



ECONOMIC ENVIRONMENT

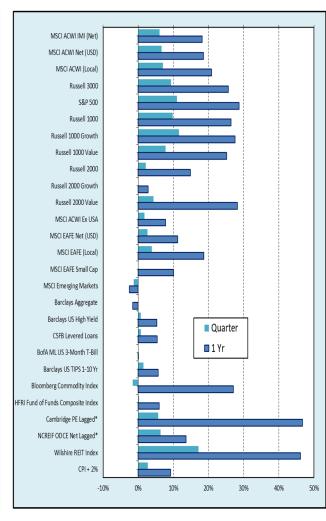
- Q3 Real GDP (third estimate) grew at an annual rate of +2.3%.
 - Retail sales ended November at +16.8% on a YoY basis. In the same period last year the YoY growth rate was +6.3%.
 - Corporate profits as a percent of GDP ended Q2 2021 at 11.7%, up from 8.9% on a YoY basis and remain elevated relative to historical levels.
 - The inventory-to-sales ratio ended November was 1.3. Levels have remained relatively constant since early 2010 with a spike to 1.7 in April 2020.
 - The U.S. trade deficit widened sharply on record imports; the trade gap jumped 19.4% in November.
- The unemployment rate was 3.9% in Q4, down from 4.7% in Q3; U-6, a broader measure of unemployment, decreased to 7.3% in Q4 from 8.5% in Q3.
 - The labor force participation rate ended Q4 at 61.9%, up from Q3 at 61.6% 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 November) increased to 276.12 from 271.44 (in September) and remains at levels higher than that of pre-financial crisis levels of 150.9.
- Rolling 12-month seasonally-adjusted CPI spiked to 7.12% in Q4 from 5.44% in Q3, in the same period last year it was 1.29%; Capacity Utilization increased to 76.5% in Q4 from 75.2% in Q3.
- Fed Funds rate remains at a targeted range of 0.00%-to-0.25%. The 10-year Treasury Yield (constant maturity) finished Q4 at 1.5% up from Q3 at 1.4%.
- The Fed has begun scaling back asset purchases in November. The Fed's balance sheet continues to grow in the wake of the pandemic.
- S&P valuations increased in Q4 to 38.66 from 37.62 in Q3 and remains higher than the 10-year average of 27.97x.
 - Cyclically adjusted Shiller PE ratio remains above the long-term average of 16.9x.



MARKET ENVIRONMENT

Q4 2021 OVERVIEW

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W. 115. 7. B		Qtr.	1 Yr.	3 Yr.	5 Yr.	10 Yr.
World Equity Benchmarks			12 222/			44.4.4.
MSCI ACWI IMI (Net)	World with Small Cap	6.10%	18.22%	20.20%	14.12%	11.84%
MSCI ACWI Net (USD)	World W/O Small Cap	6.68%	18.54%	20.38%	14.40%	11.85%
MSCI ACWI (Local)	World (Local Currency)	7.03%	20.90%	20.65%	13.90%	12.90%
Domestic Equity Benchmarks						
Russell 3000	Domestic All Cap	9.28%	25.66%	25.79%	17.97%	16.30%
S&P 500	Large Core	11.03%	28.70%	26.07%	18.47%	16.55%
Russell 1000	Large Core	9.78%	26.45%	26.21%	18.43%	16.54%
Russell 1000 Growth	Large Growth	11.64%	27.60%	34.08%	25.32%	19.79%
Russell 1000 Value	Large Value	7.77%	25.16%	17.64%	11.16%	12.97%
Russell 2000	Small Core	2.14%	14.82%	20.02%	12.02%	13.23%
Russell 2000 Growth	Small Growth	0.01%	2.83%	21.16%	14.53%	14.14%
Russell 2000 Value	Small Value	4.36%	28.27%	17.99%	9.07%	12.03%
International Equity Benchmarks						
MSCI ACWI Ex USA	World ex-US	1.82%	7.82%	13.18%	9.61%	7.28%
MSCI EAFE Net (USD)	Int'l Developed	2.69%	11.26%	13.54%	9.55%	8.03%
MSCI EAFE (Local)	Int'l Developed (Local Currency)	3.91%	18.70%	13.35%	8.36%	10.09%
MSCI EAFE Small Cap	Small Cap Int'l	0.07%	10.10%	15.62%	11.04%	10.80%
MSCI Emerging Markets	Emerging Equity	-1.31%	-2.54%	10.94%	9.87%	5.49%
Domestic Fixed Income Benchmarks						
Barclays Aggregate	Core Bonds	0.01%	-1.54%	4.79%	3.57%	2.90%
Barclays US High Yield	High Yield	0.71%	5.28%	8.83%	6.30%	6.83%
CSFB Levered Loans	Bank Loans	0.71%	5.40%	5.43%	4.32%	4.83%
BofA ML US 3-Month T-Bill	Cash	0.01%	0.05%	0.99%	1.14%	0.63%
Barclays US TIPS 1-10 Yr	Inflation	1.54%	5.68%	6.97%	4.46%	2.57%
Alternative Benchmarks						
Bloomberg Commodity Index	Commodities	-1.56%	27.11%	9.86%	3.66%	-2.85%
HFRI Fund of Funds Composite Index	Fund of Hedge Funds	0.25%	5.99%	8.40%	5.67%	4.54%
Cambridge PE Lagged*	Private Equity	5.73%	46.76%	21.33%	19.78%	16.40%
NCREIF ODCE Net Lagged*	Real Estate	6.41%	13.65%	6.13%	6.56%	8.92%
Wilshire REIT Index	REIT	17.14%	46.19%	19.19%	10.92%	11.47%
CPI + 2%	Inflation/Real Assets	2.71%	9.25%	5.60%	4.98%	4.17%
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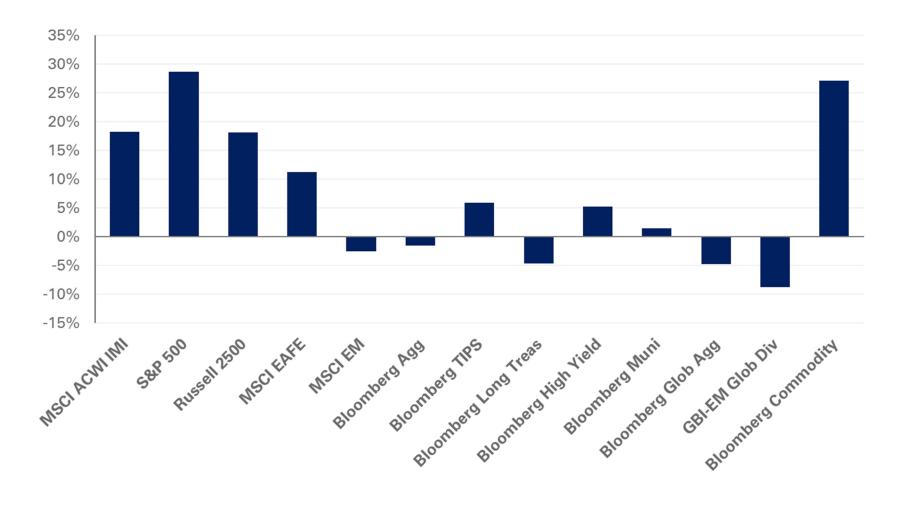




^{*} As of 9/30/2021

RISK ASSETS OUTPERFORMED

ANNUAL TOTAL RETURNS

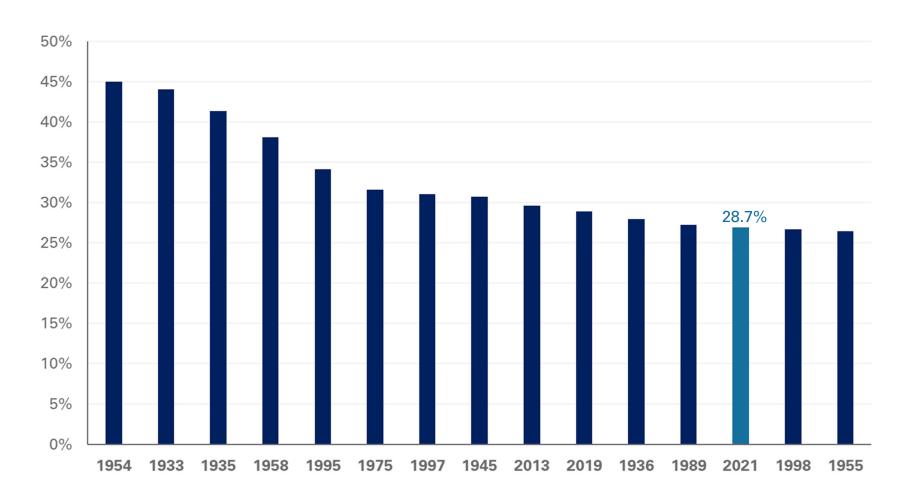




Source: MSCI, S&P, Russell, MSCI, Bloomberg, JPM, FactSet

2021 EQUITY RETURNS WERE HISTORICALLY HIGH

TOP 15 S&P 500 CALENDAR YEAR RETURNS

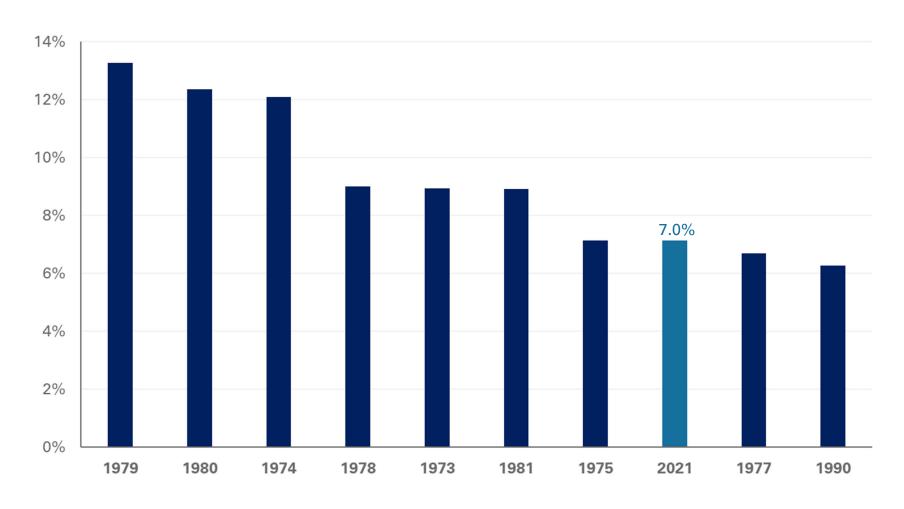




Source: S&P, FactSet

INFLATION ROSE AT HIGHEST LEVEL SINCE 1981

TOP 10 ANNUAL U.S. CPI-U CHANGES

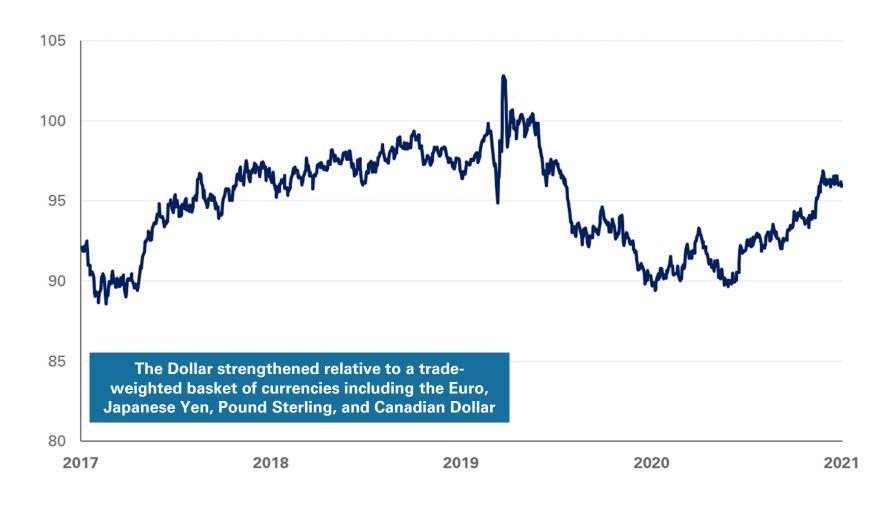




Source: Bureau of Labor Statistics, FactSet

THE U.S. DOLLAR STRENGTHENED IN 2021

U.S. DOLLAR INDEX

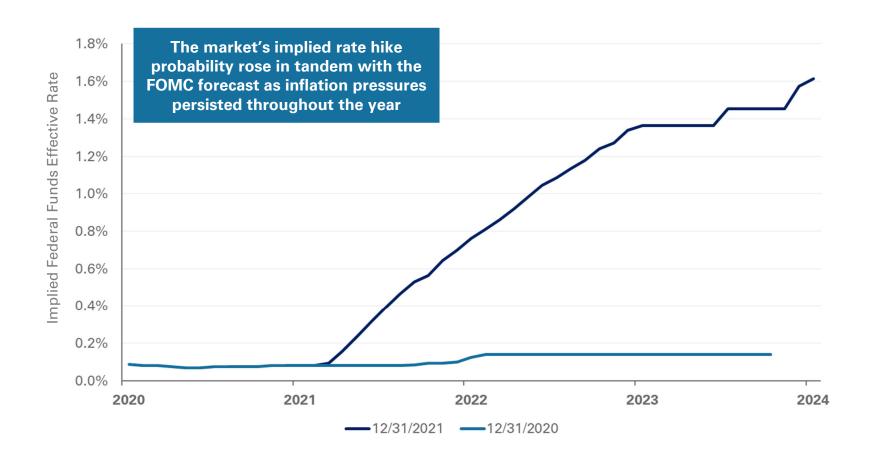




Source: ICE, FactSet

AT LEAST TWO RATE HIKES PRICED IN FOR 2022

FEDERAL FUNDS FUTURES





Source: FactSet

NEPC KEY MARKET THEMES

AS OF 12/31/21

Economic Crossroads Change in Status:	from Fed policy This transition	vas the dominant i will dramatically in	neutral gher levels of inflation put for capital mark fluence the pricing of the rack a wide regime series.	kets to economic fu of risk premia acros	ndamentals
Permanent Interventions Change in Status: Prevalent to Faded	policy shifts to The Federal Re	a less accommoda serve has begun ta	NEUTRAL s investor sentiment tive stance pering asset purcha an anticipated given	ses and recent com	mentary suggests
Globalization Backlash Change in Status: Prevalent to Neutral	pressures strai	n the electorate and ikely be faced with	NEUTRAL y increase as supplyed geopolitical relation an amplified wealth orically driven more	nships n divide given econd	omic and labor
China Transitions Change in Status:	on the country' • While in-line w	s long transition pa ith the longer-term	NEUTRAL the potential for eco ath economic goals, the ing a tail-risk for man	ese regulations have	e negatively



Key Market Themes influence global markets and may remain relevant for an extended period with significant implications for capital markets. Themes can be disrupted and incite outsized market volatility

Exhibit A: Page 11



PROPRIETARY & CONFIDENTIAL

TOTAL FUND PERFORMANCE SUMMARY

NET OF FEES

		Ending December 31, 2021											
	Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	10 Yrs	Rank
Total Fund	\$14,433,768,112	4.3%	24	6.5%	4	20.6%	1	13.7%	64	10.7%	44	9.6%	41
Policy Index		3.2%	74	2.9%	87	8.4%	99	12.1%	97	9.1%	95	7.8%	97
S&P 500		11.0%	1	11.7%	1	28.7%	1	26.1%	1	18.5%	1	16.6%	1
Bloomberg US Aggregate TR		0.0%	99	0.1%	99	-1.5%	99	4.8%	99	3.6%	99	2.9%	99
60% MSCI ACWI (Net) / 40% FTSE WGBI		3.6%	63	2.4%	93	7.8%	99	13.4%	81	10.0%	66	7.6%	97
InvMetrics Public DB > \$1B Net Median		3.9%		4.2%		13.8%		14.4%		10.5%		9.2%	

In the year ended December 31, 2021 the Fund return of 20.6% ranked in the 1st percentile of Public Funds > \$1 Billion. The Fund's assets totaled \$14.43 billion, up from \$11.98 billion one year ago.

In the three–year period ended December 31, 2021 the Fund return of 13.7% ranked in the 64th percentile among its peers. The Sharpe Ratio over this period of 1.6 ranks in the 8th percentile.

In the five-year period ended December 31, 2021 the Fund return of 10.7% ranked in the 44th percentile among its peers. On a risk adjusted basis, the Fund's Sharpe Ratio ranked in the 3rd percentile in its peer group while the Sortino Ratio ranked in the 10th percentile.

