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QUARTERLY PERFORMANCE REPORT

SAN BERNARDINO COUNTY
EMPLOYEES' RETIREMENT
ASSOCIATION

JUNE 30, 2021

Allan Martin, Partner

Sam Austin, Partner

Michael Malchenko, Sr. Client Specialist



Exhibit A: Page 2



MARKET ENVIRONMENT

ECONOMIC ENVIRONMENT

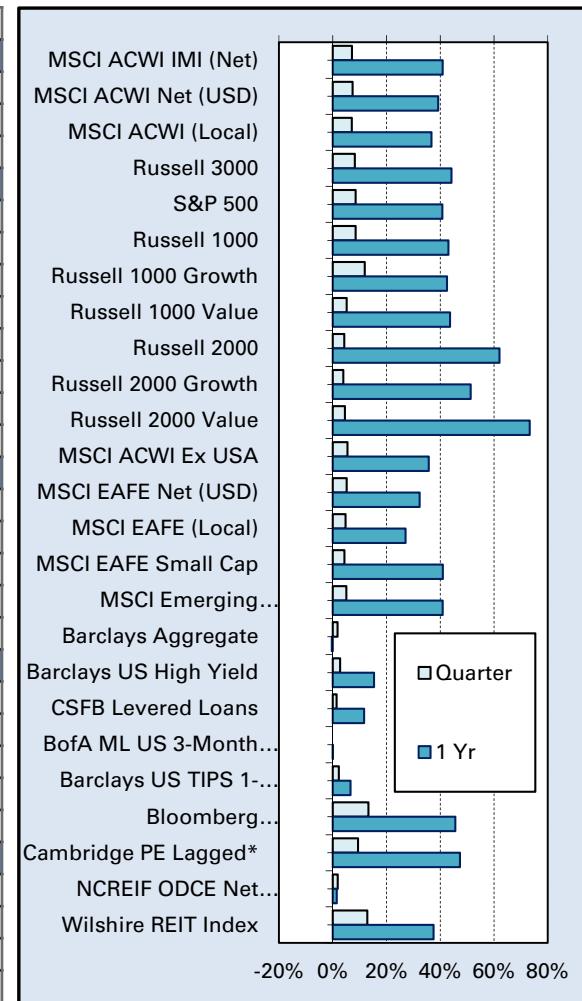
- **Q1 Real GDP (third estimate) grew at an annual rate of +6.4%.**
 - Retail sales ended May at +15.3% on a YoY basis. In the same period last year the YoY growth rate was -1.4%.
 - Corporate profits as a percent of GDP ended Q4 2020 at 10.1%, up from 8.1% on a YoY basis and remain elevated relative to historical levels.
 - The inventory-to-sales ratio ended May 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 by 3.1% (ended May) as imports rose 1.2%.
- **The unemployment rate was 5.9% in Q2, down from 6.0% in Q1; U-6, a broader measure of unemployment, decreased to 9.8% in Q2 from 10.4% in Q1.**
 - The labor force participation rate ended Q2 at 61.6% up slightly from Q1's 61.5% 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 April) increased to 249.0 from 234.5 (in December) and remains at levels higher than that of pre-financial crisis levels of 150.9.**
- **Rolling 12-month seasonally-adjusted CPI saw an uptick to 5.44% in Q2 from 2.74% in Q1; Capacity Utilization increased to 75.4% from 74.6% in Q1.**
- **Fed Funds rate remains at a targeted range of 0.00%-to-0.25%. The 10-year Treasury Yield (constant maturity) finished Q2 at 1.5% down from 1.6% in Q1.**
- **The Fed remains committed to continuing stimulative action as needed to support the US economy. The Fed's balance sheet continues to grow in the wake of the pandemic.**
- **S&P valuations increased in Q2 to 37.92 from 36.77 in Q1 and remains higher than the 10-year average of 27.2x.**
 - Cyclically adjusted Shiller PE ratio remains above the long-term average of 16.8x



MARKET ENVIRONMENT

Q2 2021 OVERVIEW

| | | Otr. | 1 Yr. | 3 Yr. | 5 Yr. | 10 Yr. |
|-----------------------------------------|----------------------------------|--------|--------|--------|--------|--------|
| World Equity Benchmarks | | | | | | |
| MSCI ACWI IMI (Net) | World with Small Cap | 7.18% | 40.94% | 14.24% | 14.55% | 9.90% |
| MSCI ACWI Net (USD) | World W/O Small Cap | 7.39% | 39.26% | 14.57% | 14.61% | 9.90% |
| MSCI ACWI (Local) | World (Local Currency) | 7.09% | 36.77% | 14.19% | 14.47% | 11.16% |
| Domestic Equity Benchmarks | | | | | | |
| Russell 3000 | Domestic All Cap | 8.24% | 44.16% | 18.73% | 17.88% | 14.70% |
| S&P 500 | Large Core | 8.55% | 40.79% | 18.67% | 17.65% | 14.84% |
| Russell 1000 | Large Core | 8.54% | 43.07% | 19.16% | 17.99% | 14.90% |
| Russell 1000 Growth | Large Growth | 11.93% | 42.50% | 25.14% | 23.66% | 17.87% |
| Russell 1000 Value | Large Value | 5.21% | 43.68% | 12.42% | 11.87% | 11.61% |
| Russell 2000 | Small Core | 4.29% | 62.02% | 13.52% | 16.47% | 12.34% |
| Russell 2000 Growth | Small Growth | 3.92% | 51.36% | 15.94% | 18.76% | 13.52% |
| Russell 2000 Value | Small Value | 4.56% | 73.28% | 10.27% | 13.62% | 10.85% |
| International Equity Benchmarks | | | | | | |
| MSCI ACWI Ex USA | World ex-US | 5.48% | 35.72% | 9.38% | 11.08% | 5.45% |
| MSCI EAFE Net (USD) | Int'l Developed | 5.17% | 32.35% | 8.27% | 10.28% | 5.89% |
| MSCI EAFE (Local) | Int'l Developed (Local Currency) | 4.79% | 27.08% | 7.53% | 10.01% | 8.09% |
| MSCI EAFE Small Cap | Small Cap Int'l | 4.34% | 40.98% | 8.40% | 12.03% | 8.38% |
| MSCI Emerging Markets | Emerging Equity | 5.05% | 40.90% | 11.27% | 13.03% | 4.29% |
| Domestic Fixed Income Benchmarks | | | | | | |
| Barclays Aggregate | Core Bonds | 1.83% | -0.33% | 5.34% | 3.03% | 3.39% |
| Barclays US High Yield | High Yield | 2.74% | 15.37% | 7.44% | 7.48% | 6.66% |
| CSFB Levered Loans | Bank Loans | 1.44% | 11.67% | 4.36% | 5.04% | 4.52% |
| BofA ML US 3-Month T-Bill | Cash | 0.00% | 0.09% | 1.34% | 1.17% | 0.63% |
| Barclays US TIPS 1-10 Yr | Inflation | 2.30% | 6.60% | 5.67% | 3.61% | 2.58% |
| Alternative Benchmarks | | | | | | |
| Bloomberg Commodity Index | Commodities | 13.30% | 45.61% | 3.90% | 2.40% | -4.44% |
| Cambridge PE Lagged* | Private Equity | 9.45% | 47.37% | 17.56% | 17.23% | 14.29% |
| NCREIF ODCE Net Lagged* | Real Estate | 1.89% | 1.48% | 3.97% | 5.26% | 8.67% |
| Wilshire REIT Index | REIT | 12.85% | 37.54% | 10.06% | 6.36% | 9.38% |



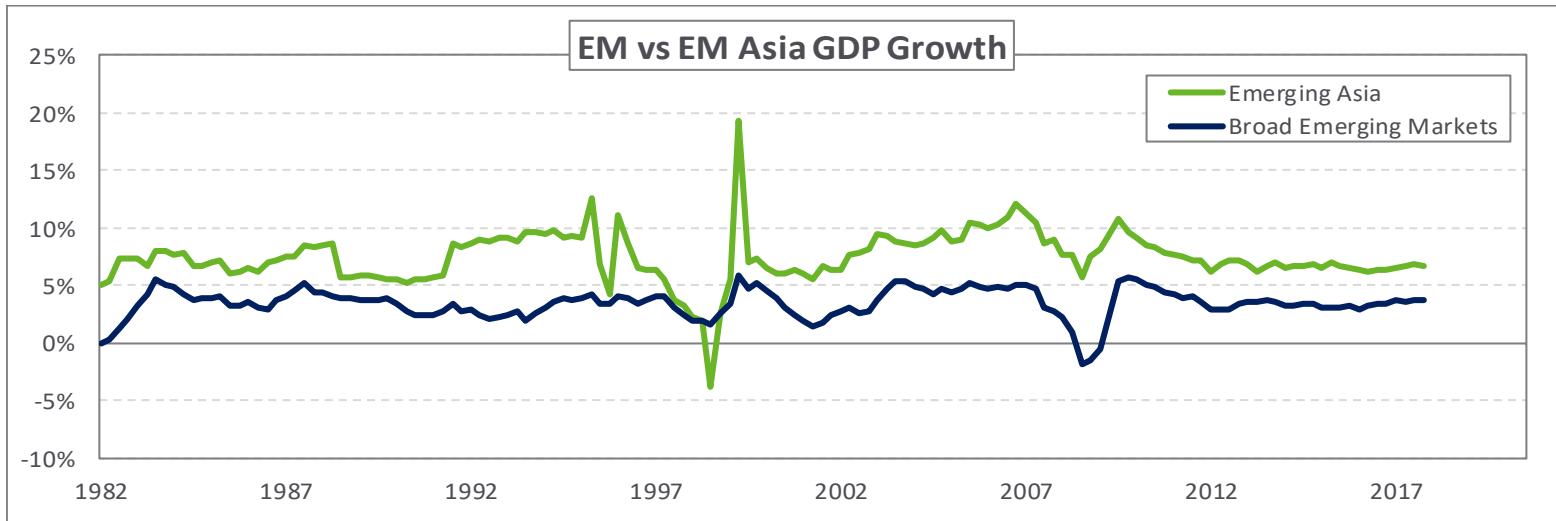
* As of 3/31/2021



GROSS DOMESTIC PRODUCT



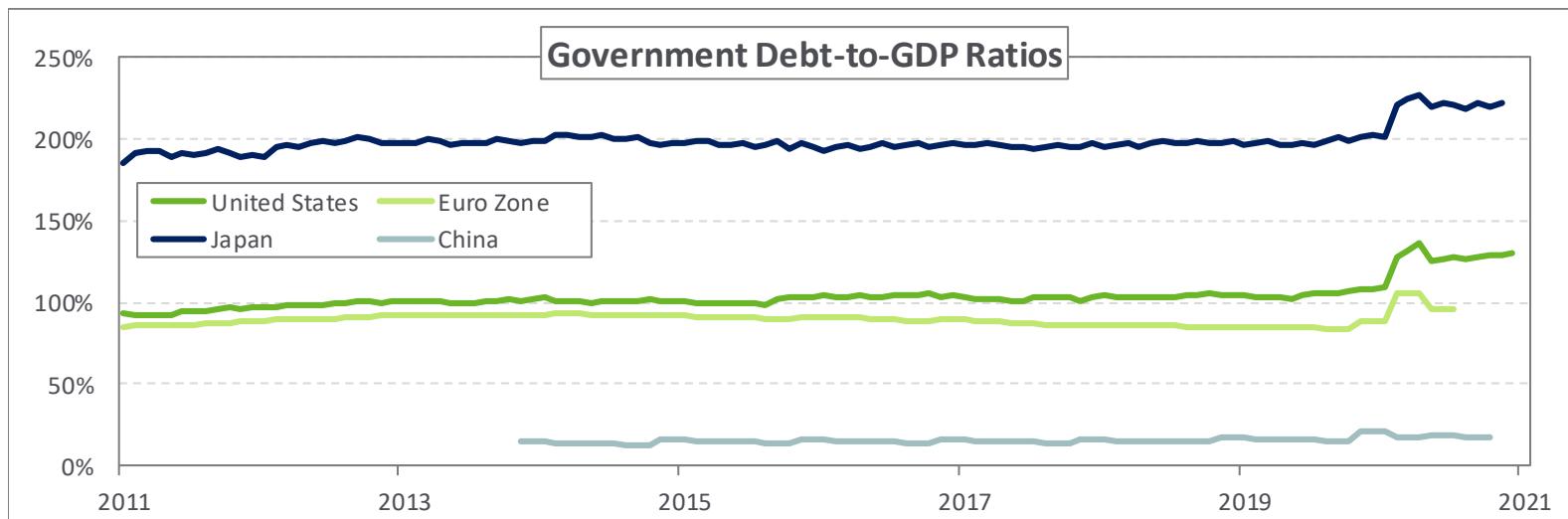
Source: Bureau of Economic Analysis, FactSet



