.2	0.0	
Global Fixed Income With Beta Overlay	5.5	7.8	8.3	1.4
Blmbg. Global Aggregate	-5.7	6.8	0.0	
U.S. Credit Strategies	7.4	8.6	6.8	0.9
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index	0.7	9.2	0.0	
Non-U.S. Credit Composite	4.3	9.5	12.4	0.8
ICE BofA Euro High Yield Constrained TR	-6.3	14.7	0.0	
Emerging Markets Debt Composite	-2.4	6.9	9.8	0.4
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified	-7.1	11.9	0.0	
Alpha Pool Composite	2.2	7.6	7.7	-0.1
91 Day T-Bill + 3%	3.6	0.3	0.0	
Private Equity Composite	20.3	10.0	15.6	0.0
C A Global All PE (Qtr Lag)	19.4	15.7	0.0	
Real Estate Composite	11.0	4.3	8.2	0.1
NCREIF Property Index 1 Qtr. Lag	10.2	5.9	0.0	
Real Assets Composite	14.7	11.4	11.7	0.5
Real Assets Custom Blend	7.9	13.1	0.0	



NEPC Profit-Sharing Plan

5 Years Ending Septem	ber 30, 2022			
	Return	Standard Deviation	Tracking Error	Information Ratio
Domestic Equity With Beta Overlay	6.2	18.0	3.0	-0.8
Russell 3000 Index	8.6	18.5	0.0	
International Equity With Beta Overlay	0.4	14.6	3.3	0.1
MSCI AC World ex USA index	-0.3	16.2	0.0	
Global Fixed Income With Beta Overlay	4.3	6.4	7.4	0.9
Blmbg. Global Aggregate	-2.3	5.9	0.0	
U.S. Credit Strategies	6.5	6.9	5.8	0.7
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index	2.3	7.5	0.0	
Non-U.S. Credit Composite	4.9	7.7	11.2	0.8
ICE BofA Euro High Yield Constrained TR	-4.3	12.4	0.0	
Emerging Markets Debt Composite	-2.1	5.9	8.8	0.1
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified	-3.2	10.4	0.0	
Alpha Pool Composite	3.4	6.1	6.2	-0.1
91 Day T-Bill + 3%	4.2	0.3	0.0	
Private Equity Composite	18.1	8.1	13.0	0.0
C A Global All PE (Qtr Lag)	17.2	12.9	0.0	
Real Estate Composite	9.4	3.5	6.9	0.1
NCREIF Property Index 1 Qtr. Lag	8.9	4.9	0.0	
Real Assets Composite	9.3	9.9	9.5	0.4
Real Assets Custom Blend	4.9	10.6	0.0	



NEPC Profit-Sharing Plan

10 Years Ending September 30, 2022									
	Return	Standard Deviation	Tracking Error	Information Ratio					
Domestic Equity	4.2	12.3	9.0	-0.8					
Russell 3000 Index	11.4	14.8	0.0						
International Equity	2.7	15.4	8.5	-0.5					
MSCI AC World Index (Net)	7.3	13.9	0.0						
International Emerging	-0.4	14.8	4.4	-0.4					
MSCI Emerging Markets (Net)	1.0	16.0	0.0						
U.S. Credit Strategies	7.1	5.4	4.9	0.6					
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index	3.8	5.8	0.0						
Non-U.S. Credit Composite	6.8	6.0	10.3	0.5					
ICE BofA Euro High Yield Constrained TR	0.6	11.2	0.0						
Emerging Markets Debt Composite	1.1	6.0	7.2	0.2					
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified	-0.6	9.4	0.0						
Alpha Pool Composite	4.4	4.9	4.9	0.2					
91 Day T-Bill + 3%	3.7	0.3	0.0						
Private Equity Composite	15.6	6.5	10.5	0.0					
CIA Global All PE (Qtr Lag)	14.9	10.2	0.0						
Real Estate Composite	9.3	3.5	5.9	-0.1					
NCREIF Property Index 1 Qtr. Lag	9.7	4.6	0.0						
Real Assets Composite	5.8	8.0	7.9	0.5					
Real Assets Custom Blend	1.5	8.7	0.0						



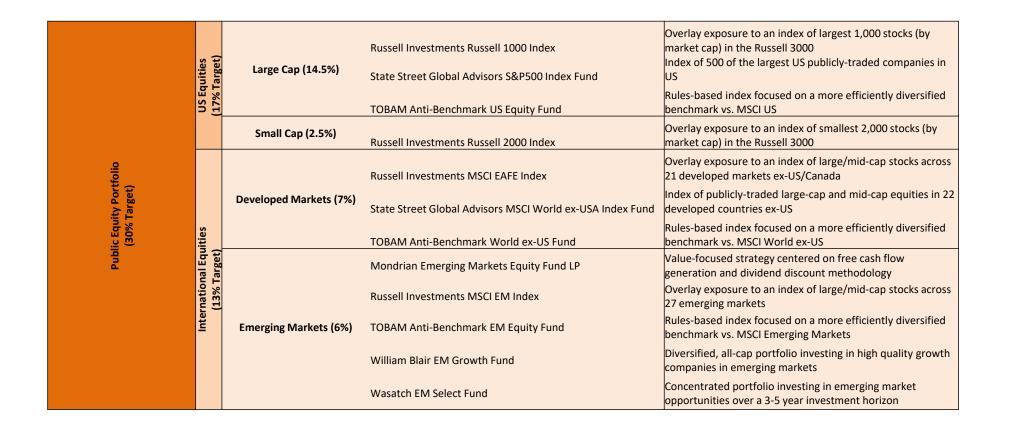
INVESTMENT MANAGER TOP 10

ASSETS UNDER MANAGEMENT AS OF SEPTEMBER 30, 2022

Manager	Market Value	Portfolio %
SSGA S&P 500 Flagship Fund	\$952,269,527.38	7.24%
Total Russell	\$860,587,882.73	6.55%
Total Pathway	\$773,833,413.45	5.89%
Total Tobam	\$773,194,597.08	5.88%
Total Ares	\$691,245,652.12	5.26%
Gramercy Funds Management	\$671,351,583.22	5.11%
Total Alcentra	\$574,570,213.54	4.37%
Total Golden Tree	\$572,638,551.51	4.36%
Total Zais	\$569,341,842.14	4.33%
Total Pinnacle	\$560,373,645.26	4.26%
Total	\$6,999,406,908.43	53.23%



PUBLIC EQUITY PORTFOLIO



San Bernardino County Employees' Retirement Association

GLOBAL EQUITY STATEGIES - NET

	Allocatio	on	Performance (%)					
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Total Equity	2,037,164,051	15.5	-6.4	-23.2	-19.2	2.9	3.4	4.3
MSCI AC World Index (Net)			-6.8	-25.6	-20.7	<u>3.7</u>	4.4	<u>7.3</u>
Over/Under			0.4	2.4	1.5	-0.8	-1.0	-3.0
Domestic Equity With Beta Overlay	2,035,030,907	15.5	-5.0	-24.1	-18.0	5.4	6.2	
Russell 3000 Index			<u>-4.5</u>	<u>-24.6</u>	<u>-17.6</u>	<u>7.7</u>	<u>8.6</u>	
Over/Under			-0.5	0.5	-0.4	-2.3	-2.4	
Domestic Equity	1,321,192,157	10.0	-5.2	-22.5	-15.8	6.2	6.1	4.2
Russell 3000 Index			-4.5	<u>-24.6</u>	<u>-17.6</u>	<u>7.7</u>	<u>8.6</u>	<u>11.4</u>
Over/Under			-0.7	2.1	1.8	-1.5	-2.5	-7.2
Tobam AB US Equity	367,724,700	2.8	-6.0 (79)	-18.8 (25)	-15.3 (38)	5.8 (53)		
Russell 3000 Index			<u>-4.5</u> (49)	<u>-24.6</u> (55)	<u>-17.6</u> (51)	<u>7.7</u> (29)		
Over/Under			-1.5	5.8	2.3	-1.9		
eV All US Equity Median			-4.5	-23.9	-17.4	6.0		
Large Cap Equity	953,216,874	7.2	-4.9 (58)	-23.9 (50)	-15.8 (42)	7.4 (33)	7.4 (41)	5.1 (99)
S&P 500 Index			<u>-4.9</u> (58)	<u>-23.9</u> (50)	<u>-15.5</u> (40)	<u>8.2</u> (23)	<u>9.2</u> (20)	<u>11.7</u> (18)
Over/Under			0.0	0.0	-0.3	-0.8	-1.8	-6.6
eV All US Equity Median			-4.5	-23.9	-17.4	6.0	6.6	10.0
SSgA S&P500	952,269,527	7.2	-4.9 (59)	-23.9 (50)	-15.8 (42)	8.0 (25)	7.8 (36)	7.9 (87)
S&P 500 Index			<u>-4.9</u> (58)	<u>-23.9</u> (50)	<u>-15.5</u> (40)	<u>8.2</u> (23)	<u>9.2</u> (20)	<u>11.7</u> (18)
Over/Under			0.0	0.0	-0.3	-0.2	-1.4	-3.8
eV All US Equity Median			-4.5	-23.9	-17.4	6.0	6.6	10.0
Russell US Large Cap Volatility	947,346	0.0						
Small Cap Equity	250,583	0.0						
Russell US Small Cap Volatility	250,583	0.0						



San Bernardino County Employees' Retirement Association GLOBAL EQUITY STATEGIES - NET

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Se	ptem	bei	<i>з</i> 0,	2022

	Allocatio	on			Performa	ormance (%)			
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	
International Equity With Beta Overlay	1,190,421,243	9.1	-7.1	-20.1	-19.2	0.1	0.4		
MSCI AC World ex USA index			<u>-9.8</u>	<u>-26.2</u>	<u>-24.8</u>	<u>-1.1</u>	<u>-0.3</u>		
Over/Under			2.7	6.1	5.6	1.2	0.7		
International Equity	715,971,894	5.4	-9.4	-24.8	-26.0	-3.6	-2.4	2.7	
MSCI AC World Index (Net)			<u>-6.8</u>	<u>-25.6</u>	<u>-20.7</u>	<u>3.7</u>	<u>4.4</u>	<u>7.3</u>	
Over/Under			-2.6	0.8	-5.3	-7.3	-6.8	-4.6	
International Developed	325,401,462	2.5	-9.5	-24.5	-26.2	-5.7	-3.8	5.9	
MSCI EAFE (Net)			<u>-9.4</u>	<u>-27.1</u>	<u>-25.1</u>	<u>-1.8</u>	<u>-0.8</u>	<u>3.7</u>	
Over/Under			-0.1	2.6	-1.1	-3.9	-3.0	2.2	
Russell International Volatility	16,582	0.0							
Tobam AB World Ex-US Equity	144,654,044	1.1	-11.2 (86)	-25.7 (27)	-27.4 (52)	-6.6 (98)			
MSCI AC World ex USA (Net)			<u>-9.9</u> (59)	<u>-26.5</u> (32)	<u>-25.2</u> (34)	<u>-1.5</u> (65)			
Over/Under			-1.3	0.8	-2.2	-5.1			
eV All ACWI ex-US Equity Median			-9.6	-28.9	-27.0	-0.8			
SSGA MSCI World Ex-US Equity	180,730,837	1.4							
MSCI AC World ex USA (Net)									
Over/Under									
eV All ACWI ex-US Equity Median									
International Emerging	390,570,431	3.0	-8.8	-24.5	-25.5	-3.4	-2.4	-0.4	
MSCI Emerging Markets (Net)			<u>-11.6</u>	<u>-27.2</u>	<u>-28.1</u>	<u>-2.1</u>	<u>-1.8</u>	<u>1.0</u>	
Over/Under			2.8	2.7	2.6	-1.3	-0.6	-1.4	
Mondrian	129,754,578	1.0	-12.5 (85)	-25.2 (34)	-26.0 (36)	-2.5 (66)	-2.2 (67)	-0.3 (94)	
MSCI Emerging Markets (Net)			<u>-11.6</u> (73)	<u>-27.2</u> (47)	<u>-28.1</u> (51)	<u>-2.1</u> (62)	<u>-1.8</u> (61)	<u>1.0</u> (69)	
Over/Under			-0.9	2.0	2.1	-0.4	-0.4	-1.3	
eV Emg Mkts Equity Median			-9.8	-27.4	-28.1	-1.2	-1.3	1.5	
Tobam	260,815,854	2.0	-6.8 (24)	-24.2 (27)	-25.3 (31)	-3.9 (80)	-2.3 (69)		
MSCI Emerging Markets (Net)			<u>-11.6</u> (73)	<u>-27.2</u> (47)	<u>-28.1</u> (51)	<u>-2.1</u> (62)	<u>-1.8</u> (61)		
Over/Under			4.8	3.0	2.8	-1.8	-0.5		
eV Emg Mkts Equity Median			-9.8	-27.4	-28.1	-1.2	-1.3		