The preliminary InvMetrics Public DB > \$1B Net of Fee universe contains 26 observations as of December 31, 2021.



		rs Ending Decen				
	Anlzd Standard Deviation	Anizd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank	Sortino Ratio	Sortino Ratio Rank
Total Fund	8.2%	7	1.6	8	1.5	36
InvMetrics Public DB > \$1B Net Median	10.4%	-	1.3		1.5	-

		ırs Ending Decen				
	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank	Sortino Ratio	Sortino Ratio Rank
Total Fund	6.7%	2	1.4	3	1.4	10
InvMetrics Public DB > \$1B Net Median	9.0%	_	1.0		1.2	_



San Bernardino County Employees' Retirement Association TOTAL FUND PERFORMANCE SUMMARY

	1 Year Ending December 31, 2021										
	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank	Sortino Ratio	Sortino Ratio Rank			
Total Fund	20.6%	1	3.9%	1	5.3	1	158.5	1			
InvMetrics Public DB > \$1B Net Median	13.8%		5.2%		2.6		6.3				

3 Years Ending December 31, 2021									
	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank	Sortino Ratio	Sortino Ratio Rank	
Total Fund	13.7%	64	8.2%	7	1.6	8	1.5	36	
InvMetrics Public DB > \$1B Net Median	14.4%		10.4%		1.3		1.5		

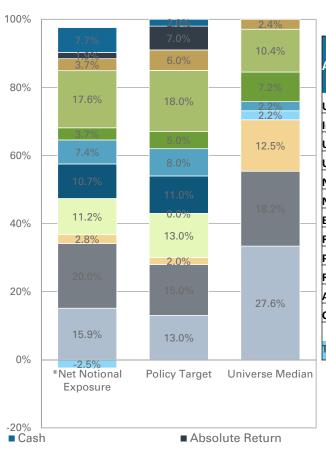
	5 Years Ending December 31, 2021										
	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank	Sortino Ratio	Sortino Ratio Rank			
Total Fund	10.7%	44	6.7%	2	1.4	3	1.4	10			
InvMetrics Public DB > \$1B Net Median	10.5%		9.0%		1.0		1.2				

	10 Years Ending December 31, 2021										
	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank	Sortino Ratio	Sortino Ratio Rank			
Total Fund	9.6%	41	5.5%	1	1.6	1	1.7	7			
InvMetrics Public DB > \$1B Net Median	9.2%		7.9%		1.1		1.3				

Sortino Ratio requires at least two negative points during the time period in order to calculate



ASSET ALLOCATION COMPLIANCE



Asset Class	*Net Notional Exposure	Net Notional Exposure	Policy Target	Difference	Policy Ranges	Within Range
US Equities	2,295,325	15.9%	13.0%	2.9%	8%-18%	Yes
Int'l Equities	2,880,755	20.0%	15.0%	5.0%	10%-20%	Yes
U.S. Core Fixed Income	397,300	2.8%	2.0%	0.8%	-3%-7%	Yes
US Credit	1,609,445	11.2%	13.0%	-1.8%	8%-18%	Yes
Non-US Core Fixed Income	(367,100)	-2.5%	0.0%	-2.5%	-4%-6%	Yes
Non-US Credit	1,542,372	10.7%	11.0%	-0.3%	6%-16%	Yes
Emerging Market Debt	1,069,213	7.4%	8.0%	-0.6%	3%-13%	Yes
Real Estate	539,652	3.7%	5.0%	-1.3%	0%-14%	Yes
Private Equity	2,546,552	17.6%	18.0%	-0.4%	6%-21%	Yes
Real Assets	536,248	3.7%	6.0%	-2.3%	0%-10%	Yes
Absolute Return	277,170	1.9%	7.0%	-5.1%	0%-12%	Yes
Cash	1,106,837	7.7%	2.0%	5.7%	0%-10%	Yes
Total	14,433,768	100.00%	100.00%			

■ Real Estate

■ Non-US Credit US Credit

■ Int'l Equities

■ Private Equity

■ Emerging Market Debt

Non-US Core Fixed Income

U.S. Core

■ US Equities



*Notional values are sourced from Russell Investments.

[■] Real Assets

INVESTMENT EXPOSURE SUMMARY

Dalta Adjusted

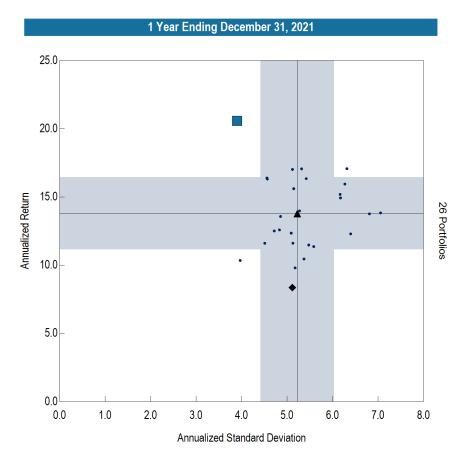
OVERLAY AS OF DECEMBER 31, 2021

Assat Olsas	Discosional E		Delta Adj		N-4 B-	-141	I	- 4	B - U T	
Asset Class	Physical E	•	Synthetic E	•	Net Po		<u>Overlay</u>		Policy Ta	•
Total Market Value	14,320.2	100.0 %	0.0	0.0 %	14,320.2	100.0 %	14,320.2	100.0 %	14,320.2	100.00 %
Cash	3,231.0	22.6 %	-2,789.4	- 19.5 %	441.6	3.1 %	0.0	0.0 %	0.0	0.00 %
Cash	3,231.0	22.6 %	-2,789.4	-19.5 %	441.6	3.1 %	0.0	0.0 %	0.0	0.00 %
Equity	2,420.5	16.9 %	2,759.3	19.3 %	5,179.8	36.2 %	5,475.2	38.2 %	5,441.7	38.00 %
Emerging Markets	507.9	3.5 %	640.7	4.5 %	1,148.6	8.0 %	1,152.7	8.0 %	1,145.6	8.00 %
Equity Delta Hedge	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.00 %
International Developed	200.3	1.4 %	1,529.6	10.7 %	1,729.8	12.1 %	1,729.0	12.1 %	1,718.4	12.00 %
US Large Cap	1,712.1	12.0 %	92.2	0.6 %	1,804.3	12.6 %	2,089.2	14.6 %	2,076.4	14.50 %
US Small Cap	0.2	0.0 %	496.9	3.5 %	497.1	3.5 %	504.3	3.5 %	501.2	3.50 %
Fixed	4,167.9	29.1 %	30.2	0.2 %	4,198.0	29.3 %	4,344.1	30.3 %	4,317.5	30.15 %
EM High Yield CDX	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.00 %
Global ex US Fixed Income	2,568.6	17.9 %	-367.1	-2.6 %	2,201.5	15.4 %	2,218.9	15.5 %	2,205.3	15.40 %
High Yield	1,244.9	8.7 %	0.0	0.0 %	1,244.9	8.7 %	1,368.8	9.6 %	1,360.4	9.50 %
US Fixed Income	354.3	2.5 %	397.3	2.8 %	751.6	5.2 %	756.4	5.3 %	751.8	5.25 %
Other	4,500.8	31.4 %	0.0	0.0 %	4,500.8	31.4 %	4,500.8	31.4 %	4,561.0	31.85 %
Alternatives	25.9	0.2 %	0.0	0.0 %	25.9	0.2 %	25.9	0.2 %	28.6	0.20 %
Commodities	429.8	3.0 %	0.0	0.0 %	429.8	3.0 %	429.8	3.0 %	429.6	3.00 %
Infrastructure	84.2	0.6 %	0.0	0.0 %	84.2	0.6 %	84.2	0.6 %	114.6	0.80 %
Private Equity	2,522.7	17.6 %	0.0	0.0 %	2,522.7	17.6 %	2,522.7	17.6 %	2,463.1	17.20 %
Real Estate	514.7	3.6 %	0.0	0.0 %	514.7	3.6 %	514.7	3.6 %	601.4	4.20 %
Tactical Cash	923.6	6.4 %	0.0	0.0 %	923.6	6.4 %	923.6	6.4 %	923.6	6.45 %



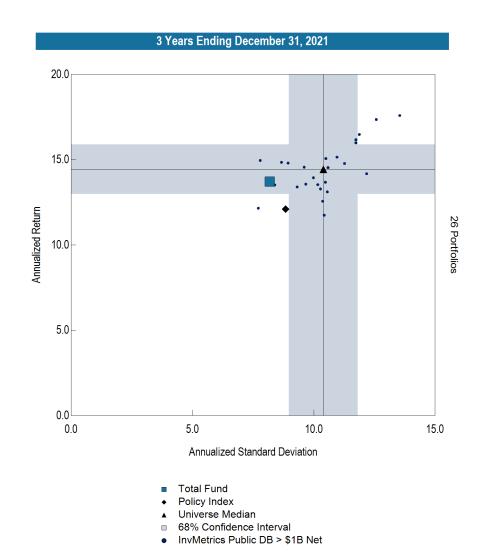
Source: Russell Investments

San Bernardino County Employees' Retirement Association TOTAL FUND RISK/RETURN



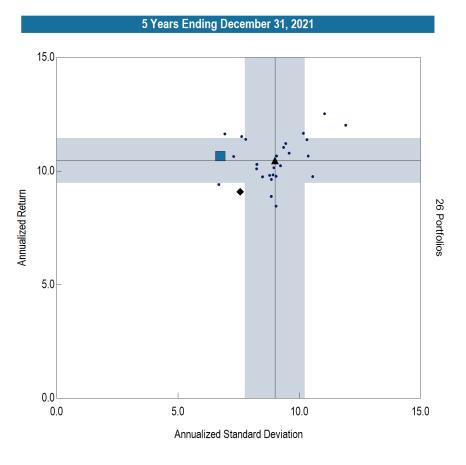


- Policy Index
- ▲ Universe Median
- 68% Confidence Interval
- InvMetrics Public DB > \$1B Net



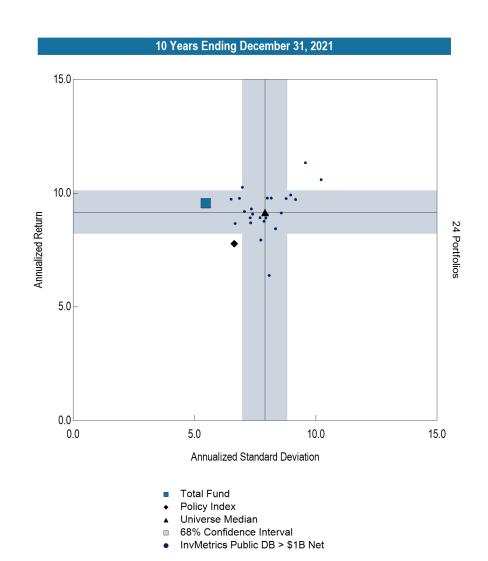


San Bernardino County Employees' Retirement Association TOTAL FUND RISK/RETURN





- Policy Index
- ▲ Universe Median
- 68% Confidence Interval
- InvMetrics Public DB > \$1B Net



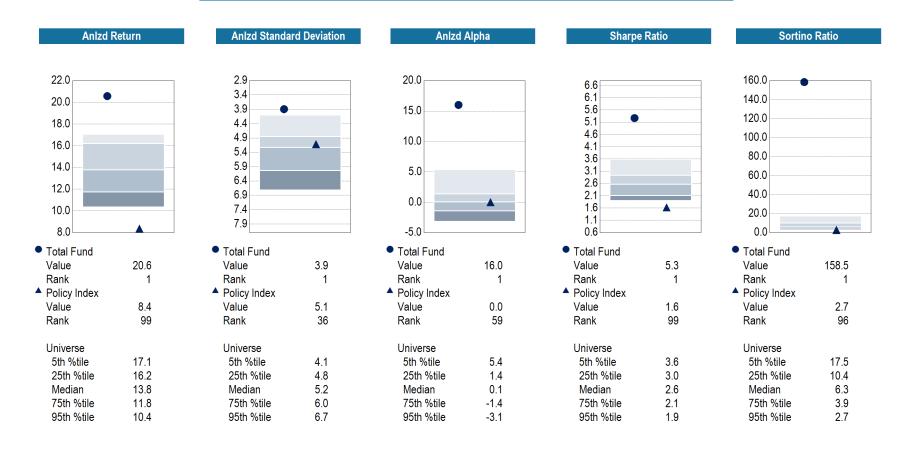


San Bernardino County Employees' Retirement Association

TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

Total Fund vs. InvMetrics Public DB > \$1B Net (USD)

1 Year

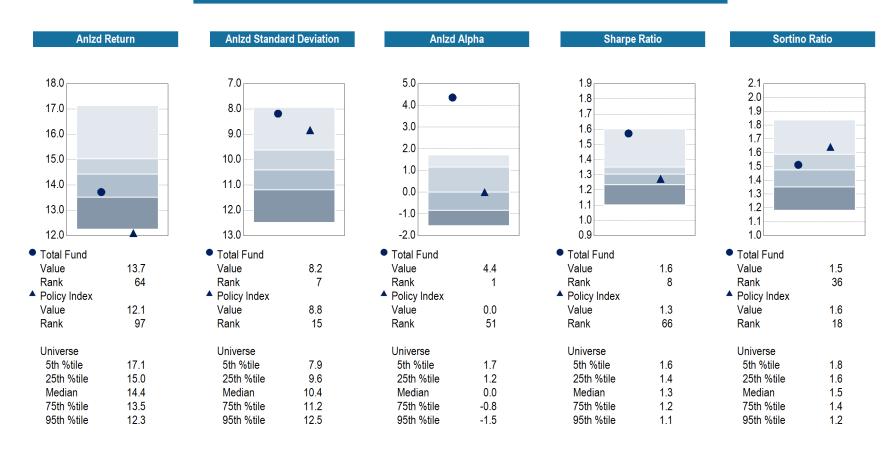




San Bernardino County Employees' Retirement Association

TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

Total Fund vs. InvMetrics Public DB > \$1B Net (USD)
3 Years

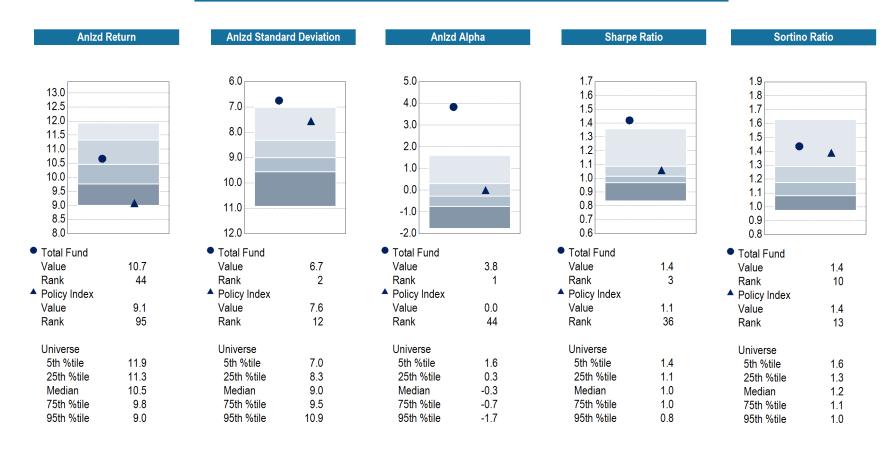




San Bernardino County Employees' Retirement Association

TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

Total Fund vs. InvMetrics Public DB > \$1B Net (USD) 5 Years





San Bernardino County Employees' Retirement Association

TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

Total Fund vs. InvMetrics Public DB > \$1B Net (USD)

10 Years

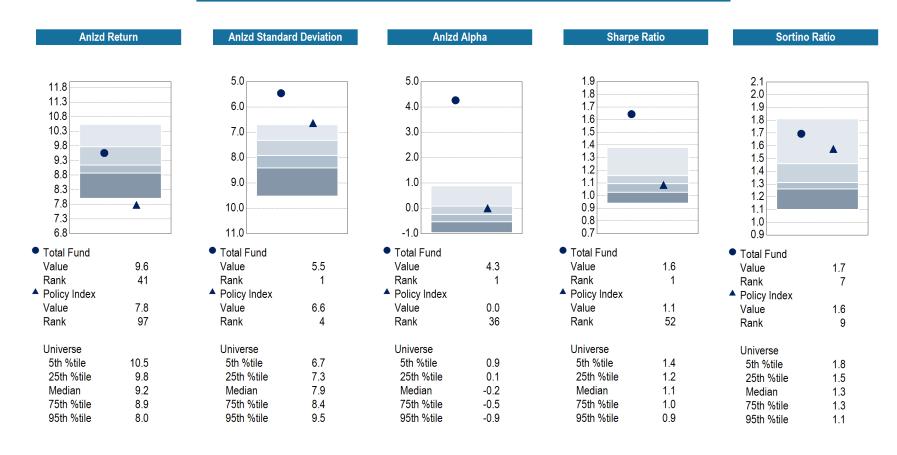




Exhibit A: Page 22

		1 Yea	rs Ending Dec	ember 31, 2021				
	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Tracking Error	Info Ratio	Rank
Domestic Equity With Beta Overlay	15.9%	20.4%	98	9.6%	2	2.9%	-1.8	96
Russell 3000		25.7%	58	10.7%	89	0.0%		
International Equity With Beta Overlay	20.0%	9.1%	29	8.0%	2	3.9%	0.2	38
MSCI ACWI ex USA Gross		8.3%	43	9.3%	65	0.0%		
Global Fixed Income With Beta Overlay	29.3%	16.7%		3.0%		4.7%	4.5	
Bloomberg Global Aggregate TR		-4.7%		3.9%		0.0%		
U.S. Credit Strategies	11.2%	16.7%	1	3.8%	74	3.9%	3.0	1
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index	-	5.0%	1	1.6%	1	0.0%	-	
Non-U.S. Credit Composite	10.5%	26.0%	1	3.4%	99	6.0%	5.0	1
ICE BofA Euro High Yield Constrained TR		-3.9%	99	6.9%	99	0.0%		
Emerging Markets Debt Composite	7.4%	0.8%	12	2.7%	12	4.6%	1.3	37
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified	-	-5.3%	73	6.1%	69	0.0%	-	
Alpha Pool Composite	11.9%	8.8%	54	2.6%	1	2.6%	2.2	20
91 Day T-Bill + 3%	-	3.0%	90	0.0%	1	0.0%		-

	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank
Private Equity Composite	17.6%	48.4%		8.0%	
C A Global All PE (Qtr Lag)		48.0%	-	19.4%	-
Real Estate Composite	3.7%	16.1%	85	4.5%	28
NCREIF Property Index 1 Qtr. Lag		12.2%	99	6.0%	70
Real Assets Composite	3.7%	22.6%		5.4%	
Real Assets Custom Blend		20.0%	-	9.3%	-

US Credit and Non-US Credit composites are based on physical assets.