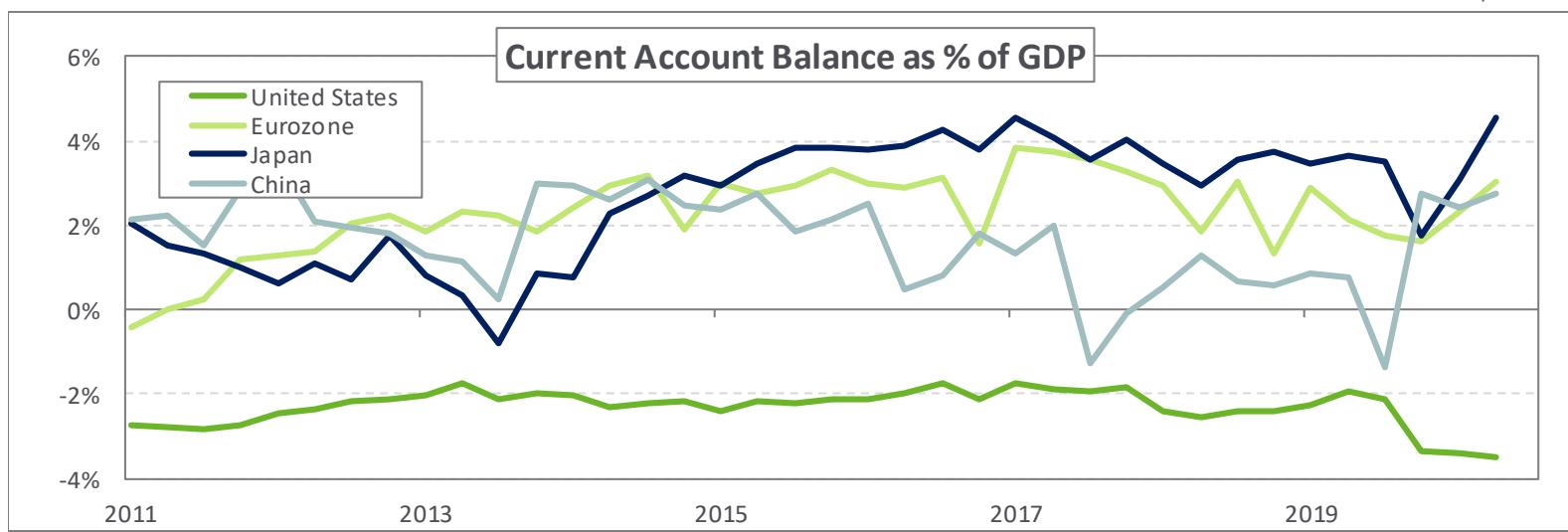
Source: IMF, FactSet



GROSS DOMESTIC PRODUCT METRICS



Source: IMF, FactSet

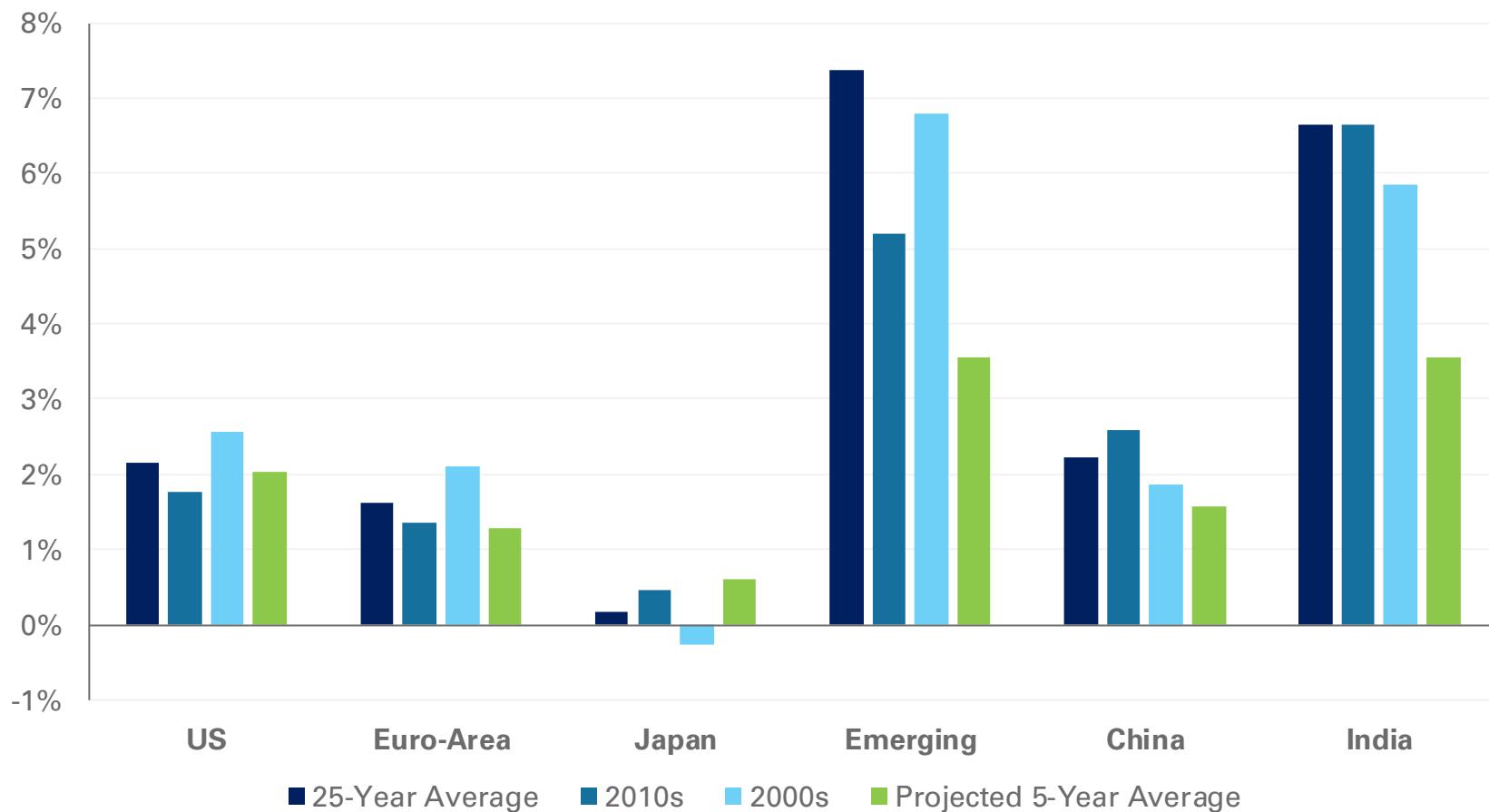


Source: FactSet



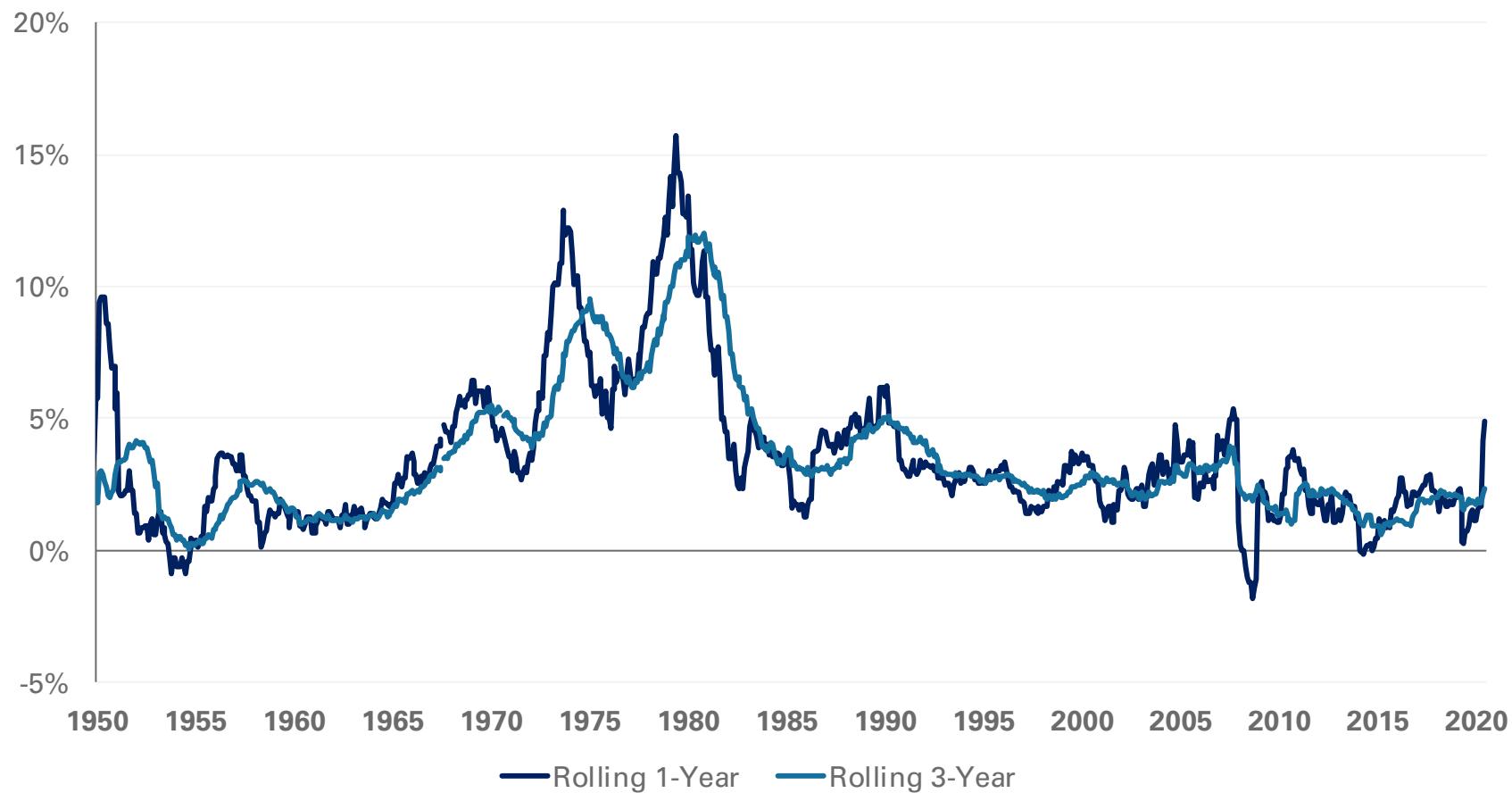
HISTORICAL INFLATION

IMF PROJECTIONS

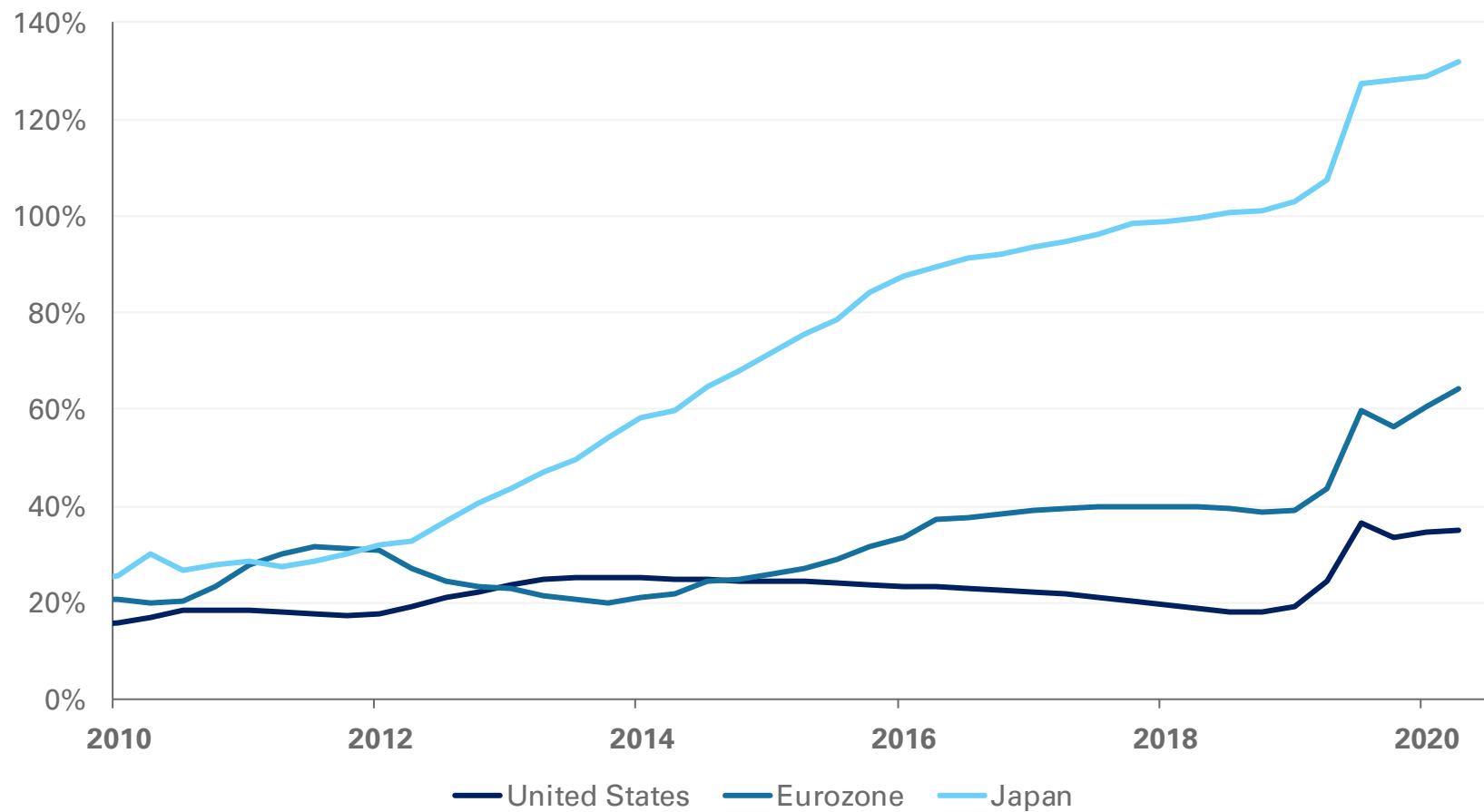


INFLATION

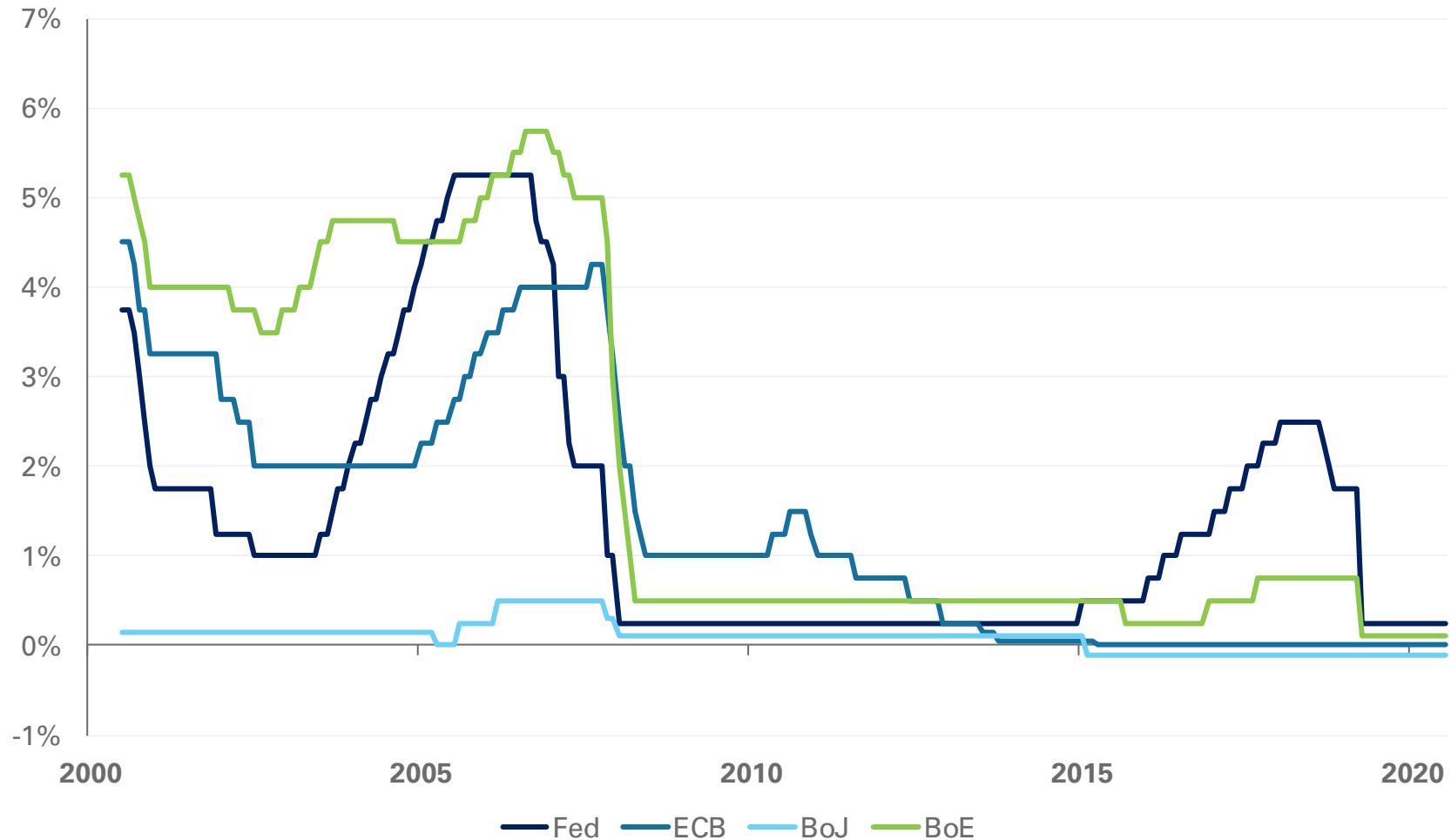
U.S. CONSUMER PRICE INDEX



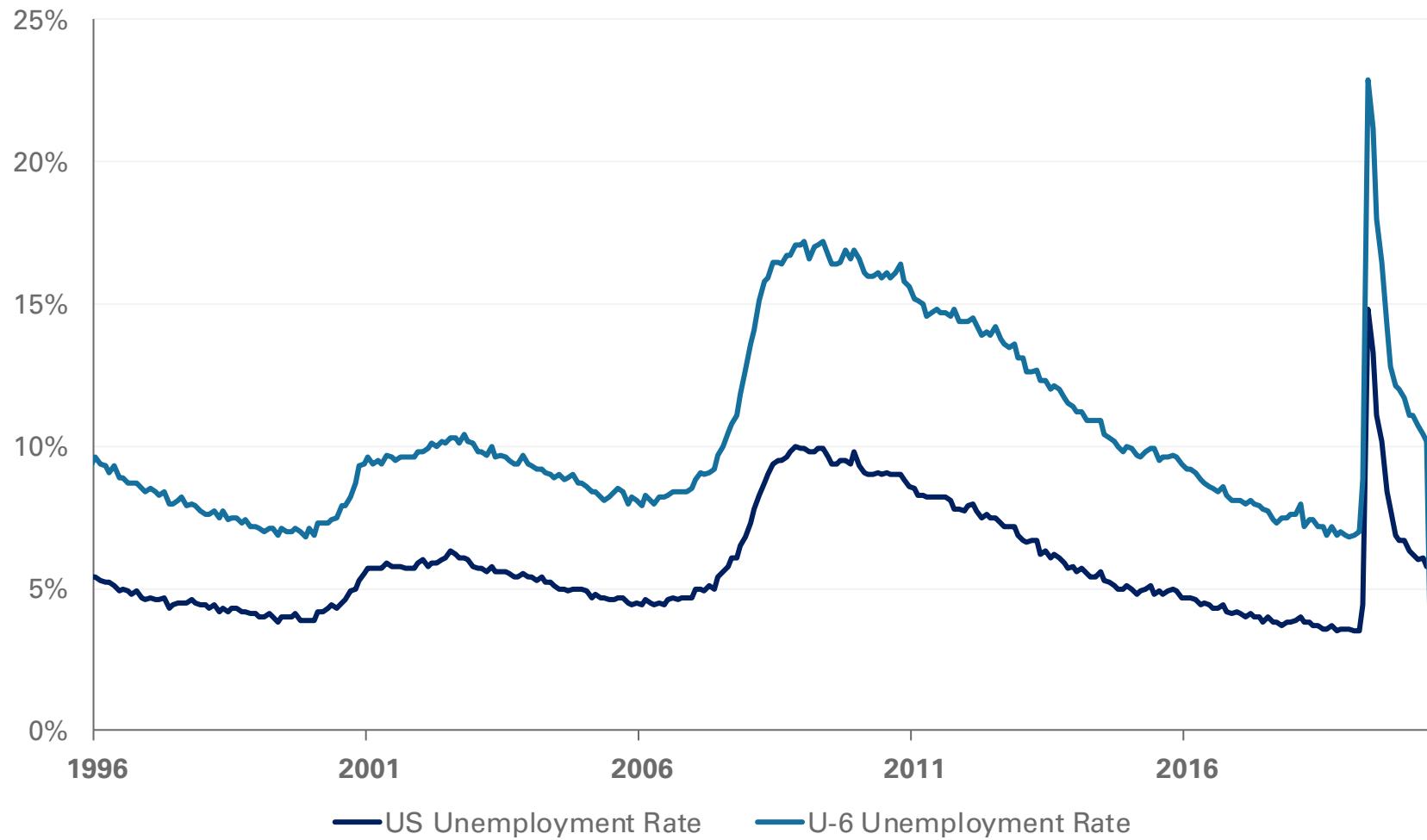
CENTRAL BANK BALANCE SHEETS AS A PERCENTAGE OF GDP



CENTRAL BANK POLICY RATES



U.S. UNEMPLOYMENT RATES



2021 SECOND QUARTER INSIGHTS FROM NEPC

Private Wealth

- [Taking Stock: Business Owners, Here's How to Make Your Portfolio Work for You](#)

Healthcare

- [NEPC's 2021 Healthcare Operating Funds Survey Results](#)

Taft-Hartley

- [Taking Stock: Taft-Hartley/ Multi-Employer Pension Plans Await ARPA 2.0](#)

Defined Benefit

- [Taking Stock: NEPC Q1 2021 Pension Monitor](#)
- [Taking Stock: NEPC April 2021 Pension Monitor](#)
- [Taking Stock: NEPC May 2021 Pension Monitor](#)

General Research

- [Quarterly Asset Class Review: Q1 2021](#)
- [Taking Stock: A Sneak Peek Into the 2021 NEPC \(Virtual\) Client Conference](#)
- [NEPC Market Outlook: Should Investors Be Bracing for a Tidal Wave of Inflation?](#)
- [Meeting You Where You Are: Client Input About the Future of Meetings](#)
- [11th Annual Investment Manager Webinar Replay](#)

Diversity, Equity, & Inclusion

- [Using Investing to Bring DEI Goals Within Reach](#)
- [NEPC's 2020 DEI Progress Report](#)



DIVERSITY, EQUITY AND INCLUSION AT NEPC

- This quarter, NEPC published our first annual Diversity, Equity and Inclusion (DEI) Progress Report. We are happy to see that the Progress Report has sparked conversation, which you can read more about on Institutional Investor and Banking Exchange.





TOTAL FUND PERFORMANCE

TOTAL FUND PERFORMANCE SUMMARY

NET OF FEES

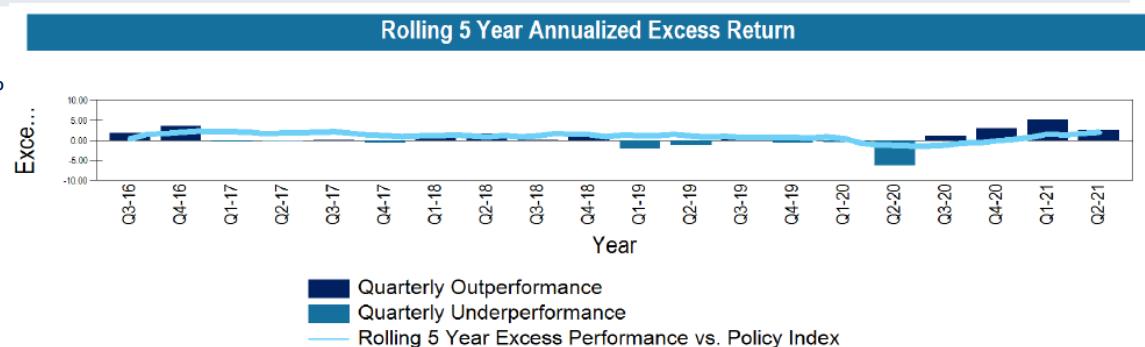
| | Ending June 30, 2021 | | | | | | | | | | | |
|----------------------------------------|----------------------|------|------|-------|------|-------|------|-------|------|--------|------|--|
| | Market Value | 3 Mo | Rank | 1 Yr | Rank | 3 Yrs | Rank | 5 Yrs | Rank | 10 Yrs | Rank | |
| Total Fund | \$13,403,544,826 | 6.9% | 4 | 33.3% | 1 | 10.6% | 49 | 10.7% | 40 | 8.3% | 47 | |
| Policy Index | | 4.4% | 77 | 19.7% | 99 | 9.6% | 84 | 8.8% | 93 | 7.2% | 81 | |
| S&P 500 | | 8.5% | 1 | 40.8% | 1 | 18.7% | 1 | 17.6% | 1 | 14.8% | 1 | |
| BBgBarc US Aggregate TR | | 1.8% | 99 | -0.3% | 99 | 5.3% | 99 | 3.0% | 99 | 3.4% | 99 | |
| 60% MSCI ACWI (Net) / 40% FTSE WGBI | | 4.8% | 59 | 22.7% | 95 | 10.5% | 50 | 9.5% | 83 | 6.7% | 90 | |
| InvMetrics Public DB > \$1B Net Median | | 4.9% | | 26.4% | | 10.4% | | 10.5% | | 8.1% | | |

In the year ended June 30, 2021 the Fund return of 33.3% ranked in the 1st percentile of Public Funds > \$1 Billion. The Fund's assets totaled \$13.40 billion, up from \$10.09 billion one year ago.

In the three-year period ended June 30, 2021 the Fund return of 10.6% ranked in the 49th percentile among its peers. The Sharpe Ratio over this period of 1.1 ranks in the 8th percentile.

In the five-year period ended June 30, 2021 the Fund return of 10.7% ranked in the 40th percentile among its peers. On a risk adjusted basis, the Fund's Sharpe Ratio ranked in the 1st percentile in its peer group while the Sortino Ratio ranked in the 13th percentile.

The preliminary InvMetrics Public DB > \$1B Net of Fee universe contains 35 observations as of June 30, 2021.



| | 3 Years Ending June 30, 2021 | | | | | |
|----------------------------------------|------------------------------|-------------------------------|--------------|-------------------|---------------|--------------------|
| | Anlzd Standard Deviation | Anlzd Standard Deviation Rank | Sharpe Ratio | Sharpe Ratio Rank | Sortino Ratio | Sortino Ratio Rank |
| Total Fund | 8.4% | 1 | 1.1 | 8 | 1.2 | 14 |
| InvMetrics Public DB > \$1B Net Median | 11.0% | -- | 0.8 | -- | 1.0 | -- |

| | 5 Years Ending June 30, 2021 | | | | | |
|----------------------------------------|------------------------------|-------------------------------|--------------|-------------------|---------------|--------------------|
| | Anlzd Standard Deviation | Anlzd Standard Deviation Rank | Sharpe Ratio | Sharpe Ratio Rank | Sortino Ratio | Sortino Ratio Rank |
| Total Fund | 6.6% | 1 | 1.4 | 1 | 1.4 | 13 |
| InvMetrics Public DB > \$1B Net Median | 8.9% | -- | 1.0 | -- | 1.1 | -- |



Exhibit A: Page 16

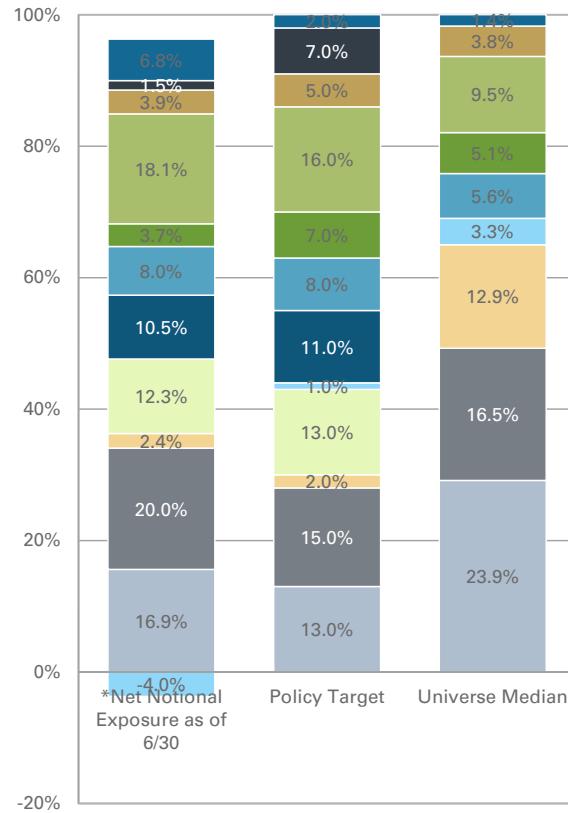
TOTAL FUND RISK ADJUSTED RETURNS

| | 1 Year Ending June 30, 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 | 33.3% | 1 | 7.5% | 31 | 4.4 | 1 | 25.8 | 13 | |
| InvMetrics Public DB > \$1B Net Median | 26.4% | -- | 8.2% | -- | 3.2 | -- | 12.7 | -- | |
| | 3 Years Ending June 30, 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 | 10.6% | 49 | 8.4% | 1 | 1.1 | 8 | 1.2 | 14 | |
| InvMetrics Public DB > \$1B Net Median | 10.4% | -- | 11.0% | -- | 0.8 | -- | 1.0 | -- | |
| | 5 Years Ending June 30, 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% | 40 | 6.6% | 1 | 1.4 | 1 | 1.4 | 13 | |
| InvMetrics Public DB > \$1B Net Median | 10.5% | -- | 8.9% | -- | 1.0 | -- | 1.1 | -- | |
| | 10 Years Ending June 30, 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 | 8.3% | 47 | 5.7% | 1 | 1.4 | 1 | 1.5 | 9 | |
| InvMetrics Public DB > \$1B Net Median | 8.1% | -- | 8.3% | -- | 0.9 | -- | 1.1 | -- | |

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



ASSET ALLOCATION COMPLIANCE



- Cash
- Real Assets
- Real Estate
- Non-US Credit
- US Credit
- Int'l Equities
- Absolute Return
- Private Equity
- Emerging Market Debt
- Non-US Core Fixed Income
- U.S. Core
- US Equities

| Asset Class | *Net Notional Exposure | Net Notional Exposure as of 06/30 | | Policy Target | Difference | Policy Ranges | Within Range |
|--------------------------|------------------------|-----------------------------------|----------|---------------|------------|---------------|--------------|
| | | Notional | Exposure | | | | |
| US Equities | 2,258,844 | 16.9% | 13.0% | 3.9% | 8%-18% | Yes | |
| Int'l Equities | 2,674,483 | 20.0% | 15.0% | 5.0% | 10%-20% | Yes | |
| U.S. Core Fixed Income | 318,500 | 2.4% | 2.0% | 0.4% | -3%-7% | Yes | |
| US Credit | 1,643,635 | 12.3% | 13.0% | -0.7% | 8%-18% | Yes | |
| Non-US Core Fixed Income | (536,142) | -4.0% | 1.0% | -5.0% | -4%-6% | Yes | |
| Non-US Credit | 1,406,614 | 10.5% | 11.0% | -0.5% | 6%-16% | Yes | |
| Emerging Market Debt | 1,071,035 | 8.0% | 8.0% | 0.0% | 3%-13% | Yes | |
| Real Estate | 497,958 | 3.7% | 7.0% | -3.3% | 0%-14% | Yes | |
| Private Equity | 2,422,097 | 18.1% | 16.0% | 2.1% | 6%-21% | Yes | |
| Real Assets | 525,581 | 3.9% | 5.0% | -1.1% | 0%-10% | Yes | |
| Absolute Return | 207,301 | 1.5% | 7.0% | -5.5% | 0%-12% | Yes | |
| Cash | 913,638 | 6.8% | 2.0% | 4.8% | 0%-10% | Yes | |
| Total | 13,403,545 | 100.00% | 100.00% | | | | |

*Notional values are sourced from Russell Investments.



INVESTMENT EXPOSURE SUMMARY

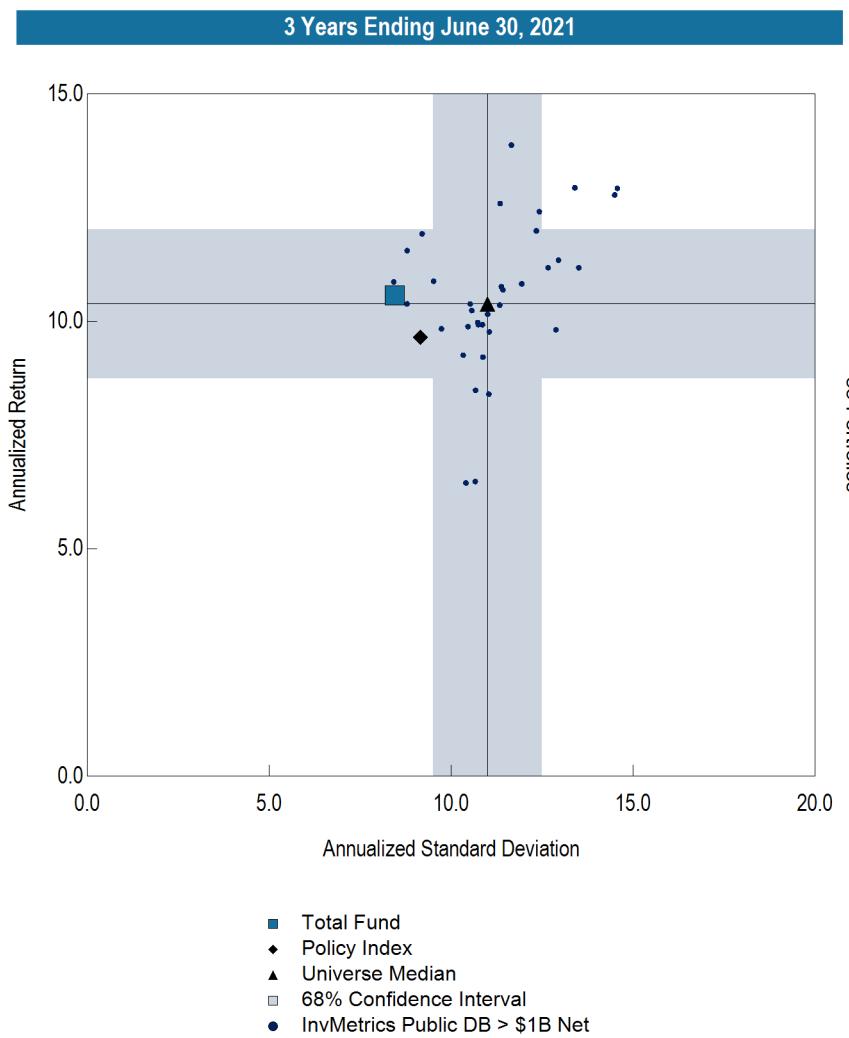
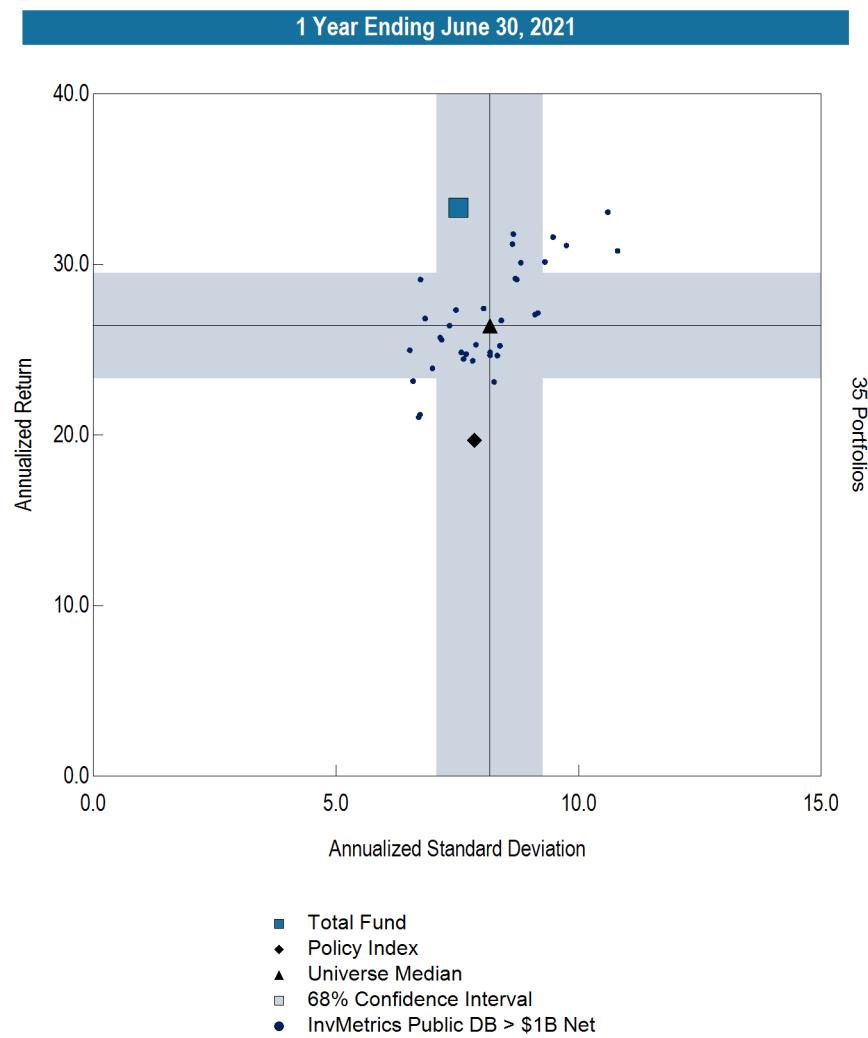
OVERLAY AS OF JUNE 30, 2021

| <u>Asset Class</u> | <u>Physical Exposure</u> | | <u>Delta Adjusted Synthetic Exposure</u> | | <u>Net Position</u> | | <u>Overlay Target</u> | | <u>Policy Target</u> | |
|---------------------------|--------------------------|----------|------------------------------------------|---------|---------------------|----------|-----------------------|----------|----------------------|----------|
| | Total Market Value | 13,621.1 | 100.0 % | 0.0 | 0.0 % | 13,621.1 | 100.0 % | 13,621.1 | 100.0 % | 13,621.1 |
| Cash | 3,121.1 | 22.9 % | -2,511.2 | -18.4 % | 609.9 | 4.5 % | 0.0 | 0.0 % | 0.0 | 0.00 % |
| Cash | 3,121.1 | 22.9 % | -2,511.2 | -18.4 % | 609.9 | 4.5 % | 0.0 | 0.0 % | 0.0 | 0.00 % |
| Equity | 2,168.8 | 15.9 % | 2,761.5 | 20.3 % | 4,930.3 | 36.2 % | 5,324.6 | 39.1 % | 5,176.0 | 38.00 % |
| Emerging Markets | 573.3 | 4.2 % | 516.4 | 3.8 % | 1,089.6 | 8.0 % | 1,121.0 | 8.2 % | 1,089.7 | 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 | 206.7 | 1.5 % | 1,381.7 | 10.1 % | 1,588.5 | 11.7 % | 1,681.4 | 12.3 % | 1,634.5 | 12.00 % |
| US Large Cap | 1,388.6 | 10.2 % | 386.9 | 2.8 % | 1,775.4 | 13.0 % | 2,031.7 | 14.9 % | 1,975.1 | 14.50 % |
| US Small Cap | 0.2 | 0.0 % | 476.5 | 3.5 % | 476.7 | 3.5 % | 490.4 | 3.6 % | 476.7 | 3.50 % |
| Fixed | 4,231.3 | 31.1 % | -250.3 | -1.8 % | 3,981.0 | 29.2 % | 4,196.6 | 30.8 % | 4,079.5 | 29.95 % |
| 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 | 2,550.7 | 18.7 % | -568.9 | -4.2 % | 1,981.8 | 14.5 % | 2,129.8 | 15.6 % | 2,070.4 | 15.20 % |
| High Yield | 1,284.1 | 9.4 % | 0.0 | 0.0 % | 1,284.1 | 9.4 % | 1,331.1 | 9.8 % | 1,294.0 | 9.50 % |
| US Fixed Income | 396.5 | 2.9 % | 318.5 | 2.3 % | 715.0 | 5.2 % | 735.6 | 5.4 % | 715.1 | 5.25 % |
| Other | 4,099.9 | 30.1 % | 0.0 | 0.0 % | 4,099.9 | 30.1 % | 4,099.9 | 30.1 % | 4,365.6 | 32.05 % |
| Alternatives | 31.7 | 0.2 % | 0.0 | 0.0 % | 31.7 | 0.2 % | 31.7 | 0.2 % | 27.2 | 0.20 % |
| Commodities | 377.3 | 2.8 % | 0.0 | 0.0 % | 377.3 | 2.8 % | 377.3 | 2.8 % | 381.4 | 2.80 % |
| Infrastructure | 118.8 | 0.9 % | 0.0 | 0.0 % | 118.8 | 0.9 % | 118.8 | 0.9 % | 163.5 | 1.20 % |
| Private Equity | 2,291.7 | 16.8 % | 0.0 | 0.0 % | 2,291.7 | 16.8 % | 2,291.7 | 16.8 % | 2,410.9 | 17.70 % |
| Real Estate | 483.6 | 3.6 % | 0.0 | 0.0 % | 483.6 | 3.6 % | 483.6 | 3.6 % | 585.7 | 4.30 % |
| Tactical Cash | 796.8 | 5.8 % | 0.0 | 0.0 % | 796.8 | 5.8 % | 796.8 | 5.8 % | 796.8 | 5.85 % |