GLOBAL DEBT STRATEGIES

Provide and interaction of the second o			Core Fixed Income		
Provide and standard and s					Prood based band market index of intermediate term investment grade bands in US
Purpleter Appleter Appleter Book constitution does an basis basis, structured revel, and basis benchmit does reveloped and basis basis and basis basis basis basis and basis			(2/0)	Russell investments bloomberg Barclays US Agg Bond TR Index	Broad-based bond market index of intermediate-term investment grade bonds in US
Page Notes Applie Office Cells trust LU (MA) Exclusion and the conduct of more dependencies of cells and subscription of the cells trust and subscription of thecells trust and trust and subscriptin trust and subscription of t				Apollo Credit Strategies Fund LP (MCA)	Long/short credit fund focused on capital structure arbitrage, defensive credit, stressed credit and distressed credit
Figure Addeximation (BC) (MAA) Bit Repart Addeximation (BC) (M		e		Apollo Offshore Credit Fund LTD (MCA)	Global credit fund focused on bank loans, structured credit, and bonds
Figure Addeximation (BC) (MAA) Bit Repart Addeximation (BC) (M				Bardin Hill Direct Portfolio (MCA)	Co-investments in event-driven/special situation and mispriced credit opportunities
Figure Addeximation (BC) (MAA) Bit Repart Addeximation (BC) (M		it) a			
Figure Addeximation (BC) (MAA) Bit Repart Addeximation (BC) (M		C 👸			
Figure Addeximation (BC) (MAA) Bit Repart Addeximation (BC) (M			Cradit Stratagias/		
Figure Addeximation (BC) (MAA) Bit Repart Addeximation (BC) (M		lec 2			
Figure 1 and a set of the state of the st		5 [.] 5		Golden Tree Distressed Debt Fund 2010	Fund focused on global distressed, restructuring and turnaround opportunities
Figure Addeximation (BC) (MAA) Bit Repart Addeximation (BC) (M		[] [] []	Strategies (13%)	GoldenTree Asset Management SMA	SMA with opportunistic relative-value approach to bonds, loans, structured credit, distressted debt and emerging markets
Figure 1 - State 1 - State 1 - State 1 - State 2 - St					
Waterlinkedy Capital Corp. (MCA) Waterlinked Capital Corp. (MCA)					
Waterfall Asse: Management SMA (MCA) Approte account focused on mid-sector high vield losis and bonds Media Media Management SMA (MCA) And investing in Exogene inforce and parkets revised Mode Asset bond market index of investment grade det from 24 local currency markets ex-V3D More than investment (factors field) Aggregate ex US thelefool More thanks in field investing in Exogene inforce intervesting intervesting in Exogene information intervesting in Exogene inforce intervesting				Manulife Asset Management SMA	Long/short SMA specializing in securitized assets (commercial and residential MBS and agency derivatives)
Partial Victoria Fund IV (Victor) International Core International Cain Caption Limited SMA Cai				Waterfall Ready Capital Corp. (MCA)	Publicly traded REIT specializing in small balance commercial real estate loans
Provide a construction of					
Image: state in the state is in the sta					Fund investing in ABS, primarily residential whole loans originated on a primary or secondary basis
Altertra Linuted SMA Activity Sinter Burgean Add Loger Control Sect Lending Fund Activity Sinter Burgean Add Loger Systems and Loger Syste					
Alterna Suropean Orient Lending Fund Alterna Suropean Orient Fund Credit (1)37 Alterna Suropean Orient Fund Credit (1)37 Alterna Suropean Orient Fund Credit (1)37 Alterna Suropean Orient Fund Alterna Suropean Orient Fund Credit (1)37 Alterna Suropean Orient Fund Credit (1)4 Alterna Suropean Orient Fund Alterna Suropean Orient			(0%)		
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Narathon Asset Management SMA Marathon Asset Management SMA Marathon CD Equity Fund Marathon European Credit Opportunity Fund II Marathon European Credit Opportunity Fund II Marathon Structured Product Strategies Fund Marathon Structured Product Strategies Fund II Marathon Structured Product Strategies Fund II Fund focused on private asset-backed secured debt across multiple sectors Finistere EM Debt Total Return Fund Gramercy Datased Agentian Fund III (MCA) Gramercy Distressed Agentian Fund III (MCA) Gramercy Stratesge Opportunity Fund II (MCA) Gramercy Distressed Agentian Fund II Private (MCA) Gramercy Stratesge Opportunity Fund II	S				
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Ashmore Emerging Markets MCA SMA investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies. Finisterre EM Debt Total Return Fund Fund focused on an all-weather strategy across the cycle in emerging markets Gramercy Capital Solutions Fund (MCA) 2018 fund engaged in emerging markets corporate direct lending Gramercy Capital Solutions Fund II (MCA) 2021 fund engaged in emerging markets corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in Argentina-focused corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in opportunitic Argentina focused sovereign positions Gramercy Distressed Opportunity Fund II (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund III (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit related to Venezuela Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view	U	Ĕ			barciays regulatory capital risk transfer on global (70% 05) large cap corporate KCP
Ashmore Emerging Markets MCA SMA investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies. Finisterre EM Debt Total Return Fund Fund focused on an all-weather strategy across the cycle in emerging markets Gramercy Capital Solutions Fund (MCA) 2018 fund engaged in emerging markets corporate direct lending Gramercy Capital Solutions Fund II (MCA) 2021 fund engaged in emerging markets corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in Argentina-focused corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in opportunitic Argentina focused sovereign positions Gramercy Distressed Opportunity Fund II (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund III (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit related to Venezuela Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view		t C		Marathon Asset Management SMA	SMA focused on opportunistic global stressed and distressed credit, restructured real estate, and credit-related real assets
Ashmore Emerging Markets MCA SMA investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies. Finisterre EM Debt Total Return Fund Fund focused on an all-weather strategy across the cycle in emerging markets Gramercy Capital Solutions Fund (MCA) 2018 fund engaged in emerging markets corporate direct lending Gramercy Capital Solutions Fund II (MCA) 2021 fund engaged in emerging markets corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in Argentina-focused corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in opportunitic Argentina focused sovereign positions Gramercy Distressed Opportunity Fund II (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund III (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit related to Venezuela Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view		l l l		Marathon CLO Equity Fund	Legacy risk retention vehicle that maintains an economic interest in Marathon issued CLO equity
Ashmore Emerging Markets MCA SMA investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies. Finisterre EM Debt Total Return Fund Fund focused on an all-weather strategy across the cycle in emerging markets Gramercy Capital Solutions Fund (MCA) 2018 fund engaged in emerging markets corporate direct lending Gramercy Capital Solutions Fund II (MCA) 2021 fund engaged in emerging markets corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in Argentina-focused corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in opportunitic Argentina focused sovereign positions Gramercy Distressed Opportunity Fund II (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund III (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit related to Venezuela Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view		ar			·
Ashmore Emerging Markets MCA SMA investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies. Finisterre EM Debt Total Return Fund Fund focused on an all-weather strategy across the cycle in emerging markets Gramercy Capital Solutions Fund (MCA) 2018 fund engaged in emerging markets corporate direct lending Gramercy Capital Solutions Fund II (MCA) 2021 fund engaged in emerging markets corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in Argentina-focused corporate direct lending Gramercy Distressed Argentina Fund IV Private (MCA) Fund engaged in opportunitic Argentina focused sovereign positions Gramercy Distressed Opportunity Fund II (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund III (MCA) Diversified emerging markets hedge fund Gramercy Distressed Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Venezuelan sovereign-focused fund Gramercy Venezuela Opportunity Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit related to Venezuela Gramercy Venezuela Special Situations Fund (MCA) Performing and opportunistic credit in public and private markets weighted with a top-down view		, Τ T			
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PGIM Emerging Market Debt Opportunities Fund Fund investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies.					
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San Bernardino County Employees' Retirement Association GLOBAL EQUITY STATEGIES - NET

	Allocatio	n			Performa	ance (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Global Fixed Income With Beta Overlay	4,695,165,067	35.7	-1.7	-4.8	-2.9	5.5	4.3	
Blmbg. Global Aggregate			<u>-6.9</u>	<u>-19.9</u>	<u>-20.4</u>	<u>-5.7</u>	<u>-2.3</u>	
Over/Under			5.2	15.1	17.5	11.2	6.6	
Total Fixed	3,717,365,067	28.3	-1.1	-4.8	-2.9	3.7	3.8	5.6
Blmbg. U.S. Aggregate Index			-4.8	<u>-14.6</u>	<u>-14.6</u>	<u>-3.3</u>	<u>-0.3</u>	<u>0.9</u>
Over/Under			3.7	9.8	11.7	7.0	4.1	4.7
U.S. Credit Strategies	1,574,243,435	12.0	0.4 (1)	-4.0 (3)	-1.4 (1)	7.4 (1)	6.5 (1)	7.1 (1)
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index			<u>0.3</u> (1)	<u>-8.9</u> (5)	<u>-8.2</u> (5)	<u>0.7</u> (4)	<u>2.3</u> (1)	<u>3.8</u> (3)
Over/Under			0.1	4.9	6.8	6.7	4.2	3.3
eV Global Credit Fixed Inc Median			-5.2	-19.0	-19.1	-4.1	-0.5	1.4
Stone Tower Offshore Credit (Apollo)	287,638,662	2.2	1.0	-3.1	-2.0	4.8	4.5	5.6
Beach Point Capital (Formerly Post)	236,778,369	1.8	1.0	-4.3	0.0	8.3	7.2	8.7
Mackay / Gold Coast	45,202,955	0.3	-0.3	-14.5	-13.9	-0.4	1.4	4.0
Stone Tower Credit (Apollo)	132,143,261	1.0	1.2	0.6	2.5	11.5	9.8	7.7
Gold Coast Capital IV	93,819,211	0.7	-1.0	-6.7	-6.7	0.8	2.8	
Waterfall Asset Management	48,788,061	0.4	-6.6	-21.8	-11.8	1.6	5.9	
Waterfall Victoria	80,982,449	0.6	-0.7	1.3	3.1	5.1	7.0	
KAYNE ANDERSON BDC, LLC	55,722,507	0.4	1.5	17.9	20.9			
Golden Tree Asset Management	569,106,312	4.3	-0.3	-6.7	-4.2	9.8	8.5	9.9

San Bernardino County Employees' Retirement Association GLOBAL DEBT STRATEGIES - NET

	Allocation Performance (%)							
	Market	% of	3 Mo	YTD	1 Yr	3 Yrs	5 Yrs	10 Yrs
	Value (\$)	Portfolio	(%)	(%)	(%)	(%)	(%)	(%)
Non-U.S. Fixed Income Composite	2,143,121,632	16.3	-2.1	-5.3	-3.8	1.5	2.1	4.7
Blmbg. Global Aggregate Ex USD			<u>-8.8</u>	-23.9	-24.8	<u>-7.8</u>	<u>-4.0</u>	<u>-2.4</u>
Over/Under			6.7	18.6	21.0	9.3	6.1	7.1
Non-U.S. Credit Composite	1,253,682,629	9.5	-2.0	-4.0	-0.3	4.3	4.9	6.8
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u>	<u>-27.2</u>	<u>-28.8</u>	<u>-6.3</u>	<u>-4.3</u>	<u>0.6</u>
Over/Under			4.7	23.2	28.5	10.6	9.2	6.2
Marathon/Gold Coast	227,221,751	1.7	0.4	5.0	8.6	8.7	10.4	10.0
Halcyon Asset Management	214,069,959	1.6	-3.0 (7)	-2.2 (2)	0.7 (1)	5.7 (1)	5.0 (1)	
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u> (72)	<u>-27.2</u> (89)	<u>-28.8</u> (89)	<u>-6.3</u> (86)	<u>-4.3</u> (85)	
Over/Under			3.7	25.0	29.5	12.0	9.3	
eV Global Credit Fixed Inc Median			-5.2	-19.0	-19.1	-4.1	-0.5	
Cairn Composite	237,820,705	1.8	-4.2 (24)	-3.7 (3)	-2.4 (2)	3.1 (1)	3.4 (1)	4.4 (2)
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u> (72)	<u>-27.2</u> (89)	<u>-28.8</u> (89)	<u>-6.3</u> (86)	<u>-4.3</u> (85)	<u>0.6</u> (80)
Over/Under			2.5	23.5	26.4	9.4	7.7	3.8
eV Global Credit Fixed Inc Median			-5.2	-19.0	-19.1	-4.1	-0.5	1.4
Alcentra - KT1	449,828,130	3.4	-1.9	-11.6	-5.8	2.6	4.1	
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u>	<u>-27.2</u>	<u>-28.8</u>	<u>-6.3</u>	<u>-4.3</u>	
Over/Under			4.8	15.6	23.0	8.9	8.4	
Alcentra SP1 - KT1	955,453	0.0	3.8	11.9	81.0	-16.7		
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u>	<u>-27.2</u>	<u>-28.8</u>	<u>-6.3</u>		
Over/Under			10.5	39.1	109.8	-10.4		
Alcentra SP2 - KT1	16,041,935	0.1	-10.1	1.6	1.6	-0.5	-3.6	
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u>	<u>-27.2</u>	<u>-28.8</u>	<u>-6.3</u>	<u>-4.3</u>	
Over/Under			-3.4	28.8	30.4	5.8	0.7	
Alcentra SP3 - KT1	30,127,425	0.2	-13.7	-13.6	-10.5	1.4	2.4	
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u>	<u>-27.2</u>	<u>-28.8</u>	<u>-6.3</u>	<u>-4.3</u>	
Over/Under			-7.0	13.6	18.3	7.7	6.7	
Alcentra SP4 - KT1	77,617,271	0.6	9.1	13.6	14.1	12.4		
ICE BofA Euro High Yield Constrained TR			<u>-6.7</u>	<u>-27.2</u>	<u>-28.8</u>	<u>-6.3</u>		
Over/Under			15.8	40.8	42.9	18.7		