Exhibit A: Page 23

3 Years Ending December 31, 2021							
% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Tracking Error	Info Ratio	Rank
15.9%	21.7%	94	18.7%	68	2.9%	-1.4	97
	25.8%	7	18.2%	51	0.0%		
20.0%	11.6%	92	15.9%	6	3.0%	-0.7	92
	13.7%	61	17.0%	28	0.0%		
29.3%	8.3%		7.7%		8.0%	0.6	
	3.6%		4.4%		0.0%		
11.2%	10.9%	1	8.2%	87	6.9%	0.6	3
	7.0%	55	8.5%	87	0.0%		
10.5%	7.5%	1	9.5%	99	11.4%	0.2	36
	5.5%	26	12.6%	99	0.0%		
7.4%	1.4%	96	6.8%	3	8.7%	-0.3	80
-	4.0%	71	10.8%	34	0.0%	-	
11.9%	6.2%	94	7.2%	27	7.2%	0.3	41
-	3.9%	95	0.3%	1	0.0%		
	15.9% 20.0% 29.3% 11.2% 10.5% 7.4% 11.9%	% of Tot Anlzd Ret 15.9% 21.7% 25.8% 20.0% 11.6% 13.7% 29.3% 8.3% 3.6% 11.2% 10.9% 7.0% 10.5% 7.5% 5.5% 7.4% 1.4% 4.0% 11.9% 6.2%	% of Tot Anizd Ret Rank 15.9% 21.7% 94 25.8% 7 20.0% 11.6% 92 13.7% 61 29.3% 8.3% 3.6% 11.2% 10.9% 1 7.0% 55 10.5% 7.5% 1 5.5% 26 7.4% 1.4% 96 4.0% 71 11.9% 6.2% 94	% of Tot Anizd Ret Rank Anizd Std Dev 15.9% 21.7% 94 18.7% 25.8% 7 18.2% 20.0% 11.6% 92 15.9% 13.7% 61 17.0% 29.3% 8.3% 7.7% 3.6% 4.4% 11.2% 10.9% 1 8.2% 7.0% 55 8.5% 10.5% 7.5% 1 9.5% 5.5% 26 12.6% 7.4% 1.4% 96 6.8% 4.0% 71 10.8% 11.9% 6.2% 94 7.2%	% of Tot Anlzd Ret Rank Anlzd Std Dev Rank 15.9% 21.7% 94 18.7% 68 25.8% 7 18.2% 51 20.0% 11.6% 92 15.9% 6 13.7% 61 17.0% 28 29.3% 8.3% 7.7% 3.6% 4.4% 11.2% 10.9% 1 8.2% 87 7.0% 55 8.5% 87 10.5% 7.5% 1 9.5% 99 5.5% 26 12.6% 99 7.4% 1.4% 96 6.8% 3 4.0% 71 10.8% 34 11.9% 6.2% 94 7.2% 27	% of Tot Anlzd Ret Rank Anlzd Std Dev Rank Tracking Error 15.9% 21.7% 94 18.7% 68 2.9% 25.8% 7 18.2% 51 0.0% 20.0% 11.6% 92 15.9% 6 3.0% 13.7% 61 17.0% 28 0.0% 29.3% 8.3% 7.7% 8.0% 3.6% 4.4% 0.0% 11.2% 10.9% 1 8.2% 87 6.9% 7.0% 55 8.5% 87 0.0% 10.5% 7.5% 1 9.5% 99 11.4% 5.5% 26 12.6% 99 0.0% 7.4% 1.4% 96 6.8% 3 8.7% 4.0% 71 10.8% 34 0.0% 11.9% 6.2% 94 7.2%	% of Tot Anlzd Ret Rank Anlzd Std Dev Rank Tracking Error Info Ratio 15.9% 21.7% 94 18.7% 68 2.9% -1.4 25.8% 7 18.2% 51 0.0% 20.0% 11.6% 92 15.9% 6 3.0% -0.7 13.7% 61 17.0% 28 0.0% 29.3% 8.3% 7.7% 8.0% 0.6 3.6% 4.4% 0.0% 11.2% 10.9% 1 8.2% 87 6.9% 0.6 7.0% 55 8.5% 87 0.0% 10.5% 7.5% 1 9.5% 99 11.4% 0.2 5.5% 26 12.6% 99 0.0% 7.4% 1.4% 96 6.8% 3 8.7% -0.3

	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank
Private Equity Composite	17.6%	23.7%		9.7%	
C A Global All PE (Qtr Lag)	-	22.4%	-	15.5%	
Real Estate Composite	3.7%	8.7%	64	3.5%	1
NCREIF Property Index 1 Qtr. Lag		6.7%	97	4.0%	5
Real Assets Composite	3.7%	12.5%		11.8%	
Real Assets Custom Blend	-	8.8%	-	10.4%	-

US Credit and Non-US Credit composites are based on physical assets.



Exhibit A: Page 24

	5 Years Ending December 31, 2021							
	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Tracking Error	Info Ratio	Rank
Domestic Equity	11.8%	12.9%		14.4%		3.2%	-1.6	
Russell 3000		18.0%	-	16.0%		0.0%		
International Developed	1.3%	1.9%	99	11.5%	1	7.5%	-1.0	93
MSCI EAFE		9.5%	31	14.8%	8	0.0%		
International Emerging	3.6%	7.5%		16.3%		3.9%	-0.6	
MSCI Emerging Markets		9.9%		16.6%		0.0%		
U.S. Credit Strategies	11.2%	8.9%	1	6.7%	91	5.6%	0.7	1
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index		5.2%	50	6.7%	91	0.0%		
Non-U.S. Credit Composite	10.5%	8.2%	1	7.6%	99	10.4%	0.3	24
ICE BofA Euro High Yield Constrained TR		5.6%	1	11.0%	99	0.0%		
Emerging Markets Debt Composite	7.4%	1.2%	99	5.9%	3	7.8%	-0.3	85
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified		3.8%	63	9.2%	38	0.0%		
Alpha Pool Composite	11.9%	5.7%	66	5.8%	20	5.8%	0.3	41
91 Day T-Bill + 3%	-	4.1%	88	0.3%	1	0.0%		

	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank
Private Equity Composite	17.6%	20.9%		7.8%	
C A Global All PE (Qtr Lag)		19.9%		12.7%	
Real Estate Composite	3.7%	7.2%	96	3.3%	25
NCREIF Property Index 1 Qtr. Lag		6.8%	98	3.6%	33
Real Assets Composite	3.7%	7.6%		9.8%	
Real Assets Custom Blend		4.9%	-	8.4%	

Percent of Total equals 88.1% because Beta Overlay is not included as these statistics are not relevant for alternative asset classes.



Exhibit A: Page 25

	10 Yea	ars Ending Dec	cember 31, 2021				
% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Tracking Error	Info Ratio	Rank
11.8%	7.8%		10.8%		9.2%	-0.9	
	16.3%	-	13.5%		0.0%		
1.3%	10.2%	30	18.4%	99	13.0%	0.2	43
	8.0%	47	14.1%	55	0.0%		
3.6%	3.5%		15.3%		4.1%	-0.5	
	5.5%		16.4%		0.0%		
11.2%	8.6%	2	5.2%	65	4.8%	0.6	3
	5.7%	18	5.4%	70	0.0%		
10.5%	8.4%	1	6.0%	99	10.2%	0.3	35
	5.6%	1	11.2%	99	0.0%		
7.4%	2.9%	67	6.3%	5	6.5%	0.0	67
	3.0%	67	9.1%	50	0.0%	-	
11.9%	5.9%	28	4.6%	10	4.7%	0.5	25
	3.6%	88	0.2%	1	0.0%		
	11.8% 1.3% 3.6% 11.2% 10.5% 7.4% 11.9%	% of Tot Anlzd Ret 11.8% 7.8% 16.3% 1.3% 10.2% 8.0% 3.6% 3.5% 5.5% 11.2% 8.6% 5.7% 10.5% 8.4% 5.6% 7.4% 2.9% 3.0% 11.9% 5.9%	% of Tot Anizd Ret Rank 11.8% 7.8% 16.3% 1.3% 10.2% 30 8.0% 47 3.6% 3.5% 5.5% 11.2% 8.6% 2 5.7% 18 10.5% 8.4% 1 5.6% 1 7.4% 2.9% 67 3.0% 67 11.9% 5.9% 28	11.8% 7.8% 10.8% 16.3% 13.5% 1.3% 10.2% 30 18.4% 8.0% 47 14.1% 3.6% 3.5% 15.3% 5.5% 16.4% 11.2% 8.6% 2 5.2% 5.7% 18 5.4% 10.5% 8.4% 1 6.0% 5.6% 1 11.2% 7.4% 2.9% 67 6.3% 3.0% 67 9.1% 11.9% 5.9% 28 4.6%	% of Tot Anlzd Ret Rank Anlzd Std Dev Rank 11.8% 7.8% 10.8% 16.3% 13.5% 1.3% 10.2% 30 18.4% 99 8.0% 47 14.1% 55 3.6% 3.5% 15.3% 5.5% 16.4% 11.2% 8.6% 2 5.2% 65 5.7% 18 5.4% 70 10.5% 8.4% 1 6.0% 99 5.6% 1 11.2% 99 7.4% 2.9% 67 6.3% 5 3.0% 67 9.1% 50 11.9% 5.9% 28 4.6% 10	% of Tot AnIzd Ret Rank AnIzd Std Dev Rank Tracking Error 11.8% 7.8% 10.8% 9.2% 16.3% 13.5% 0.0% 1.3% 10.2% 30 18.4% 99 13.0% 8.0% 47 14.1% 55 0.0% 3.6% 3.5% 15.3% 4.1% 5.5% 16.4% 0.0% 11.2% 8.6% 2 5.2% 65 4.8% 5.7% 18 5.4% 70 0.0% 10.5% 8.4% 1 6.0% 99 10.2% 5.6% 1 11.2% 99 0.0% 7.4% 2.9% 67 6.3% 5 6.5% 3.0% 67 9.1% 50 0.0% 11.9% 5.9% 28 4.6%	% of Tot Anlzd Ret Rank Anlzd Std Dev Rank Tracking Error Info Ratio 11.8% 7.8% 10.8% 9.2% -0.9 16.3% 13.5% 0.0% 1.3% 10.2% 30 18.4% 99 13.0% 0.2 8.0% 47 14.1% 55 0.0% 3.6% 3.5% 15.3% 4.1% -0.5 5.5% 16.4% 0.0% 11.2% 8.6% 2 5.2% 65 4.8% 0.6 5.7% 18 5.4% 70 0.0% 10.5% 8.4% 1 6.0% 99 10.2% 0.3 5.6% 1 11.2% 99 0.0% 7.4% 2.9% 67 6.3% 5 6.5% 0.0

	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank
Private Equity Composite	17.6%	16.5%		6.4%	
C A Global All PE (Qtr Lag)		15.9%		10.1%	
Real Estate Composite	3.7%	8.7%	93	3.4%	14
NCREIF Property Index 1 Qtr. Lag		9.0%	91	4.1%	20
Real Assets Composite	3.7%	5.2%		7.9%	
Real Assets Custom Blend		1.9%	-	7.8%	



INVESTMENT MANAGER TOP 10

ASSETS UNDER MANAGEMENT AS OF DECEMBER 31, 2021

Manager	Market Value	Portfolio %
Total Russell	\$1,372,757,825.31	9.51%
SSGA S&P500 Flagship Fund	\$1,250,787,681.09	8.67%
Total Tobam	\$989,500,820.60	6.86%
Total Pathway	\$841,482,089.63	5.83%
Total Ares	\$746,359,363.22	5.17%
Gramercy Funds Management	\$690,285,561.01	4.78%
Total Alcentra	\$662,826,230.80	4.59%
Total GoldenTree	\$626,094,826.84	4.34%
Total Zais	\$579,517,592.43	4.02%
Total Apollo	\$486,730,378.29	3.37%
Total	\$8,246,342,369.22	57.13%



PUBLIC EQUITY PORTFOLIO

			Russell Investments (Russell 1000 Index)	Overlay exposure to an index of largest 1,000 stocks (by market cap) in the Russell 3000 Index of 500 of the largest US publicly-traded
	ies ret)	Large Cap (8%)	StateStreet Global Advisors S&P500 Index Fund	companies in US
	US Equities 13% Target)		TOBAM Anti-Benchmark US Equity Fund	Rules-based index focused on a more efficiently diversified benchmark vs. MSCI US
<u>.e</u>	US E(Small Cap (2%)	Russell Investments (Russell 2000 Index)	Overlay exposure to an index of smallest 2,000 stocks (by market cap) in the Russell 3000
Public Equity Portfolio (28% Target)		Volatility (3%)	Russell Investments (Russell 1000 Index)	Overlay exposure to an index of largest 1,000 stocks (by market cap) in the Russell 3000
c Equity Port (28% Target)		Developed Markets (6%)	Russell Investments (MSCI EAFE Index)	Overlay exposure to an index of large/mid-cap stocks across 21 developed markets ex-US/Canada
ublic E	rities		TOBAM Anti-Benchmark World ex-US Fund	Rules-based index focused on a more efficiently diversified benchmark vs. MSCI World ex-US
٦	ial Equ arget)		Mondrian Emerging Markets Equity Fund LP	Value-focused strategy centered on free cash flow generation and dividenddiscount methodology
	nternational Equities (15% Target)	Emerging Markets (6%)	Russell Investments (MSCI EM Index)	Overlay exposure to an index of large/mid-cap stocks across 27 emerging markets
	Inter		TOBAM Anti-Benchmark EM Equity Fund	Rules-based index focused on a more efficiently diversified benchmark vs. MSCI Emerging Markets
		Volatility (3%)	Russell Investments (MSCI EAFE Index)	Overlay exposure to an index of large/mid-cap stocks across 21 developed markets ex-US/Canada



Exhibit A: Page 28

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

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Equity	2,414,211,723	16.7	5.1	88	1.7	98	12.2	99	17.8	99	11.3	99	8.1	99
MSCIACWI			<u>6.7</u>	58	<u>5.6</u>	52	<u>18.5</u>	80	<u>20.4</u>	46	<u>14.4</u>	52	<u>11.9</u>	91
Excess Return			-1.6		-3.9		-6.3		-2.6		-3.1		-3.8	
InvMetrics Public DB Total Eq Net Median			6.8		5.6		20.4		20.2		14.4		13.3	
Domestic Equity With Beta Overlay	2,295,325,454	15.9	8.0	88	6.2	95	20.4	98	21.7	94	13.4	99		
Russell 3000			<u>9.3</u>	46	<u>9.2</u>	44	<u>25.7</u>	58	<u>25.8</u>	7	<u>18.0</u>	9	<u>16.3</u>	5
Excess Return			-1.3		-3.0		-5.3		-4.1		-4.6			
InvMetrics Public DB US Eq Net Median			9.2		9.0		25.9		24.4		16.6		15.3	
Domestic Equity	1,704,301,852	11.8	8.6		7.4	-	22.4		23.1	-	12.9		7.8	
Russell 3000			<u>9.3</u>		<u>9.2</u>		<u>25.7</u>		<u>25.8</u>		<u>18.0</u>		<u>16.3</u>	
Excess Return			-0.7		-1.8		-3.3		-2.7		-5.1		-8.5	
Tobam AB US Equity	452,325,600	3.1	4.3	78	-0.5	89	10.8	90	19.9	69				
Russell 3000			<u>9.3</u>	28	<u>9.2</u>	28	<u>25.7</u>	47	<u>25.8</u>	34	<u>18.0</u>	34	<u>16.3</u>	27
Excess Return			-5.0		-9.7		-14.9		-5.9					
eV All US Equity Net Median			7.3		6.6		25.1		22.7		15.1		14.5	
Large Cap Equity	1,251,727,626	8.7	10.6	15	11.3	14	28.2	32	24.7	39	14.5	54	8.9	99
S&P 500			<u>11.0</u>	12	<u>11.7</u>	12	<u>28.7</u>	29	<u>26.1</u>	32	<u>18.5</u>	31	<u>16.6</u>	24
Excess Return			-0.4		-0.4		-0.5		-1.4		-4.0		-7.7	
eV All US Equity Net Median			7.3		6.6		25.1		22.7		15.1		14.5	
SSgA S&P500	1,250,787,681	8.7	10.6	15	11.3	14	28.2	32	25.4	36	15.9	46	11.7	88
S&P 500			<u>11.0</u>	12	<u>11.7</u>	12	<u>28.7</u>	29	<u> 26.1</u>	32	<u>18.5</u>	31	<u>16.6</u>	24
Excess Return			-0.4		-0.4		-0.5		-0.7		-2.6		-4.9	
eV All US Equity Net Median			7.3		6.6		25.1		22.7		15.1		14.5	
Russell US Large Cap Volatility	939,945	0.0												
Small Cap Equity	248,626	0.0												
Russell US Small Cap Volatility	248,626	0.0												