Source: Russell Investments



SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RISK/RETURN



SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RISK/RETURN

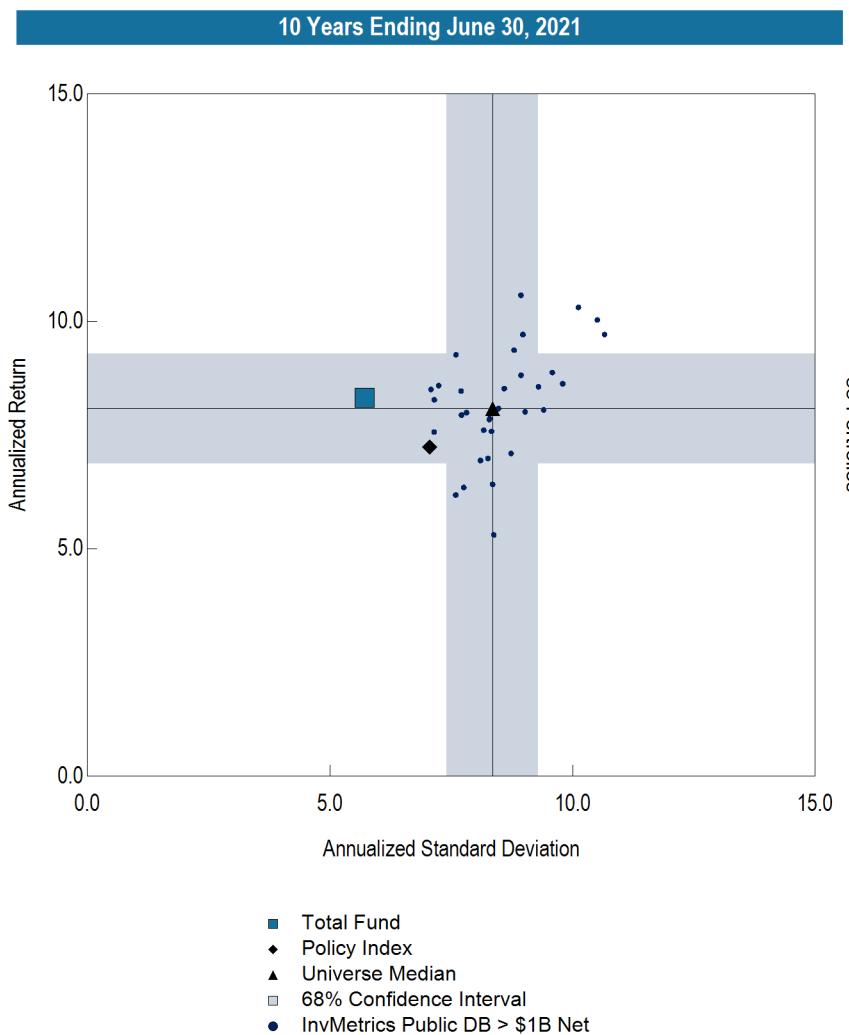
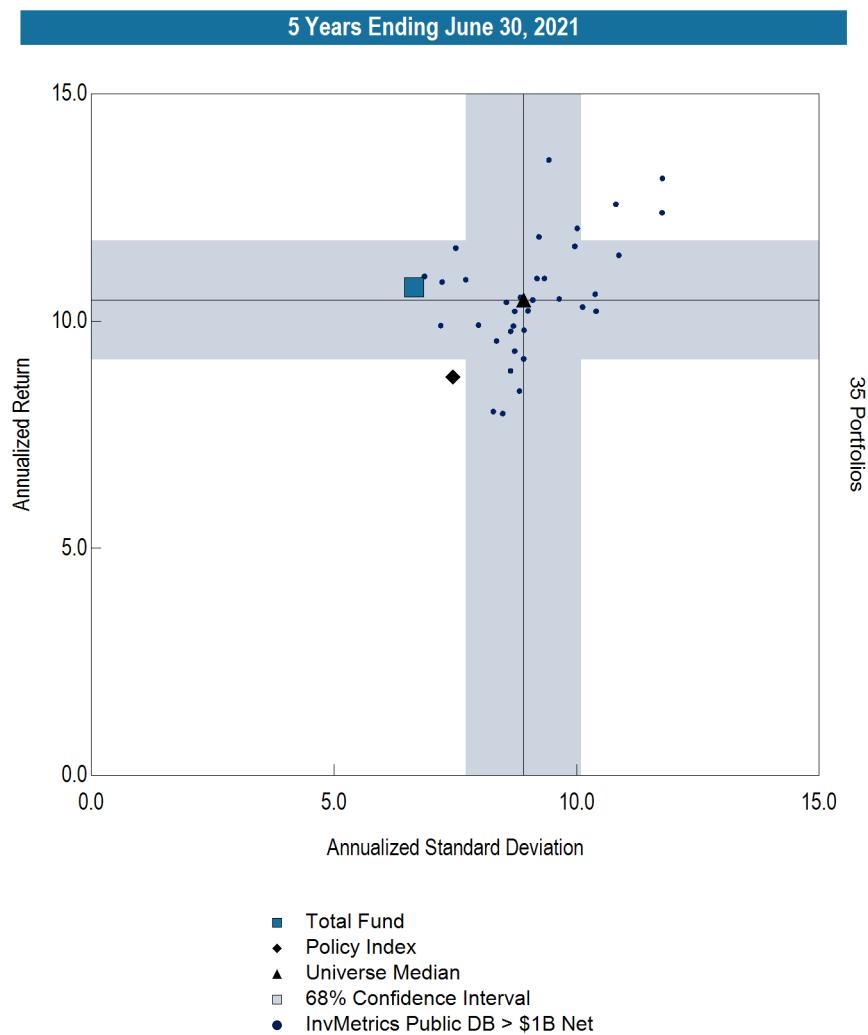
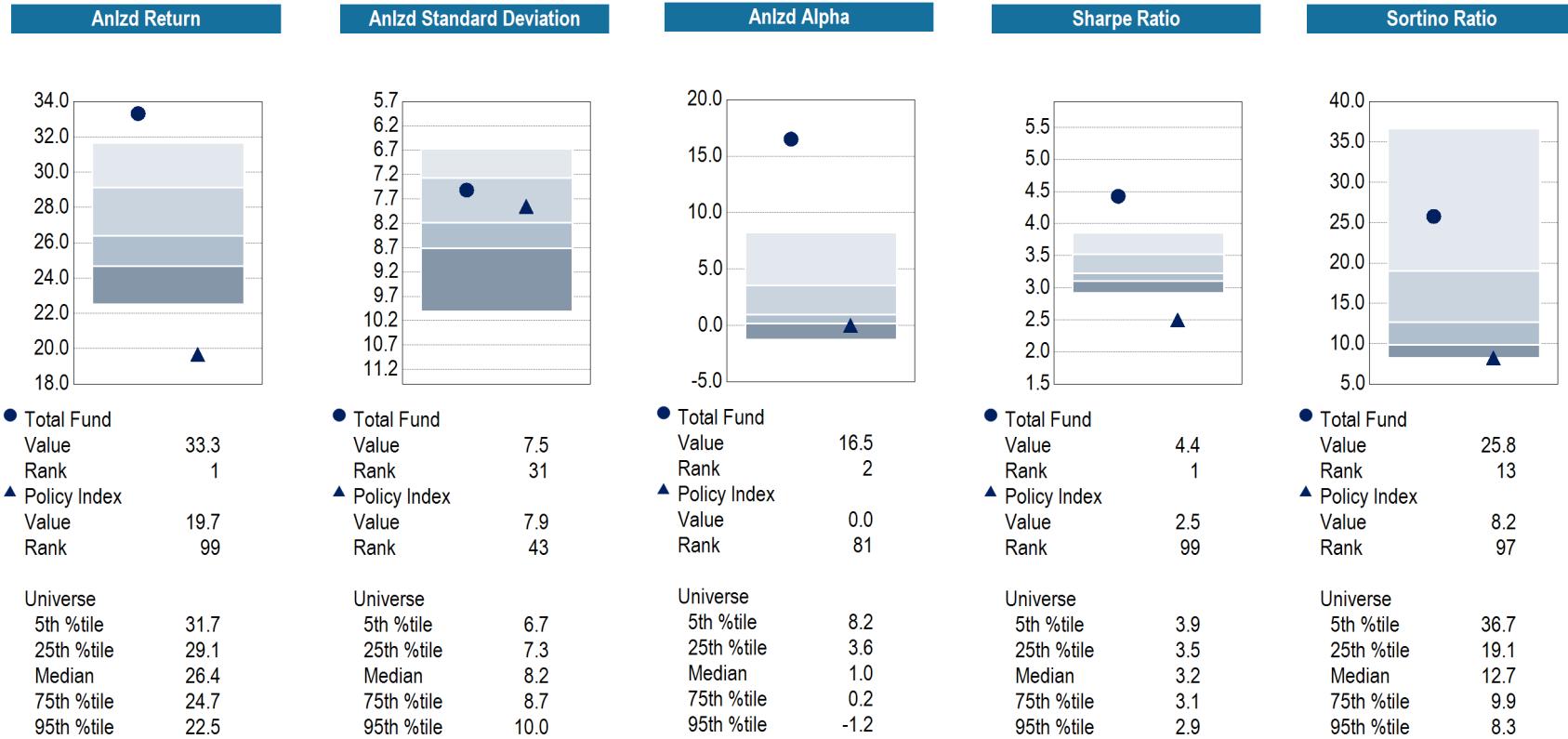


Exhibit A: Page 21

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

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

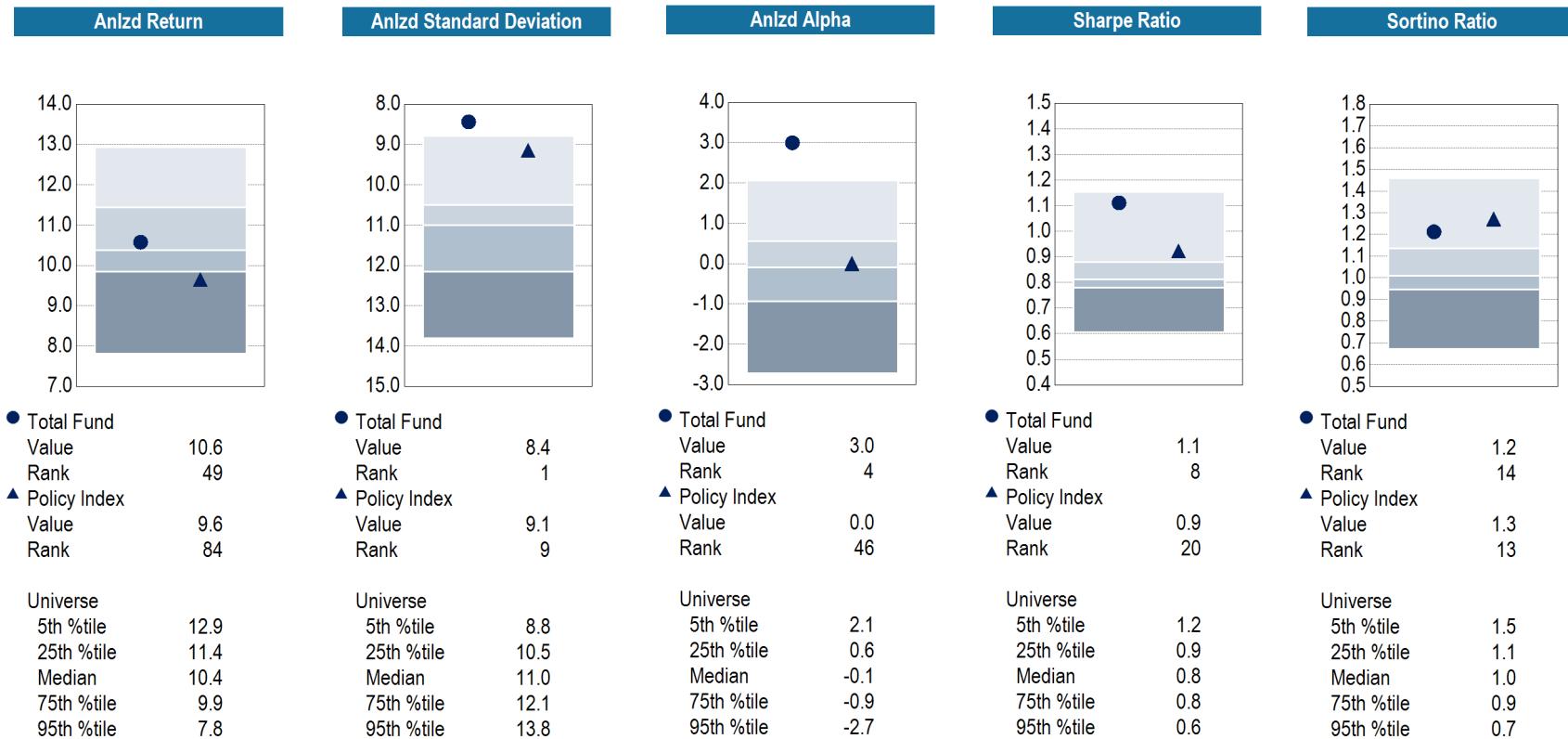


Sortino Ratio requires at least two negative points during the time period in order to calculate. Sample size is 35 Portfolios



SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

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



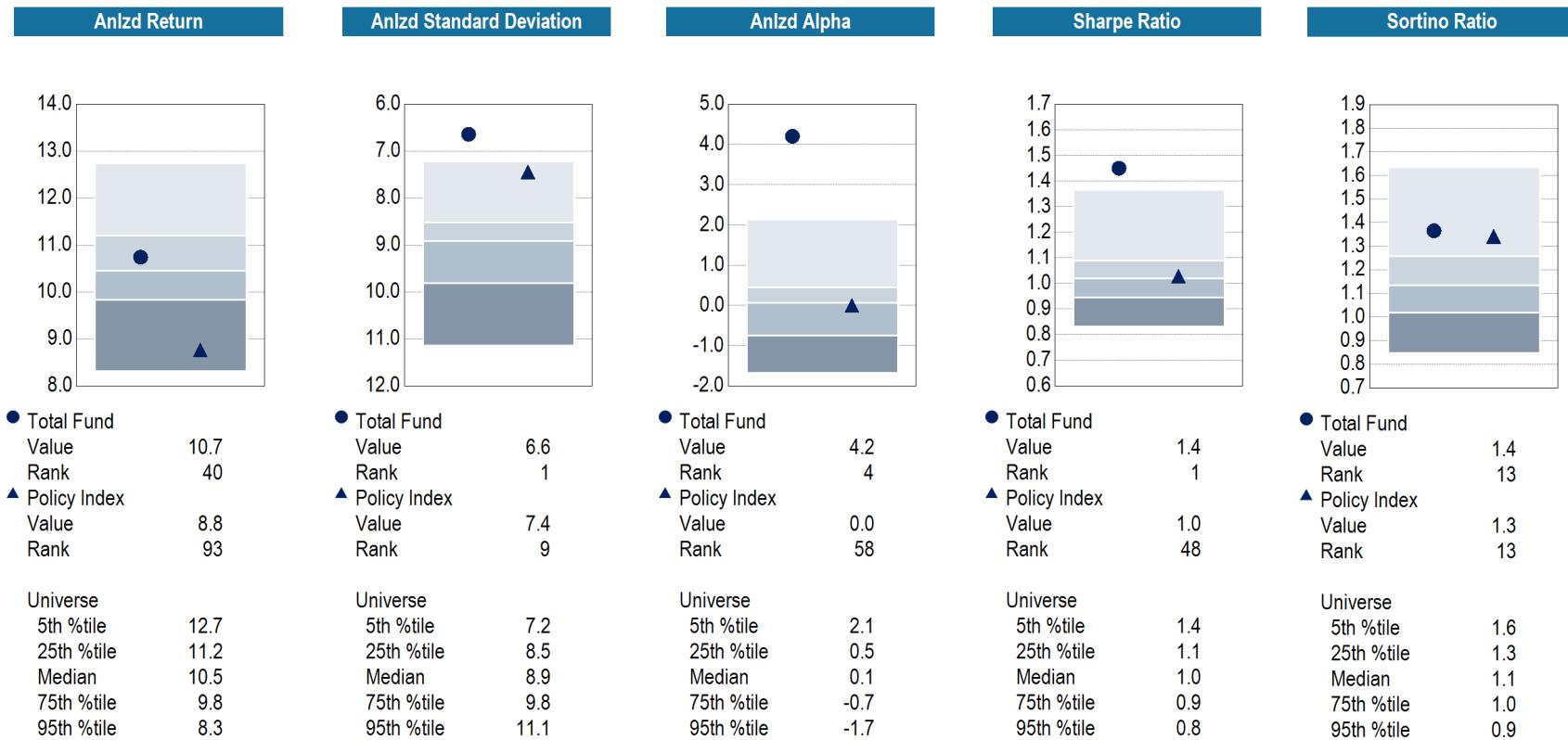
Sortino Ratio requires at least two negative points during the time period in order to calculate. Sample size is 35 Portfolios



Exhibit A: Page 23

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

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



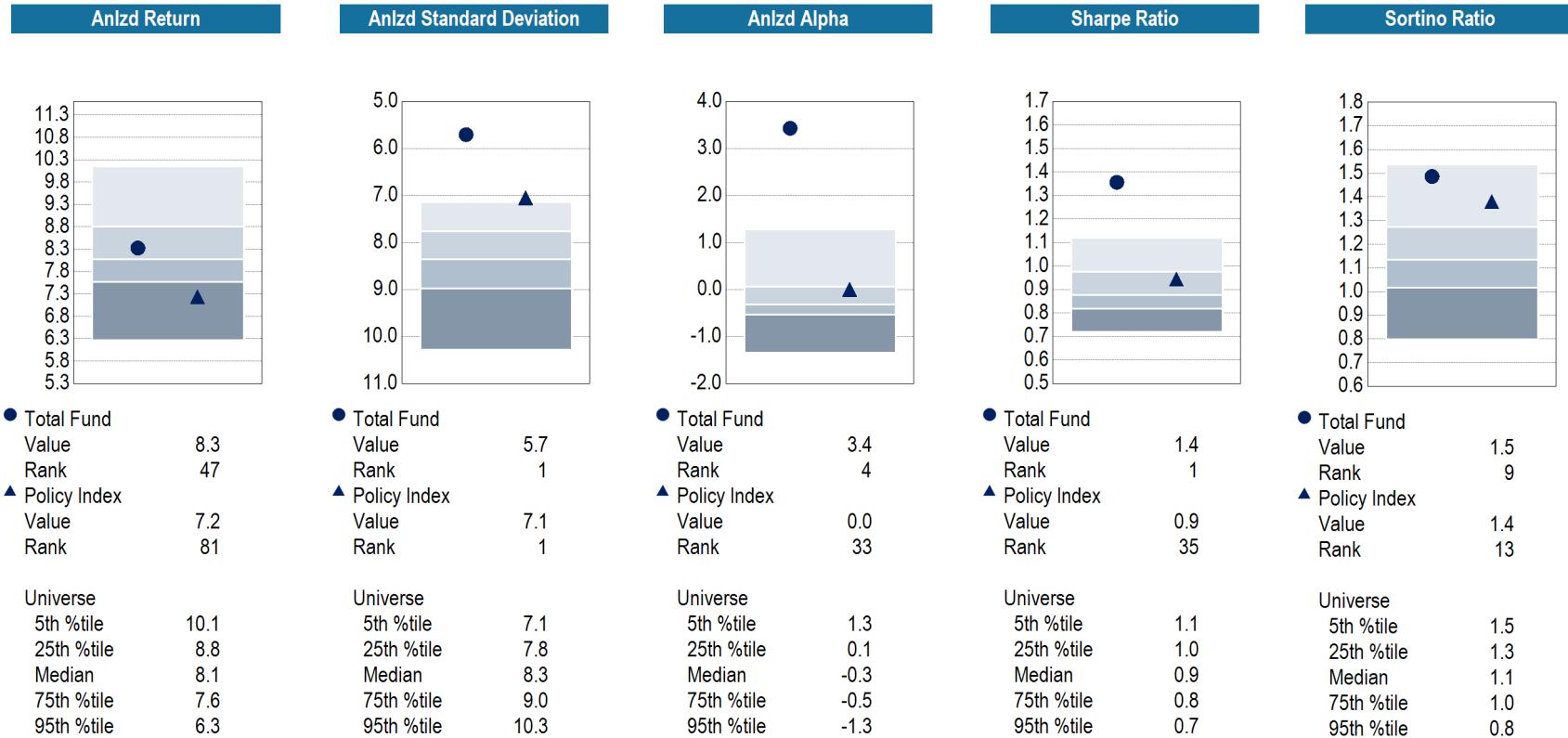
Sortino Ratio requires at least two negative points during the time period in order to calculate. Sample size is 35 Portfolios



Exhibit A: Page 24

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE

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



Sortino Ratio requires at least two negative points during the time period in order to calculate. Sample size is 35 Portfolios



Exhibit A: Page 25

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION ASSET CLASS RISK STATISTICS

| | 1 Years Ending June 30, 2021 | | | | | | | |
|-------------------------------------------------------------------------|------------------------------|-----------|------|---------------|------|----------------|------------|------|
| | % of Tot | Anlzd Ret | Rank | Anlzd Std Dev | Rank | Tracking Error | Info Ratio | Rank |
| Domestic Equity With Beta Overlay | 16.9% | 41.6% | 96 | 13.6% | 32 | 3.3% | -0.8 | |
| Russell 3000 | -- | 44.2% | 56 | 15.0% | 98 | 0.0% | -- | -- |
| International Equity With Beta Overlay | 20.0% | 33.6% | 89 | 12.7% | 20 | 4.3% | -0.6 | |
| MSCI ACWI ex USA Gross | -- | 36.3% | 74 | 14.7% | 81 | 0.0% | -- | -- |
| Global Fixed Income With Beta Overlay | 29.2% | 23.5% | -- | 5.3% | -- | 6.4% | 3.3 | -- |
| BBgBarc Global Aggregate TR | -- | 2.6% | -- | 5.3% | -- | 0.0% | -- | -- |
| U.S. Credit Strategies | 12.3% | 26.3% | 1 | 5.6% | 55 | 5.2% | 2.6 | 1 |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | -- | 12.6% | 8 | 3.8% | 1 | 0.0% | -- | -- |
| Non-U.S. Credit Composite | 10.5% | 22.7% | 2 | 5.4% | 98 | 12.1% | 0.4 | 74 |
| ICE BofA Euro High Yield Constrained TR | -- | 17.7% | 2 | 11.8% | 99 | 0.0% | -- | -- |
| Emerging Markets Debt Composite | 8.2% | 8.8% | 56 | 4.1% | 9 | 6.0% | 0.3 | 68 |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | -- | 7.1% | 81 | 8.1% | 60 | 0.0% | -- | -- |
| Alpha Pool Composite | 13.2% | 19.6% | 46 | 5.6% | 31 | 5.6% | 3.0 | 4 |
| 91 Day T-Bill + 3% | -- | 3.1% | 99 | 0.0% | 1 | 0.0% | -- | -- |

| | % of Tot | Anlzd Ret | Rank | Anlzd Std Dev | Rank |
|----------------------------------|----------|-----------|------|---------------|------|
| Private Equity Composite | 18.1% | 52.9% | -- | 10.0% | -- |
| CJA Global All PE (Qtr Lag) | -- | 52.5% | -- | 19.7% | -- |
| Real Estate Composite | 3.7% | 7.5% | 66 | 2.6% | 61 |
| NCREIF Property Index 1 Qtr. Lag | -- | 2.6% | 95 | 2.4% | 50 |
| Real Assets Composite | 3.9% | 29.7% | -- | 7.6% | -- |
| Real Assets Custom Blend | -- | 31.6% | -- | 8.7% | -- |

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



Exhibit A: Page 26

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION ASSET CLASS RISK STATISTICS

| | 3 Years Ending June 30, 2021 | | | | | | | |
|-------------------------------------------------------------------------|------------------------------|-----------|------|---------------|------|----------------|------------|------|
| | % of Tot | Anlzd Ret | Rank | Anlzd Std Dev | Rank | Tracking Error | Info Ratio | Rank |
| Domestic Equity With Beta Overlay | 16.9% | 15.4% | 87 | 19.5% | 53 | 3.1% | -1.1 | |
| Russell 3000 | -- | 18.7% | 6 | 19.4% | 48 | 0.0% | -- | -- |
| International Equity With Beta Overlay | 20.0% | 8.4% | 83 | 16.6% | 5 | 2.8% | -0.5 | |
| MSCI ACWI ex USA Gross | -- | 9.9% | 43 | 17.6% | 22 | 0.0% | -- | -- |
| Global Fixed Income With Beta Overlay | 29.2% | 6.0% | -- | 7.8% | -- | 8.2% | 0.2 | -- |
| BBgBarc Global Aggregate TR | -- | 4.2% | -- | 4.4% | -- | 0.0% | -- | -- |
| U.S. Credit Strategies | 12.3% | 9.1% | 5 | 8.4% | 90 | 6.9% | 0.5 | 12 |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | -- | 5.9% | 89 | 8.6% | 91 | 0.0% | -- | -- |
| Non-U.S. Credit Composite | 10.5% | 3.8% | 98 | 9.2% | 99 | 11.1% | -0.2 | |
| ICE BofA Euro High Yield Constrained TR | -- | 5.5% | 52 | 12.6% | 99 | 0.0% | -- | -- |
| Emerging Markets Debt Composite | 8.2% | 0.8% | 99 | 6.9% | 3 | 9.3% | -0.5 | |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | -- | 5.5% | 64 | 11.0% | 37 | 0.0% | -- | -- |
| Alpha Pool Composite | 13.2% | 4.8% | 75 | 7.3% | 40 | 7.4% | 0.1 | 41 |
| 91 Day T-Bill + 3% | -- | 4.2% | 83 | 0.3% | 1 | 0.0% | -- | -- |

| | % of Tot | Anlzd Ret | Rank | Anlzd Std Dev | Rank |
|----------------------------------|----------|-----------|------|---------------|------|
| Private Equity Composite | 18.1% | 20.3% | -- | 9.3% | -- |
| CJA Global All PE (Qtr Lag) | -- | 19.2% | -- | 14.4% | -- |
| Real Estate Composite | 3.7% | 5.9% | 22 | 2.3% | 48 |
| NCREIF Property Index 1 Qtr. Lag | -- | 4.9% | 72 | 2.5% | 51 |
| Real Assets Composite | 3.9% | 7.5% | -- | 12.1% | -- |
| Real Assets Custom Blend | -- | 5.3% | -- | 10.0% | -- |

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



Exhibit A: Page 27

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION ASSET CLASS RISK STATISTICS

| | 5 Years Ending June 30, 2021 | | | | | | | |
|-------------------------------------------------------------------------|------------------------------|-----------|------|---------------|------|----------------|------------|------|
| | % of Tot | Anlzd Ret | Rank | Anlzd Std Dev | Rank | Tracking Error | Info Ratio | Rank |
| Domestic Equity | 10.4% | 11.4% | -- | 13.9% | -- | 4.2% | -1.5 | |
| Russell 3000 | -- | 17.9% | -- | 15.6% | -- | 0.0% | -- | -- |
| International Developed | 1.5% | 4.1% | 99 | 11.1% | 1 | 7.6% | -0.8 | 88 |
| MSCI EAFE | -- | 10.3% | 77 | 14.7% | 30 | 0.0% | -- | -- |
| International Emerging | 4.3% | 9.3% | -- | 16.1% | -- | 4.0% | -0.9 | -- |
| MSCI Emerging Markets | -- | 13.0% | -- | 16.2% | -- | 0.0% | -- | -- |
| U.S. Credit Strategies | 12.3% | 9.2% | 1 | 6.7% | 89 | 5.7% | 0.5 | 1 |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | -- | 6.0% | 15 | 6.8% | 89 | 0.0% | -- | -- |
| Non-U.S. Credit Composite | 10.5% | 6.8% | 2 | 7.4% | 99 | 10.4% | 0.0 | 68 |
| ICE BofA Euro High Yield Constrained TR | -- | 6.4% | 3 | 11.1% | 99 | 0.0% | -- | -- |
| Emerging Markets Debt Composite | 8.2% | 3.1% | 85 | 6.4% | 4 | 8.0% | -0.1 | |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | -- | 4.1% | 69 | 9.4% | 44 | 0.0% | -- | -- |
| Alpha Pool Composite | 13.2% | 6.7% | 35 | 5.9% | 35 | 5.9% | 0.4 | 29 |
| 91 Day T-Bill + 3% | -- | 4.1% | 86 | 0.2% | 1 | 0.0% | -- | -- |

| | % of Tot | Anlzd Ret | Rank | Anlzd Std Dev | Rank |
|----------------------------------|----------|-----------|------|---------------|------|
| Private Equity Composite | 18.1% | 18.1% | -- | 7.5% | -- |
| CJA Global All PE (Qtr Lag) | -- | 17.6% | -- | 11.8% | -- |
| Real Estate Composite | 3.7% | 5.8% | 86 | 2.6% | 53 |
| NCREIF Property Index 1 Qtr. Lag | -- | 5.8% | 85 | 2.7% | 53 |
| Real Assets Composite | 3.9% | 6.3% | -- | 9.7% | -- |
| Real Assets Custom Blend | -- | 4.0% | -- | 8.1% | -- |

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



INVESTMENT MANAGER TOP 10

ASSETS UNDER MANAGEMENT AS OF JUNE 30, 2021

| Manager | Market Value | Portfolio % |
|---------------------------|----------------------|---------------|
| Total Russell | 1,161,710,199 | 8.67% |
| Total Tobam | 1,037,063,884 | 7.74% |
| SSGA S&P500 Flagship Fund | 938,027,354 | 7.00% |
| Total Pathway | 794,437,122 | 5.93% |
| Total Ares | 757,441,667 | 5.65% |
| Gramercy Funds Management | 699,879,690 | 5.22% |
| Total Alcentra | 609,249,546 | 4.55% |
| Total GoldenTree | 604,391,101 | 4.51% |
| Total Partners Group | 603,698,836 | 4.50% |
| Total Zais | 587,565,646 | 4.38% |
| Total | 7,793,465,045 | 58.15% |



PUBLIC EQUITY PORTFOLIO

| | | |
|-----------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Public Equity Portfolio (28% Target) | US Equities (13% Target) | Large Cap (8%) Russell Investments (Russell1000 Index) StateStreet Global Advisors S&P500 Index Fund TOBAM Anti-Benchmark US Equity Fund |
| | | Small Cap (2%) Russell Investments (Russell2000 Index) |
| | | Volatility (3%) Russell Investments (Russell1000 Index) |
| | International Equities (15% Target) | Developed Markets (6%) Russell Investments (MSCI EAFE Index) TOBAM Anti-Benchmark World ex-US Fund |
| | | Emerging Markets (6%) Mondrian Emerging Markets Equity Fund LP Russell Investments (MSCI EM Index) TOBAM Anti-Benchmark EM Equity Fund |
| | | Volatility (3%) Russell Investments (MSCI EAFE Index) |
| | | |



Exhibit A: Page 30

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION GLOBAL EQUITY STRATEGIES - NET

| | Market Value (\$) | % of Portfolio | 3 Mo (%) | Rank | YTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|------------------------------------------|----------------------|----------------|------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Total Equity | 2,169,358,672 | 16.2 | 6.7 | 67 | 10.4 | 99 | 35.7 | 99 | 13.7 | 60 | 11.0 | 99 | 6.5 | 99 |
| MSCI ACWI | | | 7.4 | 27 | 12.3 | 85 | 39.3 | 84 | 14.6 | 33 | 14.6 | 40 | 9.9 | 80 |
| Excess Return | | | -0.7 | | -1.9 | | -3.6 | | -0.9 | | -3.6 | | -3.4 | |
| InvMetrics Public DB Total Eq Net Median | | | 7.0 | | 13.3 | | 41.5 | | 14.0 | | 14.5 | | 10.5 | |
| Domestic Equity With Beta Overlay | 2,258,843,846 | 16.9 | 7.0 | 69 | 13.4 | 99 | 41.6 | 96 | 15.4 | 87 | 13.3 | 99 | -- | -- |
| Russell 3000 | | | 8.2 | 7 | 15.1 | 65 | 44.2 | 56 | 18.7 | 6 | 17.9 | 17 | 14.7 | 7 |
| Excess Return | | | -1.2 | | -1.7 | | -2.6 | | -3.3 | | -4.6 | | | |
| InvMetrics Public DB US Eq Net Median | | | 7.4 | | 15.3 | | 44.3 | | 17.0 | | 16.7 | | 13.5 | |
| Domestic Equity | 1,393,520,479 | 10.4 | 8.0 | -- | 13.9 | -- | 37.7 | -- | 16.7 | -- | 11.4 | -- | 6.3 | -- |
| Russell 3000 | | | 8.2 | -- | 15.1 | -- | 44.2 | -- | 18.7 | -- | 17.9 | -- | 14.7 | -- |
| Excess Return | | | -0.2 | | -1.2 | | -6.5 | | -2.0 | | -6.5 | | -8.4 | |
| Tobam AB US Equity | 454,304,700 | 3.4 | 6.9 | 46 | 11.4 | 83 | 34.9 | 91 | 14.0 | 59 | -- | -- | -- | -- |
| Russell 3000 | | | 8.2 | 29 | 15.1 | 57 | 44.2 | 56 | 18.7 | 32 | 17.9 | 35 | 14.7 | 28 |
| Excess Return | | | -1.3 | | -3.7 | | -9.3 | | -4.7 | | | | | |
| eV All US Equity Net Median | | | 6.6 | | 15.9 | | 46.1 | | 15.6 | | 15.8 | | 12.9 | |
| Large Cap Equity | 938,967,184 | 7.0 | 8.5 | 26 | 15.2 | 56 | 39.2 | 76 | 17.7 | 39 | 12.5 | 78 | 7.8 | 99 |
| S&P 500 | | | 8.5 | 25 | 15.3 | 56 | 40.8 | 69 | 18.7 | 33 | 17.6 | 36 | 14.8 | 26 |
| Excess Return | | | 0.0 | | -0.1 | | -1.6 | | -1.0 | | -5.1 | | -7.0 | |
| eV All US Equity Net Median | | | 6.6 | | 15.9 | | 46.1 | | 15.6 | | 15.8 | | 12.9 | |
| SSgA S&P500 | 938,027,354 | 7.0 | 8.5 | 26 | 15.2 | 56 | 40.8 | 69 | 18.3 | 35 | 14.4 | 61 | 10.5 | 86 |
| S&P 500 | | | 8.5 | 25 | 15.3 | 56 | 40.8 | 69 | 18.7 | 33 | 17.6 | 36 | 14.8 | 26 |
| Excess Return | | | 0.0 | | -0.1 | | 0.0 | | -0.4 | | -3.2 | | -4.3 | |
| eV All US Equity Net Median | | | 6.6 | | 15.9 | | 46.1 | | 15.6 | | 15.8 | | 12.9 | |
| Russell US Large Cap Volatility | 939,830 | 0.0 | | | | | | | | | | | | |
| Small Cap Equity | 248,595 | 0.0 | | | | | | | | | | | | |
| Russell US Small Cap Volatility | 248,595 | 0.0 | | | | | | | | | | | | |