San Bernardino County Employees' Retirement Association

	Allocatio	n			Performa	ıce (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Emerging Markets Debt Composite	889,439,003	6.8	-2.3 (16)	-7.6 (3)	-9.0 (3)	-2.4 (16)	-2.1 (42)	1.1 (29)
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified			<u>-4.6</u> (70)	<u>-21.3</u> (66)	<u>-22.5</u> (65)	<u>-7.1</u> (78)	<u>-3.2</u> (68)	<u>-0.6</u> (68)
Over/Under			2.3	13.7	13.5	4.7	1.1	1.7
eV All Emg Mkts Fixed Inc Median			-4.1	-19.1	-20.5	-5.6	-2.5	0.3
Ashmore Emerging Markets Liquid Investments	118,486,539	0.9	-6.8 (96)	-25.1 (87)	-26.2 (86)	-8.6 (95)	-4.2 (84)	
JP Morgan GBI - EM Global Diversified Index			<u>-4.7</u> (71)	<u>-18.6</u> (45)	<u>-20.6</u> (52)	<u>-7.1</u> (78)	<u>-3.9</u> (80)	
Over/Under			-2.1	-6.5	-5.6	-1.5	-0.3	
eV All Emg Mkts Fixed Inc Median			-4.1	-19.1	-20.5	-5.6	-2.5	
Gramercy Funds Management LLC	671,351,583	5.1	-1.0 (3)	-1.7 (2)	-1.7 (2)	-0.6 (5)	-1.9 (39)	
JP Morgan ELMI+ TR USD			<u>-4.0</u> (48)	<u>-13.4</u> (9)	<u>-14.2</u> (9)	<u>-4.0</u> (30)	<u>-2.4</u> (47)	
Over/Under			3.0	11.7	12.5	3.4	0.5	
eV All Emg Mkts Fixed Inc Median			-4.1	-19.1	-20.5	-5.6	-2.5	
PGIM Fixed Income	99,600,880	0.8	-5.8 (89)	-13.4 (9)	-18.8 (35)	-1.3 (8)	-0.2 (18)	
50% JPM EMBI Global Diversified/ 50% JPM GBI-EM Global Diversified			<u>-4.6</u> (70)	<u>-21.3</u> (66)	<u>-22.5</u> (65)	<u>-7.1</u> (78)	<u>-3.2</u> (68)	
Over/Under			-1.2	7.9	3.7	5.8	3.0	
eV All Emg Mkts Fixed Inc Median			-4.1	-19.1	-20.5	-5.6	-2.5	

September 30, 2022

ABSOLUTE RETURN (ALPHA POOL)

		Apollo Global SMA (MCA)	Credit focused separate account investing in bespoke credit opportunities		
				Apollo Accord+ (MCA)	2021 credit fund focused on opportunities across structured credits, special situations, performing credit and origination
		Ares ECO Master Fund II, LTD (MCA)	Corporate debt investments in non-investment grade companies, with a focus on senior bank debt		
		Birch Grove Credit Strategies Fund	All-weather approach to credit/portfolio construction across capital structure and across all market cycles		
	Core & Credit	Corrum Capital Global Credit Opportunities Fund	Yield-paying principal-protected transactions with collateralization by hard and soft assets		
olute Jpha 7% Tã		Corrum Capital GCO Co-Invest Fund	Yield-paying principal-protected transactions with collateralization by hard and soft assets		
Abs. (A	(7%)	State Street Global Advisors Short Term Treasury Strategy SMA	Short term treasury vehicle		
		Zais Group SMA	Long only structured credit SMA that focuses on stable cash flows and low duration, includes student housing		
		Zais Opportunity Fund, LTD	Diversified structured credit fund with the abilty to use hedges and derivative strategies		
		Zais Zephyr A-8, LP	Closed-end fund focused on CLO equity post risk retention requirements		
		Zais Zephyr A-9, LP	2022 closed-end fund focused on CLO equity post risk retention requirements		

San Bernardino County Employees' Retirement Association ALPHA POOL STRATEGIES - NET

	Allocatio	Allocation				Performance (%)					
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)			
Alpha Pool Composite	1,802,214,555	13.7	0.6	-5.3	-3.2	2.2	3.4	4.4			
91 Day T-Bill + 3%			<u>1.2</u>	<u>2.9</u>	<u>3.6</u>	<u>3.6</u>	<u>4.2</u>	<u>3.7</u>			
Over/Under			-0.6	-8.2	-6.8	-1.4	-0.8	0.7			
Alpha Liquidity (Ssga)	207,456,422	1.6	0.4	0.3	0.3	0.7	1.3	0.8			
Apollo Global Management	2,201,275	0.0	0.6	-18.1	18.3	13.0	14.1				
Ares Eco Master Fund II	534,169,575	4.1	-0.4	-8.9	-7.9	2.4	2.4				
Birch Grove Credit Strategies	200,647,233	1.5	-0.1	-5.6	-3.9	5.4	6.1				
Corrum Capital	206,526,544	1.6	0.0	-2.2	2.2	-5.1	-0.4	2.9			
Zais	130,877,985	1.0	-0.1	-8.8	-8.6	-1.0	0.2	3.8			
Zais Group Invest Advisors	364,417,246	2.8	5.1	-3.6	-0.6	5.6	5.6	7.5			
Zais Zephyr 8	50,193,582	0.4	-2.8	-6.2	-2.4	6.9					
Zais Zephyr 9	23,853,029	0.2	5.8								
Apollo Accord+	81,871,664	0.6	-5.7								

PRIVATE ASSETS

Exhibit A: Page 40

		Adams Street SMA (MCA)	Global investment opportunities in venture, growth equity, buyout, and private credit
		Aberdeen Standard Co-Investment Fund II	SMA investing in private debt and equity opportunities in credit, energy, infrastructure, and growth equity
		Industry Ventures Arrowhead LP (MCA)	Fund investing in direct and secondary co-investments across the venture and buyout sectors
	Diversified	Partners Group SMA (MCA)	Global SMA in private markets; primarily in private equity but also includes infrastructure and real estate
		Pathway Capital SMA (MCA)	Private equity investments in primary/secondary funds and co-investment opportunities
		Pathway PE Fund VII LLC	Fund of funds focused on mid/large buyout funds in the US
		SL Capital European Strategic Partners 2004	2004 fund of funds investing in European-focused primary funds
-		SL Capital European Strategic Partners 2008	2008 fund of funds investing in European-focused primary funds
		Aurora Equity Partners IV	US middle market focused buyout fund
		Industry Ventures Tech Buyout, LP (MCA) Industry Ventures Tech Buyout II, LP (MCA)	2018 fund investing in small high growth tech companies 2022 fund investing in small high growth tech companies
		Kayne Partners Fund IV LP (MCA)	2022 Juno Investing in animaling i giver tech companies 2016 fund investing in middle market growth equity opportunities in US companies
		Kayne Partners Fund V LP (MCA)	2010 fund investing in indule market growth equity opportunities in US companies 2020 fund investing in middle market growth equity opportunities in US companies
	Buyout Funds	Kayne Growth Co-Investments (MCA)	Co-orient and an end of the second seco
		Partners Group Direct Equity 2016 (MCA)	Global portfolio of direct private equity deals
		Partners Group Direct Equity Fund IV (MCA)	Global portfolio of direct private equity deals (previously Direct Equity 2019)
		Partners Group Direct Investments 2012 LP (MCA)	Global portfolio of direct private equity deals
		Waterfall PE Co-Investments (MCA)	Co-investment opportunities in US lower middle market specialty finance companies
		Waterfall Sentinel Fund (MCA)	2019 fund investing in US lower middle market specialty finance focused companies
		Industry Ventures Direct LP (MCA)	2016 fund investing in venture capital opportunities
		Industry Ventures Direct II LP (MCA)	2019 fund investing in venture capital opportunities
		Industry Ventures Direct III LP (MCA)	2021 fund investing in venture capital opportunities
		Industry Ventures Fund V LP (MCA)	Fund of funds focused on small but well-established US venture capital funds
		Industry Ventures Fund VI LP (MCA)	Fund of funds focused on small but well-established US venture capital funds
quity		Industry Ventures Partnership Holdings II LP (MCA)	2011 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
Private Equity		Industry Ventures Partnership Holdings III LP (MCA)	2013 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
Pri	Venture Funds	Industry Ventures Partnership Holdings III-A LP (MCA)	2014 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
		Industry Ventures Partnership Holdings IV LP (MCA)	2016 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
		Industry Ventures Partnership Holdings V LP (MCA)	2019 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
		Industry Ventures Partnership Holdings VI LP (MCA)	2021 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
		Industry Ventures Special Opportunities Fund II-A LP (MCA) Industry Ventures Tech Buyout, LP (MCA)	2016 fund investing in venture capital opportunistic transactions in the secondary market 2018 fund investing in small high growth tech companies
		Aberdeen Standard Secondary Opportunities Fund IV	2020 fund investing in secondary purchases of PE fund of funds and other complex transactions
		Industry Ventures Secondary VII LP (MCA)	2013 fund investing in secondary transactions in venture capital opportunities
		Industry Ventures Secondary VIII LP (MCA)	2017 fund investing in secondary transactions in venture capital opportunities
		Industry Ventures Secondary IX LP (MCA)	2021 fund investing in secondary transactions in venture capital opportunities
		Lexington Capital Partners VI	Fund of funds focused mainly on buyout funds in US and Western Europe
	Secondary Funds	Lexington Capital Partners VII	Fund of funds focused mainly on buyout funds in US and Western Europe
	secondary runus	Lexington Middle Market Investors I	Fund of funds focused on secondary interest in US middle-market buyouts
		Lexington Middle Market Investors II	Fund of funds focused on secondary interest in US middle-market buyouts
		Partners Group Secondary 2008 LP	Fund of funds focused on global secondaries in private equity funds
		SL Capital Secondary Opportunities Fund I	Fund of funds focused on secondary purchase of mid and large-cap buyout funds in Europe
		SL Capital Secondary Opportunities Fund II	Fund of funds focused on secondary purchase of mid and large-cap buyout funds in Europe
		SL Capital Secondary Opportunities Fund III Kayne Anderson Energy Fund VII LP	Fund of funds focused on secondary purchase of mid and large-cap buyout funds in Europe 2017 fund investing in US upstream energy companies with a focus on growing enterprise value
	Sector Specific Funds	Kayne Anderson Private Energy Income Fund II (MCA)	2017 fund investing in US upstream energy companies with a focus on generating income from large asset acq/development
		Tennenbaum Energy Opportunities Fund LP (MCA)	2015 fund investing in senior secured notes and first/second lien debt of US companies in the energy sector
	Direct Lending	Ares Private Credit Solutions Fund (MCA)	Junior debt investments in large private companies
		Ares Private Credit Solutions Fund 2 (MCA)	Junior debt investments in large private companies
		Irradiant Renewables Opportunities Partners	2020 fund investing in the equity and debt of renewable power generating companies
		Tennenbaum Direct Lending Fund VIII, LLC (MCA)	Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class)
		Tennenbaum Direct Lending Fund IX, LLC (MCA)	Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class)
		Tennenbaum Waterman Fund LP (MCA)	Senior 11 loans to middle-market companies, primarily in the US
Ħ		Ares ICOF II (MCA) Ares ICOF III (MCA)	Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits
Debt		Ares SMA (MCA) Ares SMA (MCA)	structured credit in LLD Venicies and private asset-backed credits Separate account in liquid credit and income-focused opportunities
e		Ares Special Situations Fund IV (MCA)	Soloal distressed debt and special situations
Privat		Catalyst Fund LP II	2006 fund investing in Canadian stressed/distressed investment opportunities
£	- 11 fr	Crestline Portfolio Financing Fund	Financing to late-stage private equity funds and GPs
	Credit/Distressed/	Crestline Portfolio Financing Fund II	Financing to late-stage private equity funds and GPs
	Opportunistic/ Special Situations	Irradiant CLO Partners II (MCA)	2020 fund investing in CLOs issued by Kayne Anderson
	special Situations	Irradiant Solutions Fund (MCA)	2017 fund investing in special situation opportunities in US credit
		Siguler Guff Distressed Opportunity Fund III LP	2009 fund of funds investing in US and International opportunistic credit funds and co-investments
		Tennenbaum Co-Investments (MCA)	Co-investment opportunities driven from Tennenbaum funds
		Tennenbaum Opportunities Fund V LLC (MCA)	Deep value control positions in distressed companies
		Tennenbaum Opportunities Fund VI LLC (MCA) Tennenbaum Special Situations Fund IX LLC (MCA)	Deep value control positions in distressed companies Distressed and rescue-financing in mid-market companies in NA