Exhibit A: Page 29

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

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
International Equity With Beta Overlay	2,880,754,928	20.0	1.1	62	-1.9	64	9.1	29	11.6	92	8.3	97		
MSCI ACWI ex USA Gross			<u>1.9</u>	29	<u>-1.1</u>	45	<u>8.3</u>	43	<u>13.7</u>	61	<u>10.1</u>	49	<u>7.8</u>	68
Excess Return			-0.8		-0.8		8.0		-2.1		-1.8			
InvMetrics Public DB ex-US Eq Net Median			1.3		-1.4		7.7		14.0		10.1		8.2	
International Equity	709,909,871	4.9	-1.6		-8.7	-	-4.6		7.4		6.7	-	6.9	
MSCI ACWI			<u>6.7</u>		<u>5.6</u>		<u>18.5</u>		<u>20.4</u>		<u>14.4</u>		<u>11.9</u>	
Excess Return			-8.3		-14.3		-23.1		-13.0		-7.7		-5.0	
International Developed	194,440,256	1.3	-2.3	99	-5.6	99	-3.3	99	5.4	99	1.9	99	10.2	30
MSCI EAFE			<u>2.7</u>	9	<u>2.2</u>	4	<u>11.3</u>	10	<u>13.5</u>	30	<u>9.5</u>	31	<u>8.0</u>	47
Excess Return			-5.0		-7.8		-14.6		-8.1		-7.6		2.2	
InvMetrics Public DB Dev Mkt ex-US Eq Net Median			1.5		-3.1		6.7		11.6		8.2		7.7	
Russell International Volatility	16,452	0.0												
Tobam AB World Ex-US Equity	194,423,804	1.3	-2.3	95	-5.6	94	-3.3	98	5.1	99				
MSCI ACWI ex USA			<u>1.8</u>	50	<u>-1.2</u>	66	<u>7.8</u>	68	<u>13.2</u>	76	<u>9.6</u>	74	<u>7.3</u>	84
Excess Return			-4.1		-4.4		-11.1		-8.1					
eV All ACWI ex-US Equity Net Median			1.8		0.1		11.0		17.4		12.4		9.7	
International Emerging	515,469,615	3.6	-1.4	-	-9.8	-	-5.2		7.4		7.5	-	3.5	
MSCI Emerging Markets			<u>-1.3</u>		<u>-9.3</u>		<u>-2.5</u>		<u>10.9</u>		<u>9.9</u>		<u>5.5</u>	
Excess Return			-0.1		-0.5		-2.7		-3.5		-2.4		-2.0	
Mondrian	172,718,198	1.2	-1.0	54	-10.8	72	-4.8	71	9.2	82	7.3	90	4.0	97
MSCI Emerging Markets			<u>-1.3</u>	56	<u>-9.3</u>	62	<u>-2.5</u>	65	<u>10.9</u>	67	<u>9.9</u>	56	<u>5.5</u>	70
Excess Return			0.3		-1.5		-2.3		-1.7		-2.6		-1.5	
eV Emg Mkts Equity Net Median			-0.9		-7.6		0.4		12.7		10.3		6.2	
Tobam	342,751,417	2.4	-1.5	60	-9.2	62	-5.5	75	6.5	97	7.5	87		
MSCI Emerging Markets			<u>-1.3</u>	56	<u>-9.3</u>	62	<u>-2.5</u>	65	<u>10.9</u>	67	<u>9.9</u>	56	<u>5.5</u>	70
Excess Return			-0.2		0.1		-3.0		-4.4		-2.4			
eV Emg Mkts Equity Net Median			-0.9		-7.6		0.4		12.7		10.3		6.2	



GLOBAL DEBT STRATEGIES

		Core Fixed Income (2%	Russell Investments (Bloomberg Barclays US Agg. Bond TR	
		Core rixed income (270	index)	Broad-based bond market index of intermediate-term investment grade bonds in US
			Apollo Credit Strategies Fund LP (MCA)	Long/short credit fund focused on capital structure arbitrage, defensive credit, stressed credit and distressed credit
			Apollo Offshore Credit Fund LTD (MCA)	Global credit fund investing in bank loans, structured credit, and bonds
	e)		Bardin Hill Direct Portfolio (MCA)	Separate account co-investing in event-driven/special situation and mispriced credit opportunities
	Ĕæ		Bardin Hill Solutions Fund LP (MCA)	Credit fund with focus on event-driven/special situations
	nc ag		Beach Point Select Fund LP	Credit fund with focus on mispriced credit opportunities
	를 를	Credit Strategies/	GoldenTree Distressed Debt Fund 2010	Fund focused on global distressed, restructuring and turnaround opportunities
	US Fixed Income (15% Target)	High Yield Strategies	GoldenTree Asset Management SMA	SMA with opportunistic relative-value approach to bonds, loans, structured credit, distressted debt and emerging markets
	SL C	(13%)	Kayne Anderson BDC (MCA)	BDC investing in third-party and secondary market CLO opportunities
	_		MacKay Shields High Yield Bond Strategy SMA	SMA investing in non-investment grade corporate debt
			Manulife Asset Management SMA	Long/short SMA specializing in securitized assets (commercial and residential MBS and agency derivatives
			Waterfall - Sutherland (Ready Cap) REIT Holdings LP (MCA)	Publicly traded REIT specializing in small balance commercial real estate loans
			Waterfall Asset Management SMA (MCA)	Separate account co-investing in multi-sector high yield loans and bonds
			Waterfall Victoria Fund LP (MCA)	Fund investing in ABS, primarily residential whole loans originated on a primary or secondary basis
			Russell Investments (Barclays Global Aggregate ex US	
		International Core (0%	Unhedged)	Broad-based bond market index of investment grade debt from 24 local currency markets ex-USD
			Alcentra European Direct Lending Fund	2013 fund investing in European direct lending opportunities
			Alcentra Strategic Credit Fund	2015 fund investing in European CLOs and stressed/distressed credit opportunities
			Alcentra Limited SMA	SMA investing in European and US performing and non-performing bonds/loans, and CLO equity
			Alcentra Structured Credit Opportunity Fund III	2017 fund investing in European CLO opportunities
			Alcentra Viaduct Fund LP	2018 fund investing in European CLO opportunities including CLO warehousing, risk retention, and equity
ies			Cairn Capital Limited SMA	SMA focused on opportunistic European credit, private asset backed, regulatory risk transfer, European CLOs
teg (;				Fund focused on cash-flow oriented European/US regulatory risk transfer, private asset backed loans, structured credit,
get			Cairn Capstone Special Opportunities Fund	hedging
Global Debt Strategies (34% Target)			Cairn Loan Investments	European CLO Risk Retention vehicle
% Det		International	Cairn Loan Investments II	European CLO Risk Retention vehicle
(3, jal		Credit (11%)	Cairn Subordinated Financials Fund II	(Closed) European subordinated financials fund
8			Cairn Pathfinder I	Barclays reg cap risk transfer on UK mid cap corporate RCF
9			Cairn Pathfinder III	Barclays reg cap risk transfer on Global (70% US) large cap corporate RCF
	Fixed Income % Target)		Marathon Asset Management SMA	SMA focused on opportunistic global stressed and distressed credit, restructured real estate, and credit-related real assets
	다. (국		Marathon CLO Equity Fund	Legacy risk retention vehicle that maintains an economic interest in Marathon issued CLO equity
	d d		Marathon European Credit Opportunity Fund II	Fund foucsed on European commercial real estate credit
	šŢ.		Marathon European Credit Opportunity Fund III	Fund foucsed on European commercial real estate credit
	oal Fixed Inco (19% Target)		Marathon Structured Product Strategies Fund	Fund focused on private asset-backed secured debt across mulitple sectors (transports, real estate, healthcare, etc.)
	Global (19		Marathon Structured Product Strategies Fund II	Fund focused on private asset-backed secured debt across mulitple sectors (transports, real estate, healthcare, etc.)
	U		Ashmore Emerging Markets MCA	SMA investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies.
			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 III Private (MCA)	Fund engaged in Argentina-focused corporate direct lending
			Gramercy Distressed Argentina Fund IV Private (MCA)	Fund engaged in opportunistic 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
		Emerging Market	Gramercy Emerging Markets Debt Allocation Fund (MCA)	(Closed) Active sovereign focused pan-EM fund
		Debt (8%)	Gramercy Separate Account (MCA)	Stressed and distressed emerging market credit investments in public and private assets.
			Gramercy Venezuela Opportunity Fund (MCA)	Venezuelan sovereign focused fund
			Gramercy Emerging Markets Dynamic Credit Fund (MCA)	Performing and opportunistic credit in public and private markets weighted with a top down view
			Gramercy Venezuela Opportunity Fund II (MCA)	OFAC compliant Distressed credit related to Venezuela
			Gramercy EM Dislocation Fund (MCA)	(Closed) Fund designed to take advantage of 2020 dislocation
			Gramercy Venezuela Special Situations Fund (MCA)	Litigation financing (e.g. ICSID claims) related to Venezuela
			PGIM Emerging Market Debt Opportunities Fund	Fund investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies.
			Polivi Emerging Market Debt Opportunities Fund	rund investing in sovereign bonds, local bonds, corporate bonds and currencies in emerging economies.



Exhibit A: Page 31

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

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Global Fixed Income With Beta Overlay	4,232,301,371	29.3	1.9		5.1	-	16.7	-	8.3	-	5.1	-		
Bloomberg Global Aggregate TR			<u>-0.7</u>		<u>-1.6</u>		<u>-4.7</u>		<u>3.6</u>		<u>3.4</u>		<u>1.8</u>	
Excess Return			2.6		6.7		21.4		4.7		1.7			
Total Fixed	4,202,101,371	29.1	2.0	1	5.1	1	15.3	1	7.2	1	6.7	1	7.2	1
InvMetrics Public DB Total Fix Inc Net Median			-0.2		-0.1		-1.2		4.6		3.6		3.1	
U.S. Credit Strategies	1,614,857,376	11.2	2.7	1	4.7	1	16.7	1	10.9	1	8.9	1	8.6	2
50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index			<u>0.7</u>	2	<u>1.8</u>	1	<u>5.0</u>	1	<u>7.0</u>	55	<u>5.2</u>	50	<u>5.7</u>	18
Excess Return			2.0		2.9		11.7		3.9		3.7		2.9	
ICE BofA US High Yield TR			0.7	2	1.6	1	5.4	1	8.6	8	6.1	9	6.7	9
eV Global Credit Fixed Inc Net Median			-0.5		-0.7		-1.5		7.2		5.2		4.6	
Stone Tower Offshore Credit (Apollo)	310,429,723	2.2	1.2		5.1		12.0		7.5		6.1	-	7.4	
Beach Point Capital (Formerly Post)	217,556,425	1.5	4.5	1	6.9	1	18.5	1	12.0	1	9.5	1	10.6	1
Mackay / Gold Coast	52,573,189	0.4	0.7	2	1.3	1	4.6	1	8.3	9	6.5	8	7.1	7
Stone Tower Credit (Apollo)	131,378,067	0.9	1.9	4	4.1	1	12.0	1	12.9	2	10.7	1	9.4	1
Gold Coast Capital IV	100,012,753	0.7	-0.1	-	0.3	-	6.5		5.8		5.4	-		
Waterfall Asset Management	39,480,883	0.3	12.8		6.9		38.1		17.5		15.6	-		
Waterfall Victoria	60,359,160	0.4	1.8		4.4		13.9		7.1		7.8	-		
KAYNE ANDERSON BDC, LLC	43,237,942	0.3	2.5		5.4									
MD SASS Waterfall Victoria	28,316,240	0.2	11.2		4.2		40.5		11.8		9.6			
Golden Tree Distressed Debt	8,594,685	0.1	19.4	1	22.5	1	55.7	1	3.1	99	4.3	84	10.1	1
AG Capital	6,196	0.0												
Golden Tree Asset Management	617,500,142	4.3	2.6	1	4.4	1	21.2	1	15.6	1	12.2	1	11.8	1
Russell Interest Rate Hedging	5,411,972	0.0	-22.6	99	-20.7	99	9.3	1	-37.9	99	-29.7	99	-25.2	99



Exhibit A: Page 32

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

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Non-U.S. Fixed Income Composite	2,587,243,995	17.9	1.5	1	5.4	1	14.5	1	4.8	45	5.4	1	6.4	1
Bloomberg Global Aggregate ex US TR			<u>-1.2</u>	99	<u>-2.8</u>	99	<u>-7.1</u>	99	<u>2.5</u>	99	<u>3.1</u>	74	<u>0.9</u>	99
Excess Return			2.7		8.2		21.6		2.3		2.3		5.5	
InvMetrics Public DB Total Fix Inc Net Median			-0.2		-0.1		-1.2		4.6		3.6		3.1	
Non-U.S. Credit Composite	1,518,031,329	10.5	3.8	1	11.0	1	26.0	1	7.5	1	8.2	1	8.4	1
ICE BofA Euro High Yield Constrained TR			<u>-2.2</u>	99	<u>-3.8</u>	99	<u>-3.9</u>	99	<u>5.5</u>	26	<u>5.6</u>	1	<u>5.6</u>	1
Excess Return			6.0		14.8		29.9		2.0		2.6		2.8	
Marathon/Gold Coast	285,377,671	2.0	3.4	1	8.7	1	15.2	1	10.3	2	11.2	1	10.4	1
Halcyon Asset Management	249,835,063	1.7	2.9	1	31.5	1	56.1	1	7.2	50	5.1	66		
ICE BofA Euro High Yield Constrained TR			<u>-2.2</u>	96	<u>-3.8</u>	89	<u>-3.9</u>	86	<u>5.5</u>	91	<u>5.6</u>	28	<u>5.6</u>	18
Excess Return			5.1		35.3		60.0		1.7		-0.5			
eV Global Credit Fixed Inc Net Median			-0.5		-0.7		-1.5		7.2		5.2		4.6	
Cairn Composite	319,992,365	2.2	1.4	1	3.2	1	12.3	1	7.8	11	7.9	1	6.0	15
ICE BofA Euro High Yield Constrained TR			<u>-2.2</u>	96	<u>-3.8</u>	89	<u>-3.9</u>	86	<u>5.5</u>	91	<u>5.6</u>	28	<u>5.6</u>	18
Excess Return			3.6		7.0		16.2		2.3		2.3		0.4	
eV Global Credit Fixed Inc Net Median			-0.5		-0.7		-1.5		7.2		5.2		4.6	
Alcentra - KT1	522,887,999	3.6	6.6	-	11.7		32.9		7.2		9.5			
ICE BofA Euro High Yield Constrained TR			<u>-2.2</u>		<u>-3.8</u>		<u>-3.9</u>		<u>5.5</u>		<u>5.6</u>		<u>5.6</u>	
Excess Return	057.000	2.0	8.8		15.5		36.8		1.7		3.9			
Alcentra SP1 - KT1	957,660	0.0	61.8		61.8		68.3		-16.2					
ICE BofA Euro High Yield Constrained TR			<u>-2.2</u>		<u>-3.8</u>		<u>-3.9</u>		<u>5.5</u>		<u>5.6</u>		<u>5.6</u>	
Excess Return	45 004 044	0.4	64.0		65.6		72.2		-21.7					
Alcentra SP2 - KT1	15,984,641	0.1	0.0		-2.0		22.4		-10.0		 			
ICE BofA Euro High Yield Constrained TR Excess Return			<u>-2.2</u> 2.2		<u>-3.8</u> 1.8		<u>-3.9</u> 26.3		<u>5.5</u> -15.5		<u>5.6</u>		<u>5.6</u>	
	E0 107 967	0.3	3.6		9.8				10.2		11.1			
Alcentra SP3 - KT1 ICE BofA Euro High Yield Constrained TR	50,197,867	0.3	3.6 <u>-2.2</u>				41.1				11.4		<u>5.6</u>	
Excess Return			<u>-2.2</u> 5.8		<u>-3.8</u> 13.6		<u>-3.9</u> 45.0		<u>5.5</u> 4.7		<u>5.6</u> 5.8		<u>5.6</u>	
Alcentra SP4 - KT1	72.798.064	0.5	0.4		3.0	_	10.3		4.7		J.0 			
ICE BofA Euro High Yield Constrained TR	12,130,004	0.5	- <u>2.2</u>		-3.8	-	-3.9		<u>5.5</u>		5.6		<u>5.6</u>	
Excess Return			2.6		<u>-3.6</u> 6.8		<u>-3.9</u> 14.2		<u>J.J</u>		<u>J.0</u>		<u>J.U</u>	