Exhibit A: Page 31

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION GLOBAL EQUITY STRATEGIES - NET

| | Market Value (\$) | % of Portfolio | 3 Mo (%) | Rank | YTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|--------------------------------------------------|----------------------|----------------|------------|-----------|-------------|-----------|-------------|-----------|------------|-----------|-------------|-----------|------------|-----------|
| International Equity With Beta Overlay | 2,674,483,183 | 20.0 | 4.3 | 96 | 11.2 | 8 | 33.6 | 89 | 8.4 | 83 | 10.1 | 90 | -- | -- |
| MSCI ACWI ex USA Gross | | | 5.6 | 52 | 9.4 | 49 | 36.3 | 74 | 9.9 | 43 | 11.6 | 38 | 5.9 | 78 |
| Excess Return | | | -1.3 | | 1.8 | | -2.7 | | -1.5 | | -1.5 | | | |
| InvMetrics Public DB ex-US Eq Net Median | | | 5.7 | | 9.4 | | 38.0 | | 9.7 | | 11.2 | | 6.5 | |
| International Equity | 775,838,193 | 5.8 | 4.5 | -- | 4.4 | -- | 32.8 | -- | 7.8 | -- | 8.5 | -- | 5.6 | -- |
| MSCI ACWI | | | 7.4 | -- | 12.3 | -- | 39.3 | -- | 14.6 | -- | 14.6 | -- | 9.9 | -- |
| Excess Return | | | -2.9 | | -7.9 | | -6.5 | | -6.8 | | -6.1 | | -4.3 | |
| International Developed | 205,901,815 | 1.5 | 2.7 | 99 | 2.4 | 99 | 20.7 | 99 | 5.0 | 99 | 4.1 | 99 | 8.3 | 36 |
| MSCI EAFE | | | 5.2 | 86 | 8.8 | 51 | 32.3 | 82 | 8.3 | 82 | 10.3 | 77 | 5.9 | 65 |
| Excess Return | | | -2.5 | | -6.4 | | -11.6 | | -3.3 | | -6.2 | | 2.4 | |
| InvMetrics Public DB Dev Mkt ex-US Eq Net Median | | | 5.5 | | 8.9 | | 35.3 | | 10.7 | | 11.4 | | 7.3 | |
| Russell International Volatility | 16,451 | 0.0 | | | | | | | | | | | | |
| Tobam AB World Ex-US Equity | 205,885,364 | 1.5 | 2.7 | 96 | 2.4 | 98 | 20.7 | 98 | 3.6 | 97 | -- | -- | -- | -- |
| MSCI ACWI ex USA | | | 5.5 | 60 | 9.2 | 55 | 35.7 | 71 | 9.4 | 66 | 11.1 | 68 | 5.4 | 84 |
| Excess Return | | | -2.8 | | -6.8 | | -15.0 | | -5.8 | | -3.7 | | -1.6 | |
| eV All ACWI ex-US Equity Net Median | | | 6.1 | | 9.5 | | 40.2 | | 11.1 | | 12.7 | | 7.6 | |
| International Emerging | 569,936,379 | 4.3 | 5.2 | -- | 5.0 | -- | 34.7 | -- | 8.1 | -- | 9.3 | -- | 2.7 | -- |
| MSCI Emerging Markets | | | 5.0 | -- | 7.4 | -- | 40.9 | -- | 11.3 | -- | 13.0 | -- | 4.3 | -- |
| Excess Return | | | 0.2 | | -2.4 | | -6.2 | | -3.2 | | -3.7 | | -1.6 | |
| Mondrian | 193,062,558 | 1.4 | 2.8 | 82 | 6.8 | 67 | 44.6 | 44 | 11.6 | 48 | 9.4 | 86 | 3.9 | 76 |
| MSCI Emerging Markets | | | 5.0 | 54 | 7.4 | 61 | 40.9 | 65 | 11.3 | 51 | 13.0 | 56 | 4.3 | 68 |
| Excess Return | | | -2.2 | | -0.6 | | 3.7 | | 0.3 | | -3.6 | | -0.4 | |
| eV Emg Mkts Equity Net Median | | | 5.4 | | 9.0 | | 44.0 | | 11.3 | | 13.3 | | 4.9 | |
| Tobam | 376,873,821 | 2.8 | 6.5 | 38 | 4.1 | 86 | 30.1 | 96 | 6.4 | 93 | 8.8 | 87 | -- | -- |
| MSCI Emerging Markets | | | 5.0 | 54 | 7.4 | 61 | 40.9 | 65 | 11.3 | 51 | 13.0 | 56 | 4.3 | 68 |
| Excess Return | | | 1.5 | | -3.3 | | -10.8 | | -4.9 | | -4.2 | | | |
| eV Emg Mkts Equity Net Median | | | 5.4 | | 9.0 | | 44.0 | | 11.3 | | 13.3 | | 4.9 | |



GLOBAL DEBT STRATEGIES

| | | | | |
|------------------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Debt Strategies (35% Target) | Global Fixed Income (20% Target) | US Fixed Income (15% Target) | Core Fixed Income (2%) | Russell Investments (Bloomberg Barclays US Agg. Bond TR Index) |
| | | | Credit Strategies/ High Yield Strategies (13%) | Apollo Credit Strategies Fund LP (MCA) Apollo Offshore Credit Fund LTD (MCA) Bardin Hill Direct Portfolio (MCA) Bardin Hill Solutions Fund LP (MCA) Beach Point Select Fund LP GoldenTree Distressed Debt Fund 2010 GoldenTree Asset Management SMA Kayne Anderson BDC (MCA) MacKay Shields High Yield Bond Strategy SMA Manulife Asset Management SMA Waterfall - Sutherland (Ready Cap) REIT Holdings LP (MCA) Waterfall Asset Management SMA (MCA) Waterfall Victoria Fund LP (MCA) |
| | | | International Core (1%) | Russell Investments (Barclays Global Aggregate ex US Unhedged) |
| | | | International Credit (11%) | Alcentra European Direct Lending Fund Alcentra Strategic Credit Fund Alcentra Limited SMA Alcentra Structured Credit Opportunity Fund III Alcentra Viaduct Fund LP Cairn Capital Limited SMA Cairn Capstone Special Opportunities Fund Cairn Pathfinder Fund I Cairn Pathfinder Fund III Marathon Asset Management SMA Marathon CLO Equity Fund Marathon European Credit Opportunity Fund II Marathon European Credit Opportunity Fund III Marathon Structured Product Strategies Fund Marathon Structured Product Strategies Fund II |
| | | Emerging Market Debt (8%) | Emerging Market Debt (8%) | Ashmore Emerging Markets MCA Gramercy Capital Solutions Fund (MCA) Gramercy Distressed Argentina Fund III Private (MCA) Gramercy Distressed Argentina Fund IV Private (MCA) Gramercy Distressed Opportunity Fund II (MCA) Gramercy Distressed Opportunity Fund III (MCA) Gramercy Emerging Markets Dislocation Fund (MCA) Gramercy Separate Account (MCA) Gramercy Venezuela Opportunity Fund (MCA) Gramercy Venezuela Opportunity Fund II (MCA) Gramercy Venezuela Special Situations Fund (MCA) Marathon Global Emerging Markets Fund PGIM Emerging Market Debt Opportunities Fund |



Exhibit A: Page 33

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION GLOBAL DEBT STRATEGIES - NET

| | Market Value (\$) | % of Portfolio | 3 Mo (%) | Rank | YTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|-------------------------------------------------------------------------|----------------------|----------------|------------|----------|-------------|----------|-------------|----------|------------|-----------|------------|----------|------------|----------|
| Global Fixed Income With Beta Overlay | 3,910,732,764 | 29.2 | 5.4 | -- | 11.0 | -- | 23.5 | -- | 6.0 | -- | 4.8 | -- | -- | -- |
| BBgBarc Global Aggregate TR | | | 1.3 | -- | -3.2 | -- | 2.6 | -- | 4.2 | -- | 2.3 | -- | 2.1 | -- |
| Excess Return | | | 4.1 | | 14.2 | | 20.9 | | 1.8 | | 2.5 | | | |
| Total Fixed | 4,161,132,764 | 31.0 | 4.9 | 1 | 9.7 | 2 | 20.3 | 2 | 5.0 | 63 | 6.8 | 2 | 5.6 | 3 |
| InvMetrics Public DB Total Fix Inc Net Median | | | 2.0 | | -0.7 | | 3.4 | | 5.5 | | 3.6 | | 3.9 | |
| U.S. Credit Strategies | 1,650,460,960 | 12.3 | 5.7 | 1 | 11.5 | 1 | 26.3 | 1 | 9.1 | 5 | 9.2 | 1 | 7.2 | 1 |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | | | 2.0 | 93 | 3.2 | 6 | 12.6 | 8 | 5.9 | 89 | 6.0 | 15 | 5.5 | 9 |
| Excess Return | | | 3.7 | | 8.3 | | 13.7 | | 3.2 | | 3.2 | | 1.7 | |
| ICE BofA US High Yield TR | | | 2.8 | 20 | 3.7 | 4 | 15.6 | 1 | 7.2 | 53 | 7.3 | 5 | 6.5 | 1 |
| eV Global Credit Fixed Inc Net Median | | | 2.5 | | -1.2 | | 5.9 | | 7.2 | | 5.1 | | 4.6 | |
| Stone Tower Offshore Credit (Apollo) | 361,985,514 | 2.7 | 2.5 | -- | 6.5 | -- | 17.8 | -- | 6.0 | -- | 6.2 | -- | 6.9 | -- |
| Beach Point Capital (Formerly Post) | 203,441,810 | 1.5 | 3.6 | 1 | 10.8 | 1 | 28.6 | 1 | 9.8 | 2 | 10.1 | 1 | 8.9 | 1 |
| Mackay / Gold Coast | 81,484,501 | 0.6 | 2.6 | 38 | 3.3 | 6 | 15.0 | 3 | 7.7 | 31 | 7.3 | 5 | 6.2 | 1 |
| Stone Tower Credit (Apollo) | 126,156,961 | 0.9 | 2.0 | 50 | 7.6 | 1 | 14.5 | 17 | 12.7 | 2 | 11.1 | 1 | -- | -- |
| Gold Coast Capital IV | 99,186,202 | 0.7 | 2.6 | -- | 6.1 | -- | 13.1 | -- | 6.0 | -- | 6.0 | -- | -- | -- |
| Waterfall Asset Management | 38,158,500 | 0.3 | 15.5 | -- | 29.2 | -- | 77.1 | -- | 12.6 | -- | 14.1 | -- | -- | -- |
| Waterfall Victoria | 57,819,091 | 0.4 | 3.1 | -- | 9.1 | -- | 15.3 | -- | 6.6 | -- | 7.9 | -- | -- | -- |
| KAYNE ANDERSON BDC, LLC | 42,182,639 | 0.3 | 3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MD SASS Waterfall Victoria | 28,739,659 | 0.2 | 22.3 | -- | 34.9 | -- | -3.9 | -- | 10.5 | -- | 10.0 | -- | -- | -- |
| Golden Tree Distressed Debt | 16,054,938 | 0.1 | 11.7 | 1 | 27.1 | 1 | -9.6 | 99 | -4.9 | 99 | 0.0 | 99 | 6.4 | 1 |
| AG Capital | 6,488 | 0.0 | -2.0 | 99 | -3.5 | 99 | -5.3 | 99 | 14.5 | 1 | 8.1 | 1 | 4.8 | 45 |
| Golden Tree Asset Management | 588,418,884 | 4.4 | 10.5 | 1 | 16.1 | 1 | 41.2 | 1 | 13.3 | 1 | 12.5 | 1 | 10.0 | 1 |
| Russell Interest Rate Hedging | 6,825,771 | 0.1 | -43.2 | 99 | 37.9 | 1 | 29.9 | 1 | -33.8 | 99 | -22.0 | 99 | -27.1 | 99 |



Exhibit A: Page 34

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION GLOBAL DEBT STRATEGIES - NET

| | Market Value (\$) | % of Portfolio | 3 Mo (%) | Rank | YTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|-----------------------------------------------|----------------------|----------------|------------|----------|-------------|----------|-------------|----------|------------|-----------|------------|----------|------------|-----------|
| Non-U.S. Fixed Income Composite | 2,510,671,805 | 18.7 | 4.4 | 1 | 8.6 | 2 | 16.4 | 2 | 2.5 | 99 | 5.3 | 5 | 4.5 | 18 |
| BBgBarc Global Aggregate ex US TR | | | 0.9 | 87 | -4.4 | 99 | 4.6 | 33 | 3.1 | 99 | 1.7 | 99 | 1.0 | 99 |
| Excess Return | | | 3.5 | | 13.0 | | 11.8 | | -0.6 | | 3.6 | | 3.5 | |
| InvMetrics Public DB Total Fix Inc Net Median | | | 2.0 | | -0.7 | | 3.4 | | 5.5 | | 3.6 | | 3.9 | |
| Non-U.S. Credit Composite | 1,406,878,860 | 10.5 | 5.8 | 1 | 13.5 | 2 | 22.7 | 2 | 3.8 | 98 | 6.8 | 2 | 5.6 | 3 |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | 13 | -0.2 | 31 | 17.7 | 2 | 5.5 | 52 | 6.4 | 3 | 4.1 | 36 |
| Excess Return | | | 3.4 | | 13.7 | | 5.0 | | -1.7 | | 0.4 | | 1.5 | |
| Marathon/Gold Coast | 261,547,839 | 2.0 | 3.7 | 1 | 5.9 | 1 | 11.7 | 9 | 8.8 | 6 | 10.5 | 1 | 7.1 | 1 |
| Halcyon Asset Management | 184,557,517 | 1.4 | 11.1 | 1 | 18.7 | 1 | 16.4 | 1 | -2.7 | 99 | 2.6 | 99 | -- | -- |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | 75 | -0.2 | 16 | 17.7 | 1 | 5.5 | 99 | 6.4 | 11 | 4.1 | 82 |
| Excess Return | | | 8.7 | | 18.9 | | -1.3 | | -8.2 | | -3.8 | | | |
| eV Global Credit Fixed Inc Net Median | | | 2.5 | | -1.2 | | 5.9 | | 7.2 | | 5.1 | | 4.6 | |
| Cairn Composite | 351,523,958 | 2.6 | 4.4 | 1 | 8.9 | 1 | 18.4 | 1 | 5.0 | 99 | 7.1 | 6 | 4.3 | 67 |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | 75 | -0.2 | 16 | 17.7 | 1 | 5.5 | 99 | 6.4 | 11 | 4.1 | 82 |
| Excess Return | | | 2.0 | | 9.1 | | 0.7 | | -0.5 | | 0.7 | | 0.2 | |
| eV Global Credit Fixed Inc Net Median | | | 2.5 | | -1.2 | | 5.9 | | 7.2 | | 5.1 | | 4.6 | |
| Alcentra - KT1 | 468,213,775 | 3.5 | 5.0 | -- | 19.1 | -- | 34.6 | -- | 4.3 | -- | 8.5 | -- | -- | -- |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | -- | -0.2 | -- | 17.7 | -- | 5.5 | -- | 6.4 | -- | 4.1 | -- |
| Excess Return | | | 2.6 | | 19.3 | | 16.9 | | -1.2 | | 2.1 | | | |
| Alcentra SP1 - KT1 | 3,400,374 | 0.0 | 1.9 | -- | 4.0 | -- | 6.4 | -- | -29.4 | -- | -- | -- | -- | -- |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | -- | -0.2 | -- | 17.7 | -- | 5.5 | -- | 6.4 | -- | 4.1 | -- |
| Excess Return | | | -0.5 | | 4.2 | | -11.3 | | -34.9 | | | | | |
| Alcentra SP2 - KT1 | 16,528,590 | 0.1 | 30.0 | -- | 24.9 | -- | 6.0 | -- | -7.6 | -- | -- | -- | -- | -- |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | -- | -0.2 | -- | 17.7 | -- | 5.5 | -- | 6.4 | -- | 4.1 | -- |
| Excess Return | | | 27.6 | | 25.1 | | -11.7 | | -13.1 | | | | | |
| Alcentra SP3 - KT1 | 56,834,089 | 0.4 | 7.4 | -- | 28.5 | -- | 80.4 | -- | 6.6 | -- | -- | -- | -- | -- |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | -- | -0.2 | -- | 17.7 | -- | 5.5 | -- | 6.4 | -- | 4.1 | -- |
| Excess Return | | | 5.0 | | 28.7 | | 62.7 | | 1.1 | | | | | |
| Alcentra SP4 - KT1 | 64,272,718 | 0.5 | 7.5 | -- | 7.0 | -- | 16.8 | -- | -- | -- | -- | -- | -- | -- |
| ICE BofA Euro High Yield Constrained TR | | | 2.4 | -- | -0.2 | -- | 17.7 | -- | 5.5 | -- | 6.4 | -- | 4.1 | -- |
| Excess Return | | | 5.1 | | 7.2 | | -0.9 | | | | | | | |



Exhibit A: Page 35

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION GLOBAL DEBT STRATEGIES - NET

| | Market Value (\$) | % of Portfolio | 3 Mo (%) | Rank | YTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|---------------------------------------------------------------------|----------------------|----------------|------------|-----------|-------------|-----------|-------------|-----------|------------|-----------|------------|-----------|-------------|-----------|
| Emerging Markets Debt Composite | 1,103,792,944 | 8.2 | 2.5 | 78 | 2.6 | 6 | 8.8 | 56 | 0.8 | 99 | 3.1 | 85 | 2.3 | 69 |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | | | 3.8 | 46 | -2.0 | 74 | 7.1 | 81 | 5.5 | 64 | 4.1 | 69 | 3.1 | 67 |
| Excess Return | | | -1.3 | | | | 4.6 | | 1.7 | | -4.7 | | -1.0 | |
| eV All Emg Mkts Fixed Inc Net Median | | | 3.7 | | -0.7 | | 9.1 | | 6.5 | | 4.9 | | 4.4 | |
| Ashmore Emerging Markets Liquid Investments | 211,309,208 | 1.6 | 3.8 | 46 | -2.0 | 74 | 7.1 | 81 | 5.5 | 64 | 4.1 | 69 | -- | -- |
| JP Morgan GBI - EM Global Diversified Index | | | 3.5 | 53 | -3.4 | 83 | 6.6 | 85 | 4.1 | 81 | 3.2 | 83 | 0.5 | 82 |
| Excess Return | | | 0.3 | | 1.4 | | 0.5 | | 1.4 | | 0.9 | | | |
| eV All Emg Mkts Fixed Inc Net Median | | | 3.7 | | -0.7 | | 9.1 | | 6.5 | | 4.9 | | 4.4 | |
| Ashmore Local Currency | 69,739,326 | 0.5 | 4.8 | 1 | -3.5 | 87 | 12.3 | 26 | 1.4 | 98 | 2.6 | 84 | -0.4 | 99 |
| JP Morgan ELMI+ TR USD | | | 2.0 | 48 | -0.6 | 53 | 6.8 | 51 | 2.1 | 98 | 2.3 | 86 | -0.3 | 99 |
| Excess Return | | | 2.8 | | -2.9 | | 5.5 | | -0.7 | | 0.3 | | -0.1 | |
| JP Morgan EMBI Global Index | | | 3.9 | 4 | -1.0 | 59 | 6.8 | 51 | 6.5 | 33 | 4.4 | 53 | 5.3 | 19 |
| eV All Global Fixed Inc Net Median | | | 1.9 | | -0.5 | | 7.1 | | 5.8 | | 4.7 | | 3.6 | |
| Gramercy Funds Management LLC | 699,879,690 | 5.2 | 1.2 | 98 | 3.2 | 4 | 3.7 | 99 | -1.8 | 99 | 1.6 | 99 | -- | -- |
| JP Morgan ELMI+ TR USD | | | 2.0 | 89 | -0.6 | 47 | 6.8 | 84 | 2.1 | 98 | 2.3 | 92 | -0.3 | 97 |
| Excess Return | | | -0.8 | | 3.8 | | -3.1 | | -3.9 | | -0.7 | | | |
| JP Morgan EMBI Global Index | | | 3.9 | 38 | -1.0 | 56 | 6.8 | 84 | 6.5 | 50 | 4.4 | 62 | 5.3 | 26 |
| eV All Emg Mkts Fixed Inc Net Median | | | 3.7 | | -0.7 | | 9.1 | | 6.5 | | 4.9 | | 4.4 | |
| PGIM Fixed Income | 122,864,720 | 0.9 | 3.4 | 58 | 8.7 | 1 | 31.1 | 1 | 8.5 | 9 | 8.9 | 1 | -- | -- |
| 50% JPM EMBI Global Diversified/ 50% JPM GBI-EM Global Diversified | | | 3.8 | 46 | -2.0 | 74 | 7.1 | 81 | 5.5 | 64 | 4.1 | 69 | 3.1 | 67 |
| Excess Return | | | -0.4 | | | | 10.7 | | 24.0 | | 3.0 | | 4.8 | |
| JP Morgan EMBI Global Index | | | 3.9 | 38 | -1.0 | 56 | 6.8 | 84 | 6.5 | 50 | 4.4 | 62 | 5.3 | 26 |
| eV All Emg Mkts Fixed Inc Net Median | | | 3.7 | | -0.7 | | 9.1 | | 6.5 | | 4.9 | | 4.4 | |



ABSOLUTE RETURN (ALPHA POOL)

| | |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Absolute Return (Alpha Pool) (7% Target) | Core & Credit Strategies (7%) Apollo Global SMA (MCA) Apollo MidCap Financial Holdings Trust (MCA) Ares ECO Master Fund II, LTD (MCA) Birch Grove Credit Strategies Fund Corrum Capital Global Credit Opportunities Fund Corrum Capital GCO Co-Invest Fund StateStreet Global Advisors Short Term Treasury Strategy SMA Zais Group SMA Zais Opportunity Fund, LTD Zais Zephyr A-6, LP Zais Zephyr A-7, LP Zais Zephyr A-8, LP |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

ALPHA POOL STRATEGIES - NET

| | Market Value (\$) | % of Portfolio | 3 Mo (%) | Rank | YTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|-------------------------------|----------------------|----------------|------------|-----------|------------|-----------|-------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| Alpha Pool Composite | 1,766,671,143 | 13.2 | 2.7 | 44 | 5.0 | 62 | 19.6 | 46 | 4.8 | 75 | 6.7 | 35 | 5.5 | 15 |
| 91 Day T-Bill + 3% | | | 0.7 | 85 | 1.5 | 98 | 3.1 | 99 | 4.2 | 83 | 4.1 | 86 | 3.6 | 58 |
| Excess Return | | | 2.0 | | 3.5 | | 16.5 | | 0.6 | | 2.6 | | 1.9 | |
| Alpha Liquidity (Ssga) | 206,471,729 | 1.5 | 0.0 | 98 | 0.1 | 46 | -0.2 | 97 | 1.7 | 98 | 1.4 | 97 | 0.9 | 98 |
| Apollo Global Management | 12,392,115 | 0.1 | 30.9 | 1 | -13.3 | 99 | 3.4 | 80 | 13.4 | 1 | 18.0 | 1 | -- | -- |
| Ares Eco Master Fund II | 565,943,243 | 4.2 | 3.2 | 7 | 5.6 | 3 | 19.4 | 5 | 6.2 | 40 | -- | -- | -- | -- |
| Birch Grove Credit Strategies | 165,011,206 | 1.2 | 3.0 | 10 | 12.2 | 1 | 26.6 | 2 | 9.3 | 3 | 10.1 | 2 | -- | -- |
| Corrum Capital | 229,277,002 | 1.7 | -4.4 | 99 | -4.4 | 93 | 0.7 | 96 | -3.9 | 99 | 1.7 | 94 | 1.9 | 87 |
| Zais | 139,009,243 | 1.0 | 4.8 | 1 | 8.5 | 1 | 37.3 | 1 | 1.1 | 98 | 6.0 | 27 | 6.9 | 3 |
| Zais Group Invest Advisors | 351,780,859 | 2.6 | 5.1 | 1 | 9.5 | 1 | 33.2 | 1 | 6.6 | 31 | 11.1 | 1 | -- | -- |
| Zais Zephyr A 6 LP | 0 | 0.0 | 16.4 | 1 | 18.7 | 1 | 101.6 | 1 | 12.1 | 2 | 13.2 | 1 | -- | -- |
| Zais Zephyr 8 | 43,491,066 | 0.3 | 8.0 | 1 | 8.7 | 1 | 27.8 | 1 | -- | -- | -- | -- | -- | -- |
| Zais Zephyr 7 | 53,294,680 | 0.4 | 2.6 | 25 | 8.9 | 1 | 23.7 | 3 | -- | -- | -- | -- | -- | -- |



PRIVATE ASSETS

| | | | |
|-----------------------------|----------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Private Assets (16% Target) | Private Equity | Diversified | Adams Street SMA (MCA) Kayne Anderson Co-Invest (MCA) Partners Group SMA (MCA) Pathway Capital SMA (MCA) Pathway PE Fund VII LLC SL Capital European Strategic Partners 2004 SL Capital European Strategic Partners 2008 |
| | | Buyout Funds | Aurora Equity Partners IV Kayne Partners Fund IV LP (MCA) Kayne Partners Fund V LP (MCA) Partners Group Direct Equity 2016 (MCA) Partners Group Direct Investments 2012 LP (MCA) Partners Group European Buyout 2005 (A) LP Waterfall Sentinel Fund (MCA) |
| | | Venture Funds | Industry Ventures Direct LP (MCA) Industry Ventures Direct II LP (MCA) Industry Ventures Direct III LP (MCA) Industry Ventures Fund VI LP (MCA) Industry Ventures MCA Industry Ventures Partnership Holdings II LP (MCA) Industry Ventures Partnership Holdings III LP (MCA) Industry Ventures Partnership Holdings III-A LP (MCA) Industry Ventures Partnership Holdings IV LP (MCA) Industry Ventures Partnership Holdings V LP (MCA) Industry Ventures Partnership Holdings VI LP (MCA) Industry Ventures Special Opportunities Fund II-A LP (MCA) Industry Ventures Tech Buyout, LP (MCA) |
| | | Secondary Funds | Aberdeen Standard Secondary Opportunities Fund IV Industry Ventures Secondary VII LP (MCA) Industry Ventures Secondary VIII LP (MCA) Lexington Capital Partners VI Lexington Capital Partners VII Lexington Middle Market Investors I Lexington Middle Market Investors II Partners Group Secondary 2008 LP SL Capital Secondary Opportunities Fund I SL Capital Secondary Opportunities Fund II SL Capital Secondary Opportunities Fund III |
| | | Sector Specific Funds | Kayne Anderson Energy Fund VII LP Tennenbaum Energy Opportunities Fund LP (MCA) |
| | Private Debt | Direct Lending | Ares Private Credit Solutions Fund (MCA) Kayne Anderson Capital Advisors I & II Kayne Anderson Renewables Opportunities Portfolio (MCA) Tennenbaum Lending Fund VIII LLC (MCA) Tennenbaum Waterman Fund LP (MCA) |
| | | Credit/Distressed/ Opportunistic/ Special Situations | Ares ICOF II (MCA) Ares ICOF III (MCA) Ares SMA (MCA) Ares Special Situations Fund IV (MCA) Catalyst Fund LP II Crestline Portfolio Financing Fund Crestline Portfolio Financing Fund II Kayne Anderson CLO Partners II (MCA) Kayne Anderson Solutions Fund (MCA) Sigular Guff Distressed Opportunity Fund III LP Tennenbaum Co-Invest (MCA) Tennenbaum Opportunities Fund V LLC (MCA) Tennenbaum Opportunities Fund VI LLC (MCA) Tennenbaum Special Situations Fund IX LLC (MCA) |