REAL ESTATE PORTFOLIO

			348 West Hospitality Lane	SBCERA headquarters
	(%9		Invesco Real Estate Asia Fund	Asia-focused open-ended core real estate fund
	(2.5		Kayne Anderson Real Estate Debt III (MCA)	2018 fund investing in first-lien US residential mortgage debt
	itate		Kayne Anderson Real Estate Debt IV (MCA)	2020 fund investing in first-lien US residential mortgage debt
	al Es	Core Real Estate	Marathon Real Estate Debt Fund	Fund investing in senior secured first mortgage loans in the US
	Core Real Estate (2.5%)		PGIM Real Estate Capital VI LP	European (UK and Germany focused) mezzanine lending fund for value-add real estate projects
	Cor		PGIM Real Estate Capital VII LP	European (UK and Germany focused) mezzanine lending fund for value-add real estate projects
÷			PRISA II	US core-plus open-ended real estate equity fund with low leverage
argei			Apollo Real Estate Fund II LP (MCA)	2015 fund investing in value-add US real estate opportunities
% T8			Apollo Real Estate Fund III LP (MCA)	2020 fund investing in value-add US real estate opportunities
Estate Portfolio (5% Target)			Bryanston Retail Opportunity	2004 fund investing in value-add US real estate opportunities in the retail sector
rtfol			Fortress Japan Opportunity Fund II	2011 fund investing in value-add Japanese real estate opportunities
e Po	5%)		Invesco US Real Estate VI	2020 fund investing in value-add US real estate opportunities
stat	e (2.	Enhanced Real	Kayne Anderson Real Estate Partners V LP (MCA)	2017 fund investing in value-add US real estate opportunities
Real E	Non-Core Real Estate (2.5%)	Estate/ High Return	Kayne Anderson Real Estate Partners VI LP (MCA)	2021 fund investing in value-add US real estate opportunities
~	EalE	ingii ketuini	Morgan Stanley RE Fund V International	2005 fund investing in value-add International real estate opportunities
	re Re		Oaktree RE Opportunities Fund V	Diversified value-add US real estate equity fund
	Col		PRISA III	Value-add US real estate equity fund
	Nor		Starwood Global Opportunity Fund VII-A	Opportunistic investments in RE operating companies, RE debt, residential land and international opportunities
			Walton Street Real Estate Fund V	Value-add US real estate fund
		Real Estate Secondaries	Partners Group Real Estate Secondary 2013 A LP (MCA)	Global private real estate fund interests purchased on the secondary market at discounts to intrinsic value
			Partners Group Real Estate Secondary 2017 A LP (MCA)	Global private real estate fund interests purchased on the secondary market at discounts to intrinsic value



REAL ASSETS PORTFOLIO

ortfolio ;et)	Commodities (4% Target)	Energy Spectrum Partners VI LP Pinnacle Natural Resources LP Pinnacle Physicals & Financing LTD	2011 fund investing in US middle market midstream energy sector Commodity fund of funds with both directional and relative value exposure across multiple commodities Multi-manager fund focused on physical commodities (livestock, metals, energy and agriculture)
Real Asset Portfolio (6% Target)	Infrastructure (2% Target)	Kayne Anderson MLP Strategy (MCA)	Separate account opportunistically investing in publicly traded US MLP securities
	Timber (0% Target)	Hancock Timberland VIII LP Domain Environmental Investments II LP	Global strategy predicated on intensive value-add forest management; diversified across species, age, end use and geography Mitigation banking (natural wetlands) and conservation banking (natural habitats for threatened/endangered species)



San Bernardino County Employees' Retirement Association

ALTERNATIVES - NET

	Allocatio	on			Perform	nance (%)		
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)
Private Equity Composite	2,557,061,830	19.4	-4.7	0.4	7.8	20.3	18.1	15.6
C A Global All PE (Qtr Lag)			-4.5	<u>-0.5</u>	<u>4.4</u>	<u>19.4</u>	<u>17.2</u>	<u>14.9</u>
Over/Under			-0.2	0.9	3.4	0.9	0.9	0.7
Russell 3000 Index			<u>-4.5</u>	<u>-24.6</u>	<u>-17.6</u>	<u>7.7</u>	<u>8.6</u>	<u>11.4</u>
Over/Under			-0.2	25.0	25.4	12.6	9.5	4.2
C A US All PE (1 Qtr Lag)			<u>-3.4</u>	<u>2.9</u>	<u>8.8</u>	<u>19.9</u>	<u>17.7</u>	<u>15.5</u>
Over/Under			-1.3	-2.5	-1.0	0.4	0.4	0.1
Real Estate Composite	602,998,746	4.6	1.1	12.5	20.5	11.0	9.4	9.3
NCREIF Property Index 1 Qtr. Lag			<u>3.2</u>	<u>15.4</u>	<u>21.5</u>	<u>10.2</u>	<u>8.9</u>	<u>9.7</u>
Over/Under			-2.1	-2.9	-1.0	0.8	0.5	-0.4
Real Assets Composite	643,798,865	4.9	1.8	9.4	16.5	14.7	9.3	5.8
Real Assets Custom Blend			<u>-8.6</u>	<u>-0.4</u>	<u>-0.6</u>	<u>7.9</u>	<u>4.9</u>	<u>1.5</u>
Over/Under			10.4	9.8	17.1	6.8	4.4	4.3
Timber	9,063,135	0.1	0.2	28.7	28.4	6.2	2.6	3.7
NCREIF Timberland 1 Qtr. Lag			<u>1.9</u>	<u>9.9</u>	<u>12.0</u>	<u>5.0</u>	<u>4.3</u>	<u>5.7</u>
Over/Under			-1.7	18.8	16.4	1.2	-1.7	-2.0
Infrastructure	73,268,261	0.6	0.7	8.2	8.0	14.6	7.0	4.9
Russell 3000 Index			<u>-4.5</u>	<u>-24.6</u>	<u>-17.6</u>	<u>7.7</u>	<u>8.6</u>	<u>11.4</u>
Over/Under			5.2	32.8	25.6	6.9	-1.6	-6.5
Commodities	561,467,468	4.3	1.6	8.3	16.9	15.8	13.2	6.2
S&P GSCI Composite TR Index			<u>-10.3</u>	<u>21.8</u>	<u>23.6</u>	<u>12.2</u>	<u>7.8</u>	<u>-3.9</u>
Over/Under			11.9	-13.5	-6.7	3.6	5.4	10.1



APPENDIX: PERFORMANCE SUMMARY

Real Estate Real Assets Private Equity



PROPRIETARY & CONFIDENTIAL

REAL ESTATE PERFORMANCE

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Cumulative Distributions	Valuation	TVPI Ratio	IRR
American Realty Advisors	1996	128,009,773	128,009,773	0	278,446,295	0	2.18	6.89%
Tuckerman Multi-Family Development Fund III	2002	10,000,000	10,219,311	0	16,939,699	0	1.66	26.67%
CBRE Strategic Partners III	2003	10,000,000	10,000,000	0	12,698,783	0	1.27	8.02%
Prudential PRISA III	2003	75,000,000	68,971,338	6,028,662	71,456,230	75,306,626	2.02	18.20%
Walton Street Real Estate Fund IV, LP	2003	10,000,000	9,770,890	229,110	15,939,604	48,013	1.64	10.71%
Bryanston Retail Opportunity Fund, L.P.	2004	20,000,000	8,228,165	11,771,835	22,859,093	16,522,058	4.79	70.74%
Prudential PRISA II	2004	140,000,000	140,000,000	0	62,663,169	218,290,273	1.92	9.14%
RREEF America REIT III	2004	20,000,000			23,658,675	0	1.15	3.00%
BlackRock Diamond Property Fund	2005	25,000,000			15,233,347	0	0.61	-9.31%
CBRE Strategic Partners IV	2005	40,000,000			2,609,685	0	0.07	-27.76%
INVESCO Real Estate Fund I	2005	10,000,000			10,015,656	0	1.08	1.54%
LaSalle Income & Growth Fund IV	2005	20,000,000	, ,		13,482,024	0	0.69	-5.51%
North Haven Real Estate Fund V International	2005	27,500,000	, ,		32,219,306	1,117,378	1.21	6.82%
Prologis Japan Fund	2005	25,290,819			33,126,118	0	1.31	4.81%
Tri Continental Capital VII	2005	23,000,000			3,168,198	429,649	0.16	-14.95%
American Realty Value Add	2006	13,125,215			32,080,321	0	2.44	10.92%
Beacon Capital Strategic Partners IV, L.P.	2006	38,000,000			31,424,699	0	0.83	-3.26%
Fillmore East Fund	2006	25,000,000	· · ·		20,777,177	0	0.66	-9.78%
Starwood Capital Hospitality Fund I-2	2006	30,000,000			27,879,087	2,557,741	1.01	0.19%
Starwood Opportunity Fund VII - A	2006	25,000,000	· · ·		19,517,190	579,052	0.80	-2.36%
Walton Street Real Estate Fund V, LP	2006	40,000,000	· · ·		27,259,862	1,778,939	0.73	-3.46%
Beacon Capital Strategic Partners V, L.P.	2007	18,000,000			11,174,695	0	0.62	-7.87%
Invesco Asian Real Estate Partners II (USD), LP	2007	20,000,000			11,465,147	0	1.36	7.52%
Invesco High Yield Debt Fund I	2007	20,000,000	· · ·		8,567,605	0	0.43	-35.57%
Square Mile Partners II	2007	19,831,232	· · ·		5,311,330	0	0.27	-19.11%
Fillmore West Fund	2008	20,000,000			21,175,799	0	1.08	1.14%
Square Mile Partners III LP	2008	20,000,000			28,756,613	121,135	1.46	11.53%
Starwood Debt Fund II. LP	2008	20,000,000			21,912,511	121,100	1.40	6.45%
Structured Real Estate III, LP (Guggenheim)	2008	20,000,000			16,320,664	0	0.82	-4.99%
Bryanston Real Estate Opportunity Fund II, L.P.	2009	20,000,000	, ,		11,851,333	0	1.38	10.20%
Fortress Japan Opportunity Fund II	2009	21,739,130			24,047,944	3,737,709	9.05	25.45%
Oaktree Real Estate Opportunities V	2012	25,000,000		· · ·	39,287,074	605,010	9.05 1.56	12.79%
Invesco Real Estate Asia Fund	2012	51,732,500			15,338,807	66,449,208	1.50	6.06%
Partners Group RE Secondary 2013 (USD) A	2014						1.51	8.57%
Apollo US Real Estate Fund II	2014 2015	65,000,000 20,000,000			33,486,707 7,773,158	37,057,048 16,928,999	1.43	8.57% 11.87%
Pramerica Real Estate Capital VI	2015	20,000,000	, ,	, ,	· · ·	, ,	1.04	4.26%
	2018	, ,	· · ·		14,775,416	9,454,622		4.20%
Kayne Anderson Real Estate Fund V, L.P.		20,000,000	, ,		11,932,884	18,595,659	1.71	
Partners Group RE Secondary 2017 (USD) A	2017	75,000,000			118,130	63,568,438	1.41	12.13%
Kayne Anderson Real Estate Debt III	2018	20,000,000			16,393,928	7,947,304	1.25	11.29%
Apollo US Real Estate Fund III	2021	50,000,000			1,936,780	23,521,764	1.33	45.36%
Kayne Anderson Real Estate Debt IV	2021	30,000,000	, ,	· · ·	5,916,294	10,036,777	1.05	7.35%
Kayne Anderson Real Estate Fund VI	2021	20,000,000			0	4,508,663	1.07	14.49%
Pramerica Real Estate Capital VII	2021	52,682,111	, ,		0	12,728,421	0.80	-32.13%
Total: San Bernardino		1,408,743,790	1,197,438,711	191,348,852	1,080,997,040	591,890,487	1.38	4.91%



REAL ASSETS PERFORMANCE

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Cumulative Distributions	Valuation	TVPI Ratio	IRR
Hancock Timberland VII	2005	90,000,000	90,000,000	0	101,142,900	0	1.12	1.02%
Hancock Timberland VIII	2006	40,000,000	40,000,000	0	27,351,925	18,848,088	1.15	1.16%
Highstar Capital III, L.P.	2007	60,000,000	59,119,119	880,881	63,302,361	0	1.07	0.87%
RREEF North American Infrastructure Fund	2007	50,000,000	50,000,000	0	55,238,754	0	1.09	12.09%
Timbervest Partners II, L.P.	2007	50,000,000	50,000,000	0	51,855,967	0	1.04	0.38%
Pinnacle Natural Resources Offshore Fund Ltd.	2008	105,000,000	105,000,000	0	0	201,448,854	1.92	7.69%
Timbervest Environmental Investments II, L.P.	2008	30,000,000	30,000,000	0	20,414,831	6,105,047	0.88	-1.64%
Pinnacle Physicals and Financing Master, Ltd	2009	200,000,000	180,815,984	19,184,016	2,018,221	288,953,418	1.61	8.34%
Fortress Transportation Infrastructure LLC	2015	45,403,354	45,403,354	0	41,902,882	0	0.92	-1.99%
Total: San Bernardino		670,403,354	650,338,457	20,064,897	363,227,841	515,355,407	1.35	3.83%