Exhibit A: Page 33

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

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Emerging Markets Debt Composite	1,069,212,665	7.4	-1.5	59	-1.7	42	0.8	12	1.4	96	1.2	99	2.9	67
50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified			<u>-1.5</u>	57	<u>-3.4</u>	69	<u>-5.3</u>	73	<u>4.0</u>	71	<u>3.8</u>	63	<u>3.0</u>	67
Excess Return			0.0		1.7		6.1		-2.6		-2.6		-0.1	
eV All Emg Mkts Fixed Inc Net Median			-1.4		-2.2		-2.5		5.7		4.4		4.2	
Ashmore Emerging Markets Liquid Investments	194,703,543	1.3	-1.5	57	-3.4	69	-5.3	73	4.0	71	3.8	63		
JP Morgan GBI - EM Global Diversified Index			<u>-2.5</u>	88	<u>-5.6</u>	91	<u>-8.7</u>	90	<u>2.1</u>	87	<u>2.8</u>	81	<u>0.7</u>	87
Excess Return			1.0		2.2		3.4		1.9		1.0			
eV All Emg Mkts Fixed Inc Net Median			-1.4		-2.2		-2.5		5.7		4.4		4.2	
Ashmore Local Currency	69,253,802	0.5	-1.8	94	-4.9	99	-8.3	96	-0.8	99	1.7	99	-0.2	99
JP Morgan ELMI+ TR USD			<u>-0.9</u>	78	<u>-2.5</u>	82	<u>-3.1</u>	66	<u>1.2</u>	98	<u>2.3</u>	96	<u>0.5</u>	99
Excess Return			-0.9		-2.4		-5.2		-2.0		-0.6		-0.7	
JP Morgan EMBI Global Index			0.0	27	-0.5	52	-1.5	57	6.1	43	4.5	46	5.0	27
eV All Global Fixed Inc Net Median			-0.3		-0.5		-0.8		5.6		4.3		3.7	
Gramercy Funds Management LLC	690,285,561	4.8	0.0	3	0.9	1	4.1	3	0.3	98	-1.1	99		
JP Morgan ELMI+ TR USD			<u>-0.9</u>	26	<u>-2.5</u>	57	<u>-3.1</u>	58	<u>1.2</u>	96	<u>2.3</u>	91	<u>0.5</u>	90
Excess Return			0.9		3.4		7.2		-0.9		-3.4			
JP Morgan EMBI Global Index			0.0	3	-0.5	12	-1.5	30	6.1	39	4.5	46	5.0	31
eV All Emg Mkts Fixed Inc Net Median			-1.4		-2.2		-2.5		5.7		4.4		4.2	
PGIM Fixed Income	114,969,760	0.8	-6.3	99	-6.4	98	1.7	7	7.9	11	6.9	6		
50% JPM EMBI Global Diversified/ 50% JPM GBI-EM Global Diversified			<u>-1.5</u>	57	<u>-3.4</u>	69	<u>-5.3</u>	73	<u>4.0</u>	71	<u>3.8</u>	63	<u>3.0</u>	67
Excess Return			-4.8		-3.0		7.0		3.9		3.1			
JP Morgan EMBI Global Index			0.0	3	-0.5	12	-1.5	30	6.1	39	4.5	46	5.0	31
eV All Emg Mkts Fixed Inc Net Median			-1.4		-2.2		-2.5		5.7		4.4		4.2	



ABSOLUTE RETURN (ALPHA POOL)

		Apollo Global SMA (MCA)	Credit focused separate account investing in bespoke credit opportunities
	Ares ECO Master Fund II, LTD (MCA) Birch Grove Credit Strategies Fund Corrum Capital Global Credit Opportunities Fund	Corporate debt investments in non-investment grade companies, with a focus on senior bank debt	
		All-weather approach to credit/portfolio construction across capital structure and across all market cycles	
c		Corrum Capital Global Credit Opportunities Fund	Yield-paying principal-protected transactions with collateralization by hard and soft assets
Return Pool) rget)		Corrum Capital GCO Co-Invest Fund	Yield-paying principal-protected transactions with collateralization by hard and soft assets
Absolute Retur (Alpha Pool) (7% Target)	Core & Credit Strategies (7%)	StateStreet Global Advisors Short Term Treasury Strategy SMA	Short term treasury vehicle
Abs (A		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-6, LP	Closed-end risk retention vehicle (effectivley closed)
		Zais Zephyr A-7, LP	Closed-end fund with trigger to opportunistically invest in CLO mezzanine and equity during market distress
		Zais Zephyr A-8, LP	Closed-end fund focused on CLO equity post risk retention requirements



Exhibit A: Page 35

San Bernardino County Employees' Retirement Association

ALPHA POOL STRATEGIES - NET

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Alpha Pool Composite	1,721,825,977	11.9	2.2	37	3.6	31	8.8	54	6.2	94	5.7	66	5.9	28
91 Day T-Bill + 3%			<u>0.8</u>	57	<u>1.5</u>	61	<u>3.0</u>	90	<u>3.9</u>	95	<u>4.1</u>	88	<u>3.6</u>	88
Excess Return			1.4		2.1		5.8		2.3		1.6		2.3	
Alpha Liquidity (Ssga)	206,636,161	1.4	0.0	27	0.1	33	0.1	39	1.3	98	1.4	99	8.0	98
Apollo Global Management	18,140,735	0.1	44.4	1	46.4	1	26.9	1	28.0	1	23.3	1		
Ares Eco Master Fund II	558,099,784	3.9	1.1	6	2.6	3	8.3	1	9.2	5	6.0	12		
Birch Grove Credit Strategies	170,234,376	1.2	1.9	4	3.2	2	15.8	1	9.5	5	8.0	3		
Corrum Capital	189,197,328	1.3	4.5	1	4.5	1	-0.1	42	-3.5	99	1.2	99	2.8	68
Zais	143,575,146	1.0	0.3	19	3.3	1	12.1	1	2.2	96	3.6	70	6.6	8
Zais Group Invest Advisors	374,744,946	2.6	3.1	1	5.4	1	15.4	1	9.2	5	8.5	2		
Zais Zephyr A 6 LP	0	0.0												
Zais Zephyr 8	61,197,500	0.4	4.0	1	6.2	1	15.4	1						
Zais Zephyr 7	0	0.0												



PRIVATE ASSETS

				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
				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
				Kayne Partners Fund IV LP (MCA)	2016 fund investing in middle market growth equity opportunities in US companies
				Kayne Partners Fund V LP (MCA)	2020 fund investing in middle market growth equity opportunities in US companies
				Partners Group Direct Equity 2016 (MCA)	Global portfolio of direct private equity deals
			Buyout Funds	Partners Group Direct Equity 2019 (MCA)	Global portfolio of direct private equity deals
				Partners Group Direct Investments 2012 LP (MCA)	Global portfolio of direct private equity deals
				Partners Group European Buyout 2005 (A) LP	Fund of funds focused on buyouts, direct investments, and select secondary investments in Europe
				Waterfall PE Coinvest (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 VI LP (MCA)	Fund of funds focused on small but well-established US venture capital funds
		Ę		Industry Ventures Partnership Holdings II LP (MCA)	2011 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
		è Eq.		Industry Ventures Partnership Holdings III LP (MCA)	2013 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
		Private Equity	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
		ŭ.		Industry Ventures Partnership Holdings IV LP (MCA)	2016 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
	get)			Industry Ventures Partnership Holdings V LP (MCA)	2019 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
	Private Assets (18% Target)			Industry Ventures Partnership Holdings VI LP (MCA)	2021 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments
	%8				
	s (1			Industry Ventures Tech Buyout, LP (MCA) Aberdeen Standard Secondary Opportunities Fund IV	2018 fund investing in small high growth tech companies 2020 fund investing in secondary purchases of PE fund of funds and other complex transactions
	set			Industry Ventures Secondary VII LP (MCA)	2013 fund investing in secondary purchases of Pe fund of funds and other complex transactions 2013 fund investing in secondary transactions in venture capital opportunities
	As			Industry Ventures Secondary VII LP (MCA)	2017 fund investing in secondary transactions in venture capital opportunities
	ate			Industry Ventures Secondary VIII LP (MCA)	2021 fund investing in secondary transactions in venture capital opportunities
	<u>.</u>			Lexington Capital Partners VI	Fund of funds focused mainly on buyout funds in US and Western Europe
	Δ.			Lexington Capital Partners VII	Fund of funds focused mainly on buyout funds in US and Western Europe
			Secondary Funds	Lexington Middle Market Investors I	Fund of funds focused mainly on buyout funds in OS and Western Europe 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
				cronin	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 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
				Kayne Anderson Energy Fund VII LP	2017 fund investing in US upstream energy companies with a focus on growing enterprise value
			Sector Specific Funds	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
				Ares Private Credit Solutions Fund (MCA)	Junior debt investments in large private companies
					2020 fund investing in the equity and debt of renewable power generating companies
				Tennenbaum Lending Fund VIII LLC (MCA)	Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA
				Tennenbaum Waterman Fund LP (MCA)	Senior 1L loans to middle-market companies, primarily in the US
				Ares ICOF II (MCA)	Structured credit in CLO vehicles and private asset-backed credits
				Ares ICOF III (MCA)	Structured credit in CLO vehicles and private asset-backed credits
				Ares SMA (MCA)	Separate account in liquid credit and income-focused opportunities
		ept		Ares Special Situations Fund IV (MCA)	Global distressed debt and special situations
		Private Debt		Catalyst Fund LP II	2006 fund investing in Canadian stressed/distressed investment opportunities
		rate		Crestline Portfolio Financing Fund	Financing to late-stage private equity funds and GPs
		,i	Credit/Distressed/	Crestline Portfolio Financing Fund II	Financing to late-stage private equity funds and GPs
			Opportunistic/	Kayne Anderson CLO Partners II (MCA)	2020 fund investing in CLOs issued by Kayne Anderson
			Special Situations	Kayne Anderson Solutions Fund (MCA)	2017 fund investing in special situation opportunities in US credit
				Siguler Guff Distressed Opportunity Fund III LP	2009 fund-of-fund investing in US and International opportunistic credit funds and co-investments
				Tennenbaum Co-Invest (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)	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	SBCERA headquarters
	6		Invesco Real Estate Asia Fund	Asia-focused open-ended core real estate fund
	Core Real Estate (2.5%)		Kayne Anderson Real Estate Debt III (MCA)	2018 fund investing in first-lien US residential mortgage debt
	state	Comp Book February	Kayne Anderson Real Estate Debt IV (MCA)	2020 fund investing in first-lien US residential mortgage debt
	eal Es	Core Real Estate	Marathon Real Estate Debt Fund	Fund investing in senior secured first mortgage loans in the US
	ore R		PRISA II	US core-plus open-ended real estate equity fund with low leverage
	8		PGIM Real Estate Capital VI LP	European (UK and Germany focused) mezzanine lending fund for value-add real estate projects
₽			PGIM Real Estate Capital VII LP	European (UK and Germany focused) mezzanine lending fund for value-add real estate projects
ge			Polivi Real Estate Capital VII LP	projects
Real Estate Portfolio (7% Target)			Apollo Real Estate Fund II LP (MCA)	2015 fund investing in value-add US real estate opportunities
lio (7			Apollo Real Estate Fund III LP (MCA)	2020 fund investing in value-add US real estate opportunities
ortfo			Bryanston Retail Opportunity	2004 fund investing in value-add US real estate opportunities in the retail sector
ate P	©		Fortress Japan Opportunity Fund II	2011 fund investing in value-add Japanese real estate opportunities
al Est	Non-Core Real Estate (2.5%)	Enhanced Real	Kayne Anderson Real Estate Partners V LP (MCA)	2017 fund investing in value-add US real estate opportunities
Re	state	Estate/ High Return	Kayne Anderson Real Estate Partners VI LP (MCA)	2021 fund investing in value-add US real estate opportunities
	ea E		Morgan Stanley RE Fund V International	2005 fund investing in value-add International real estate opportunities
	ore R		Oaktree RE Opportunities Fund V	Diversified value-add US real estate equity fund, close-ended
	on-C		PRISA III	Value-add US Real Estate Equity Fund, open ended
	Ž		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 real estate in the US
			Partners Group Real Estate Secondary 2013 A LP	Global private real estate fund interests purchased on the secondary market at discounts to
		Real Estate	(MCA)	intrinsic value
	Secondari		Partners Group Real Estate Secondary 2017 A LP	Global private real estate fund interests purchased on the secondary market at discounts to
			(MCA)	intrinsic value



REAL ASSETS PORTFOLIO

		Energy Spectrum Partners VI LP	2011 fund investing in US middle market midstream energy sector
	Commodities (4% Target)	Pinnacle Natural Resources LP	Commodity fund of funds with both directional and relative value exposure across multiple commodities
		Pinnacle Physicals & Financing LTD	Multi-manager fund focused on physical commodities (livestock, metals, energy and agriculture)
l Asset Portfolio (6% Target)	Infrastructure (2% Target)	Kayne Anderson MLP Strategy (MCA)	Separate account opportunistically investing in publicly traded US MLP securities
Real As: (6%	(0% Target)	Hancock Timberland VIII LP Timbervest Crossover Partners II LP Timbervest Partners 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) Smaller timber properties (3,000-30,000 acres) in the US



Exhibit A: Page 39

San Bernardino County Employees' Retirement Association ALTERNATIVES - NET

	Market Value (\$)	% of Portfolio	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Private Equity Composite	2,546,551,585	17.6	7.4	-	18.7	-	48.4		23.7	-	20.9	-	16.5	
C A Global All PE (Qtr Lag)			<u>4.8</u>		<u>16.9</u>		<u>48.0</u>		<u>22.4</u>		<u>19.9</u>		<u>15.9</u>	
Excess Return			2.6		1.8		0.4		1.3		1.0		0.6	
Russell 3000			9.3		9.2		25.7		25.8		18.0		16.3	
C A US All PE (1 Qtr Lag)			5.7		19.5		46.8		21.3		19.8		16.4	
Real Estate Composite	539,651,506	3.7	7.1	72	10.7	82	16.1	85	8.7	64	7.2	96	8.7	93
NCREIF Property Index 1 Qtr. Lag			<u>5.2</u>	84	<u>9.0</u>	90	<u>12.2</u>	99	<u>6.7</u>	97	<u>6.8</u>	98	<u>9.0</u>	91
Excess Return			1.9		1.7		3.9		2.0		0.4		-0.3	
InvMetrics Public DB Real Estate Pub+Priv Net Median			10.0		15.5		22.5		9.3		8.7		10.4	
Real Assets Composite	536,247,862	3.7	6.3		9.2	-	22.6		12.5		7.6		5.2	
Real Assets Custom Blend			<u>-0.2</u>		<u>4.8</u>		<u>20.0</u>		<u>8.8</u>		<u>4.9</u>		<u>1.9</u>	
Excess Return			6.5		4.4		2.6		3.7		2.7		3.3	
67% Bloomberg Commodity/ 33% Barclays US TIPS			-0.2		4.8		20.0		9.7		4.4		-0.7	
Timber	25,865,396	0.2	-0.3		-2.0		-4.9		-5.1		-3.1		0.9	
NCREIF Timberland 1 Qtr. Lag			<u>1.9</u>		<u>3.6</u>		<u>5.0</u>		<u>2.4</u>		<u>2.9</u>		<u>4.9</u>	
Excess Return			-2.2		-5.6		-9.9		-7.5		-6.0		-4.0	
Infrastructure	71,218,622	0.5	-0.2		-3.1		25.0		14.2	-	9.2	-	4.5	
Russell 3000			<u>9.3</u>		<u>9.2</u>		<u>25.7</u>		<u>25.8</u>		<u>18.0</u>		<u>16.3</u>	
Excess Return			-9.5		-12.3		-0.7		-11.6		-8.8		-11.8	
Commodities	439,163,844	3.0	8.0		13.1		22.0		15.1		11.1	-	6.4	
Bloomberg Commodity Index			<u>-1.6</u>		<u>4.9</u>		<u>27.1</u>		<u>9.9</u>		<u>3.7</u>		<u>-2.9</u>	
Excess Return			9.6		8.2		-5.1		5.2		7.4		9.3	