REAL ESTATE PORTFOLIO

| | | |
|------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Real Estate Portfolio (7% Target) | Core Real Estate (3.5%) | Core Real Estate 348 West Hospitality Invesco Real Estate Asia Fund Kayne Anderson Real Estate Debt III (MCA) Kayne Anderson Real Estate Debt IV (MCA) Marathon Real Estate Debt Fund PRISA II PGIM Real Estate Capital VI LP PGIM Real Estate Capital VII LP |
| | Non-Core Real Estate (3.5%) | Enhanced Real Estate/ High Return Apollo Real Estate Fund II LP (MCA) Bryanston Retail Opportunity Fortress Japan Opportunity Fund II Kayne Anderson Real Estate Partners V LP (MCA) Morgan Stanley RE Fund V International Oaktree RE Opportunities Fund V PRISA III Starwood Global Opportunity Fund VII-A Walton Street Real Estate Fund V |
| | | Real Estate Secondaries Partners Group Real Estate Secondary 2013 A LP (MCA) Partners Group Real Estate Secondary 2017 A LP (MCA) |



REAL ASSETS PORTFOLIO

| | | |
|-------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------|
| Real Asset Portfolio (5% Target) | Commodities (2% Target) | Energy Spectrum Partners VI LP Pinnacle Natural Resources LP Pinnacle Physicals & Financing LTD |
| | Infrastructure (1% Target) | Kayne Anderson Acquisition LP (MCA) Kayne Anderson MLP Strategy (MCA) |
| | Timber (2% Target) | Hancock Timberland VIII LP Timbervest Crossover Partners II LP Timbervest Partners II LP |



Exhibit A: Page 41

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION ALTERNATIVES - NET

| | Market Value (\$) | % of Portfolio | 3 Mo (%) | Rank | YTD (%) | Rank | 1 Yr (%) | Rank | 3 Yrs (%) | Rank | 5 Yrs (%) | Rank | 10 Yrs (%) | Rank |
|------------------------------------------------------|----------------------|----------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Private Equity Composite | 2,422,096,997 | 18.1 | 15.6 | -- | 25.0 | -- | 52.9 | -- | 20.3 | -- | 18.1 | -- | 14.5 | -- |
| C A Global All PE (Qtr Lag) | | | 9.6 | -- | 26.5 | -- | 52.5 | -- | 19.2 | -- | 17.6 | -- | 14.0 | -- |
| Excess Return | | | 6.0 | | -1.5 | | 0.4 | | 1.1 | | 0.5 | | 0.5 | |
| Russell 3000 | | | 8.2 | -- | 15.1 | -- | 44.2 | -- | 18.7 | -- | 17.9 | -- | 14.7 | -- |
| C A US All PE (1 Qtr Lag) | | | 9.4 | -- | 22.0 | -- | 47.4 | -- | 17.6 | -- | 17.2 | -- | 14.3 | -- |
| Real Estate Composite | 497,957,731 | 3.7 | 1.6 | 80 | 4.9 | 67 | 7.5 | 66 | 5.9 | 22 | 5.8 | 86 | 8.3 | 81 |
| NCREIF Property Index 1 Qtr. Lag | | | 1.7 | 79 | 2.9 | 85 | 2.6 | 95 | 4.9 | 72 | 5.8 | 85 | 8.8 | 74 |
| Excess Return | | | -0.1 | | 2.0 | | 4.9 | | 1.0 | | 0.0 | | -0.5 | |
| InvMetrics Public DB Real Estate Pub+Priv Net Median | | | 3.6 | | 6.1 | | 7.9 | | 5.4 | | 6.5 | | 9.0 | |
| Real Assets Composite | 525,581,462 | 3.9 | 7.8 | -- | 12.2 | -- | 29.7 | -- | 7.5 | -- | 6.3 | -- | 4.1 | -- |
| Real Assets Custom Blend | | | 9.9 | -- | 14.5 | -- | 31.6 | -- | 5.3 | -- | 4.0 | -- | 0.9 | -- |
| Excess Return | | | -2.1 | | -2.3 | | -1.9 | | 2.2 | | 2.3 | | 3.2 | |
| 67% Bloomberg Commodity/ 33% Barclays US TIPS | | | 9.9 | -- | 14.5 | -- | 31.6 | -- | 5.0 | -- | 3.2 | -- | -1.7 | -- |
| Timber | 31,605,589 | 0.2 | -2.1 | -- | -3.0 | -- | -1.6 | -- | -4.1 | -- | -2.9 | -- | 0.9 | -- |
| NCREIF Timberland 1 Qtr. Lag | | | 0.8 | -- | 1.3 | -- | 1.5 | -- | 1.7 | -- | 2.5 | -- | 4.6 | -- |
| Excess Return | | | -2.9 | | -4.3 | | -3.1 | | -5.8 | | -5.4 | | -3.7 | |
| Infrastructure | 105,466,249 | 0.8 | 15.1 | -- | 29.0 | -- | 85.5 | -- | 9.6 | -- | 14.3 | -- | 4.7 | -- |
| Russell 3000 | | | 8.2 | -- | 15.1 | -- | 44.2 | -- | 18.7 | -- | 17.9 | -- | 14.7 | -- |
| Excess Return | | | 6.9 | | 13.9 | | 41.3 | | -9.1 | | -3.6 | | -10.0 | |
| Commodities | 388,509,624 | 2.9 | 6.1 | -- | 7.9 | -- | 13.7 | -- | 10.9 | -- | 8.4 | -- | 5.0 | -- |
| Bloomberg Commodity Index | | | 13.3 | -- | 21.2 | -- | 45.6 | -- | 3.9 | -- | 2.4 | -- | -4.4 | -- |
| Excess Return | | | -7.2 | | -13.3 | | -31.9 | | 7.0 | | 6.0 | | 9.4 | |





APPENDIX: PERFORMANCE SUMMARY

Real Estate
Real Assets
Private Equity

PROPRIETARY & CONFIDENTIAL

REAL ESTATE PERFORMANCE

AS OF MARCH 31, 20201

| 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 | 61,852,541 | 13,147,459 | 53,254,642 | 61,103,519 | 1.74 | 17.19% |
| Walton Street Real Estate Fund IV, LP | 2003 | 10,000,000 | 9,770,890 | 229,110 | 15,939,604 | 66,256 | 1.64 | 10.72% |
| Bryanston Retail Opportunity Fund, L.P. | 2004 | 20,000,000 | 8,228,165 | 11,771,835 | 22,328,219 | 11,852,530 | 4.15 | 70.75% |
| Prudential PRISA II | 2004 | 140,000,000 | 140,000,000 | 0 | 55,361,026 | 168,660,968 | 1.53 | 7.12% |
| RREEF America REIT III | 2004 | 20,000,000 | 20,539,309 | 0 | 23,658,675 | 0 | 1.15 | 3.00% |
| BlackRock Diamond Property Fund | 2005 | 25,000,000 | 25,000,000 | 0 | 15,233,347 | 0 | 0.61 | -9.31% |
| CBRE Strategic Partners IV | 2005 | 40,000,000 | 40,000,000 | 0 | 2,609,685 | 0 | 0.07 | -27.76% |
| INVEESCO Real Estate Fund I | 2005 | 10,000,000 | 9,248,390 | 0 | 10,015,656 | 0 | 1.08 | 1.54% |
| LaSalle Income & Growth Fund IV | 2005 | 20,000,000 | 19,469,417 | 0 | 13,482,024 | 0 | 0.69 | -5.51% |
| North Haven Real Estate Fund V International | 2005 | 27,500,000 | 27,377,414 | 122,586 | 32,070,486 | 1,157,221 | 1.21 | 6.81% |
| Prologis Japan Fund | 2005 | 25,290,819 | 25,290,819 | 0 | 33,126,118 | 0 | 1.31 | 4.81% |
| Tri Continental Capital VII | 2005 | 23,000,000 | 22,277,928 | 722,072 | 3,075,156 | 440,766 | 0.16 | -15.61% |
| American Realty Value Add | 2006 | 13,125,215 | 13,125,215 | 0 | 32,080,321 | 0 | 2.44 | 10.92% |
| Beacon Capital Strategic Partners IV, L.P. | 2006 | 38,000,000 | 38,000,000 | 0 | 31,424,699 | 0 | 0.83 | -3.26% |
| Fillmore East Fund | 2006 | 25,000,000 | 31,403,818 | 0 | 20,777,177 | 0 | 0.66 | -9.78% |
| Starwood Capital Hospitality Fund I-2 | 2006 | 30,000,000 | 30,000,000 | 0 | 27,879,087 | 2,487,048 | 1.01 | 0.16% |
| Starwood Opportunity Fund VII - A | 2006 | 25,000,000 | 25,000,000 | 0 | 19,517,190 | 618,491 | 0.81 | -2.35% |
| Walton Street Real Estate Fund V, LP | 2006 | 40,000,000 | 40,000,000 | 0 | 26,758,768 | 2,761,743 | 0.74 | -3.29% |
| 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 | 2007 | 20,000,000 | 20,000,000 | 0 | 8,567,605 | 0 | 0.43 | -35.57% |
| Square Mile Partners II | 2007 | 19,831,232 | 19,831,232 | 0 | 5,311,330 | 0 | 0.27 | -19.11% |
| Fillmore West Fund | 2008 | 20,000,000 | 19,561,557 | 0 | 21,175,799 | 0 | 1.08 | 1.14% |
| Square Mile Partners III LP | 2008 | 20,000,000 | 19,730,190 | 269,810 | 28,756,613 | 51,831 | 1.46 | 11.50% |
| Starwood Debt Fund II, LP | 2008 | 20,000,000 | 17,599,882 | 0 | 21,912,511 | 0 | 1.25 | 6.45% |
| Structured Real Estate III, LP (Guggenheim) | 2008 | 20,000,000 | 20,000,000 | 0 | 16,320,664 | 0 | 0.82 | -4.99% |
| Bryanston Real Estate Opportunity Fund II, L.P. | 2009 | 20,000,000 | 8,589,256 | 0 | 11,847,997 | 0 | 1.38 | 10.19% |
| Fortress Japan Opportunity Fund II | 2012 | 21,739,130 | 2,434,589 | 19,304,541 | 23,188,365 | 3,968,832 | 10.03 | 25.68% |
| Oaktree Real Estate Opportunities V | 2012 | 25,000,000 | 25,000,000 | 0 | 38,093,074 | 1,895,399 | 1.57 | 12.94% |
| Invesco Real Estate Asia Fund | 2014 | 51,732,500 | 51,732,500 | 0 | 14,037,368 | 69,800,422 | 1.55 | 7.56% |
| Partners Group RE Secondary 2013 (USD) A | 2014 | 65,000,000 | 49,541,590 | 15,458,410 | 24,769,953 | 43,352,297 | 1.38 | 9.31% |
| Apollo US Real Estate Fund II | 2015 | 20,000,000 | 14,344,929 | 5,655,071 | 4,987,840 | 13,410,127 | 1.28 | 8.23% |
| Pramerica Real Estate Capital VI | 2016 | 25,383,664 | 24,459,070 | 924,594 | 8,232,815 | 12,422,487 | 0.84 | -10.63% |
| Kayne Anderson Real Estate Partners V | 2017 | 20,000,000 | 16,400,000 | 3,600,000 | 1,193,140 | 20,674,956 | 1.35 | 16.37% |
| Partners Group RE Secondary 2017 (USD) A | 2017 | 75,000,000 | 38,698,150 | 36,301,850 | 118,130 | 45,994,117 | 1.19 | 8.78% |
| Kayne Anderson Real Estate Debt III | 2018 | 20,000,000 | 19,828,428 | 171,572 | 5,790,674 | 16,937,185 | 1.14 | 9.88% |
| Total: San Bernardino | | 1,256,612,333 | 1,128,977,196 | 109,247,966 | 1,003,620,378 | 477,656,195 | 1.30 | 4.13% |



Note: All metrics are calculated since inception
 * Denotes cash adjusted

REAL ASSETS PERFORMANCE

AS OF MARCH 31, 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 | 19,665,637 | 1.01 | 0.09% |
| Highstar Capital III, L.P. | 2007 | 60,000,000 | 59,119,119 | 880,881 | 63,076,794 | 239,529 | 1.07 | 0.87% |
| Timbervest Partners II, L.P. | 2007 | 50,000,000 | 50,000,000 | 0 | 49,225,000 | 3,218,415 | 1.05 | 0.49% |
| Timbervest Crossover Partners II, L.P. | 2008 | 30,000,000 | 30,000,000 | 0 | 18,014,831 | 8,821,529 | 0.89 | -1.55% |
| Fortress Transportation Infrastructure LLC | 2015 | 45,403,354 | 45,403,354 | 0 | 41,902,882 | 45,750,564 | 1.93 | -1.99% |
| Total: San Bernardino | | 315,403,354 | 314,522,473 | 880,881 | 294,134,332 | 77,695,674 | 1.18 | 0.40% |



Note: All metrics are calculated since inception
 * Denotes cash adjusted

PRIVATE EQUITY PERFORMANCE

AS OF MARCH 31, 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 | 3,690,411 | 1.27 | 3.99% |
| Partners Group MCA | 2004 | 800,000,000 | 824,561,666 | -24,561,666 | 622,755,316 | 579,309,357 | 1.46 | 8.55% |
| Pathway Private Equity Fund VII, L.P. | 2004 | 904,500,000 | 855,742,267 | 48,757,733 | 1,293,496,414 | 362,304,253 | 1.93 | 11.85% |
| 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 | 38,379,402 | 2,240,442 | 1.64 | 11.45% |
| 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 | 33,762,215 | 1,426,241 | 1.43 | 6.91% |
| 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 | 33,987,556 | 3.78 | 13.48% |
| Tennenbaum Opportunities Fund V, L.P. | 2007 | 10,000,000 | 10,000,000 | 0 | 12,100,359 | 2,294,359 | 1.44 | 5.23% |
| Apollo Investment Fund VII, L.P. | 2008 | 10,000,000 | 8,789,116 | 1,210,884 | 16,721,096 | 769,612 | 1.99 | 22.66% |
| 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 | 295,603 | 2.89 | 29.32% |
| Lexington Middle Market II - Offshore | 2008 | 10,000,000 | 9,773,736 | 226,264 | 14,427,815 | 2,950,466 | 1.77 | 14.51% |
| 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 | 14,197,418 | 1,828,991 | 1.65 | 10.75% |
| TCW/Crescent Mezzanine V, L.P. | 2008 | 20,000,000 | 19,949,723 | 50,277 | 25,841,574 | 1,577,420 | 1.38 | 9.81% |
| Apollo European Principal Finance Fund (Feeder), L | 2009 | 53,001,432 | 46,434,825 | 6,566,607 | 69,228,391 | 242,960 | 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 | 31,184,994 | 29,327,588 | 1,857,406 | 32,715,826 | 10,460,587 | 1.46 | 8.59% |
| Industry Ventures Fund VI | 2011 | 20,000,000 | 18,400,000 | 1,600,000 | 22,213,502 | 3,085,635 | 1.37 | 8.22% |
| Lexington Capital Partners VII (Offshore) | 2011 | 25,000,000 | 20,409,757 | 4,590,243 | 28,310,808 | 5,451,298 | 1.65 | 14.89% |
| Tennenbaum Opportunities Fund VI, L.P. | 2011 | 20,000,000 | 9,501,887 | 10,498,113 | 11,776,939 | 7,074,029 | 1.98 | 8.58% |
| Aurora Equity Partners IV, L.P. | 2012 | 20,000,000 | 17,262,661 | 2,737,339 | 36,905,236 | 4,209,265 | 2.07 | 18.67% |
| 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 | 30,080,554 | 68,442,325 | 4.19 | 25.57% |
| Tennenbaum Waterman Fund, LP | 2012 | 70,000,000 | 70,000,000 | 0 | 59,103,234 | 70,022,595 | 1.84 | 11.53% |
| Industry Ventures Partnership Holdings Fund III, L.P. | 2013 | 25,000,000 | 23,277,042 | 1,722,958 | 25,977,663 | 52,932,557 | 3.39 | 28.34% |
| Industry Ventures Secondary VII, L.P. | 2013 | 25,000,000 | 22,975,000 | 2,025,000 | 27,881,523 | 18,280,618 | 2.01 | 18.48% |



Note: All metrics are calculated since inception
 * Denotes cash adjusted

PRIVATE EQUITY PERFORMANCE

AS OF MARCH 31, 2021

| 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 | 11,087,500 | 1,412,500 | 6,369,499 | 6,719,770 | 1.18 | 4.13% |
| Pathway SBCERA MCA | 2014 | 250,000,000 | 214,752,565 | 35,247,435 | 34,549,500 | 482,181,144 | 2.41 | 25.40% |
| SL Capital SOF I LP | 2014 | 25,000,000 | 21,296,677 | 3,703,323 | 22,321,189 | 7,885,846 | 1.42 | 11.28% |
| 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 | 4,788,063 | 50,394,757 | 1.16 | 3.86% |
| Tennenbaum Special Situations Fund IX | 2015 | 50,000,000 | 36,349,480 | 13,650,520 | 16,441,949 | 45,695,540 | 1.71 | 15.24% |
| Industry Ventures Direct, LP | 2016 | 25,000,000 | 22,095,425 | 2,904,575 | 1,917,517 | 41,839,891 | 1.98 | 28.58% |
| Industry Ventures Partnership Holdings IV, LP | 2016 | 25,000,000 | 19,975,000 | 5,025,000 | 1,419,332 | 35,561,560 | 1.85 | 25.64% |
| Industry Ventures Special Opportunities II-A | 2016 | 12,500,000 | 1,618,222 | 10,881,778 | 1,045,940 | 3,913,604 | 3.06 | 65.36% |
| TCP Direct Lending Fund VIII-L, LLC | 2016 | 40,000,000 | 35,477,991 | 4,522,009 | 9,419,726 | 33,311,761 | 1.20 | 7.41% |
| Tennenbaum Energy Opportunities Fund, LP | 2016 | 20,000,000 | 9,670,678 | 10,329,322 | 6,284,429 | 7,561,736 | 1.43 | 9.40% |
| 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 | 22,125,000 | 2,875,000 | 9,475,389 | 44,615,675 | 2.44 | 65.36% |
| Kayne Anderson Energy Fund VII, L.P. | 2017 | 10,000,000 | 8,614,431 | 1,385,569 | 215,495 | 3,433,341 | 0.42 | -23.77% |
| Kayne Partners Fund IV (QP), LP | 2017 | 20,000,000 | 16,388,054 | 3,611,946 | 0 | 24,426,118 | 1.48 | 19.02% |
| Kayne SBCERA MLP | 2017 | 130,000,000 | 126,225,037 | 3,774,963 | 6,880,108 | 110,588,140 | 0.93 | -2.26% |
| SL Capital SOF III LP | 2017 | 25,000,000 | 16,322,191 | 8,677,809 | 3,376,275 | 22,752,472 | 1.60 | 25.57% |
| Crestline Portfolio Financing Fund | 2018 | 50,000,000 | 36,161,186 | 13,838,814 | 3,209,411 | 40,564,022 | 1.21 | 11.89% |
| Industry Ventures Partnership Holdings V, LP | 2018 | 25,000,000 | 14,750,000 | 10,250,000 | 283,205 | 22,608,046 | 1.55 | 53.42% |
| Industry Ventures Tech Buyout LP | 2018 | 50,000,000 | 9,361,745 | 40,638,255 | 0 | 15,050,061 | 1.61 | 36.32% |
| Kayne Anderson Private Energy Income Fund II, L.P. | 2018 | 20,000,000 | 3,880,000 | 16,120,000 | 1,825,911 | 6,161,168 | 2.06 | 42.87% |
| Kayne Flywheel Co-investment LLC | 2018 | 8,000,000 | 6,400,000 | 1,600,000 | 3,227,873 | 11,976,934 | 2.38 | 50.86% |
| Kayne SBCERA (D.I.) | 2018 | 45,000,000 | 40,660,422 | 4,339,578 | 43,395,618 | 7,968,851 | 1.26 | 24.63% |
| Kayne Solutions Fund LP | 2018 | 20,000,000 | 8,808,998 | 11,191,002 | 10,220,390 | 4,662,907 | 1.69 | 39.86% |
| Industry Ventures Direct II, LP | 2019 | 50,000,000 | 23,954,121 | 26,045,879 | 0 | 29,563,049 | 1.23 | 44.90% |
| Kayne Renewable Opportunities Partners (TE), LP | 2019 | 100,000,000 | 12,138,899 | 87,861,101 | 3,860,092 | 13,830,080 | 1.46 | 21.14% |
| Waterfall Sentinel Co-Investments | 2019 | 30,000,000 | 23,484,161 | 6,515,840 | 0 | 34,084,403 | 1.44 | 25.09% |
| Waterfall Sentinel Fund | 2019 | 30,000,000 | 17,744,263 | 12,255,737 | 757,172 | 22,592,098 | 1.32 | 16.06% |
| Adams Street SBCERA | 2020 | 50,000,000 | 26,421,446 | 23,578,554 | 0 | 39,316,110 | 1.49 | 101.18% |
| Kayne Anderson FRG | 2020 | 30,000,000 | 30,000,000 | 0 | 40,363,248 | -4,755,542 | 1.19 | 17.06% |
| Kayne CLO Partners II, LP | 2020 | 50,000,000 | 36,713,375 | 13,286,625 | 16,935,789 | 24,269,185 | 1.13 | 20.18% |
| Total: San Bernardino | | 3,914,885,864 | 3,412,954,168 | 478,296,188 | 3,250,158,768 | 2,421,649,307 | 1.66 | 9.01% |



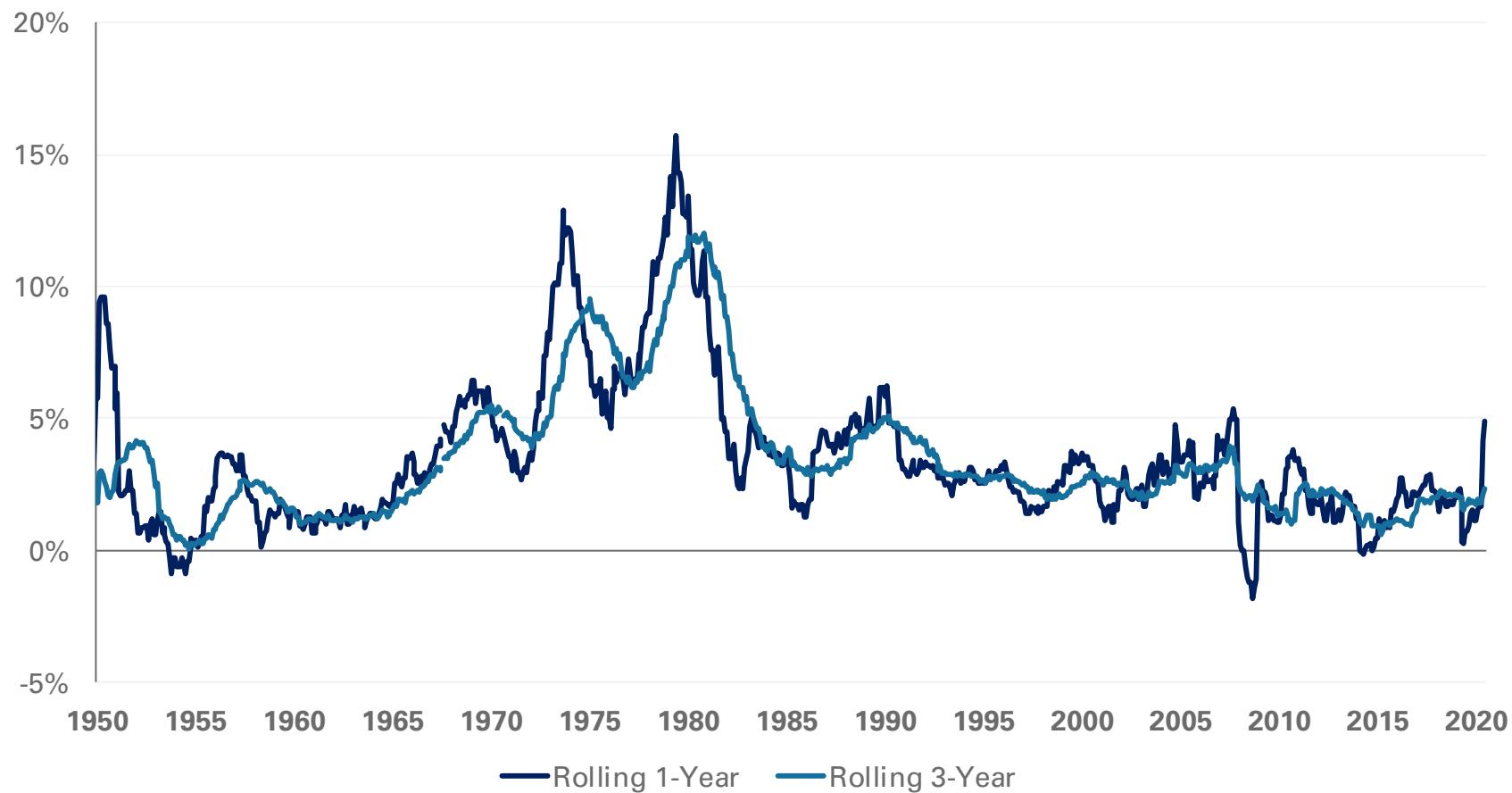
Note: All metrics are calculated since inception
 * Denotes cash adjusted