PRIVATE EQUITY PERFORMANCE

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Cumulative Distributions	Valuation	TVPI Ratio	IRR
European Strategic Partners 2004	2004	238,652,127	221,611,324	17,040,804	280,078,373	662,240	1.27	3.95%
Partners Group MCA	2004	1,000,000,000	936,742,671	63,257,329	816,810,321	585,663,701	1.50	8.89%
Pathway Private Equity Fund VII, L.P.	2004	904,500,000	860,119,311	44,380,689	1,448,453,796	220,171,092	1.94	11.65%
Aurora Equity Partners III, L.P.	2005	25,000,000	23,544,536	0	41,738,196	0	1.67	13.61%
Lexington Middle Market I	2005	25,000,000	24,771,942	228,058	40,309,398	278,133	1.64	11.40%
NB Secondary Opportunities I, LP	2005	20,000,000	18,500,843	0	24,330,105	0	1.32	6.49%
Lexington Capital Partners VI-B	2006	25,000,000	24,591,319	408,681	34,911,743	241,799	1.43	6.88%
Siguler Guff DOF II	2006	30,000,000	30,000,000	0	42,440,278	0	1.42	8.64%
TCW/Crescent Mezzanine IV, L.P.	2006	40,000,000	39,590,976	0	45,049,090	0	1.14	3.03%
Catalyst Fund II, L.P.	2007	10,000,000	9,956,944	43,056	3,859,103	33,899,074	3.77	12.24%
Tennenbaum Opportunities Fund V, L.P.	2007	10,000,000	10,000,000	0	14,329,948	444,536	1.48	5.42%
Apollo Investment Fund VII, L.P.	2008	10,000,000	8,789,116	1,210,884	17,754,793	158,910	2.04	22.80%
Aurora Resurgence Fund, L.P.	2008	15,000,000	5,653,009	0	10,350,965	0	1.82	17.60%
Industry Ventures Fund V	2008	10,000,000	9,500,000	500,000	27,240,341	169,910	2.89	29.29%
Lexington Middle Market II - Offshore	2008	10,000,000	9,773,736	226,264	15,808,072	2,511,048	1.87	14.88%
NB Secondary Opportunities II, LP	2008	20,000,000	17,080,642	0	26,888,038	0	1.54	14.40%
Siguler Guff DOF III	2008	10,000,000	9,700,000	300,000	14,484,228	1,769,970	1.68	10.75%
TCW/Crescent Mezzanine V, L.P.	2008	20,000,000	19,949,723	50,277	27,301,678	118,215	1.38	9.79%
Apollo European Principal Finance Fund (Feeder), LP	2009	53,001,432	46,434,825	6,566,607	69,417,013	120,752	1.50	11.81%
DRI II, L.P.	2009	20,000,000	19,917,669	0	26,302,807	0	1.33	19.64%
Apollo PCPL Webb V	2010	4,844,398	4,844,398	0	5,196,757	0	1.07	6.04%
Apollo PCPL Webb VIII	2010	4,734,303	4,734,303	0	12,146,258	0	2.57	46.47%
European Strategic Partners 2008	2010	31,211,023	29,529,845	1,681,178	39,455,070	3,981,805	1.46	8.37%
Industry Ventures Fund VI	2011	20,000,000	18,400,000	1,600,000	24,850,771	236,760	1.36	7.99%
Lexington Capital Partners VII (Offshore)	2011	25,000,000	20,440,468	4,559,532	30,721,224	4,027,767	1.69	14.95%
Tennenbaum Opportunities Fund VI, L.P.	2011	20,000,000	7,882,885	12,117,115	15,625,996	1,260,606	2.14	8.08%
Aurora Equity Partners IV, L.P.	2012	20,000,000	17,262,661	2,737,339	36,935,852	3,746,502	2.04	18.20%
BNY Mellon - Alcentra Mezzanine III	2012	25,000,000	23,254,658	0	26,736,979	0	1.15	12.73%
Industry Ventures Partnership Holdings Fund II, L.P.	2012	25,000,000	23,500,000	1,500,000	50,997,019	64,382,789	4.91	25.36%
Tennenbaum Waterman Fund, LP	2012	70,000,000	70,000,000	0	66,631,734	63,938,200	1.87	10.62%
Industry Ventures Partnership Holdings Fund III, L.P.	2013	25,000,000	23,277,042	1,722,958	40,141,851	44,488,345	3.64	26.19%
Industry Ventures Secondary VII, L.P.	2013	25,000,000	23,175,000	1,825,000	36,795,285	9,093,478	1.98	17.03%



PRIVATE EQUITY PERFORMANCE

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Cumulative Distributions	Valuation	TVPI Ratio	IRR
Industry Ventures Partnership Holdings Fund III-A, L.P.	2014	12,500,000	11,162,500	1,337,500	7,375,723	6,293,82	0 1.22	4.38%
Pathway SBCERA MCA	2014	300,000,000	259,030,152	40,969,848	101,409,445	548,153,77	8 2.51	23.16%
SL Capital SOF I LP	2014	25,000,000	21,382,263	3,617,737	26,055,149	4,001,35	2 1.41	10.45%
ARES European Loan Opp Fund	2015	15,000,000	8,413,136	0	7,613,498		0.90	-6.02%
Ares Special Situations Fund IV, LP	2015	50,000,000	47,686,469	2,313,531	31,197,827	36,717,39	5 1.42	7.76%
Tennenbaum Special Situations Fund IX	2015	50,000,000	32,057,933	17,942,067	31,073,636	30,181,39	0 1.91	14.16%
Industry Ventures Direct, LP	2016	25,000,000	23,420,425	1,579,575	10,419,963	52,130,12	8 2.67	30.49%
Industry Ventures Partnership Holdings IV, LP	2016	25,000,000	22,575,000	2,425,000	6,778,707	53,928,09	0 2.69	31.32%
Industry Ventures Special Opportunities II-A	2016	12,500,000	1,630,722	10,869,278	1,559,328	2,695,17	5 2.61	40.91%
TCP Direct Lending Fund VIII-L, LLC	2016	40,000,000	26,438,623	13,561,377	9,079,299	25,941,61	0 1.32	6.58%
Tennenbaum Energy Opportunities Fund, LP	2016	20,000,000	6,656,980	13,343,020	6,257,031	7,650,75	4 2.09	12.73%
Apollo Accord Fund, LP	2017	30,000,000	7,500,000	0	8,310,474		0 1.11	7.44%
Industry Ventures Secondary VIII	2017	25,000,000	22,525,000	2,475,000	19,423,841	29,256,17	0 2.16	37.24%
Kayne Anderson Energy Fund VII, L.P.	2017	10,000,000	8,614,431	1,385,569	574,808	6,777,18	3 0.85	-3.38%
Kayne Partners Fund IV (QP), LP	2017	20,000,000	18,978,753	1,021,247	17,284,387	18,337,37	3 1.86	23.70%
Kayne SBCERA MLP	2017	130,000,000	126,225,037	3,774,963	58,503,825	69,093,37	4 1.01	0.27%
SL Capital SOF III LP	2017	25,000,000	16,623,796	8,376,204	6,653,147	25,420,34	4 1.93	23.94%
Crestline Portfolio Financing Fund	2018	50,000,000	28,516,097	21,483,903	9,709,113	29,755,62	6 1.38	10.99%
Industry Ventures Partnership Holdings V, LP	2018	25,000,000	20,500,000	4,500,000	626,933	47,613,48	3 2.35	54.87%
Industry Ventures Tech Buyout LP	2018	50,000,000	32,470,896	17,529,104	0	45,663,25	4 1.41	23.31%
Kayne Anderson Private Energy Income Fund II, L.P.	2018	20,000,000	5,880,000	14,120,000	4,248,102	9,081,59	9 2.27	41.52%
Kayne Flywheel Co-investment LLC	2018	8,000,000	6,600,000	1,400,000	7,211,923	12,077,35	6 2.92	44.12%
Kayne SBCERA (D.I.)	2018	45,000,000	40,660,422	4,339,578	44,072,300	4,633,60	5 1.20	17.37%
Kayne Solutions Fund LP	2018	20,000,000	9,809,659	10,190,341	10,797,587		0 1.10	9.14%
Industry Ventures Direct II, LP	2019	50,000,000	41,494,066	8,505,934	0	74,344,31	4 1.79	52.94%
Kayne Renewable Opportnities Partners (TE), LP	2019	100,000,000	20,704,033	79,295,967	27,857,425		0 1.35	21.72%
Waterfall Sentinel Co-Investments	2019	30,000,000	23,766,885	6,233,116	11,907,260	43,148,18	2 2.30	34.77%
Waterfall Sentinel Fund	2019	30,000,000	22,557,007	7,442,993	6,493,596	29,642,16	2 1.60	19.89%
Adams Street SBCERA	2020	100,000,000	73,421,446	26,578,554	13,064,376	86,724,86	9 1.36	36.88%
Kayne Anderson FRG	2020	30,000,000	30,000,000	0	45,283,966		0 1.51	44.79%
Kayne CLO Partners II, LP	2020	50,000,000	44,721,625	5,278,375	19,921,490		0 0.45	N/A
Industry Ventures Direct III, L.P.	2022	40,000,000	0	40,000,000	0		0.00	N/A
Industry Ventures Tech Buyout II, L.P.	2022	100,000,000	0	100,000,000	0		0.00	N/A
Total: San Bernardino		4,354,943,284	3,674,553,200	633,845,552	3,964,857,242	2,340,628,01	8 1.71	11.15%





APPENDIX

Page 49



proprietary & Confidential

POLICY INDEX COMPOSITION

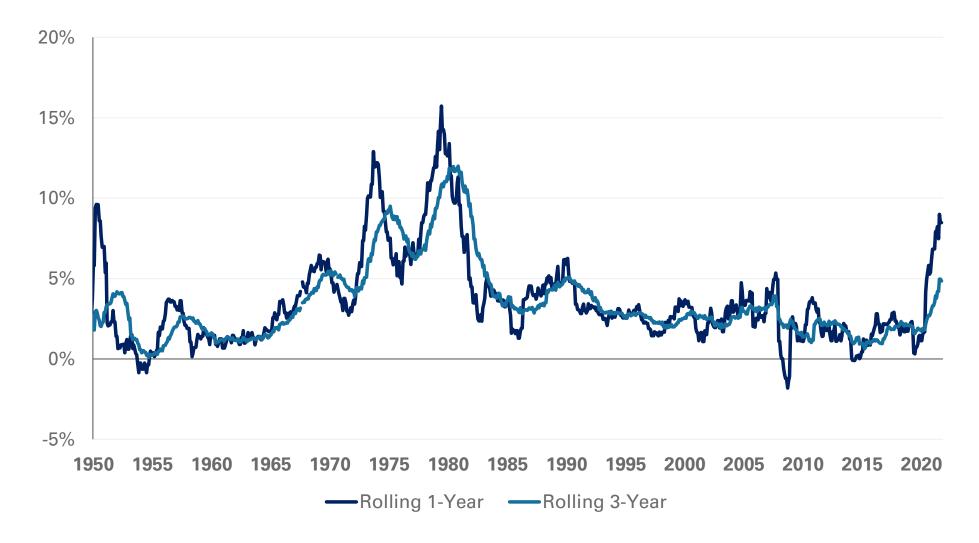
Index	7/1/ 2022	7/1/ 2021	7/1/ 2019	7/1/ 2018	7/1/ 2014	7/1/ 2012	6/1/ 2012	6/1/ 2010	6/1/ 2009	6/1/ 2008	9/1/ 2006	7/1/ 2005	4/1/ 2004	6/1/ 2002
Russell 3000 Index	35	31	29	29	29	30	29	29	28	34	38	38	43	43
MSCI ACWI ex USA Index	13	15	15	15	15	13	7	7	7	11	13	13	18	18
MSCI Emerging Markets Index							4	4	3	4	3	3		
Bloomberg US Aggregate Bond Index	22	22	22	22	22	24	13	13	18	15	21	21	18	26
Bloomberg Global Aggregate Bond ex US Index	17	19	20	20	18	16	10	10	9	8	5			
Bloomberg Global Aggregate Bond Index Hedged												5	5	5
Merrill Lynch High Yield Master II Index							13	13	13	8	8	8	8	
JP Morgan EMBI Global Diversified Index							6	6	4	4	2	2		
NCREIF Property Index	5	5	7	7	9	9	12.5	12.5	13	11	10	10	8	8
67% S&P GSCI + 33% BBG US TIPS Index	6													
67% Bloomberg Commodity Index+ 33% BBG US TIPS Index		6	5											
NCREIF Timberland 1Q Lag				2.5	2.5	3								
Bloomberg Commodity Index				2.5	2.5	3	3.5	3.5	3	3				
91 Day T-Bill Index	2	2	2	2	2	2	2	2	2	2				