Exhibit A: Page 40



REAL ESTATE PERFORMANCE

AS OF JUNE 30, 2021

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Cumulative Distributions	Valuation	TVPI Ratio	IRR
American Realty Advisors Tuckerman Multi-Family Development Fund III	1996 2002	128,009,773 10,000,000	128,009,773 10,219,311	0 0	278,446,295 16,939,699	0 0	2.18 1.66	6.89% 26.67%
CBRE Strategic Partners III Prudential PRISA III Walton Street Real Estate Fund IV, LP	2003 2003 2003	10,000,000 75,000,000 10,000,000	10,000,000 63,058,273 9,770,890	0 11,941,727 229,110	12,698,783 53,533,571 15,939,604	0 65,215,531 66,256	1.27 1.78 1.64	8.02% 17.26% 10.72%
Bryanston Retail Opportunity Fund, L.P.	2004	20,000,000	8,228,165	11,771,835	22,451,678	12,205,504	4.21	70.75%
Prudential PRISA II RREEF America REIT III BlackRock Diamond Property Fund	2004 2004 2005	140,000,000 20,000,000 25,000,000	140,000,000 20,539,309 25,000,000	0 0 0	56,734,444 23,658,675 15,233,347	175,456,612 0 0	1.59 1.15 0.61	7.45% 3.00% -9.31%
CBRE Strategic Partners IV INVESCO Real Estate Fund I LaSalle Income & Growth Fund IV	2005 2005 2005	40,000,000 10,000,000 20,000,000	40,000,000 9,248,390 19,469,417	0 0 0	2,609,685 10,015,656 13,482,024	0 0 0	0.07 1.08 0.69	-27.76% 1.54% -5.51%
North Haven Real Estate Fund V International	2005	27,500,000	27,377,414	122,586	32,070,486	1,137,143	1.21	6.78%
Prologis Japan Fund Tri Continental Capital VII American Realty Value Add Beacon Capital Strategic Partners IV, L.P.	2005 2005 2006 2006	25,290,819 23,000,000 13,125,215 38,000,000	25,290,819 22,277,928 13,125,215 38,000,000	722,072 0 0	33,126,118 3,075,156 32,080,321 31,424,699	0 445,990 0 0	1.31 0.16 2.44 0.83	4.81% -15.52% 10.92% -3.26%
Fillmore East Fund Starwood Capital Hospitality Fund I-2	2006 2006	25,000,000 30,000,000	31,403,818 30,000,000	0	20,777,177 27,879,087	0 2,495,367	0.66 1.01	-9.78% 0.16%
Starwood Opportunity Fund VII - A	2006	25,000,000	25,000,000	0	19,517,190	622,985	0.81	-2.34%
Walton Street Real Estate Fund V, LP	2006	40,000,000	40,000,000	0	26,758,768	2,759,942	0.74	-3.28%
Beacon Capital Strategic Partners V, L.P.	2007	18,000,000	18,000,000	0	11,174,695	0	0.62	-7.87%
Invesco Asian Real Estate Partners II (USD), LP	2007	20,000,000	8,412,833	1,569,056	11,465,147	0	1.36	7.52%
Invesco High Yield Debt Fund I Square Mile Partners II Fillmore West Fund Square Mile Partners III LP Starwood Debt Fund II, LP Structured Real Estate III, LP (Guggenheim)	2007 2007 2008 2008 2008 2008	20,000,000 19,831,232 20,000,000 20,000,000 20,000,000 20,000,00	20,000,000 19,831,232 19,561,557 19,730,190 17,599,882 20,000,000	0 0 0 269,810 0	8,567,605 5,311,330 21,175,799 28,756,613 21,912,511 16,320,664	0 0 0 53,891 0	0.43 0.27 1.08 1.46 1.25 0.82	-35.57% -19.11% 1.14% 11.50% 6.45% -4.99%
Bryanston Real Estate Opportunity Fund II, L.P.	2009	20,000,000	8,589,256	0	11,851,333	0	1.38	10.20%
Fortress Japan Opportunity Fund II	2012	21,739,130	2,714,510	19,024,620	23,868,875	3,608,784	9.20	25.63%
Oaktree Real Estate Opportunities V	2012	25,000,000	25,000,000	0	38,293,074	1,495,027	1.56	12.83%
Invesco Real Estate Asia Fund Partners Group RE Secondary 2013 (USD) A	2014 2014	51,732,500 65,000,000	51,732,500 49,541,590	0 15,458,410	14,037,368 24,769,953	70,573,401 44,021,459	1.56 1.40	7.46% 9.19%
Apollo US Real Estate Fund II Pramerica Real Estate Capital VI Kayne Anderson Real Estate Partners V	2015 2016 2017	20,000,000 25,383,664 20,000,000	15,542,308 24,459,070 16,425,000	4,457,692 924,594 3,575,000	4,987,840 8,232,815 1,193,140	15,394,516 14,641,087 21,450,442	1.31 0.93 1.39	9.04% -3.81% 16.27%
Partners Group RE Secondary 2017 (USD) A	2017	75,000,000	42,071,273	32,928,727	118,130	50,227,162	1.20	8.63%
Kayne Anderson Real Estate Debt III	2018	20,000,000	19,828,428	171,572	6,732,851	16,309,410	1.16	9.68%
Total: San Bernardino		1,256,612,333	1,135,058,351	103,166,812	1,007,222,208	498,180,508	1.31	4.24%



Note: All metrics are calculated since inception

* Denotes cash adjusted

REAL ASSETS PERFORMANCE

AS OF JUNE 30, 2021

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	20,771,925	19,519,835	1.01	0.06%
Highstar Capital III, L.P.	2007	60,000,000	59,119,119	880,881	63,076,794	237,033	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	49,225,000	2,726,270	1.04	0.40%
Timbervest Crossover Partners II, L.P.	2008	30,000,000	30,000,000	0	18,014,831	8,814,794	0.89	-1.54%
Fortress Transportation Infrastructure LLC	2015	45,403,354	45,403,354	0	41,902,882	0	0.92	-1.99%
Total: San Bernardino		365,403,354	364,522,473	880,881	349,373,086	31,297,932	1.04	0.52%



PRIVATE EQUITY PERFORMANCE

AS OF JUNE 30, 2021

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Cumulative Distributions	Valuation	TVPI Ratio	IRR
European Strategic Partners 2004	2004	238,620,736	221,331,191	17,289,545	277,541,806	3,237,931	1.27	3.97%
Partners Group MCA	2004	800,000,000	828,208,797	-28,208,797	652,167,539	624,149,811	1.54	9.24%
Pathway Private Equity Fund VII, L.P.	2004	904,500,000	856,209,992	48,290,008	1,310,938,658	376,081,156	1.97	11.99%
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	38,606,676	2,180,719	1.65	11.48%
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	34,003,106	1,299,939	1.44	6.95%
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	409,024	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	33,950,522	3.77	13.21%
Tennenbaum Opportunities Fund V, L.P.	2007	10,000,000	10,000,000	0	12,412,318	2,261,903	1.47	5.43%
Apollo Investment Fund VII, L.P.	2008	10,000,000	8,789,116	1,210,884	16,721,096	1,041,701	2.02	22.77%
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	27,196,010	326,212	2.90	29.33%
Lexington Middle Market II - Offshore	2008	10,000,000	9,773,736	226,264	14,584,152	3,180,516	1.81	14.75%
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	14,232,279	1,851,598	1.66	10.76%
TCW/Crescent Mezzanine V, L.P.	2008	20,000,000	19,949,723	50,277	27,301,678	152,299	1.38	9.82%
Apollo European Principal Finance Fund (Feeder), LP	2009	53,001,432	46,434,825	6,566,607	69,228,391	246,082	1.50	11.80%
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	31,159,085	29,160,276	1,998,809	33,227,881	10,295,160	1.48	8.71%
Industry Ventures Fund VI	2011	20,000,000	18,400,000	1,600,000	24,410,738	986,974	1.38	8.27%
Lexington Capital Partners VII (Offshore)	2011	25,000,000	20,409,757	4,590,243	28,866,662	5,328,515	1.67	15.01%
Tennenbaum Opportunities Fund VI, L.P.	2011	20,000,000	9,501,887	10,498,113	12,531,656	7,654,191	2.12	9.27%
Aurora Equity Partners IV, L.P.	2012	20,000,000	17,262,661	2,737,339	36,915,470	4,010,692	2.06	18.52%
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	32,790,204	82,796,846	4.92	27.46%
Tennenbaum Waterman Fund, LP	2012	70,000,000	70,000,000	0	61,329,234	69,279,155	1.87	11.47%
Industry Ventures Partnership Holdings Fund III, L.P.	2013	25,000,000	23,277,042	1,722,958	33,063,312	57,105,960	3.87	30.33%
Industry Ventures Secondary VII, L.P.	2013	25,000,000	23,175,000	1,825,000	30,077,480	19,248,464	2.13	19.48%



Note: All metrics are calculated since inception

^{*} Denotes cash adjusted

PRIVATE EQUITY PERFORMANCE

AS OF JUNE 30, 2021

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Cumulative Distributions	Valuation	TVPI Ratio	IRR
Industry Ventures Partnership Holdings	2014	12,500,000	11,087,500	1,412,500	6,369,499	6,862,590	1.19	4.27%
Fund III-A, L.P.								
Pathway SBCERA MCA	2014	250,000,000	234,012,065	15,987,935	65,711,500	515,066,106	2.48	26.21%
SL Capital SOF I LP	2014	25,000,000	21,362,512	3,637,488	23,569,114	7,615,437	1.46	11.88%
ARES European Loan Opp Fund	2015	15,000,000	8,413,136	0	7,613,498	0	0.90	-6.02%
Ares Special Situations Fund IV, LP	2015	50,000,000	47,686,469	2,313,531	14,194,003	47,442,414	1.29	6.46%
Tennenbaum Special Situations Fund IX	2015	50,000,000	36,349,480	13,650,520	23,960,830	40,555,986	1.77	15.64%
Industry Ventures Direct, LP	2016	25,000,000	22,745,425	2,254,575	6,820,948	41,644,412	2.13	29.85%
Industry Ventures Partnership Holdings IV, LP	2016	25,000,000	21,500,000	3,500,000	3,835,128	40,930,677	2.08	29.70%
Industry Ventures Special Opportunities II-A	2016	12,500,000	1,618,222	10,881,778	1,045,940	4,326,494	3.32	64.31%
TCP Direct Lending Fund VIII-L, LLC	2016	40,000,000	35,477,991	4,522,009	16,611,370	26,564,495	1.21	7.27%
Tennenbaum Energy Opportunities Fund, LP	2016	20,000,000	9,670,678	10,329,322	8,202,237	5,892,605	1.46	9.54%
Apollo Accord Fund, LP	2017	30,000,000	7,500,000	22,500,000	8,310,474	0	1.11	7.44%
Industry Ventures Secondary VIII	2017	25,000,000	22,525,000	2,475,000	11,149,082	50,372,823	2.73	66.58%
Kayne Anderson Energy Fund VII, L.P.	2017	10,000,000	8,614,431	1,385,569	312,921	3,717,515	0.47	-19.72%
Kayne Partners Fund IV (QP), LP	2017	20,000,000	17,285,246	2,714,754	3,663,417	24,339,405	1.61	22.06%
Kayne SBCERA MLP	2017	130,000,000	126,225,037	3,774,963	36,875,705	97,566,970	1.07	1.88%
SL Capital SOF III LP	2017	25,000,000	16,322,191	8,677,809	3,376,275	25,120,538	1.75	27.50%
Crestline Portfolio Financing Fund	2018	50,000,000	36,161,186	13,838,814	12,076,918	34,047,732	1.28	13.53%
Industry Ventures Partnership Holdings	2018	25,000,000	17,250,000	7,750,000	437,267	28,897,222	1.70	59.08%
V, LP	0040	50,000,000	00 400 400	00 500 000	0	00 040 740	4.04	00 000/
Industry Ventures Tech Buyout LP	2018	50,000,000	29,406,108	20,593,892	0	36,340,718	1.24	33.03%
Kayne Anderson Private Energy Income Fund II, L.P.	2018	20,000,000	3,880,000	16,120,000	1,825,911	6,543,092	2.16	41.55%
Kayne Flywheel Co-investment LLC	2018	8,000,000	6,400,000	1,600,000	3,227,873	12,812,739	2.51	49.17%
Kayne SBCERA (D.I.)	2018	45,000,000	40,660,422	4,339,578	43,663,344	7,552,557	1.26	23.55%
Kayne Solutions Fund LP	2018	20,000,000	9,603,281	10,396,719	10,700,561	5,072,309	1.64	38.54%
Industry Ventures Direct II, LP	2019	50,000,000	23,954,121	26,045,879	0	29,884,037	1.25	31.58%
Kayne Renewable Opportnities Partners (TE), LP	2019	100,000,000	12,799,504	87,200,496	6,545,066	13,749,526	1.59	25.16%
Waterfall Sentinel Co-Investments	2019	30,000,000	23,484,161	6,515,840	0	34,262,580	1.45	21.87%
Waterfall Sentinel Fund	2019	30,000,000	17,744,263	12,255,737	757,172	22,661,834	1.32	14.25%
Adams Street SBCERA	2020	50,000,000	33,121,446	16,878,554	0	49,157,207	1.48	91.52%
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	39,503,858	10,496,142	17,744,802	27,681,345	1.15	22.83%
Total: San Bernardino		3,914,859,955	3,473,388,973	417,835,474	3,437,069,743	2,553,347,711	1.72	9.49%



Note: All metrics are calculated since inception

* Denotes cash adjusted

Exhibit A: Page 45

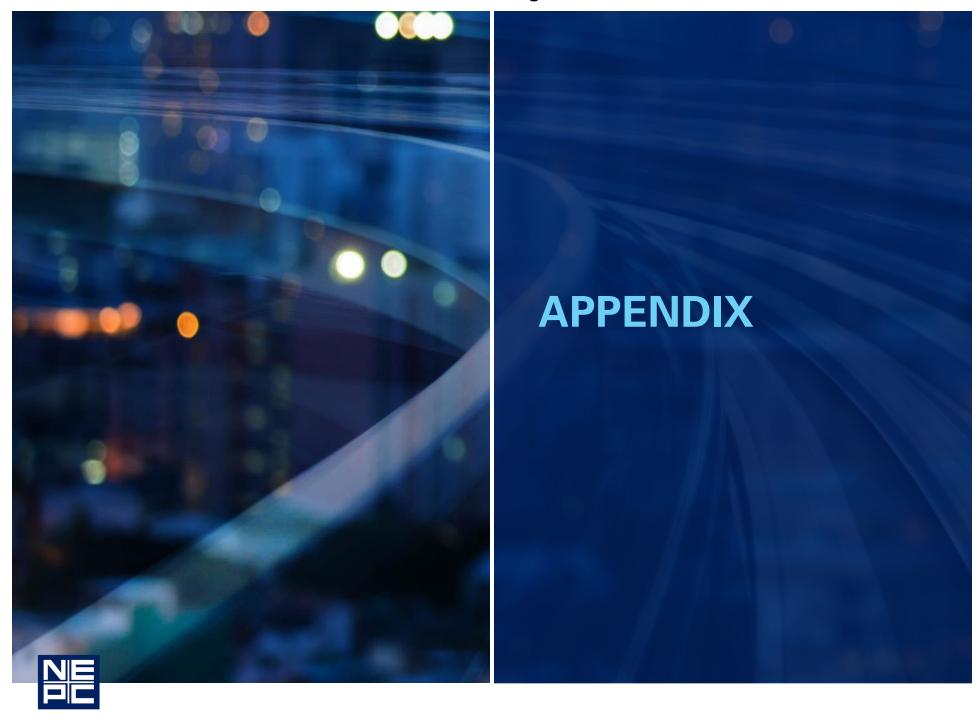
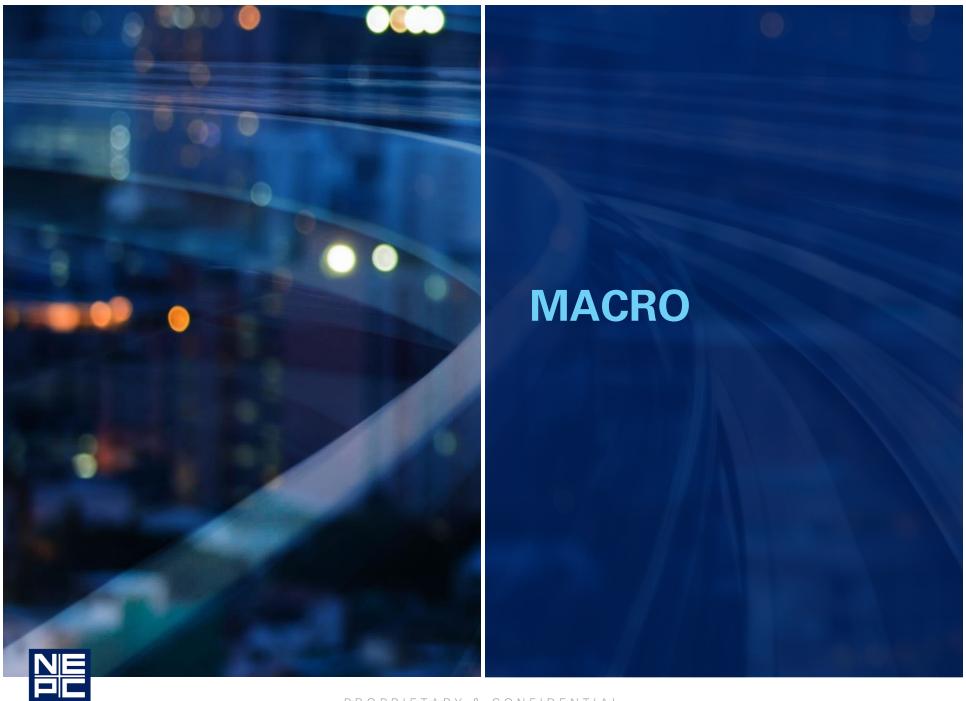