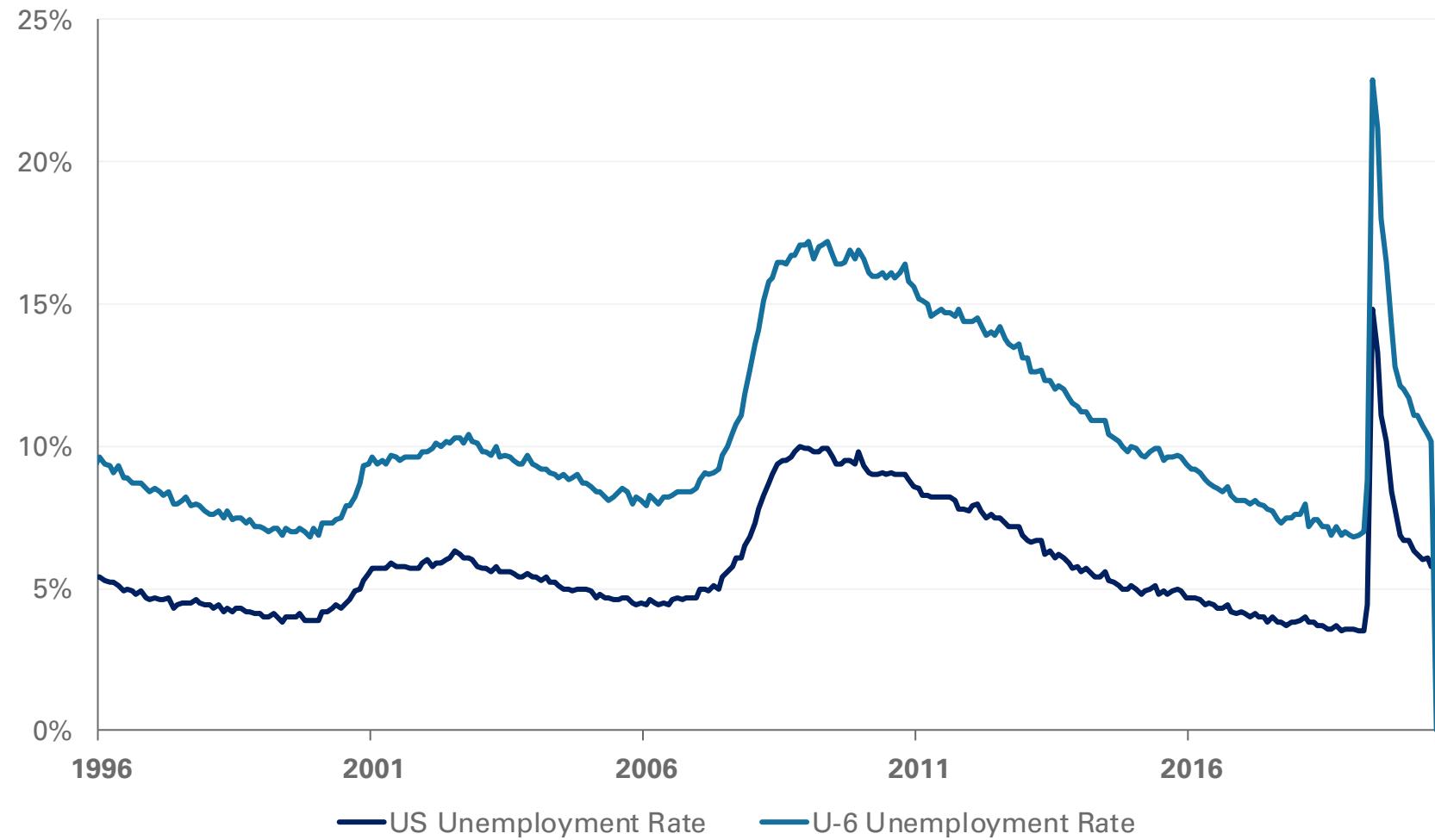
APPENDIX: MACRO MARKET ENVIRONMENT

INFLATION

U.S. CONSUMER PRICE INDEX

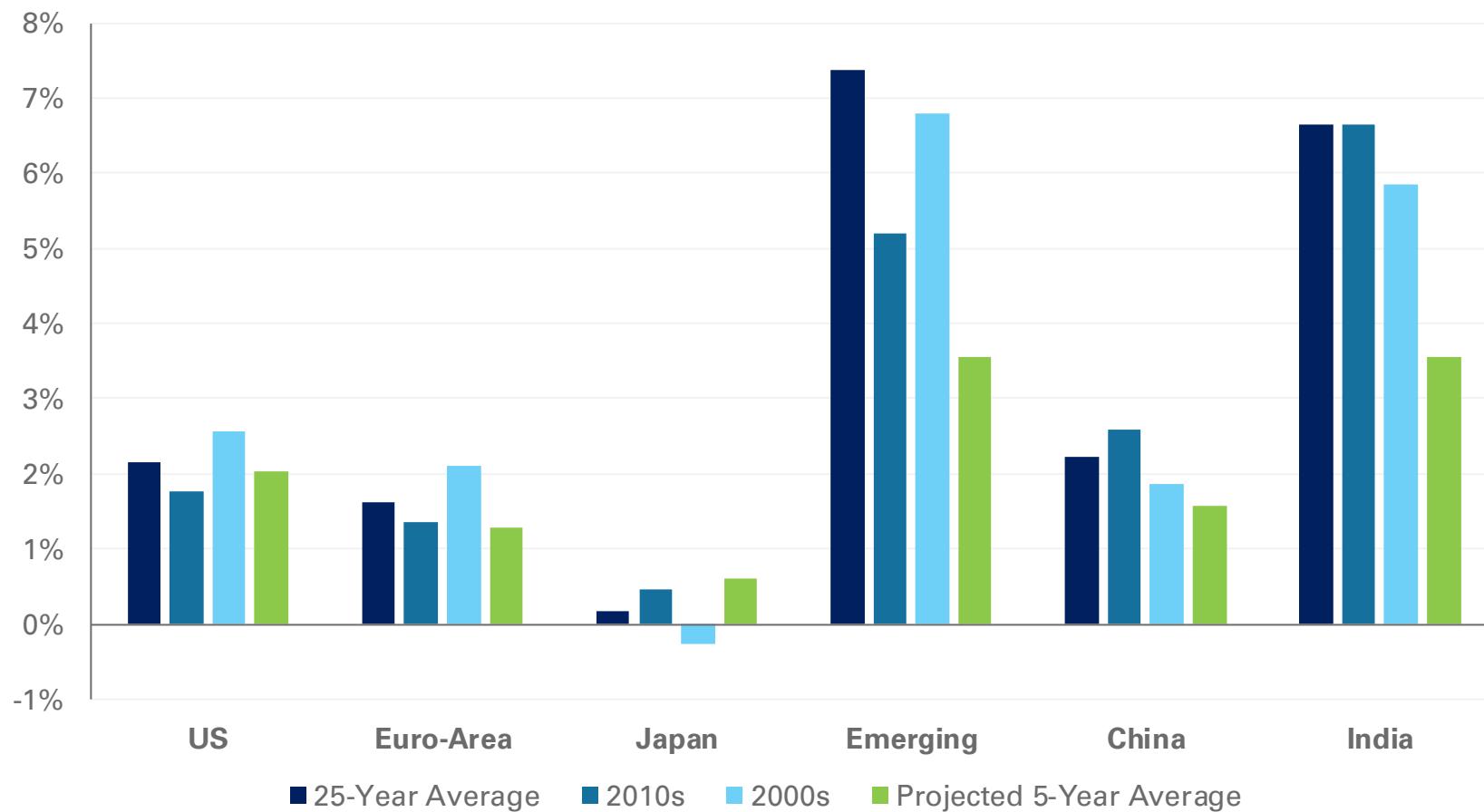


U.S. UNEMPLOYMENT RATES

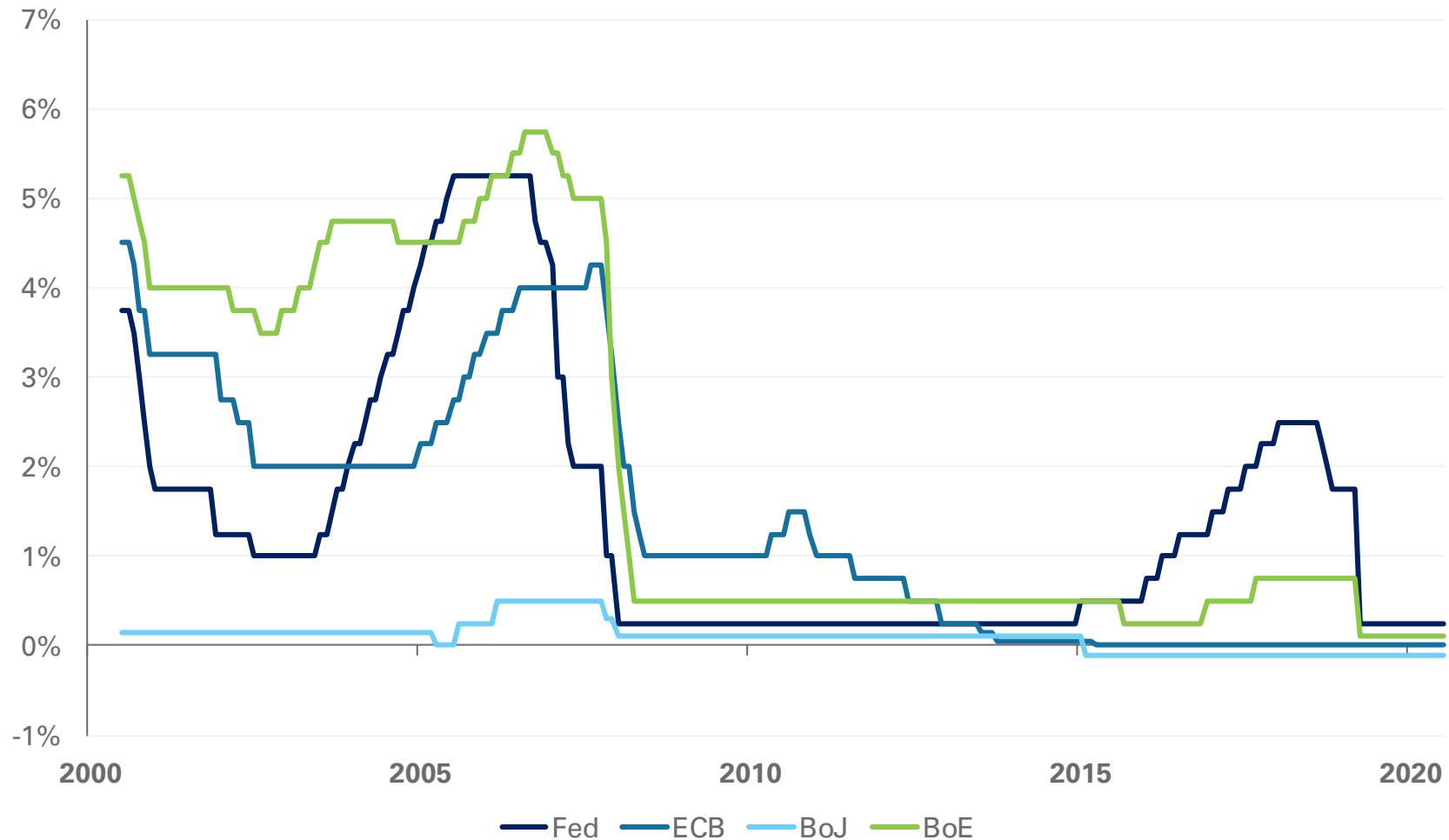


HISTORICAL INFLATION

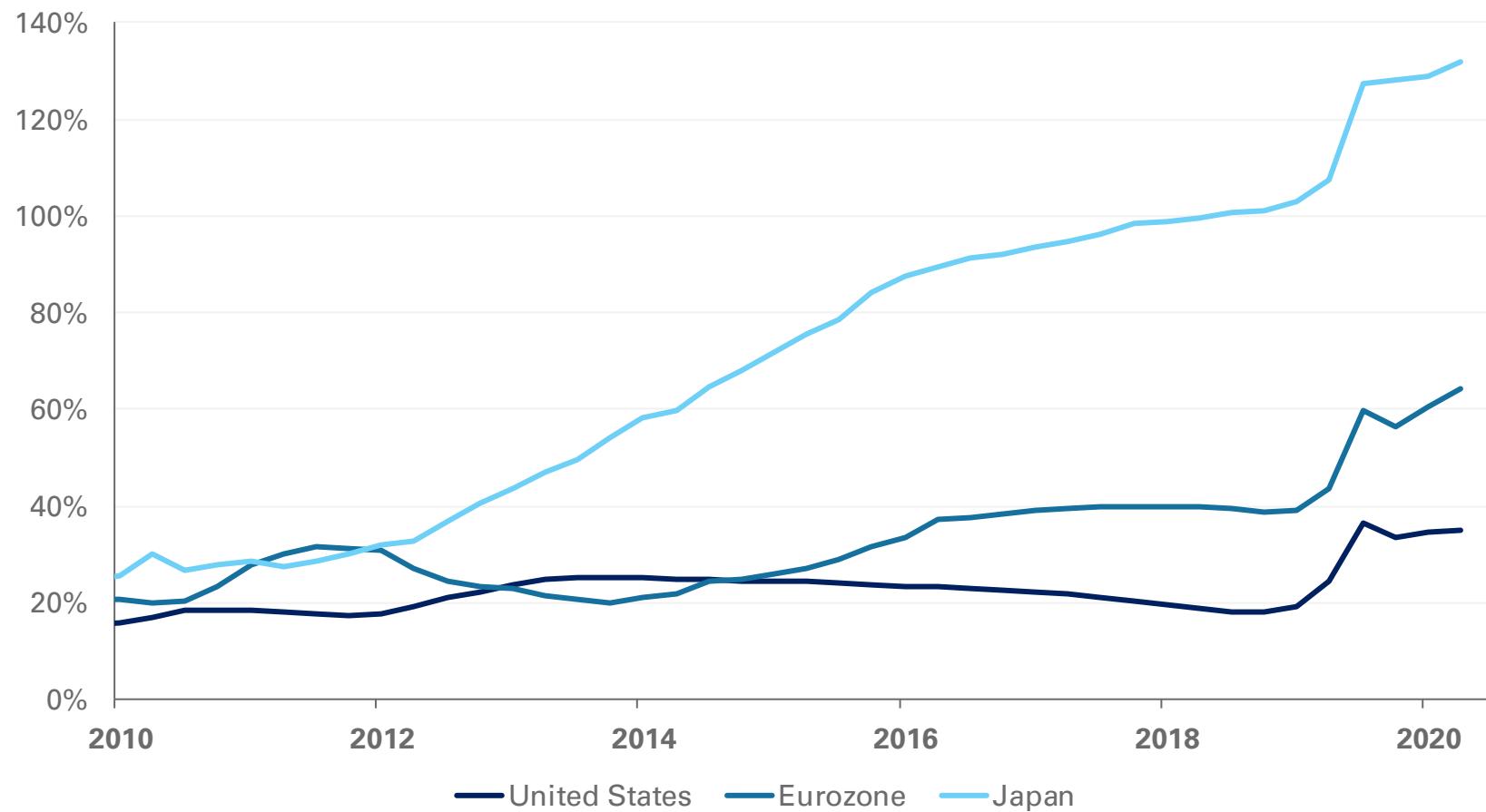
IMF PROJECTIONS



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 | 1.19 | -3.0% | -3.1% | 5.6% |
| British Pound | 1.38 | -2.8% | 1.1% | 11.8% |
| Japanese Yen | 110.99 | -1.4% | -7.0% | -2.8% |
| Swiss Franc | 0.92 | -2.7% | -4.4% | 2.5% |
| Australian Dollar | 0.75 | -3.0% | -2.7% | 9.0% |
| New Zealand Dollar | 1.43 | -4.0% | -3.0% | 8.5% |
| Canadian Dollar | 1.24 | -2.4% | 2.9% | 10.0% |
| Chinese Yuan | 6.46 | -1.6% | 1.2% | 9.5% |
| Taiwanese Dollar | 27.86 | -0.9% | 0.8% | 5.9% |
| Korean Won | 1126 | -1.3% | -3.5% | 6.8% |
| Vietnmaese Dong | 23016 | 0.1% | 0.3% | 0.8% |
| Thai Baht | 32.05 | -2.5% | -6.5% | -3.6% |
| Philippines Peso | 48.82 | -2.3% | -1.6% | 2.1% |
| Indian Rupee | 74.33 | -2.3% | -1.7% | 1.6% |
| Russian Ruble | 73.05 | 0.4% | 1.2% | -2.5% |
| Mexican Peso | 19.91 | 0.0% | 0.1% | 16.1% |
| Brazilian Real | 5.02 | 4.6% | 3.5% | 9.4% |
| Chilean Peso | 0.02 | -0.1% | 0.0% | 17.0% |
| Argentine Peso | 95.73 | -1.1% | -12.2% | -26.4% |
| South African Rand | 14.28 | -3.9% | 2.9% | 21.7% |



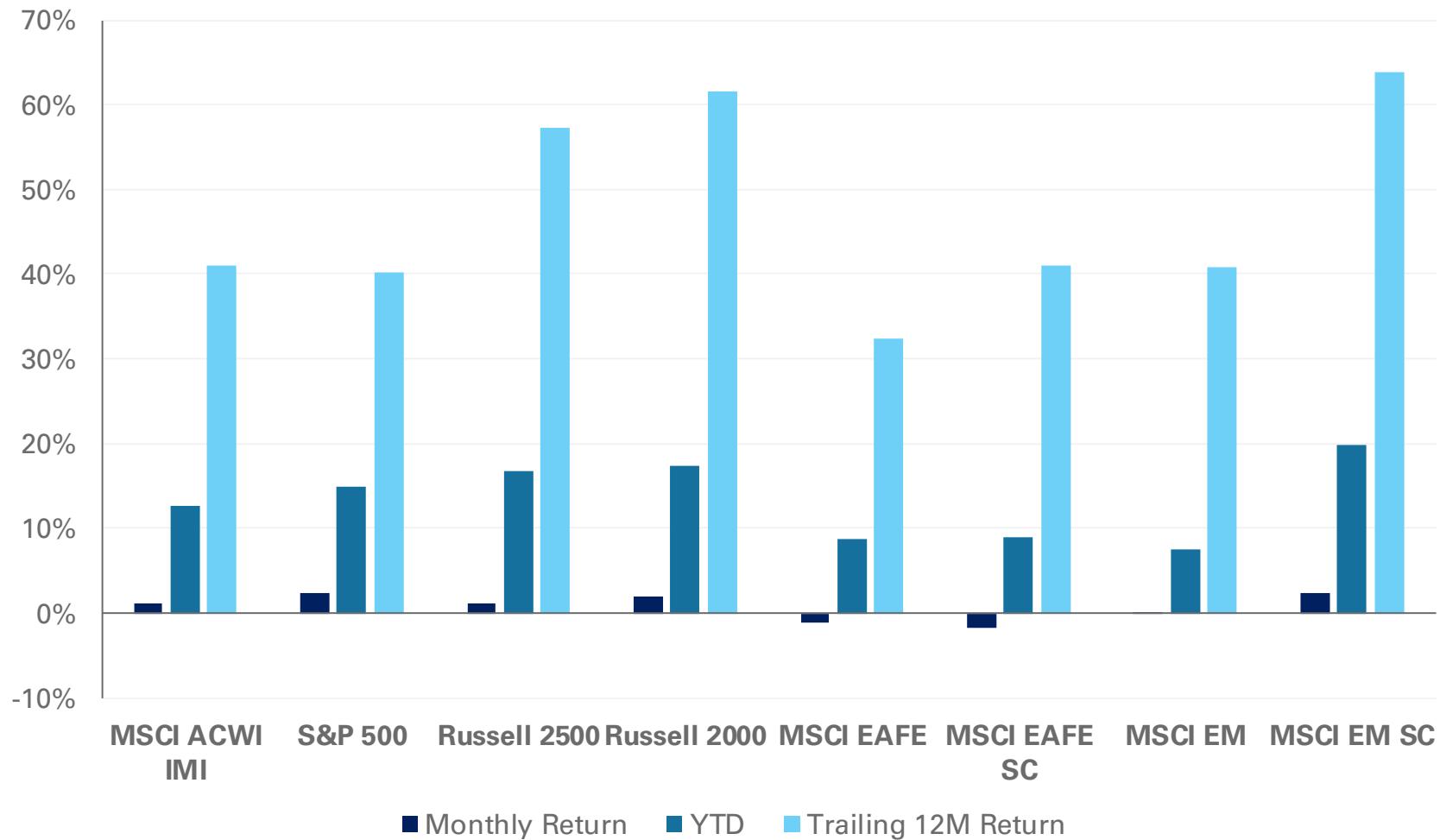
Exhibit A: Page 54



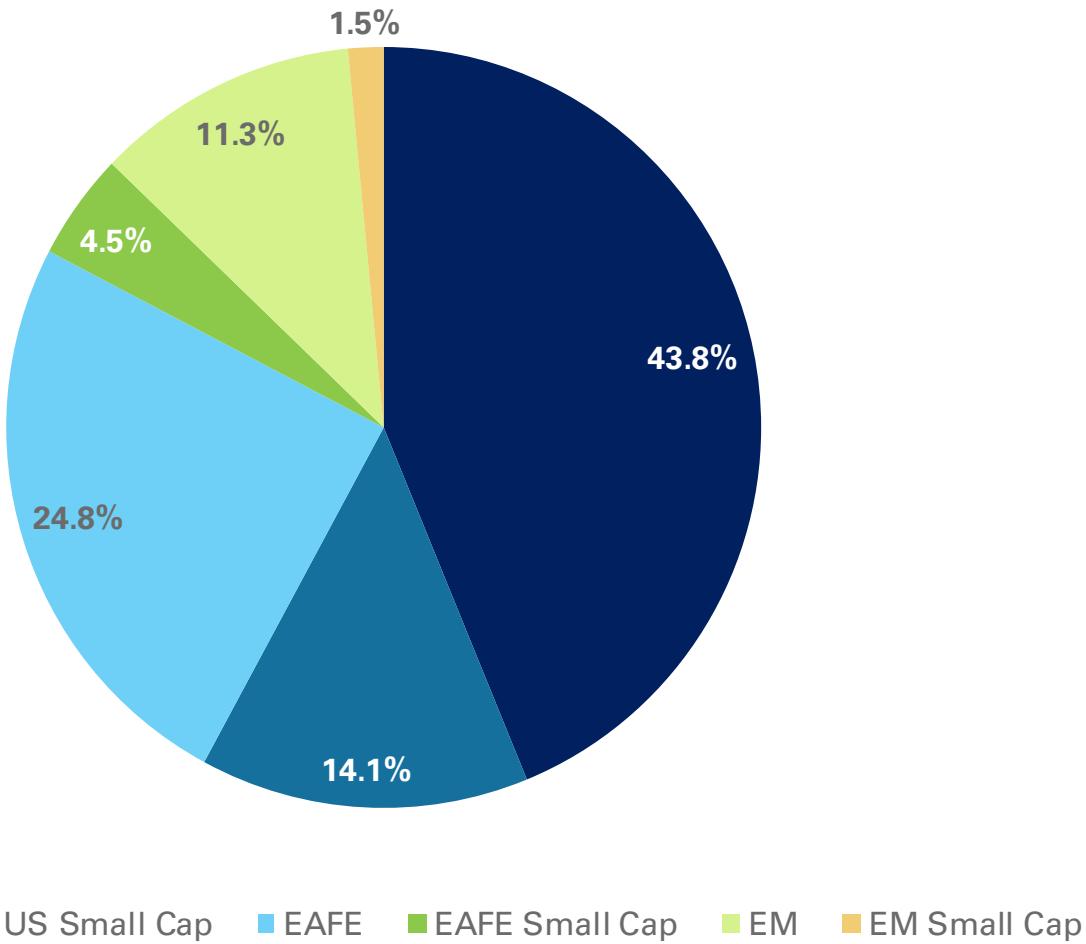
EQUITY



EQUITY INDEX PERFORMANCE

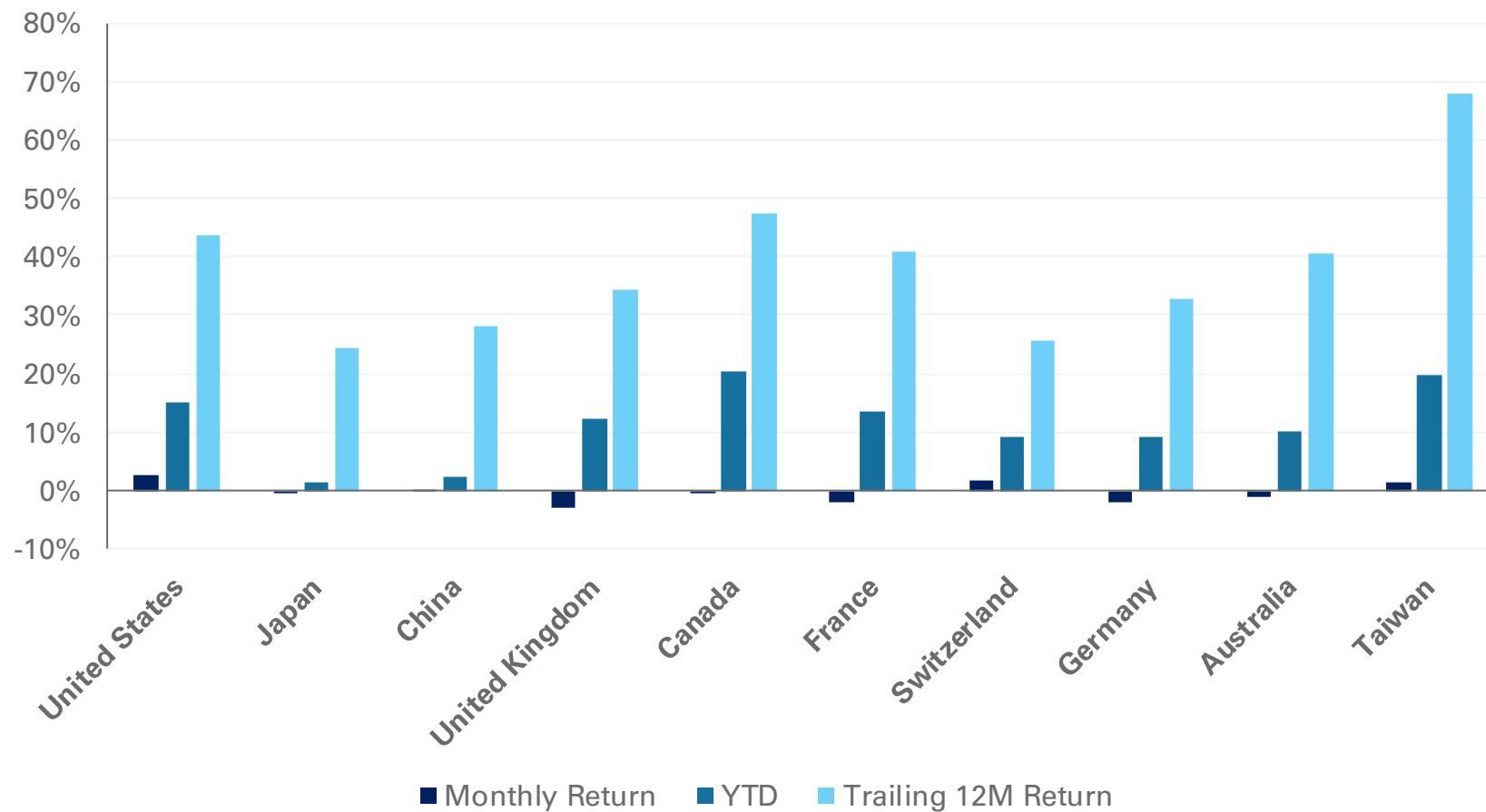


MSCI ACWI IMI WEIGHTS

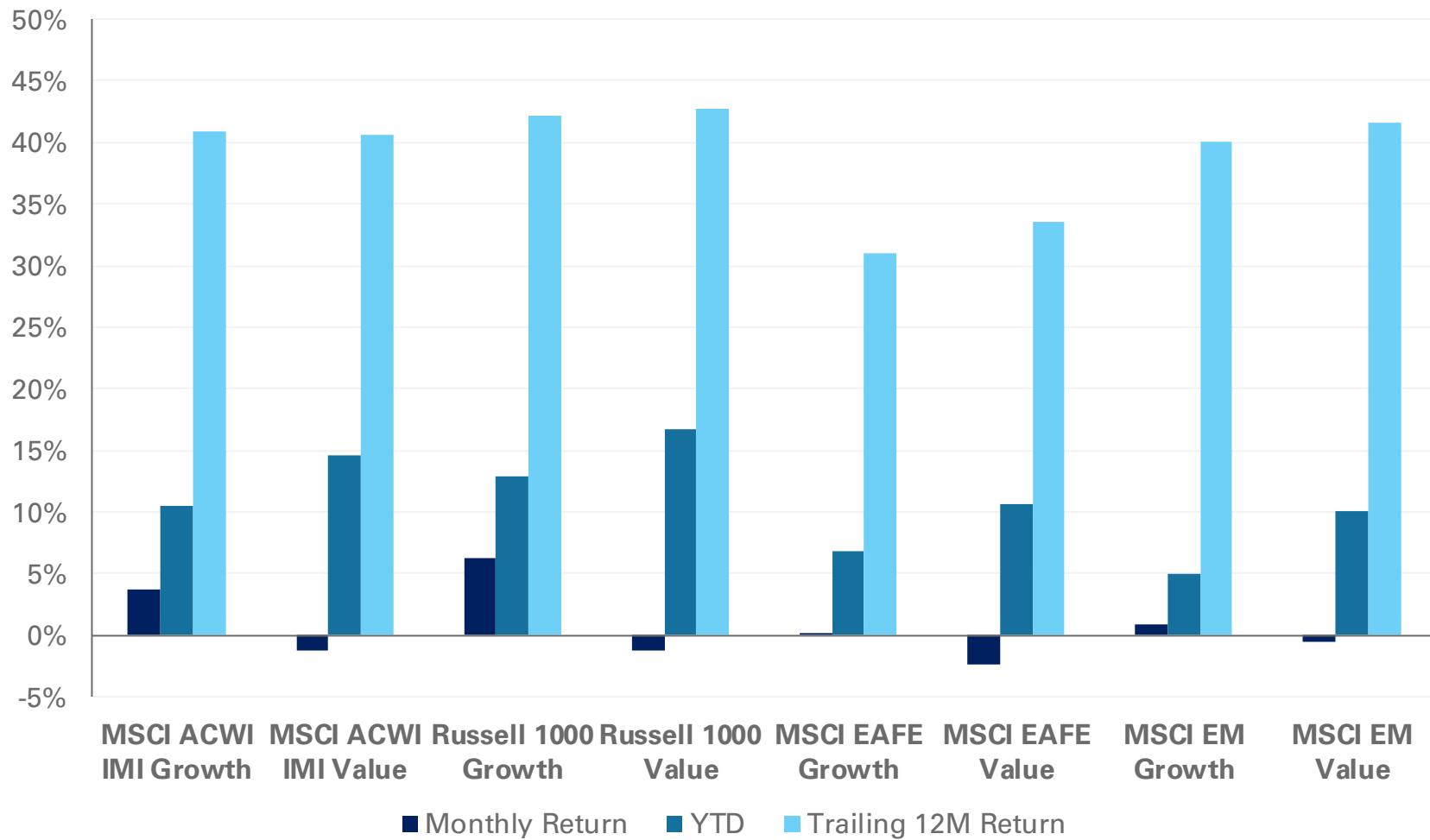


EQUITY INDEX PERFORMANCE

TOP 10 COUNTRIES BY MARKET CAP IN MSCI ACWI IMI INDEX



STYLE INDEX PERFORMANCE



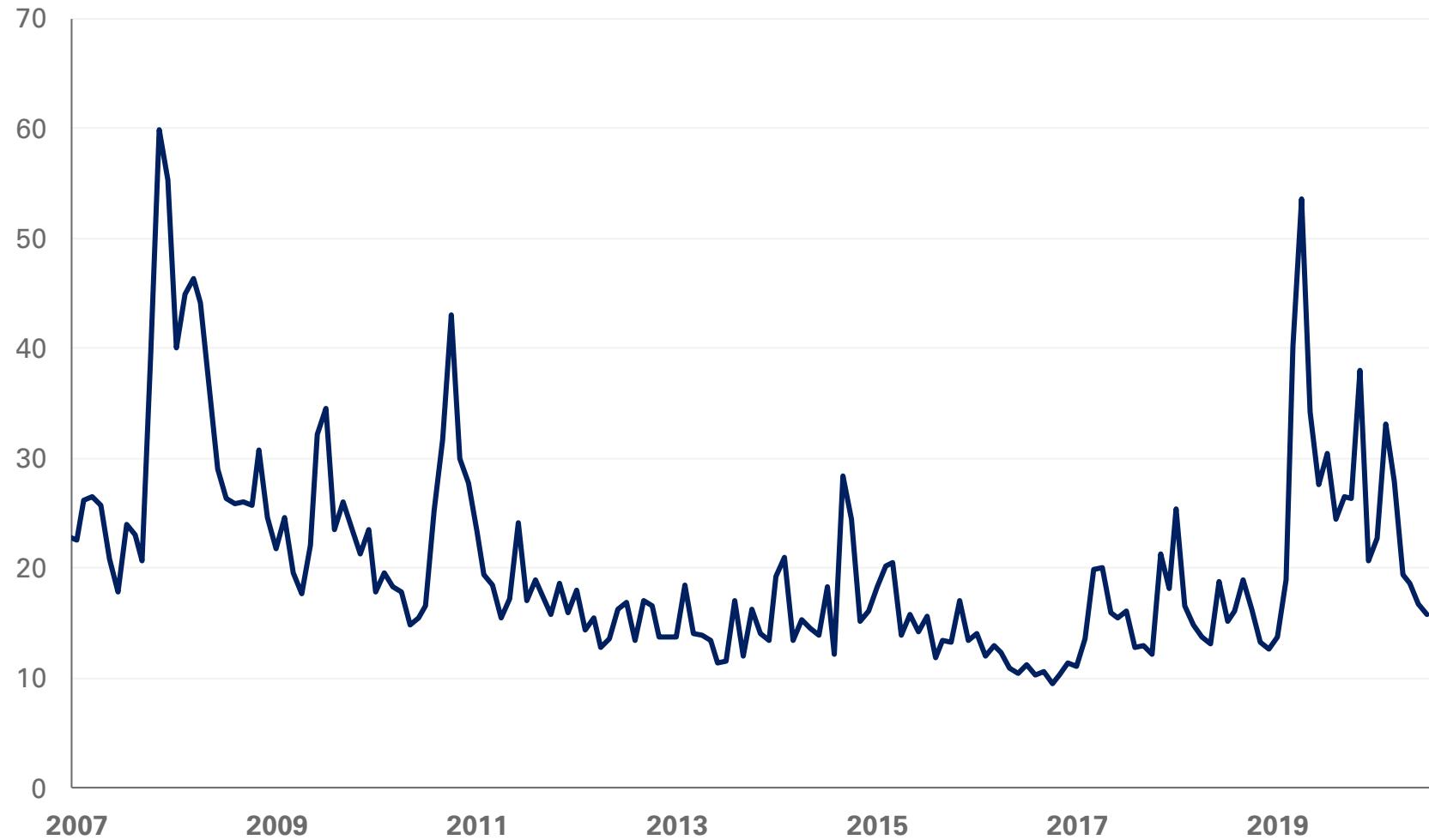
SECTOR INDEX PERFORMANCE

| | Monthly Return | YTD | Trailing 12M Return | Index Weight |
|------------------------|-----------------------|--------------|----------------------------|---------------------|
| MSCI ACWI IMI | 1.2% | 12.7% | 12.7% | 100.0% |
| Communication Services | 2.0% | 15.2% | 15.2% | 8.6% |
| Consumer Discretionary | 2.2% | 10.0% | 10.0% | 12.9% |
| Consumer Staples | -0.5% | 5.2% | 5.2% | 6.6% |
| Energy | 3.6% | 30.5% | 30.5% | 3.4% |
| Financials | -3.3% | 18.5% | 18.5% | 13.9% |
| Health Care | 3.1% | 9.2% | 9.2% | 11.6% |
| Industrials | -1.1% | 13.6% | 13.6% | 10.9% |
| Information Technology | 5.9% | 12.4% | 12.4% | 20.8% |
| Materials | -3.7% | 13.3% | 13.3% | 5.3% |
| Real Estate | 0.9% | 14.3% | 14.3% | 3.5% |
| Utilities | -2.5% | 0.9% | 0.9% | 2.6% |