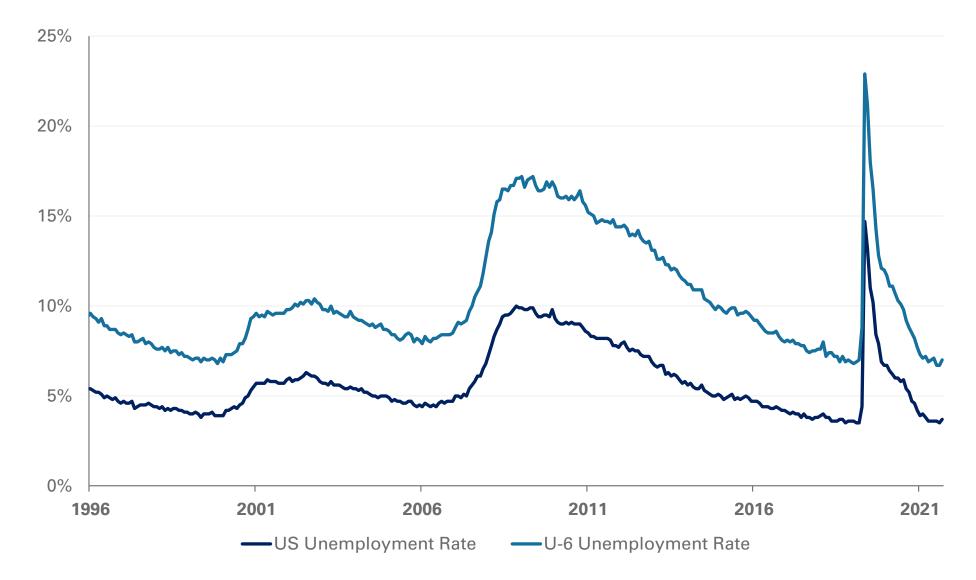
MACRO

INFLATION U.S. CONSUMER PRICE INDEX



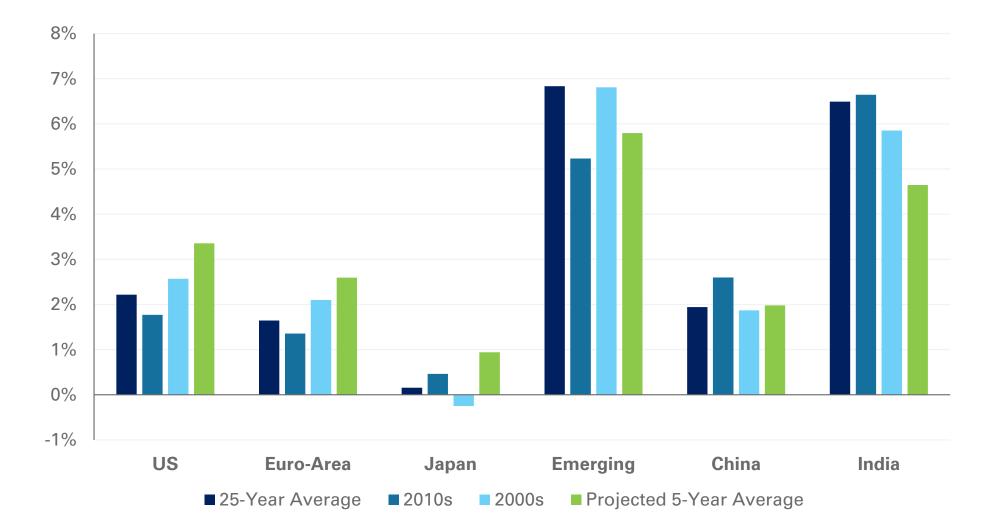


U.S. UNEMPLOYMENT RATES



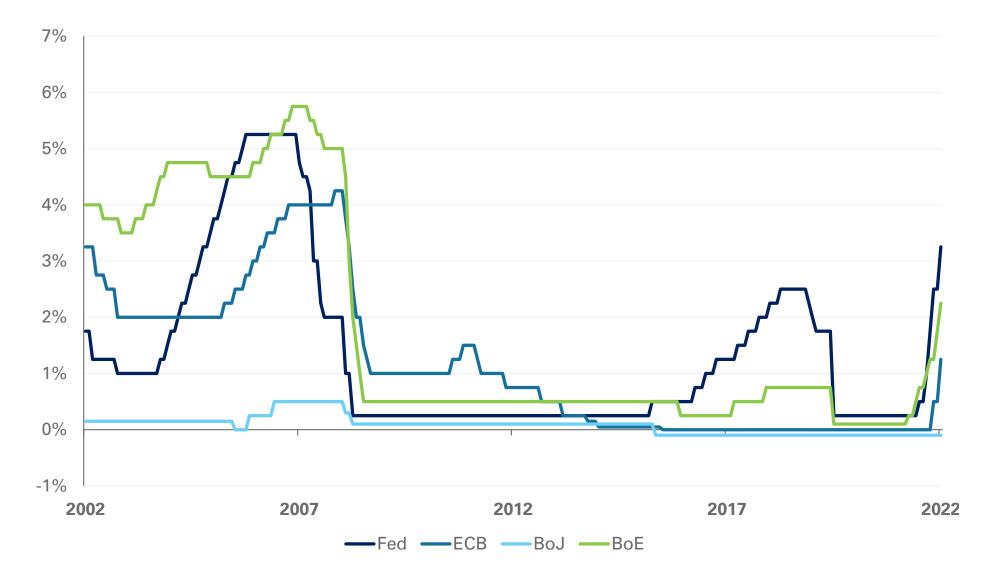


HISTORICAL INFLATION IMF PROJECTIONS



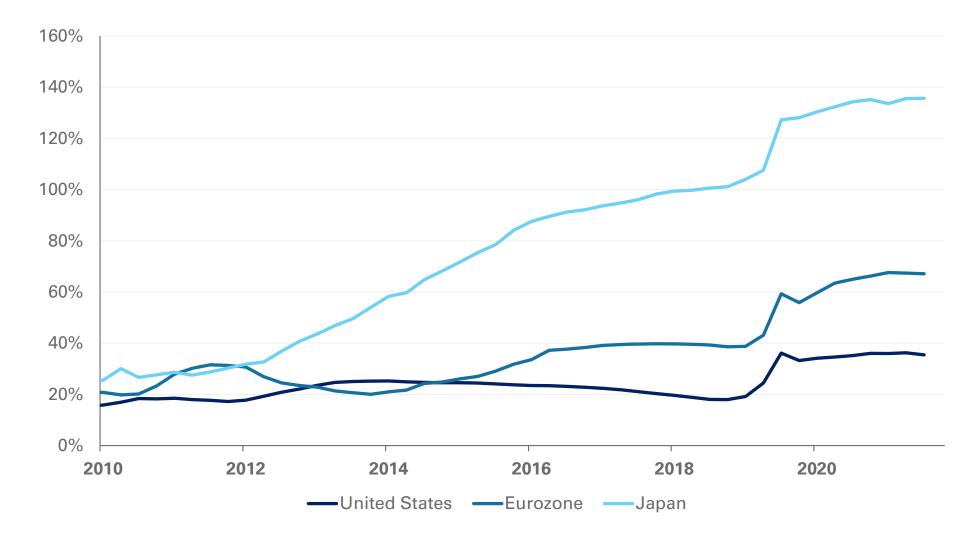


CENTRAL BANK POLICY RATES





CENTRAL BANK BALANCE SHEETS AS A PERCENTAGE OF GDP





CURRENCIES

RELATIVE TO THE U.S. DOLLAR

Currencies	Spot	1 Month	YTD	1 Year
Euro	0.98	-2.6%	-13.9%	-15.5%
British Pound	1.12	-4.1%	-17.6%	-17.2%
Japanese Yen	144.75	-4.2%	-20.4%	-22.9%
Swiss Franc	0.98	-0.8%	-7.4%	-5.2%
Australian Dollar	0.64	-6.2%	-11.6%	-11.0%
New Zealand Dollar	1.77	-7.7%	-17.4%	-18.0%
Canadian Dollar	1.37	-4.7%	-8.1%	-7.8%
Chinese Yuan	7.09	-2.8%	-10.1%	-8.9%
Taiwanese Dollar	31.75	-4.1%	-12.9%	-12.2%
Korean Won	1431	-6.5%	-16.9%	-17.2%
Vietnmaese Dong	23865	-1.8%	-4.5%	-4.6%
Thai Baht	37.72	-3.3%	-11.4%	-10.3%
Philippines Peso	58.63	-4.2%	-13.0%	-13.0%
Indian Rupee	81.35	-2.3%	-8.6%	-8.8%
Russian Ruble	61.13	-0.8%	22.7%	19.1%
Mexican Peso	20.11	0.0%	1.8%	2.2%
Brazilian Real	5.41	-4.2%	3.0%	0.7%
Chilean Peso	0.03	-5.8%	-1.7%	-3.9%
Argentine Peso	147.32	-5.8%	-30.3%	-33.0%
South African Rand	17.97	-5.2%	-11.2%	-16.3%