Exhibit A: Page 46



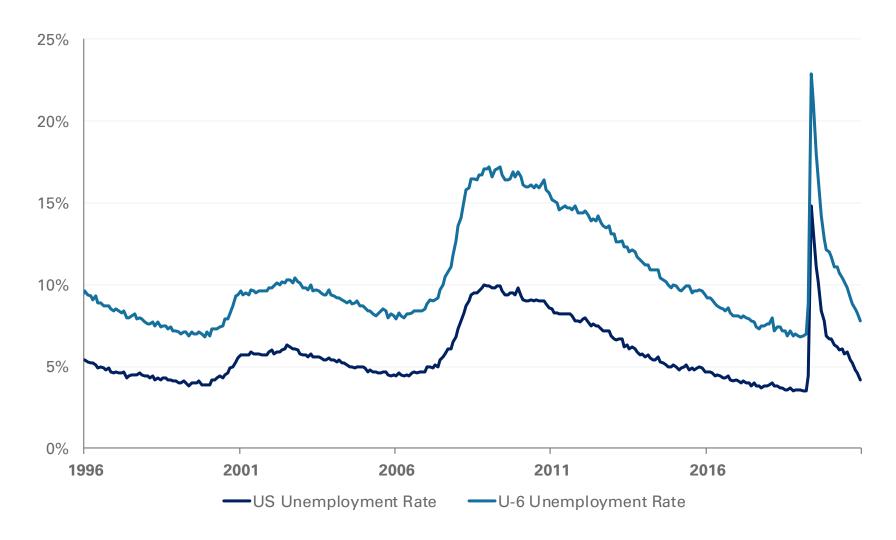
INFLATION

U.S. CONSUMER PRICE INDEX





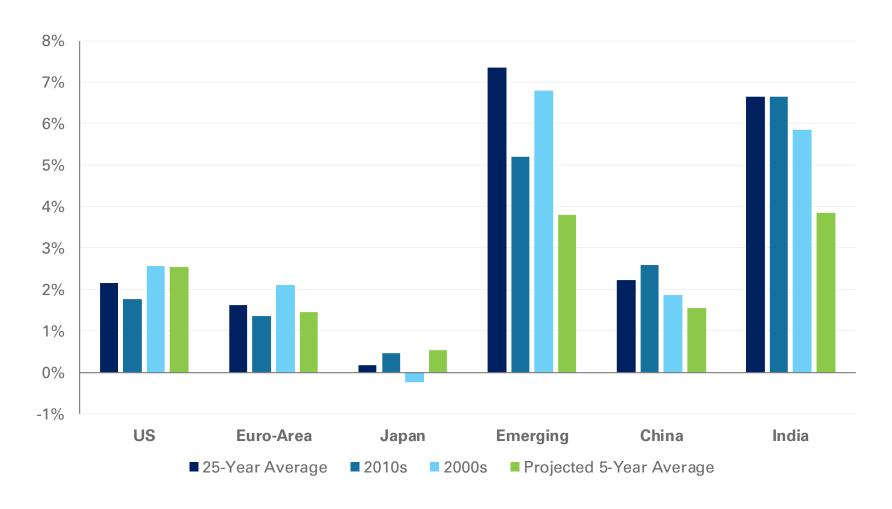
U.S. UNEMPLOYMENT RATES





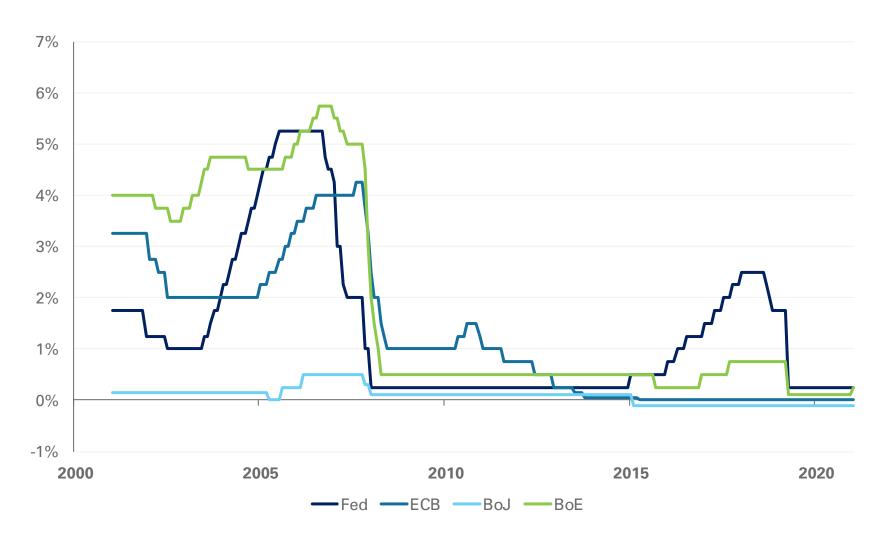
HISTORICAL INFLATION

IMF PROJECTIONS





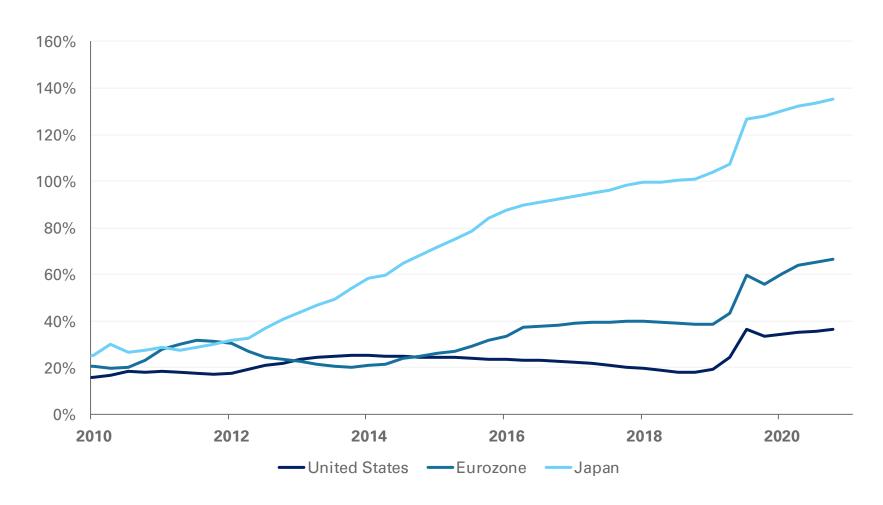
CENTRAL BANK POLICY RATES





CENTRAL BANK BALANCE SHEETS

AS A PERCENTAGE OF GDP





CURRENCIES

RELATIVE TO THE U.S. DOLLAR

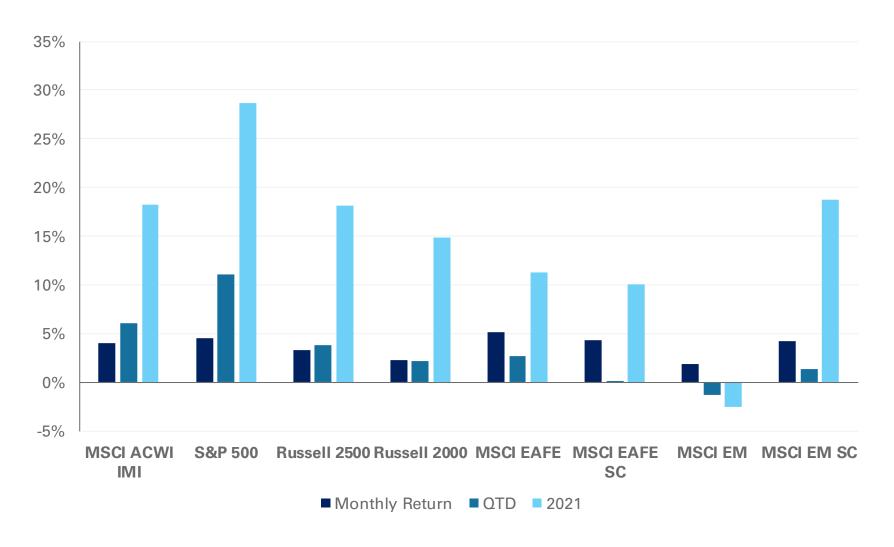
Currencies	Spot	1 Month	QTD	2021
Euro	1.14	1.0%	-1.9%	-7.1%
British Pound	1.35	2.4%	0.5%	-0.9%
Japanese Yen	115.16	-1.4%	-3.1%	-10.3%
Swiss Franc	0.91	1.6%	2.4%	-3.0%
Australian Dollar	0.73	2.5%	0.7%	-5.8%
New Zealand Dollar	1.46	0.9%	-0.8%	-4.9%
Canadian Dollar	1.26	1.6%	0.3%	0.9%
Chinese Yuan	6.37	0.0%	1.4%	2.6%
Taiwanese Dollar	27.67	0.5%	0.7%	1.6%
Korean Won	1189	-0.1%	-0.4%	-8.6%
Vietnmaese Dong	22790	-0.4%	-0.1%	1.3%
Thai Baht	33.41	0.9%	1.3%	-10.3%
Philippines Peso	50.99	-1.2%	0.0%	-5.8%
Indian Rupee	74.34	1.1%	-0.1%	-1.7%
Russian Ruble	75.01	-0.8%	-3.0%	-1.4%
Mexican Peso	20.47	5.0%	0.4%	-2.6%
Brazilian Real	5.57	1.4%	-2.2%	-6.7%
Chilean Peso	0.03	-0.2%	-2.2%	-11.0%
Argentine Peso	102.69	-1.7%	-3.8%	-18.1%
South African Rand	15.96	0.4%	-5.7%	-8.0%



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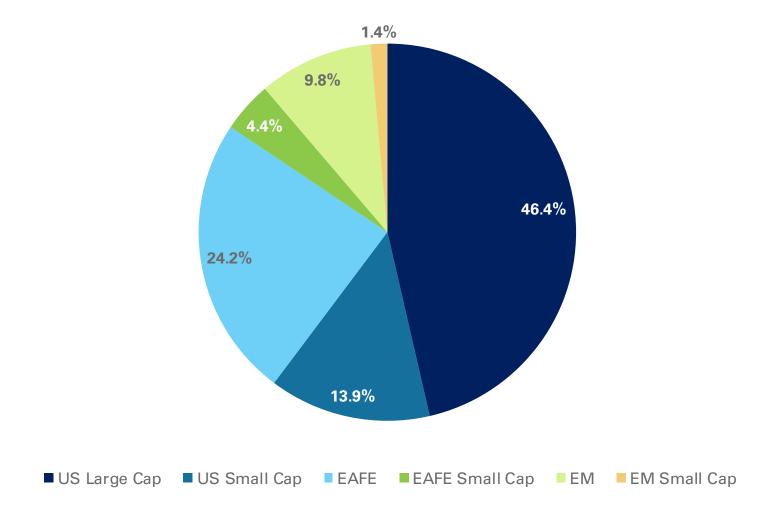


EQUITY INDEX PERFORMANCE





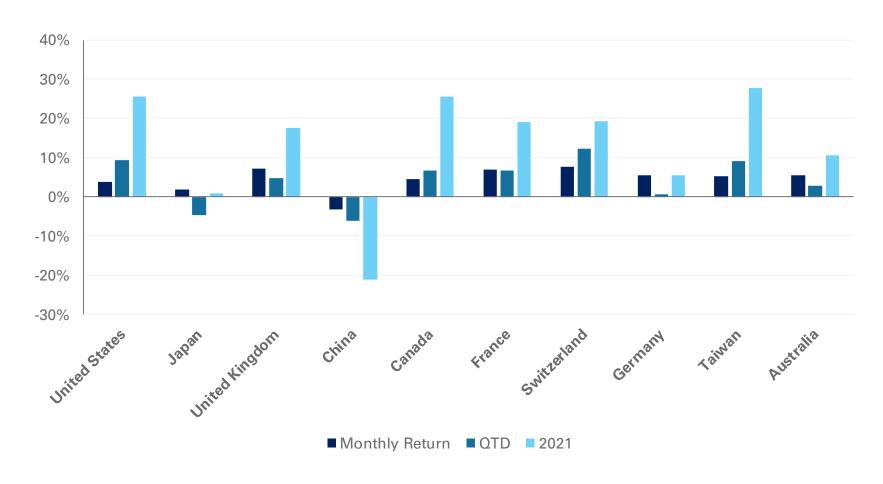
MSCI ACWI IMI WEIGHTS





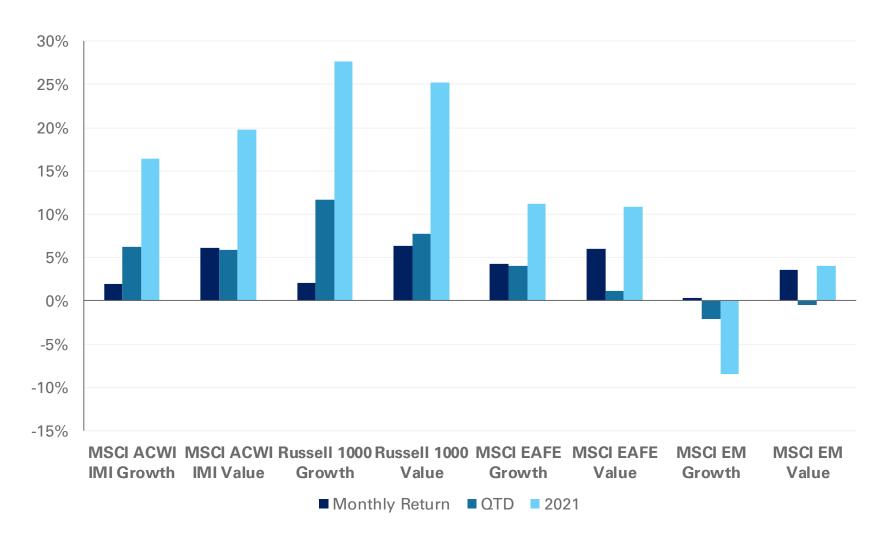
EQUITY INDEX PERFORMANCE

TOP 10 COUNTRIES BY MARKET CAP IN MSCI ACWI IMI INDEX





STYLE INDEX PERFORMANCE





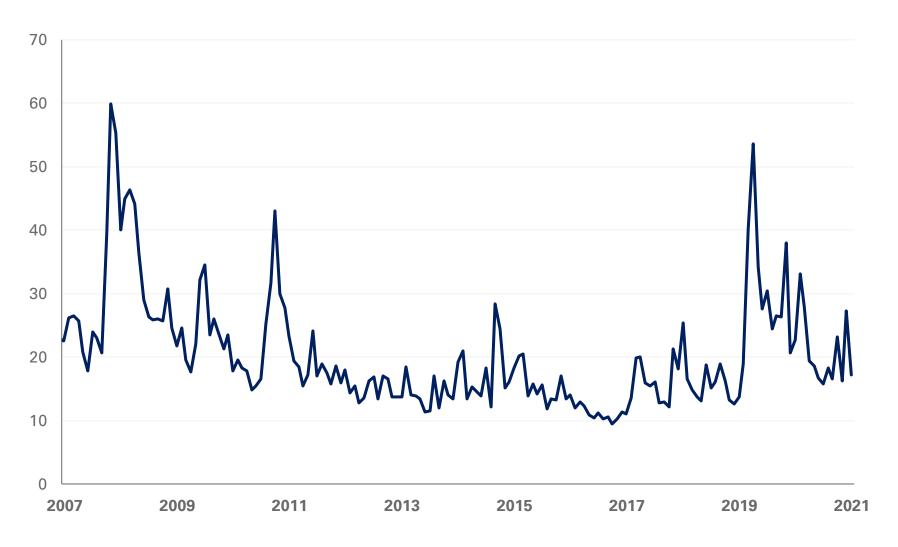
SECTOR INDEX PERFORMANCE

	Monthly Return	QTD	2021	Index Weight
MSCI ACWI IMI	4.0%	6.1%	18.2%	100.0%
Communication Services	1.5%	-1.7%	10.2%	7.9%
Consumer Discretionary	0.1%	5.2%	9.8%	12.5%
Consumer Staples	7.7%	7.4%	10.4%	6.5%
Energy	3.8%	2.5%	37.6%	3.4%
Financials	4.0%	3.1%	24.6%	13.8%
Health Care	6.2%	5.1%	14.2%	11.5%
Industrials	5.1%	5.2%	17.4%	10.7%
Information Technology	3.0%	12.0%	26.4%	22.3%
Materials	6.2%	6.7%	15.4%	5.1%
Real Estate	6.7%	8.5%	22.5%	3.6%
Utilities	7.7%	9.7%	10.3%	2.7%

	Monthly Return	QTD	2021	Index Weight
S&P 500	4.5%	11.0%	28.7%	100.0%
Communication Services	2.5%	0.0%	21.6%	10.2%
Consumer Discretionary	-0.3%	12.8%	24.4%	12.5%
Consumer Staples	10.3%	13.3%	18.6%	5.9%
Energy	3.1%	8.0%	54.6%	2.7%
Financials	3.3%	4.6%	35.0%	10.7%
Health Care	9.0%	11.2%	26.1%	13.3%
Industrials	5.3%	8.6%	21.1%	7.8%
Information Technology	3.4%	16.7%	34.5%	29.2%
Materials	7.6%	15.2%	27.3%	2.6%
Real Estate	10.2%	17.5%	46.2%	2.8%
Utilities	9.6%	12.9%	17.7%	2.5%



EQUITY VOLATILITY INDEX (VIX)