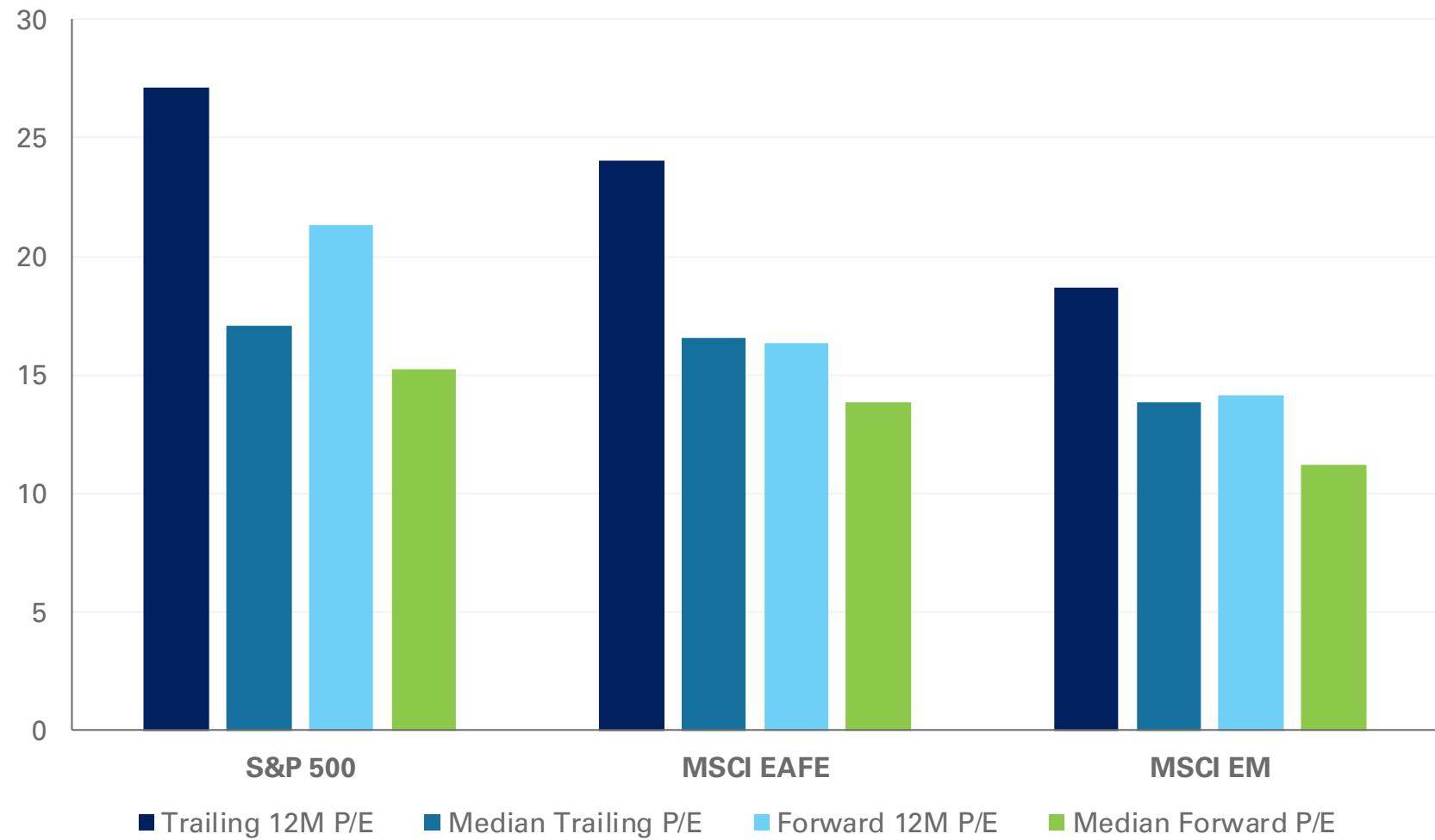
| | Monthly Return | YTD | Trailing 12M Return | Index Weight |
|------------------------|-----------------------|--------------|----------------------------|---------------------|
| S&P 500 | 2.3% | 15.0% | 15.0% | 100.0% |
| Communication Services | 2.7% | 19.5% | 19.5% | 11.1% |
| Consumer Discretionary | 3.8% | 10.2% | 10.2% | 12.3% |
| Consumer Staples | -0.3% | 4.6% | 4.6% | 5.9% |
| Energy | 4.6% | 44.7% | 44.7% | 2.9% |
| Financials | -3.0% | 25.3% | 25.3% | 11.3% |
| Health Care | 2.3% | 11.6% | 11.6% | 13.0% |
| Industrials | -2.2% | 16.1% | 16.1% | 8.5% |
| Information Technology | 6.9% | 13.6% | 13.6% | 27.4% |
| Materials | -5.4% | 14.2% | 14.2% | 2.6% |
| Real Estate | 3.1% | 22.8% | 22.8% | 2.6% |
| Utilities | -2.2% | 1.9% | 1.9% | 2.5% |



EQUITY VOLATILITY INDEX (VIX)



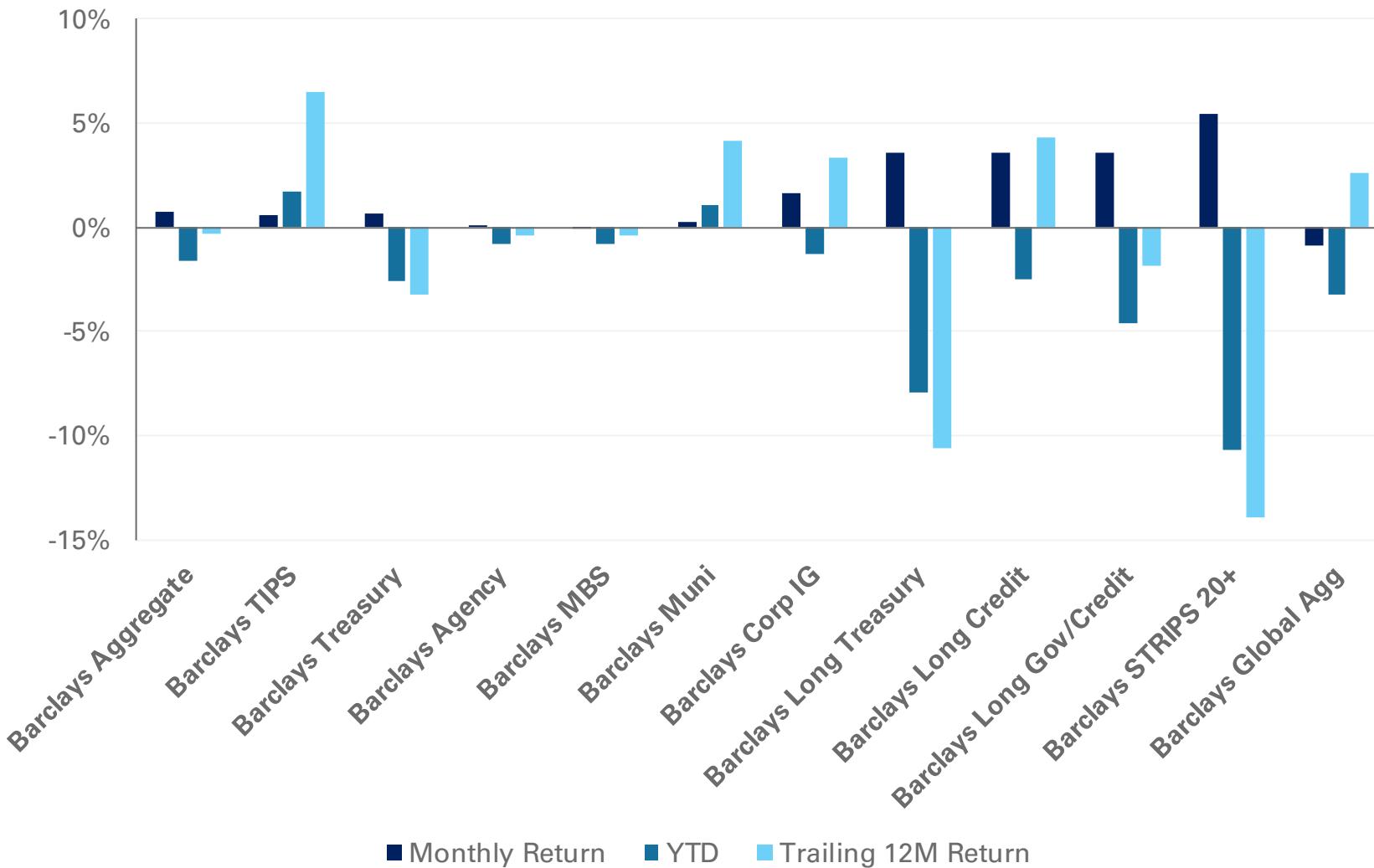
GLOBAL EQUITY VALUATIONS





**SAFE-HAVEN
FIXED INCOME**

SAFE-HAVEN FIXED INCOME PERFORMANCE

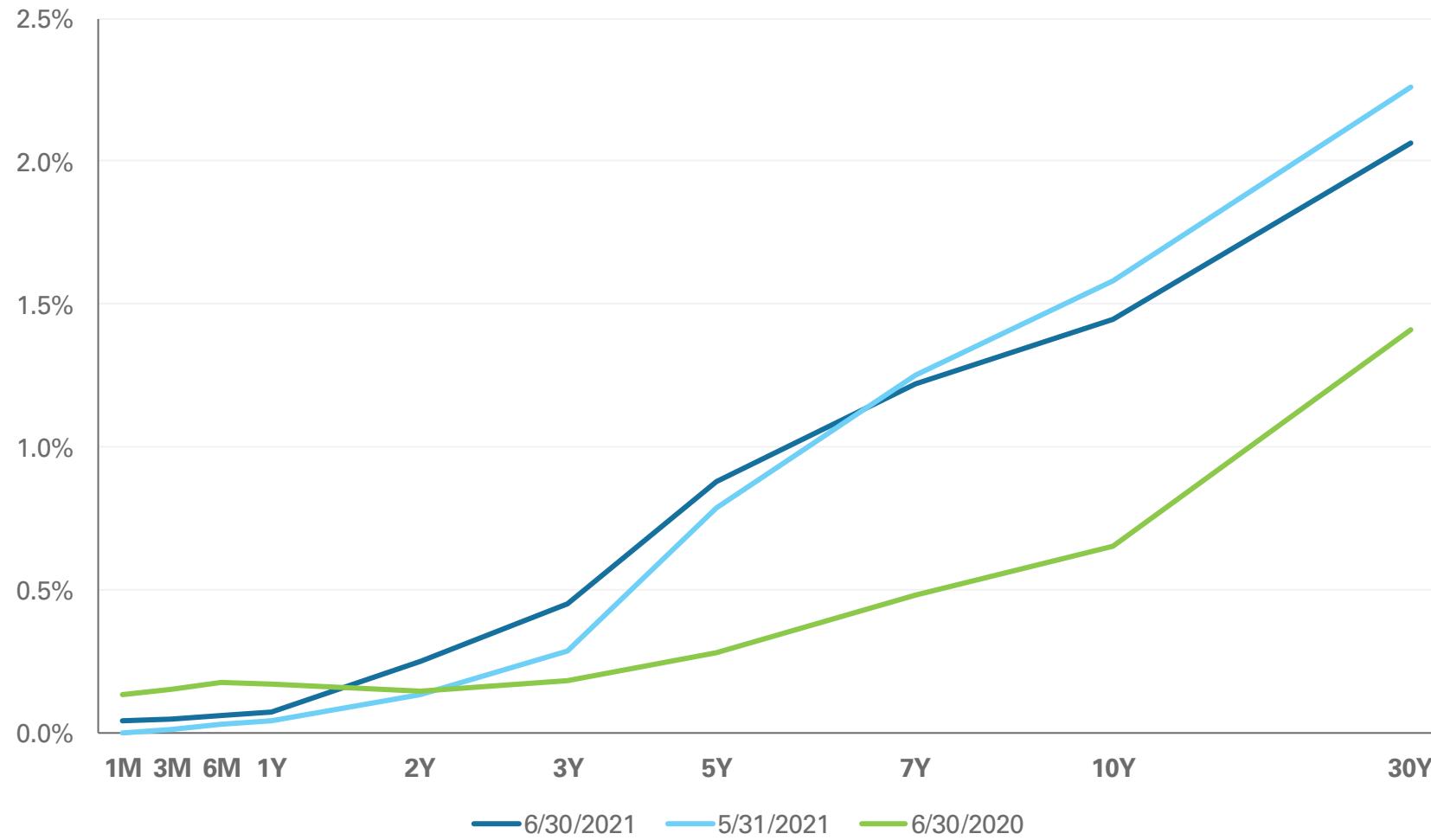


FIXED INCOME CHARACTERISTICS

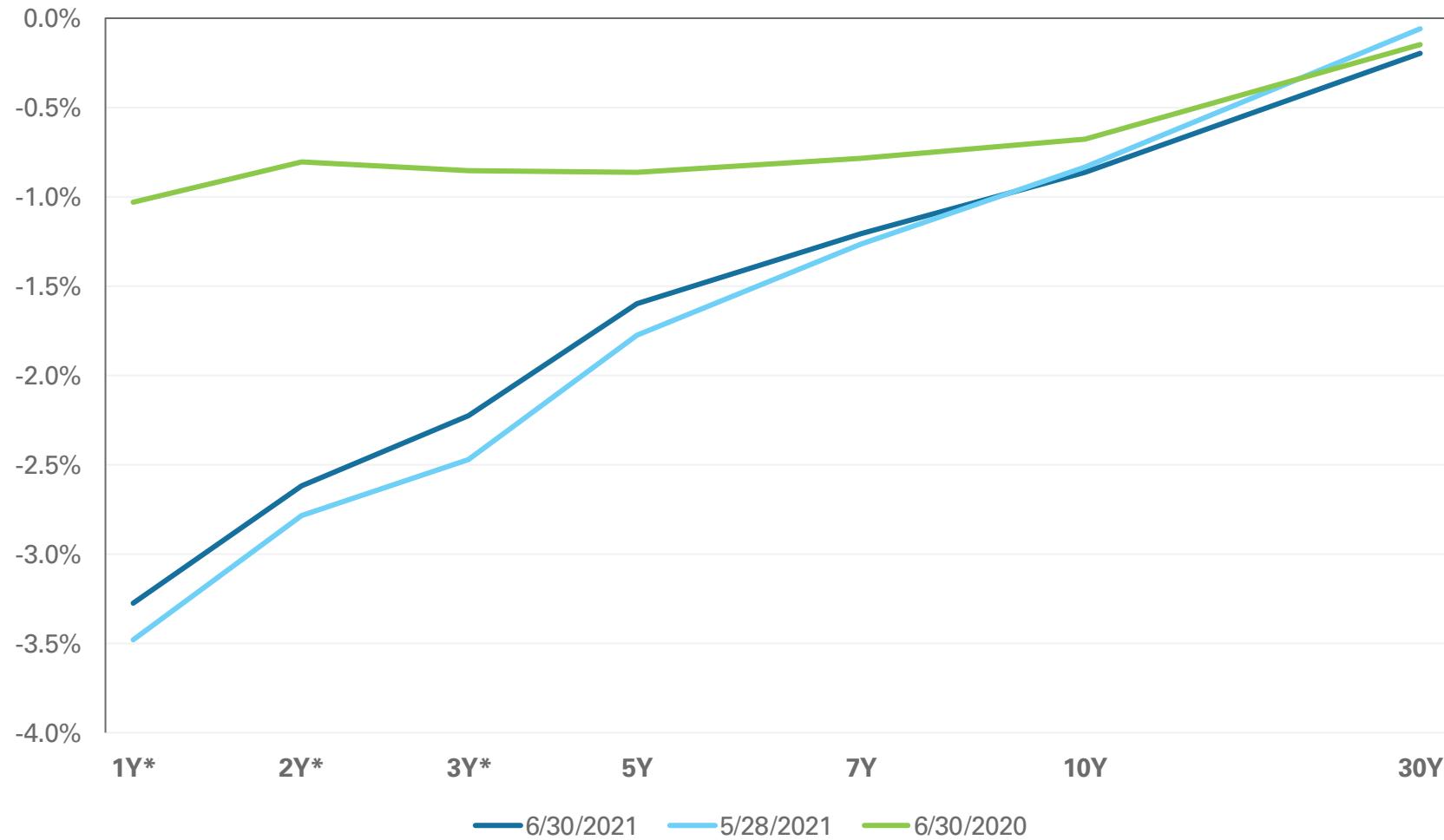
| | Yield to Worst | Spread (bps) | Duration (Years) |
|---------------------------------|----------------|--------------|------------------|
| Barclays Aggregate | 1.50% | 32 | 6.6 |
| Barclays TIPS | 1.07% | - | 6.6 |
| Barclays Treasury | 0.95% | - | 7.0 |
| Barclays Agency | 0.78% | 3 | 3.9 |
| Barclays MBS | 1.77% | 27 | 4.2 |
| Barclays Muni | 1.02% | - | 5.1 |
| Barclays Corp IG | 2.04% | 80 | 8.7 |
| Barclays Long Treasury | 2.03% | - | 18.8 |
| Barclays Long Credit | 3.08% | 118 | 15.2 |
| Barclays Long Gov/Credit | 2.66% | 71 | 16.6 |
| Barclays STRIPS 20+ | 2.14% | - | 26.9 |
| Barclays Global Agg | 1.12% | 33 | 7.5 |



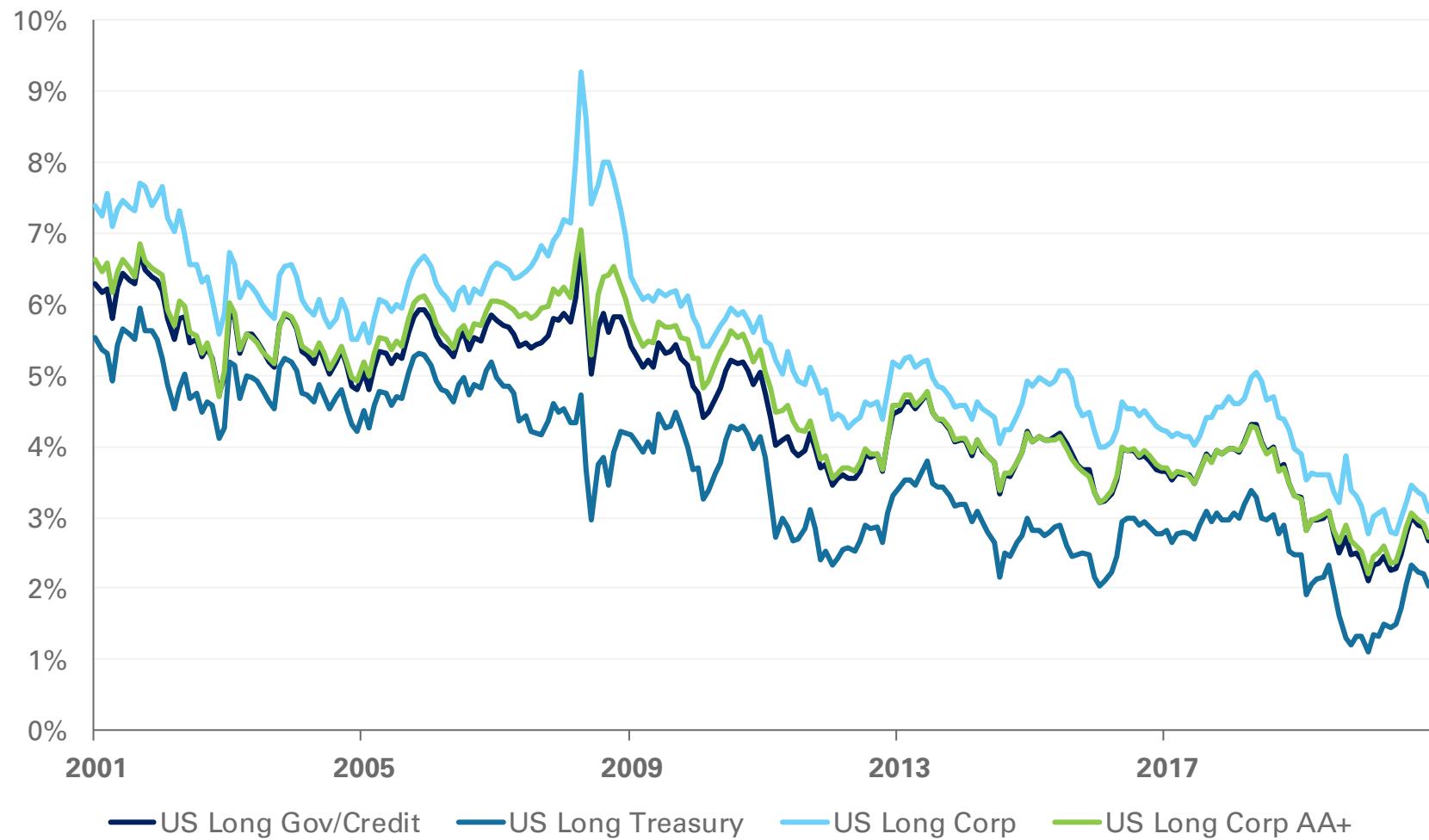
US TREASURY YIELD CURVE



US TREASURY REAL YIELD CURVE



LONG DURATION YIELDS



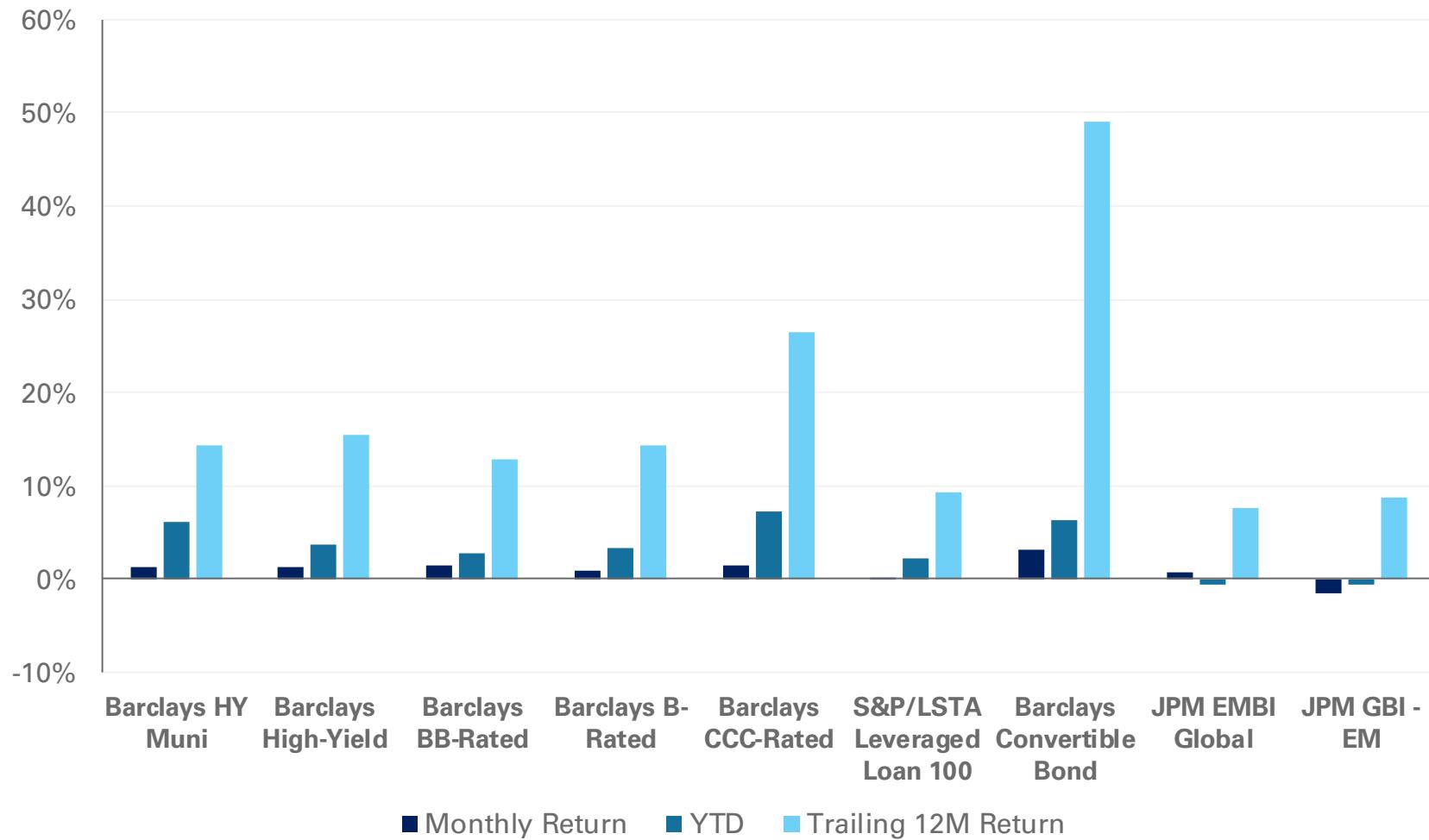
LONG DURATION CORPORATE SPREADS





**RETURN-SEEKING
CREDIT**

RETURN-SEEKING CREDIT INDEX PERFORMANCE

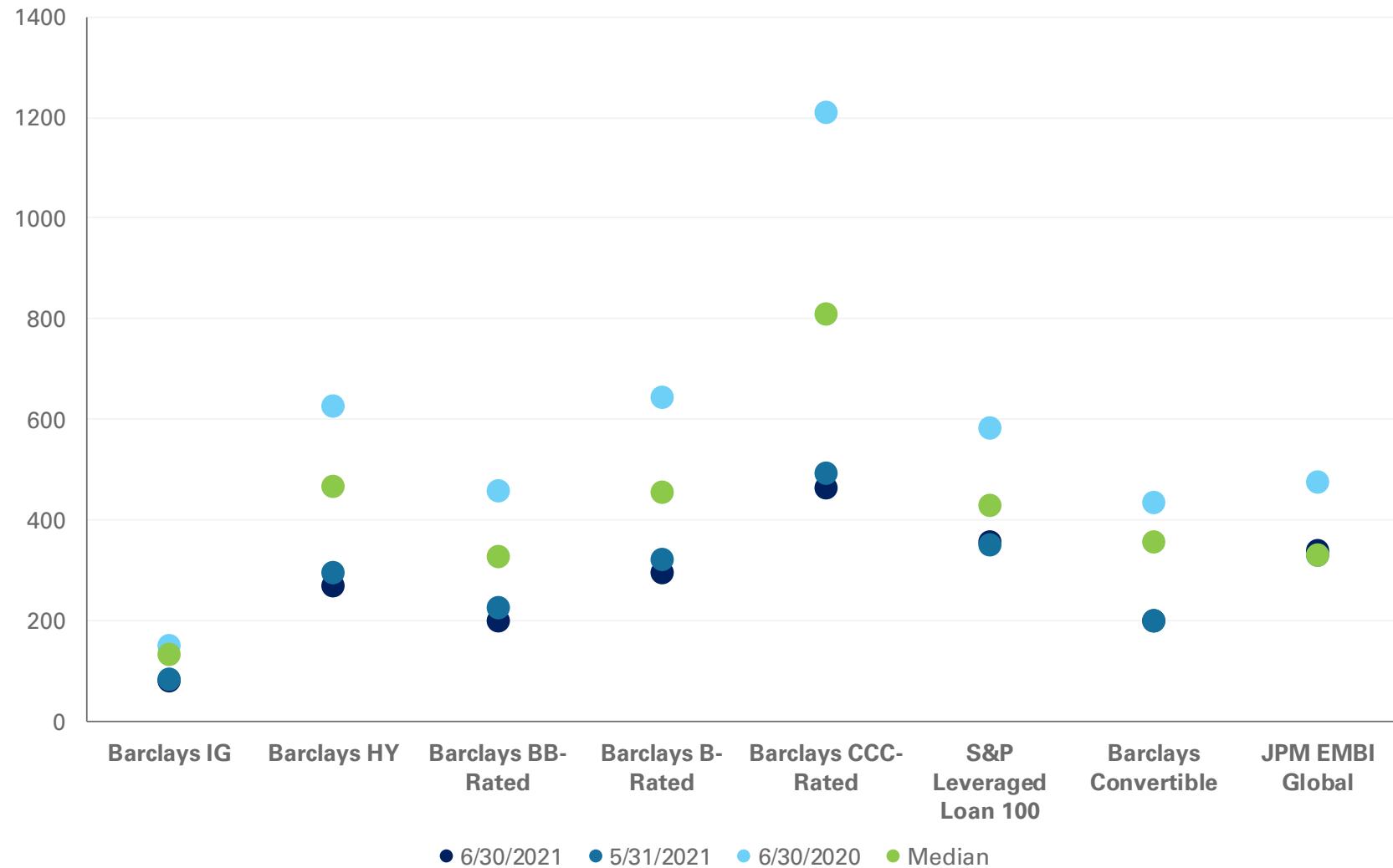


RETURN-SEEKING CREDIT CHARACTERISTICS

| | Yield to Worst | Spread (bps) | Duration (Years) |
|----------------------------------------|----------------|--------------|------------------|
| Barclays HY Muni | 3.09% | - | 5.9 |
| Barclays High-Yield | 3.75% | 268 | 3.8 |
| Barclays BB-Rated | 3.04% | 200 | 4.7 |
| Barclays B-Rated | 4.06% | 294 | 3.0 |
| Barclays CCC-Rated | 5.65% | 462 | 2.5 |
| S&P/LSTA Leveraged Loan 100 | 3.70% | 355 | - |
| Barclays Convertible Bond | 1.16% | 198 | 1.7 |
| JPM EMBI Global | 4.91% | 339 | 7.8 |
| JPM GBI - EM | 4.68% | - | 5.4 |