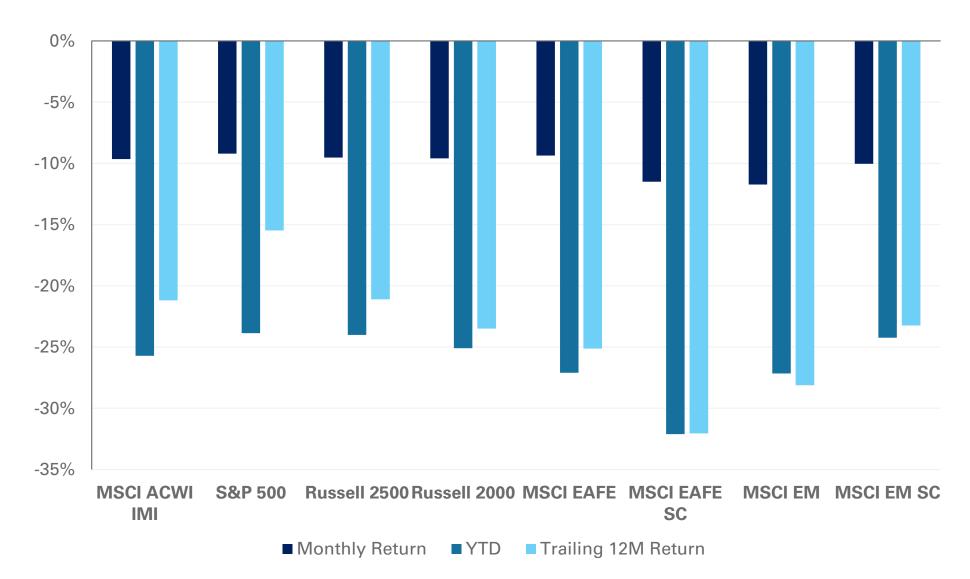




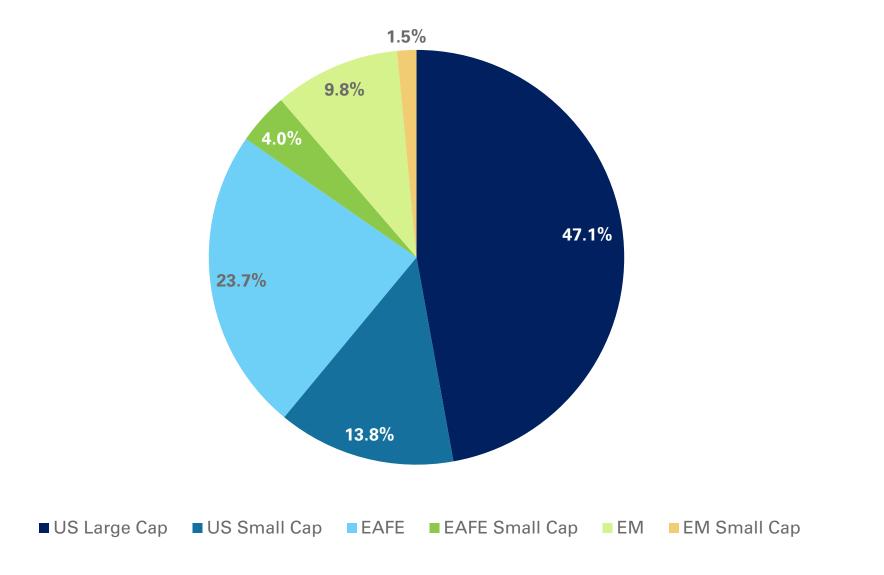
EQUITY



EQUITY INDEX PERFORMANCE



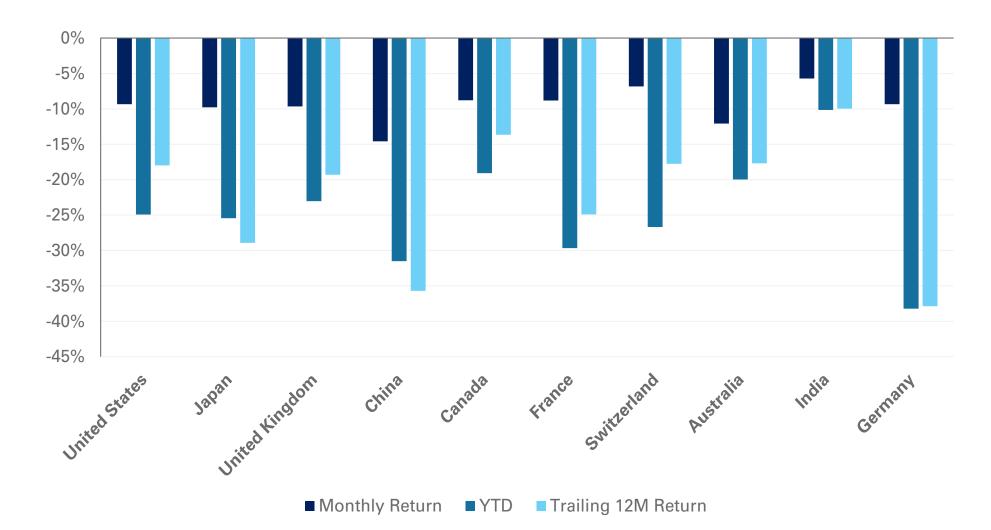
MSCI ACWI IMI WEIGHTS





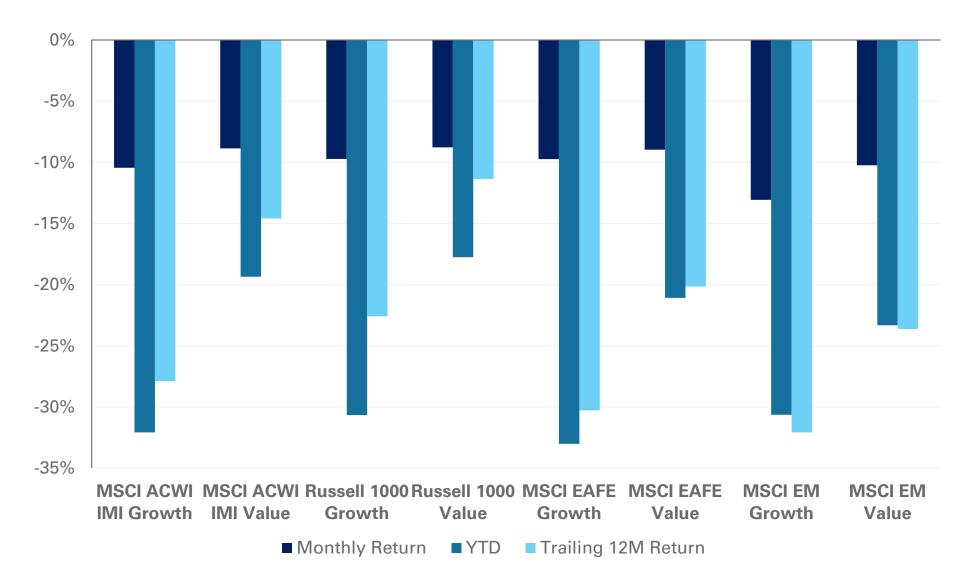
EQUITY INDEX PERFORMANCE

TOP 10 COUNTRIES BY MARKET CAP IN MSCI ACWI IMI INDEX





STYLE INDEX PERFORMANCE





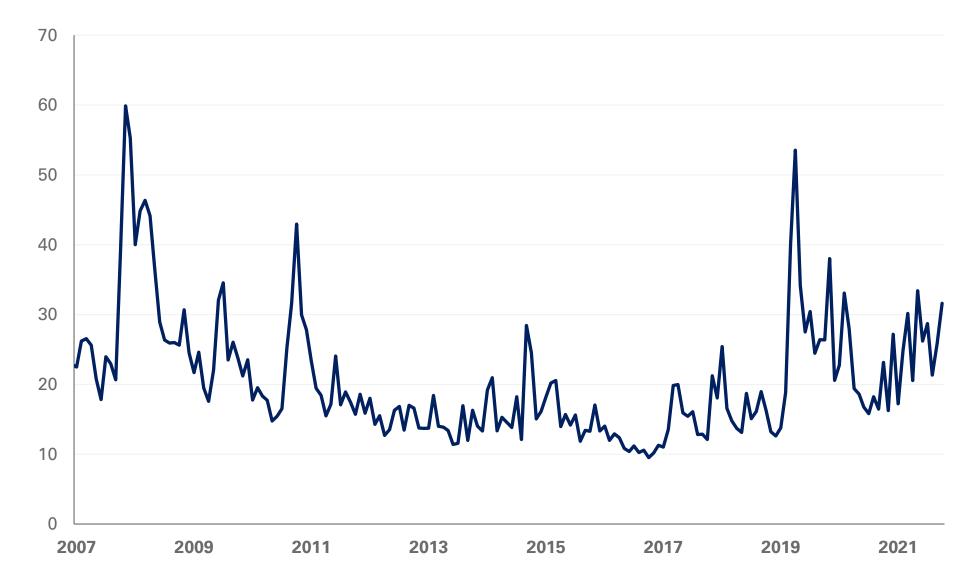
SECTOR INDEX PERFORMANCE

	Monthly Return	YTD	Trailing 12M Return	Index Weight
MSCI ACWI IMI	-9.7%	-25.7%	-21.2%	100.0%
Communication Services	-12.3%	-37.0%	-38.0%	6.8%
Consumer Discretionary	-9.9%	-31.6%	-28.0%	11.6%
Consumer Staples	-7.7%	-16.3%	-10.1%	7.3%
Energy	-9.9%	14.3%	17.1%	5.2%
Financials	-8.1%	-21.1%	-18.7%	14.5%
Health Care	-4.7%	-18.5%	-14.3%	12.7%
Industrials	-10.4%	-25.9%	-22.1%	10.5%
Information Technology	-12.3%	-34.8%	-27.0%	19.7%
Materials	-8.6%	-24.0%	-18.9%	5.1%
Real Estate	-12.7%	-29.9%	-24.0%	3.4%
Utilities	-11.4%	-13.5%	-5.2%	3.1%

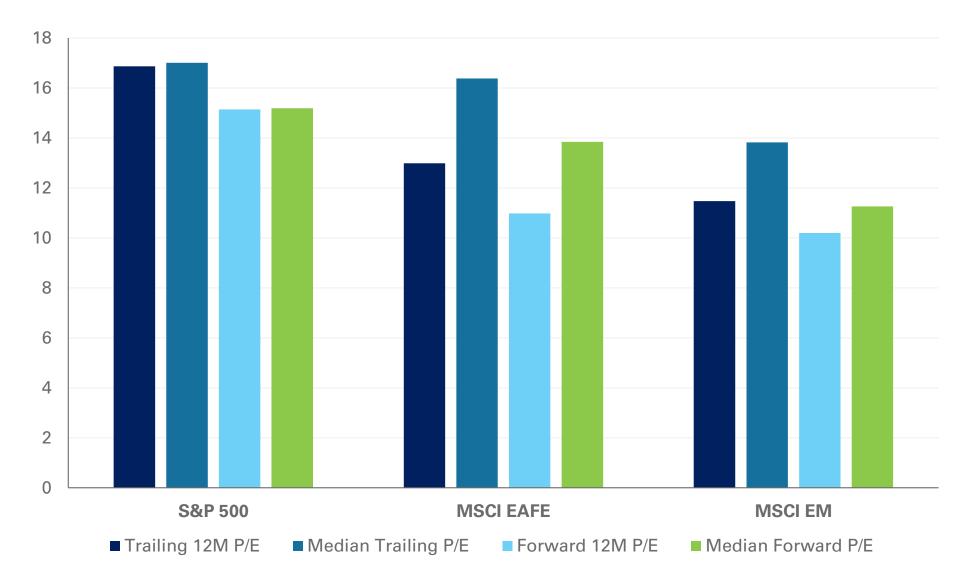
	Monthly Return	YTD	Trailing 12M Return	Index Weight
S&P 500	-9.2%	-23.9%	-15.5%	100.0%
Communication Services	-12.2%	-39.0%	-39.1%	8.1%
Consumer Discretionary	-8.1%	-29.9%	-20.9%	11.7%
Consumer Staples	-8.0%	-11.8%	-0.1%	6.9%
Energy	-9.3%	34.9%	45.7%	4.5%
Financials	-7.8%	-21.2%	-17.6%	11.0%
Health Care	-2.6%	-13.1%	-3.4%	15.1%
Industrials	-10.5%	-20.7%	-13.9%	7.9%
Information Technology	-12.0%	-31.4%	-20.0%	26.4%
Materials	-9.3%	-23.7%	-12.1%	2.5%
Real Estate	-13.2%	-28.8%	-16.4%	2.8%
Utilities	-11.3%	-6.5%	5.6%	3.1%



EQUITY VOLATILITY INDEX (VIX)



GLOBAL EQUITY VALUATIONS



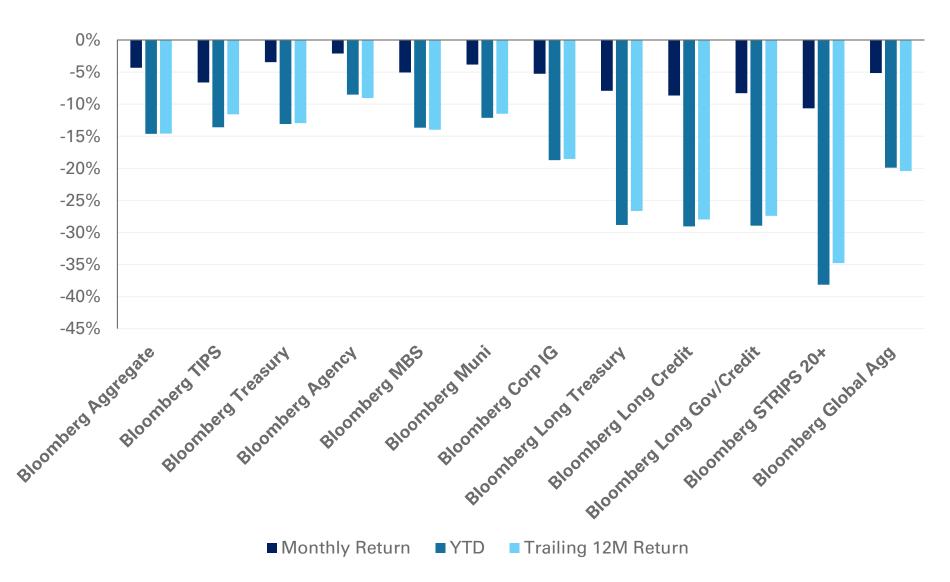




SAFE-HAVEN FIXED INCOME



SAFE-HAVEN FIXED INCOME PERFORMANCE



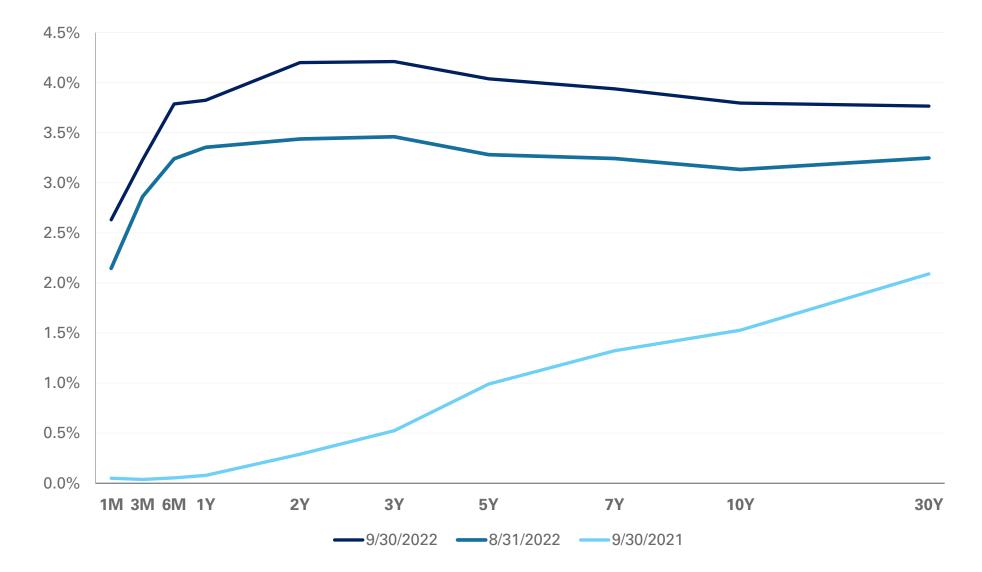


FIXED INCOME CHARACTERISTICS

	Yield to Worst	Spread (bps)	Duration (Years)
Bloomberg Aggregate	4.75%	62	6.2
Bloomberg TIPS	4.30%	-	5.9
Bloomberg Treasury	4.13%	-	6.1
Bloomberg Agency	4.40%	15	3.4
Bloomberg MBS	4.83%	69	5.9
Bloomberg Muni	4.04%	-	7.2
Bloomberg Corp IG	5.69%	159	7.1
Bloomberg Long Treasury	4.00%	-	16.4
Bloomberg Long Credit	5.89%	196	12.6
Bloomberg Long Gov/Credit	5.03%	107	14.3
Bloomberg STRIPS 20+	3.93%	-	24.8
Bloomberg Global Agg	3.70%	61	6.7