GLOBAL EQUITY VALUATIONS

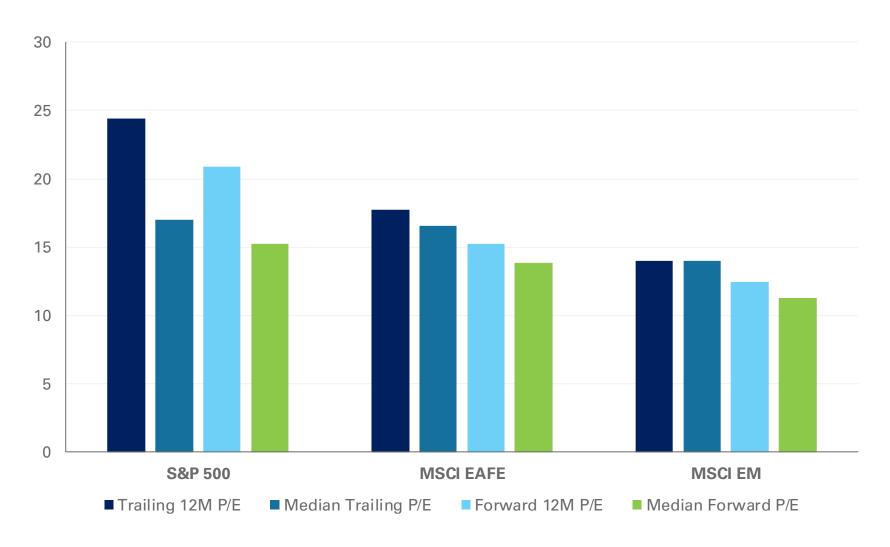
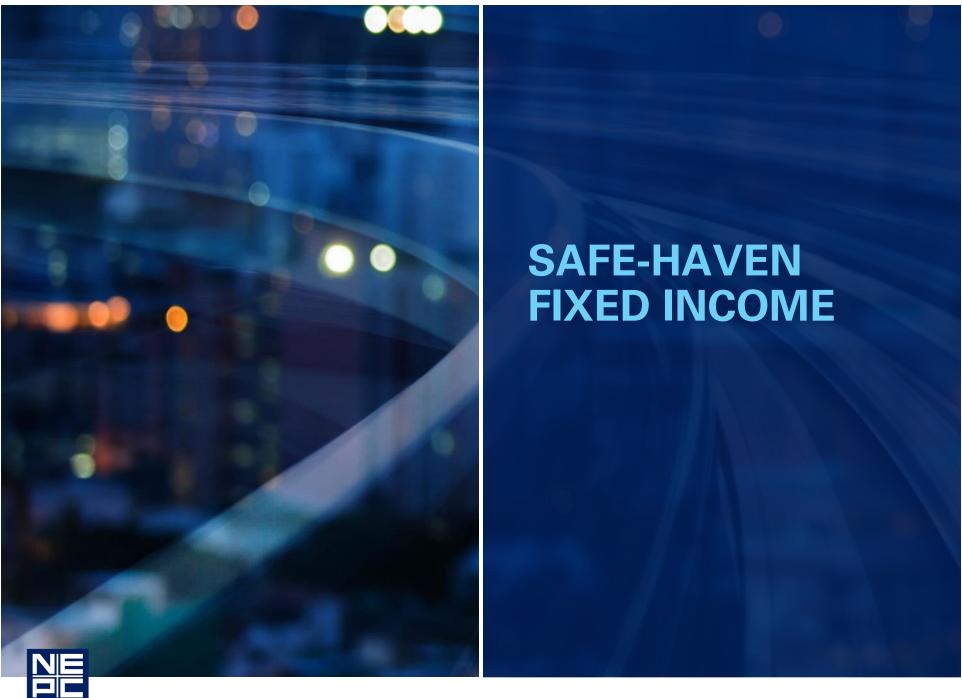


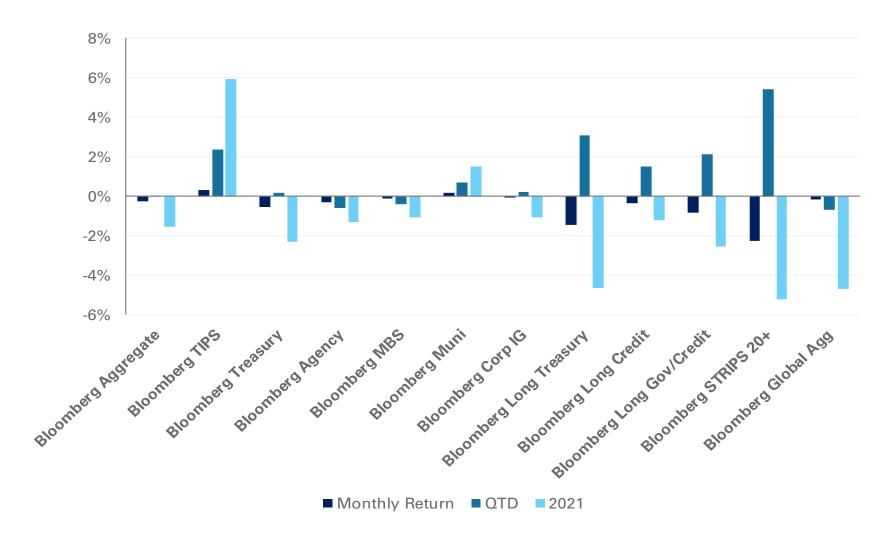


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PROPRIETARY & CONFIDENTIAL

SAFE-HAVEN FIXED INCOME PERFORMANCE



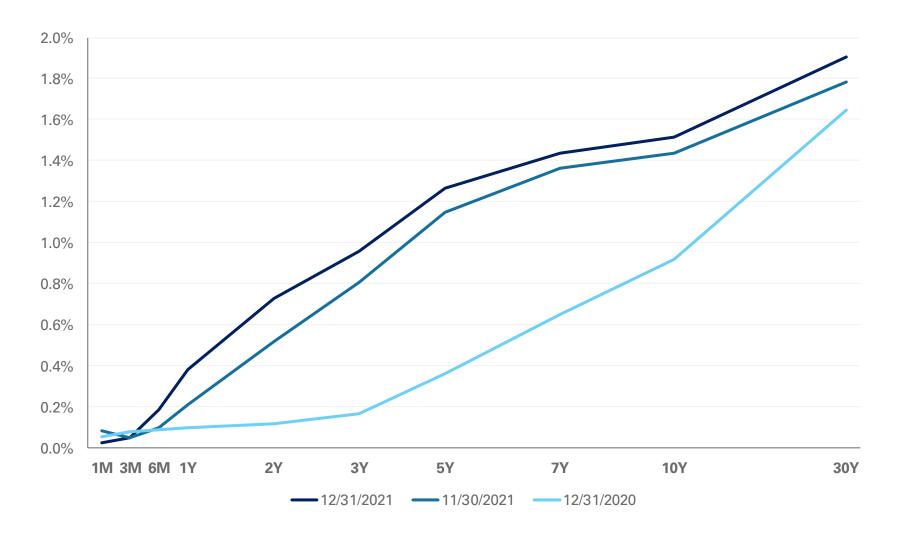


FIXED INCOME CHARACTERISTICS

	Yield to Worst	Spread (bps)	Duration (Years)
Bloomberg Aggregate	1.75%	36	6.8
Bloomberg TIPS	1.34%	-	4.4
Bloomberg Treasury	1.23%	-	7.1
Bloomberg Agency	1.15%	8	3.9
Bloomberg MBS	1.98%	31	4.8
Bloomberg Muni	1.02%	-	5.1
Bloomberg Corp IG	2.33%	92	8.7
Bloomberg Long Treasury	1.89%	-	18.6
Bloomberg Long Credit	3.10%	130	15.0
Bloomberg Long Gov/Credit	2.58%	74	16.5
Bloomberg STRIPS 20+	1.95%	-	26.3
Bloomberg Global Agg	1.31%	36	7.5

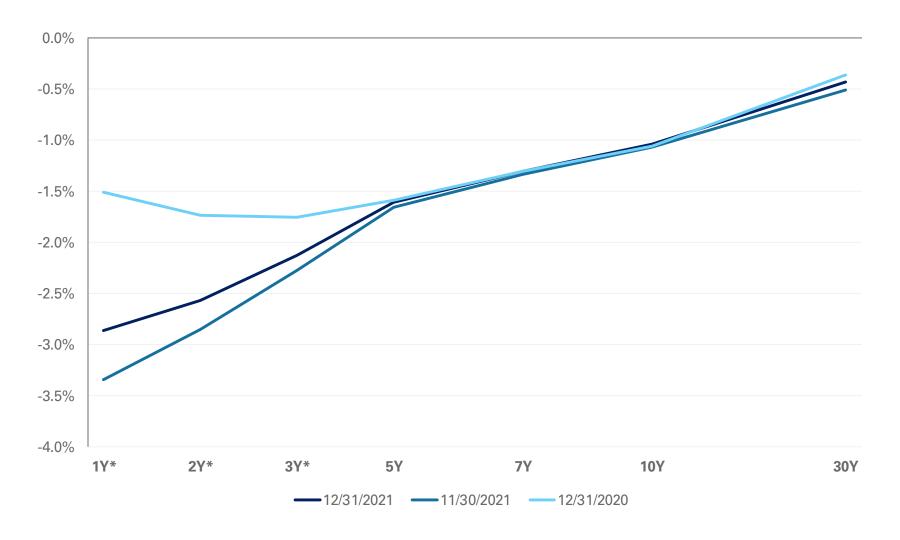


US TREASURY YIELD CURVE





US TREASURY REAL YIELD CURVE





LONG DURATION YIELDS





LONG DURATION CORPORATE SPREADS

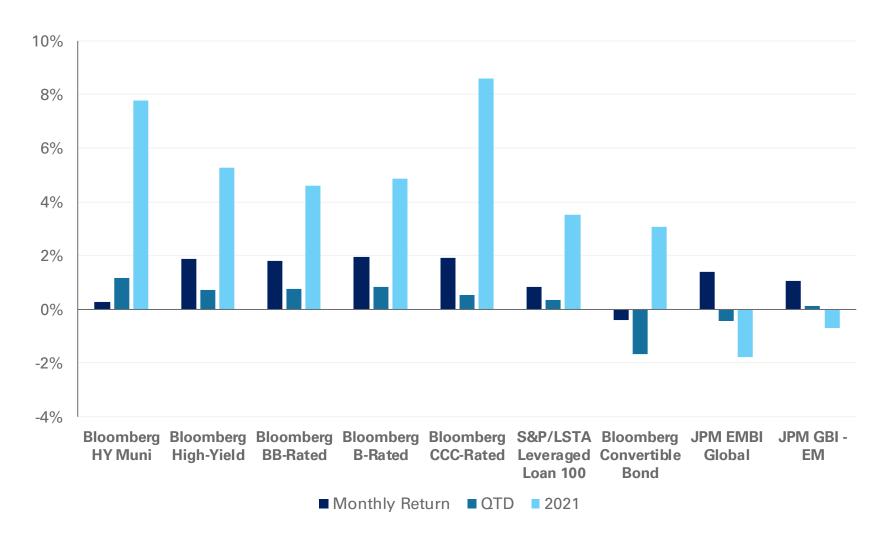




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RETURN-SEEKING CREDIT INDEX PERFORMANCE





RETURN-SEEKING CREDIT CHARACTERISTICS

	Yield to Worst	Spread (bps)	Duration (Years)
Bloomberg HY Muni	3.11%	-	6.5
Bloomberg High-Yield	4.21%	283	3.8
Bloomberg BB-Rated	3.30%	194	4.6
Bloomberg B-Rated	4.57%	313	3.1
Bloomberg CCC-Rated	6.82%	549	2.7
S&P/LSTA Leveraged Loan 100	3.88%	367	-
Bloomberg Convertible Bond	0.95%	220	2.0
JPM EMBI Global	5.29%	367	7.9
JPM GBI - EM	4.72%	-	5.4



CREDIT SPREADS

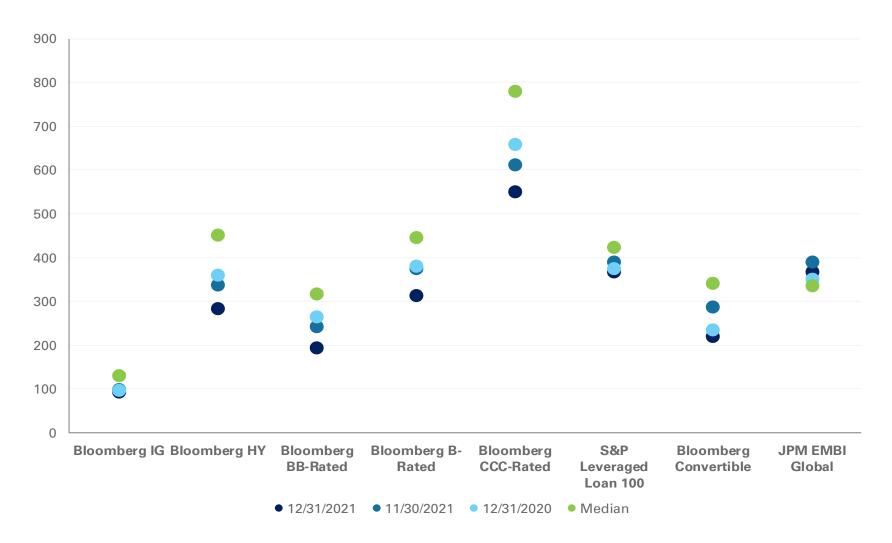
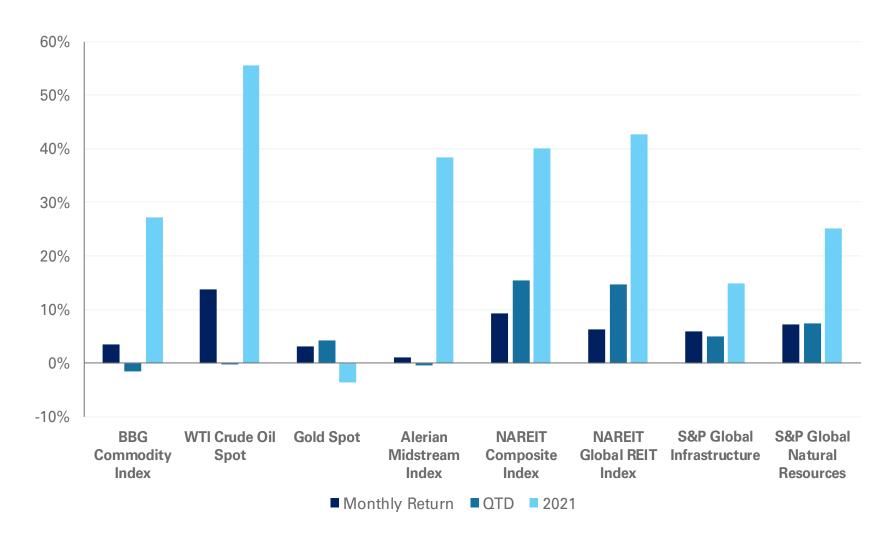




Exhibit A: Page 72



REAL ASSETS INDEX PERFORMANCE





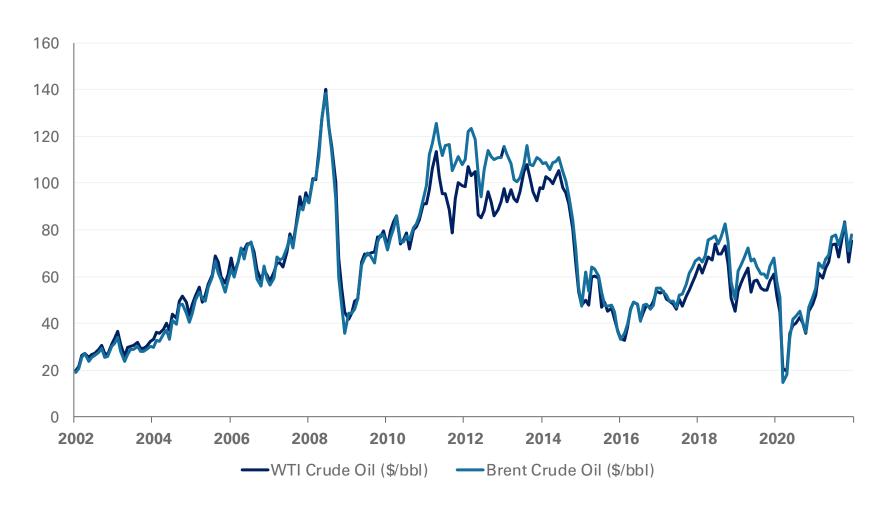
REAL ASSETS INDEX PERFORMANCE

Index	1 Month	3 Month	2021	3 Year	5 Year
Bloomberg Commodity Index	3.5%	-1.6%	27.0%	9.8%	3.6%
Bloomberg Sub Agriculture Index	3.6%	6.3%	26.6%	14.4%	3.5%
Coffee	-2.7%	15.0%	63.4%	18.4%	0.5%
Corn	4.5%	8.7%	34.3%	12.8%	3.8%
Cotton	5.8%	9.8%	42.4%	13.6%	8.9%
Soybean	9.4%	5.1%	8.2%	12.4%	2.9%
Soybean Oil	2.3%	-3.7%	50.3%	27.8%	9.4%
Sugar	1.5%	-7.2%	22.6%	11.4%	-5.2%
Wheat	-2.1%	4.6%	14.0%	11.2%	4.5%
Bloomberg Sub Energy	2.8%	-13.0%	51.9%	-0.9%	-4.0%
Brent Crude	12.9%	2.9%	65.2%	15.3%	8.3%
Heating Oil	13.1%	0.5%	58.0%	6.8%	3.4%
Natural Gas	-19.3%	-39.9%	27.9%	-22.3%	-21.5%
Unleaded Gas	15.3%	5.4%	69.3%	19.1%	4.5%
WTI Crude Oil	13.9%	2.0%	61.3%	2.3%	-2.2%
Bloomberg Sub Industrial Metals	6.4%	8.6%	30.2%	17.4%	11.0%
Aluminum	6.8%	-2.0%	38.8%	11.5%	8.6%
Copper	4.3%	9.4%	26.9%	18.8%	11.3%
Nickel	4.5%	16.4%	25.0%	24.5%	15.2%
Zinc	11.1%	19.6%	27.8%	14.4%	8.8%
Bloomberg Sub Precious Metals	2.8%	4.3%	-6.1%	11.3%	7.8%
Gold	2.9%	4.0%	-4.3%	10.9%	8.4%
Silver	2.4%	5.7%	-12.2%	12.4%	6.2%
Bloomberg Sub Livestock	1.5%	1.9%	8.6%	-7.8%	-3.9%
Lean Hogs	1.9%	-8.7%	25.0%	-11.5%	-8.7%
Live Cattle	1.3%	7.2%	-0.1%	-6.0%	-1.5%



OIL MARKETS

WTI VERSUS BRENT CRUDE SPOT PRICES





GOLD SPOT PRICE





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