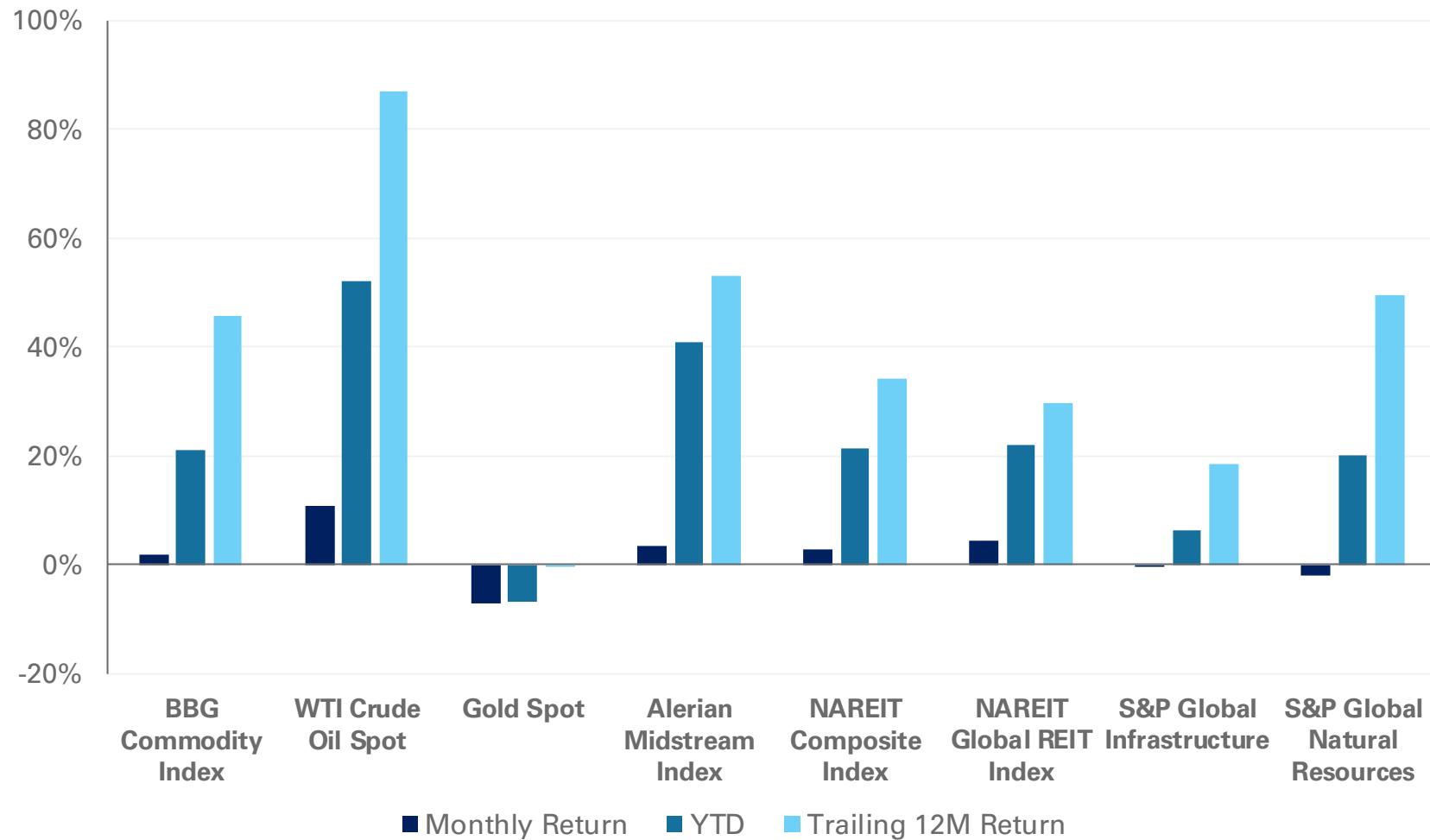
CREDIT SPREADS





REAL ASSETS

REAL ASSETS INDEX PERFORMANCE



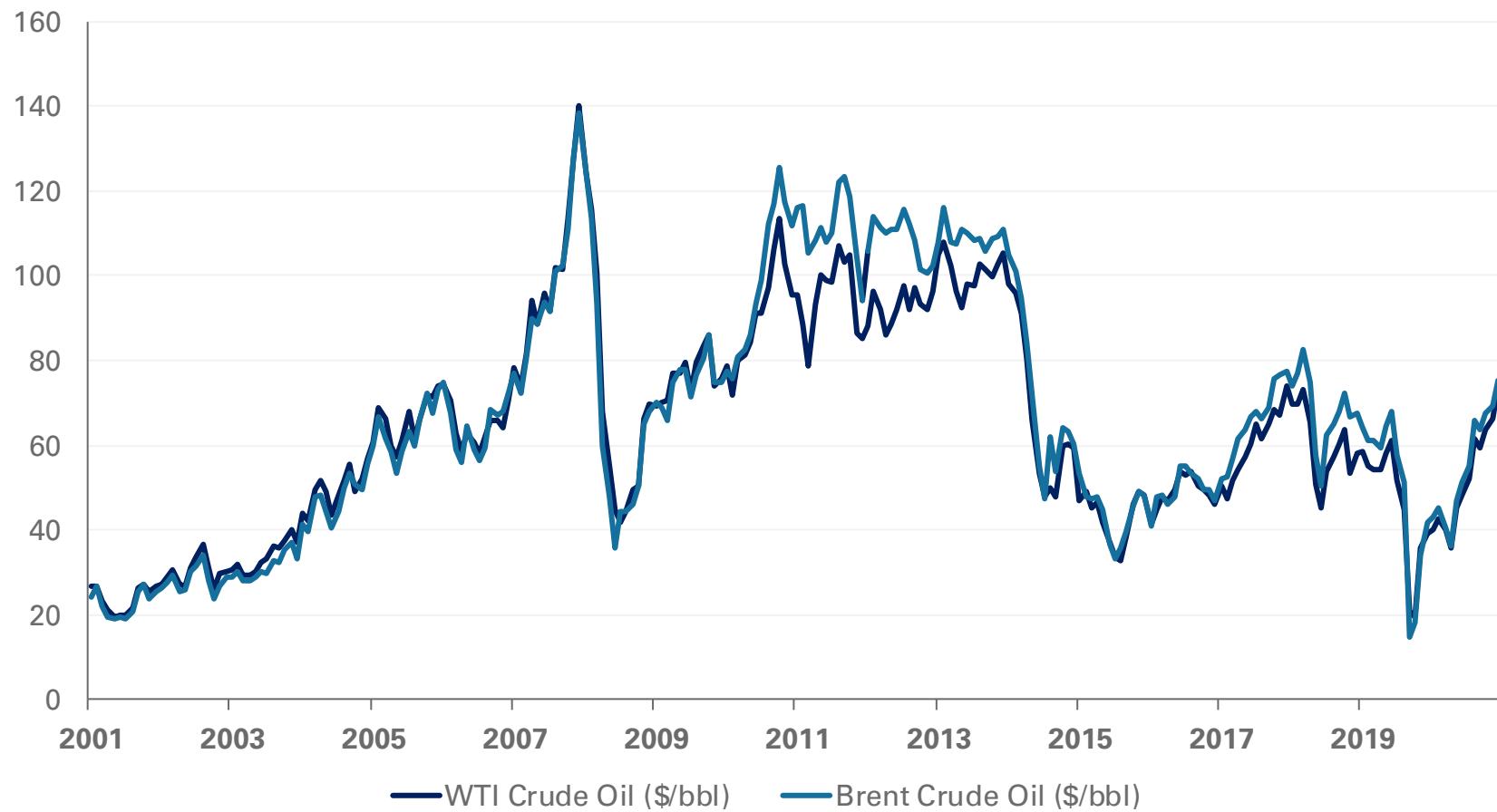
REAL ASSETS INDEX PERFORMANCE

| Index | 1 Month | 3 Month | YTD | 1 Year | 3 Year | 5 Year |
|----------------------------------------|--------------|--------------|--------------|--------------|---------------|--------------|
| Bloomberg Commodity Index | 1.9% | 13.3% | 21.1% | 45.4% | 3.9% | 2.4% |
| Bloomberg Sub Agriculture Index | -0.2% | 12.8% | 20.4% | 63.3% | 10.5% | 0.4% |
| Coffee | -2.9% | 25.8% | 19.2% | 44.5% | 0.6% | -7.6% |
| Corn | -0.5% | 18.8% | 38.9% | 85.0% | 13.6% | 2.6% |
| Cotton | 2.4% | 2.3% | 4.3% | 30.2% | -3.0% | 4.1% |
| Soybean | -2.2% | 4.6% | 14.8% | 69.4% | 14.5% | 0.9% |
| Soybean Oil | 2.2% | 31.8% | 67.0% | 145.9% | 29.2% | 13.2% |
| Sugar | 2.6% | 20.6% | 20.4% | 47.4% | 8.0% | -6.9% |
| Wheat | 1.5% | 8.5% | 4.0% | 31.2% | 6.3% | -1.0% |
| Bloomberg Sub Energy | 11.4% | 23.2% | 44.6% | 53.9% | -10.4% | -3.8% |
| Brent Crude | 9.2% | 20.7% | 48.8% | 77.0% | -1.5% | 7.1% |
| Heating Oil | 4.3% | 19.7% | 43.7% | 66.7% | -5.4% | 2.9% |
| Natural Gas | 21.1% | 30.3% | 34.2% | 25.2% | -20.4% | -19.6% |
| Unleaded Gas | 4.9% | 14.9% | 48.1% | 88.8% | -0.8% | 5.0% |
| WTI Crude Oil | 10.9% | 24.4% | 52.4% | 81.1% | -13.3% | -3.0% |
| Bloomberg Sub Industrial Metals | -3.2% | 9.4% | 17.6% | 49.1% | 7.5% | 11.0% |
| Aluminum | 1.7% | 13.5% | 25.6% | 50.6% | 2.9% | 6.8% |
| Copper | -8.4% | 7.0% | 21.5% | 55.0% | 12.4% | 13.1% |
| Nickel | 0.5% | 13.2% | 9.2% | 40.6% | 6.5% | 13.2% |
| Zinc | -2.9% | 5.0% | 6.9% | 41.5% | 4.1% | 9.1% |
| Bloomberg Sub Precious Metals | -6.9% | 3.9% | -5.7% | 4.1% | 11.6% | 4.8% |
| Gold | -7.0% | 3.2% | -7.0% | -3.9% | 10.6% | 4.7% |
| Silver | -6.6% | 6.5% | -1.2% | 38.0% | 15.2% | 5.3% |
| Bloomberg Sub Livestock | -2.8% | -1.5% | 8.8% | 26.8% | -6.7% | -4.9% |
| Lean Hogs | -11.3% | 0.2% | 27.8% | 81.3% | -11.8% | -10.4% |
| Live Cattle | 3.5% | -2.8% | -0.6% | 6.1% | -4.0% | -1.6% |



OIL MARKETS

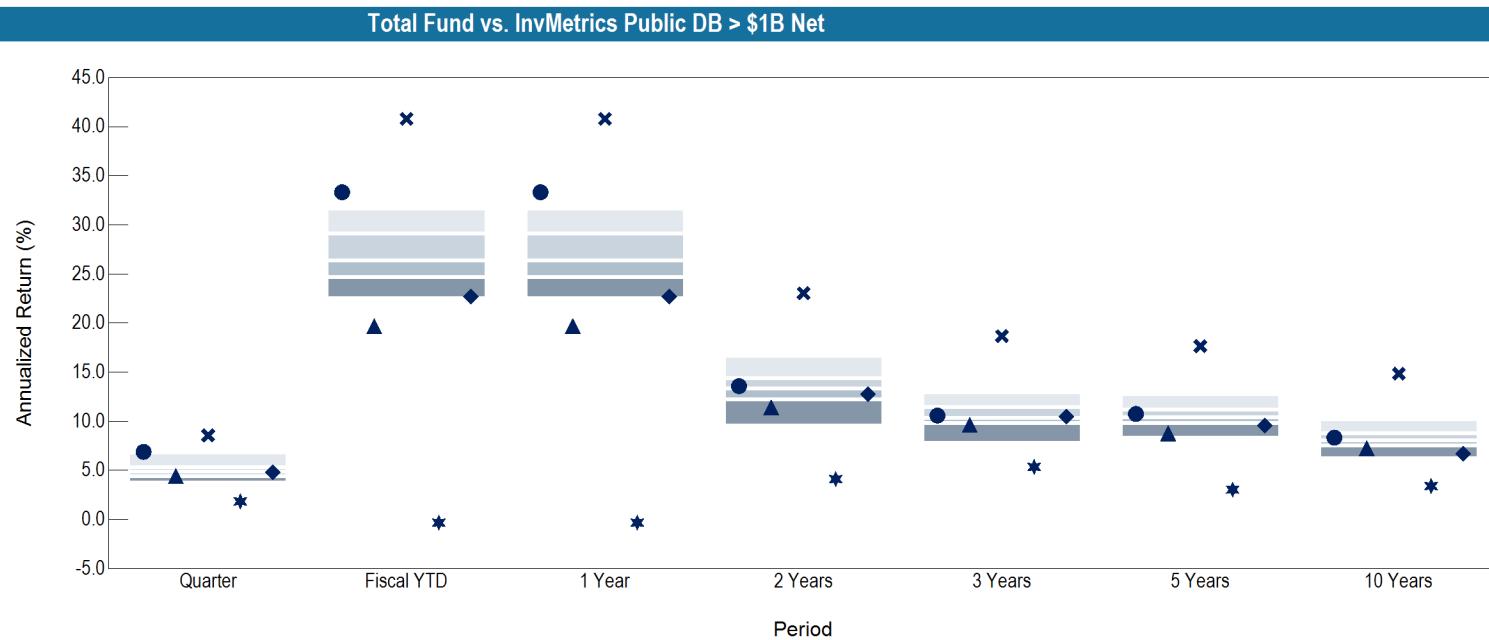
WTI VERSUS BRENT CRUDE SPOT PRICES



GOLD SPOT PRICE



SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RETURN SUMMARY VS. PEER UNIVERSE

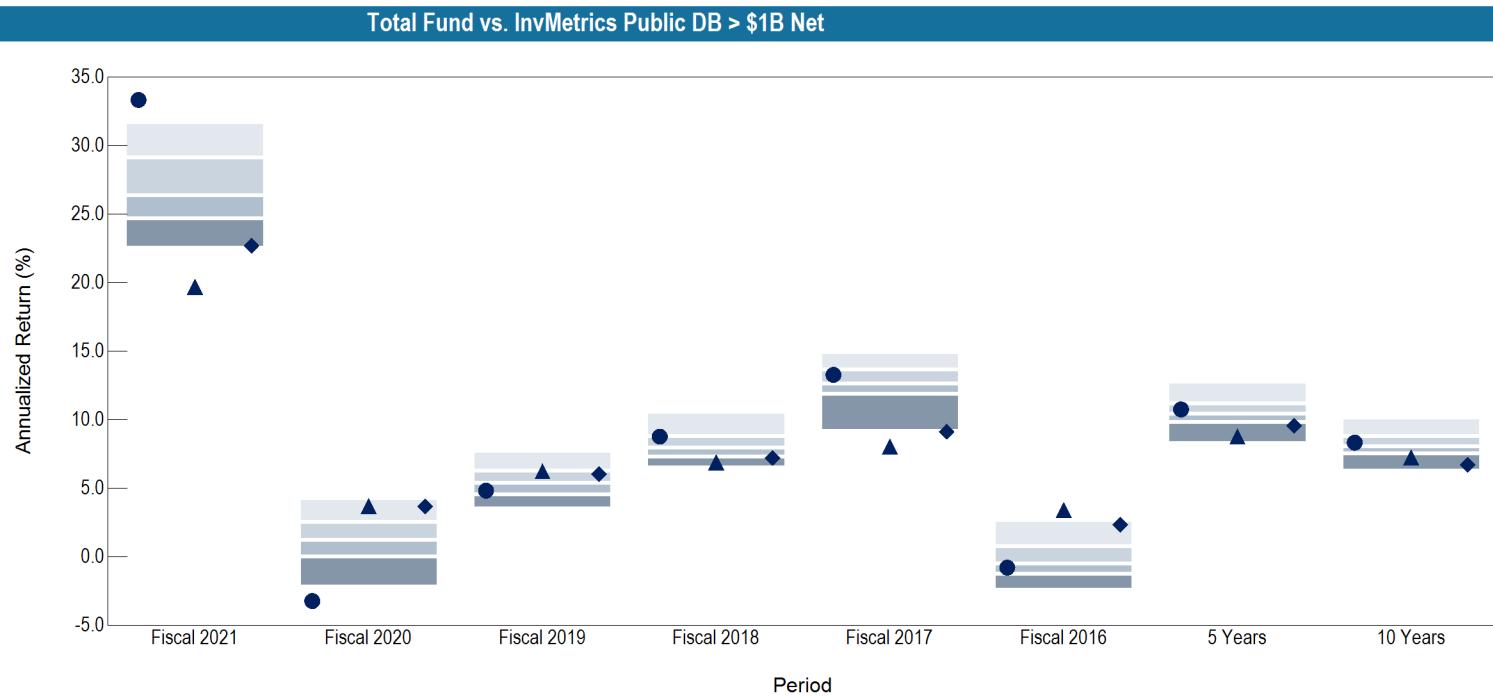


| | Return (Rank) | | | | | | | | | |
|---------------------------------------|---------------|-----------|-----------|-----------|-----------|-----------|----------|--|--|--|
| 5th Percentile | 6.8 | 31.7 | 31.7 | 16.6 | 12.9 | 12.7 | 10.1 | | | |
| 25th Percentile | 5.3 | 29.1 | 29.1 | 14.4 | 11.4 | 11.2 | 8.8 | | | |
| Median | 4.9 | 26.4 | 26.4 | 13.4 | 10.4 | 10.5 | 8.1 | | | |
| 75th Percentile | 4.5 | 24.7 | 24.7 | 12.2 | 9.9 | 9.8 | 7.6 | | | |
| 95th Percentile | 3.8 | 22.5 | 22.5 | 9.6 | 7.8 | 8.3 | 6.3 | | | |
| # of Portfolios | 35 | 35 | 35 | 35 | 35 | 35 | 33 | | | |
| ● Total Fund | 6.9 (4) | 33.3 (1) | 33.3 (1) | 13.6 (46) | 10.6 (49) | 10.7 (40) | 8.3 (47) | | | |
| ▲ Policy Index | 4.4 (77) | 19.7 (99) | 19.7 (99) | 11.4 (87) | 9.6 (84) | 8.8 (93) | 7.2 (81) | | | |
| ✖ S&P 500 | 8.5 (1) | 40.8 (1) | 40.8 (1) | 23.0 (1) | 18.7 (1) | 17.6 (1) | 14.8 (1) | | | |
| * BBgBarc US Aggregate TR | 1.8 (99) | -0.3 (99) | -0.3 (99) | 4.1 (99) | 5.3 (99) | 3.0 (99) | 3.4 (99) | | | |
| ◆ 60% MSCI ACWI (Net) / 40% FTSE WGBI | 4.8 (59) | 22.7 (95) | 22.7 (95) | 12.8 (67) | 10.5 (50) | 9.5 (83) | 6.7 (90) | | | |



Exhibit A: Page 79

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND RETURN SUMMARY VS. PEER UNIVERSE



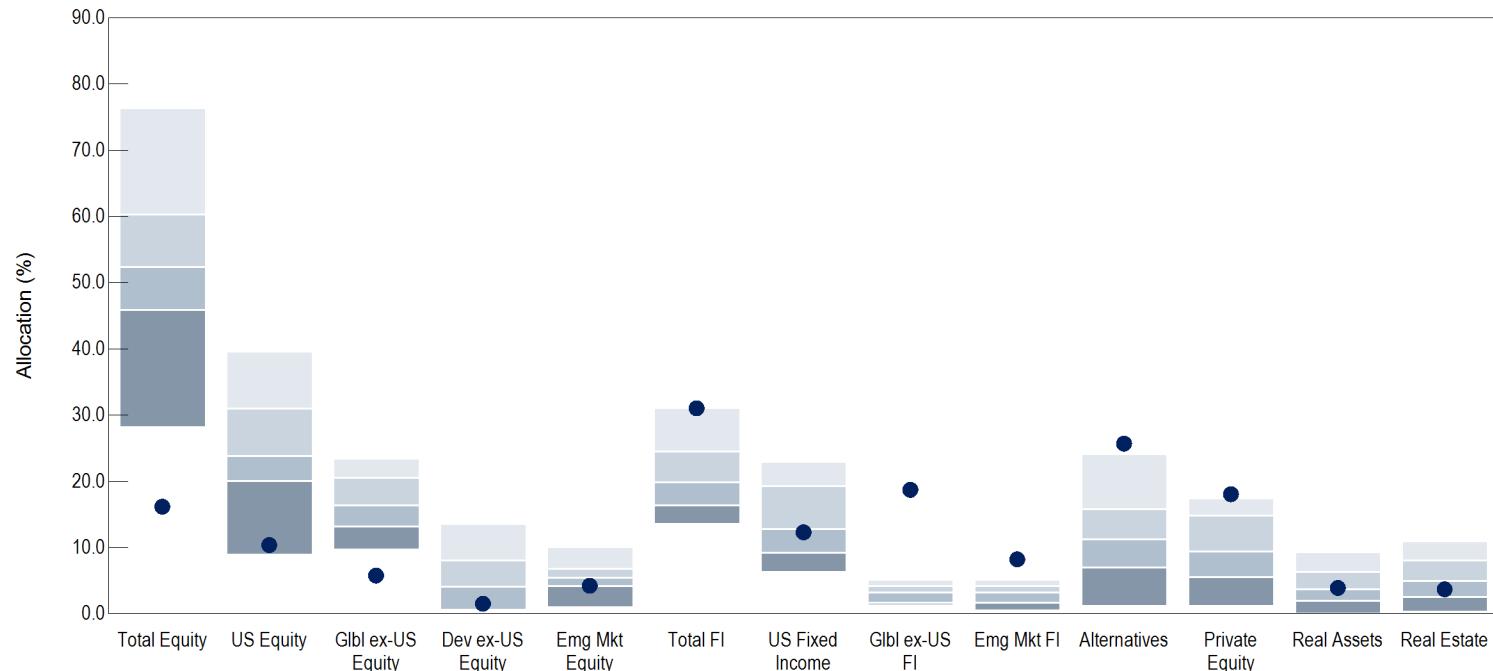
| Return (Rank) | | | | | | | | | | | |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 31.7 | 4.2 | 7.7 | 10.5 | 14.9 | 2.7 | 12.7 | 10.1 | | | |
| 5th Percentile | 31.7 | 4.2 | 7.7 | 10.5 | 14.9 | 2.7 | 12.7 | 10.1 | | | |
| 25th Percentile | 29.1 | 2.6 | 6.3 | 8.8 | 13.7 | 0.8 | 11.2 | 8.8 | | | |
| Median | 26.4 | 1.3 | 5.4 | 8.0 | 12.7 | -0.5 | 10.5 | 8.1 | | | |
| 75th Percentile | 24.7 | 0.0 | 4.6 | 7.3 | 11.9 | -1.2 | 9.8 | 7.6 | | | |
| 95th Percentile | 22.5 | -2.2 | 3.5 | 6.5 | 9.2 | -2.4 | 8.3 | 6.3 | | | |
| # of Portfolios | 35 | 71 | 77 | 51 | 65 | 55 | 35 | 33 | | | |
| ● Total Fund | 33.3 | (1) | -3.2 | (98) | 4.8 | (69) | 8.8 | (29) | 13.3 | (33) | -0.8 |
| ▲ Policy Index | 19.7 | (99) | 3.7 | (14) | 6.2 | (27) | 6.9 | (91) | 8.0 | (96) | 3.4 |
| ◆ 60% MSCI ACWI (Net) / 40% FTSE WGBI | 22.7 | (95) | 3.7 | (14) | 6.0 | (31) | 7.2 | (79) | 9.1 | (96) | 2.3 |



Exhibit A: Page 80

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION TOTAL FUND ALLOCATIONS VS. PEER UNIVERSE

Total Plan Allocation vs. InvMetrics Public DB > \$1B Net



| | Allocation (Rank) | | | | | | | | | | | | | | | |
|-----------------|-------------------|------|------|------|------|------|------|------|-----|------|------|-----|------|------|------|-----|
| 5th Percentile | 76.4 | 39.6 | 23.5 | 13.6 | 10.1 | 31.1 | 23.0 | 5.1 | 5.1 | 24.1 | 17.4 | 9.3 | 11.0 | -- | -- | |
| 25th Percentile | 60.4 | 31.0 | 20.7 | 8.2 | 6.9 | 24.6 | 19.3 | 4.3 | 4.3 | 15.9 | 15.0 | 6.4 | 8.2 | -- | -- | |
| Median | 52.4 | 23.9 | 16.5 | 4.2 | 5.6 | 19.9 | 12.9 | 3.3 | 3.3 | 11.4 | 9.5 | 3.8 | 5.1 | -- | -- | |
| 75th Percentile | 46.0 | 20.2 | 13.3 | 0.7 | 4.3 | 16.5 | 9.3 | 1.8 | 1.8 | 7.1 | 5.6 | 2.1 | 2.6 | -- | -- | |
| 95th Percentile | 28.3 | 9.0 | 9.9 | 0.7 | 1.1 | 13.7 | 6.4 | 1.4 | 0.7 | 1.3 | 1.3 | 0.1 | 0.4 | -- | -- | |
| # of Portfolios | 26 | 17 | 22 | 13 | 19 | 26 | 17 | 12 | 12 | 25 | 21 | 11 | 22 | -- | -- | |
| ● Total Fund | 16.2 | (99) | 10.4 | (93) | 5.8 | (99) | 1.5 | (68) | 4.3 | (76) | 31.0 | (6) | 12.3 | (64) | 18.7 | (1) |



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Past performance is no guarantee of future results.

Returns for pooled funds, e.g. mutual funds and collective investment trusts, are collected from third parties; they are not generally calculated by NEPC. Returns for separate accounts, with some exceptions, are calculated by NEPC. Returns are reported net of manager fees unless otherwise noted.

A “since inception” return, if reported, begins with the first full month after funding, although actual inception dates (e.g. the middle of a month) and the timing of cash flows are taken into account in Composite return calculations.

NEPC’s preferred data source is the plan’s custodian bank or record-keeper. If data cannot be obtained from one of the preferred data sources, data provided by investment managers may be used. Information on market indices and security characteristics is received from additional providers. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within. In addition, some index returns displayed in this report or used in calculation of a policy index, allocation index or other custom benchmark may be preliminary and subject to change.

All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.

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Source of private fund performance benchmark data: Cambridge Associates, via Refinitiv