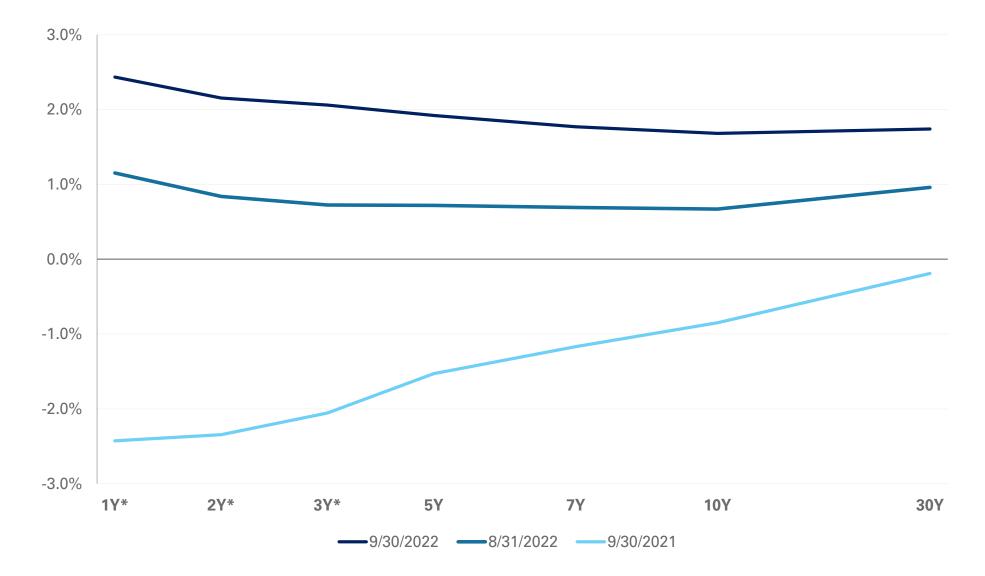


US TREASURY YIELD CURVE



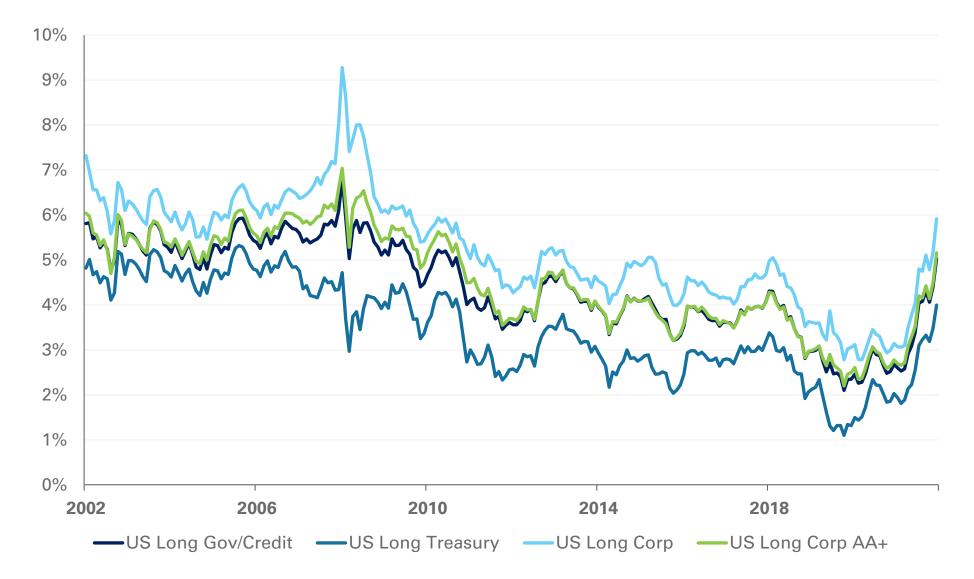


US TREASURY REAL YIELD CURVE



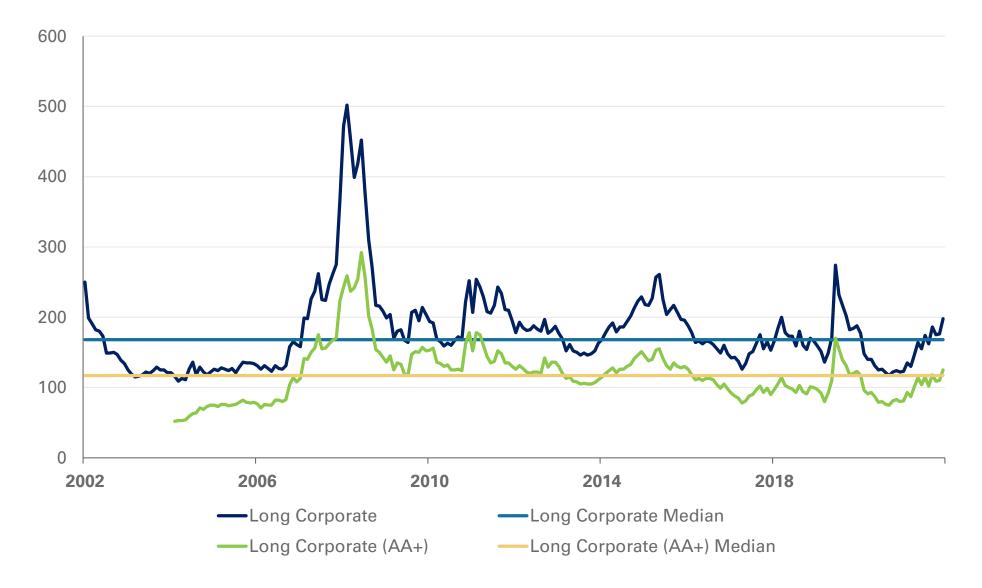


LONG DURATION YIELDS





LONG DURATION CORPORATE SPREADS



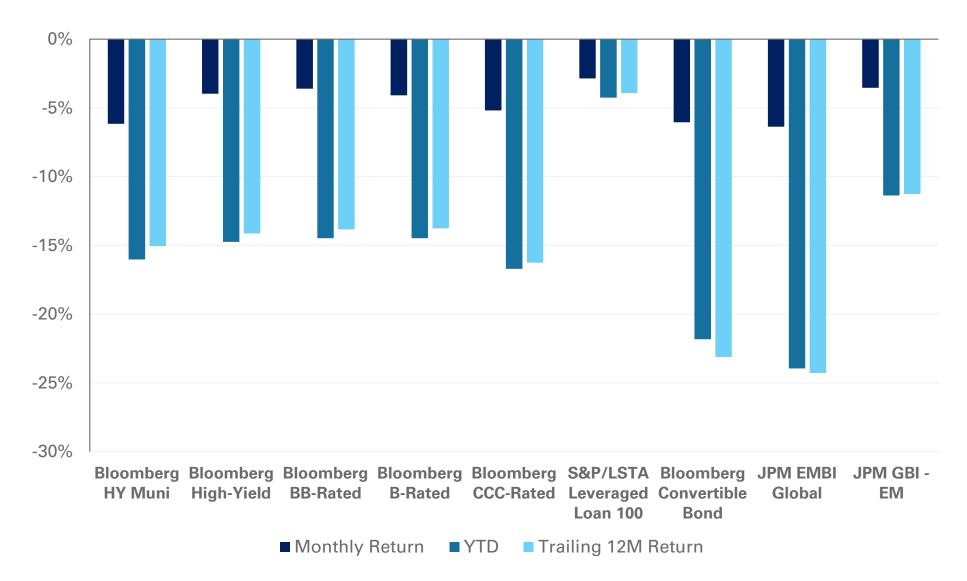




RETURN-SEEKING CREDIT



RETURN-SEEKING CREDIT INDEX PERFORMANCE



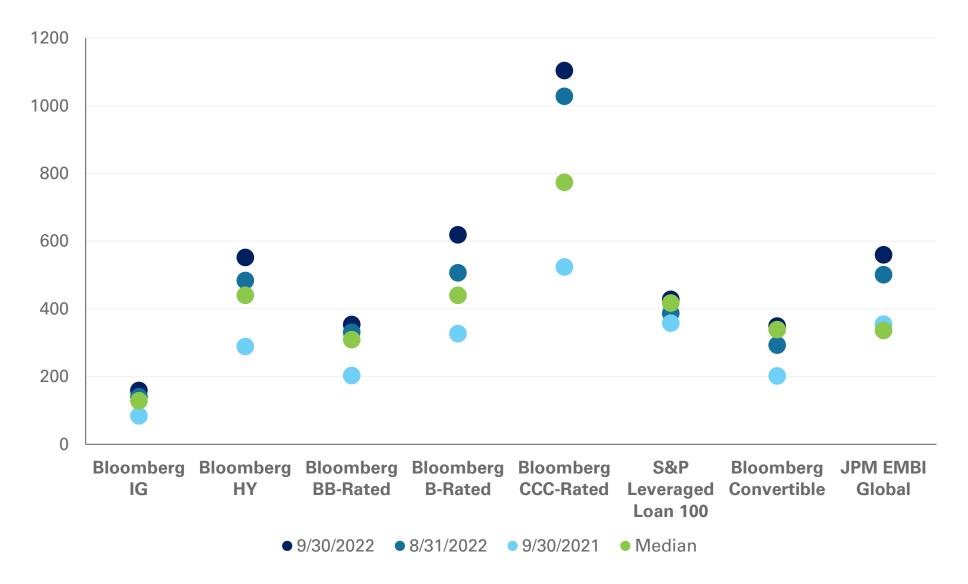


RETURN-SEEKING CREDIT CHARACTERISTICS

	Yield to Worst	Spread (bps)	Duration (Years)
Bloomberg HY Muni	6.03%	-	10.6
Bloomberg High-Yield	9.68%	552	4.1
Bloomberg BB-Rated	7.77%	354	4.5
Bloomberg B-Rated	10.23%	619	3.8
Bloomberg CCC-Rated	15.22%	1104	3.4
S&P/LSTA Leveraged Loan 100	8.04%	428	-
Bloomberg Convertible Bond	0.65%	349	2.3
JPM EMBI Global	9.57%	560	6.7
JPM GBI - EM	5.17%	-	5.3



CREDIT SPREADS

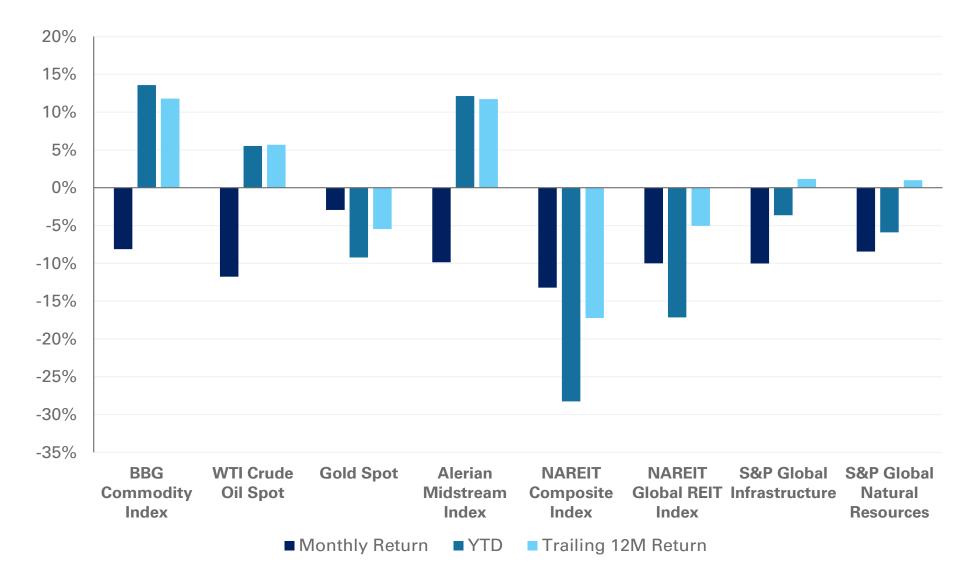






REAL ASSETS

REAL ASSETS INDEX PERFORMANCE





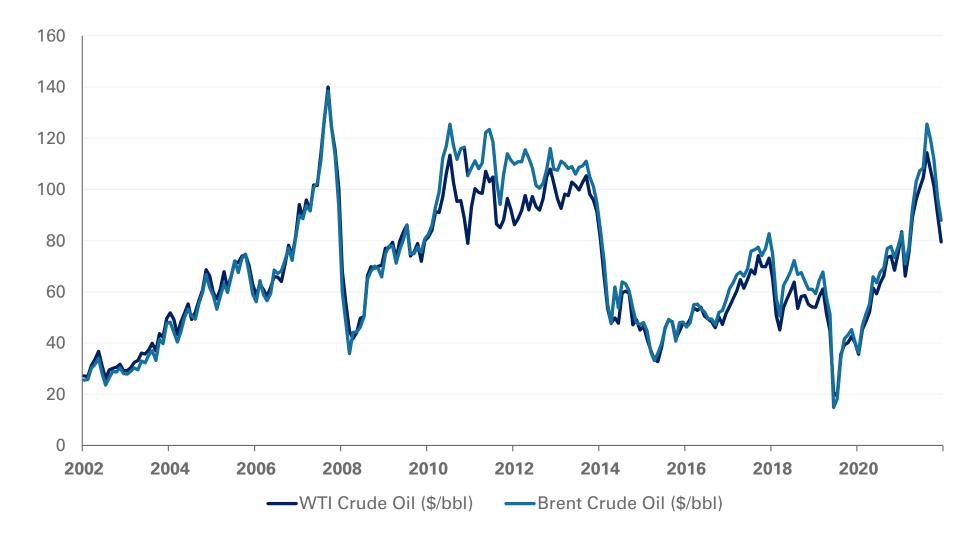
REAL ASSETS INDEX PERFORMANCE

Index	1 Month	3 Month	YTD	1 Year	3 Year	5 Year
Bloomberg Commodity Index	-8.1%	-4.1%	13.6%	11.7%	13.4%	6.9%
Bloomberg Sub Agriculture Index	-1.6%	-0.2%	12.8%	19.8%	21.1%	8.1%
Coffee	-5.6%	-1.3%	0.6%	15.7%	22.9%	3.4%
Corn	1.3%	8.7%	22.6%	33.2%	22.1%	9.9%
Cotton	-24.4%	-13.1%	-7.7%	1.3%	17.0%	7.6%
Soybean	-3.8%	-5.8%	15.5%	21.2%	19.1%	7.1%
Soybean Oil	-8.5%	-3.9%	18.6%	14.2%	34.5%	15.0%
Sugar	1.0%	-2.0%	-2.0%	-9.0%	12.2%	1.6%
Wheat	11.1%	2.6%	14.9%	20.1%	17.4%	8.5%
Bloomberg Sub Energy	-16.6%	-5.4%	49.8%	30.1%	11.3%	6.7%
Brent Crude	-10.2%	-15.9%	32.3%	36.0%	20.2%	15.5%
Heating Oil	-10.5%	-12.2%	70.1%	70.6%	21.9%	14.7%
Natural Gas	-26.2%	25.3%	86.6%	12.2%	4.7%	-5.1%
Unleaded Gas	-0.5%	-20.0%	31.8%	38.8%	20.4%	12.7%
WTI Crude Oil	-10.5%	-21.0%	19.1%	21.5%	2.6%	3.3%
Bloomberg Sub Industrial Metals	-6.3%	-7.3%	-16.2%	-8.9%	8.2%	3.9%
Aluminum	-8.5%	-11.0%	-22.7%	-24.2%	5.4%	-0.8%
Copper	-2.8%	-7.7%	-23.5%	-16.3%	9.1%	2.4%
Nickel	-1.4%	-6.9%	2.9%	19.7%	7.3%	15.0%
Zinc	-13.4%	-2.4%	-12.0%	5.2%	8.6%	1.9%
Bloomberg Sub Precious Metals	-0.9%	-7.6%	-11.7%	-7.8%	2.6%	3.5%
Gold	-2.9%	-7.9%	-9.3%	-5.7%	2.7%	4.2%
Silver	6.7%	-6.5%	-19.0%	-14.3%	2.0%	1.2%
Bloomberg Sub Livestock	-2.4%	2.5%	-1.0%	0.9%	-6.2%	-4.7%
Lean Hogs	-6.9%	-1.7%	1.1%	-7.7%	-9.6%	-7.6%
Live Cattle	-0.4%	4.1%	-2.3%	4.8%	-4.3%	-3.4%



OIL MARKETS

WTI VERSUS BRENT CRUDE SPOT PRICES





GOLD SPOT PRICE





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