



QUARTERLY PERFORMANCE REPORT

SAN BERNARDINO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION



DECEMBER 31, 2023

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MARKET ENVIRONMENT

Q4 2023 OVERVIEW

| Q 1 2020 0 V | | | | | | | | | | | | | |
|---|----------------------------------|--------|---------|--------|--------|--------|------------------------------------|--------|----------------|----------|----------|---------------|----------|
| | | Qtr. | 1 Yr. | 3 Yr. | 5 Yr. | 10 Yr. | | | | | | | |
| World Equity Benchmarks | | | | | | | | | - | | + + | + | \neg |
| MSCI ACWI IMI (Net) | World with Small Cap | 11.14% | 21.58% | 5.46% | 11.49% | 7.77% | MSCI ACWI IMI (Net) | | | | - | | |
| MSCI ACWI Net (USD) | World W/O Small Cap | 11.03% | 22.20% | 5.75% | 11.72% | 7.92% | MSCI ACWI Net (USD) | | | _ | | | |
| MSCI ACWI (Local) | World (Local Currency) | 9.38% | 21.61% | 7.30% | 12.24% | 9.04% | MSCI ACWI (Local) | | | | | | |
| Domestic Equity Benchmarks | | | | | | | Russell 3000 | | : | | | | |
| Russell 3000 | Domestic All Cap | 12.07% | 25.96% | 8.54% | 15.16% | 11.48% | S&P 500 | | i 📜 | | _ | | |
| S&P 500 | Large Core | 11.69% | 26.29% | 10.00% | 15.69% | 12.03% | Russell 1000 | | | | | | |
| Russell 1000 | Large Core | 11.96% | 26.53% | 8.97% | 15.52% | 11.80% | Russell 1000 Growth | | | | | | |
| Russell 1000 Growth | Large Growth | 14.16% | 42.68% | 8.86% | 19.50% | 14.86% | Russell 1000 Value | | | | 1 1 | | |
| Russell 1000 Value | Large Value | 9.50% | 11.46% | 8.86% | 10.91% | 8.40% | Russell 2000 | | | | | | |
| Russell 2000 | Small Core | 14.03% | 16.93% | 2.22% | 9.97% | 7.16% | | | | | - | | |
| Russell 2000 Growth | Small Growth | 12.75% | 18.66% | -3.50% | 9.22% | 7.16% | Russell 2000 Growth | | | _ | | | |
| Russell 2000 Value | Small Value | 15.26% | 14.65% | 7.94% | 10.00% | 6.76% | Russell 2000 Value | | | | | | |
| NASDAQ Composite | Large Growth | 13.79% | 44.64% | 6.04% | 18.75% | 14.80% | NASDAQ Composite | | | | | | |
| NASDAQ Biotechnology | Biotech | 10.75% | 4.59% | -2.03% | 8.26% | 6.89% | NASDAQ Biotechnology | | i 📜 | | | | |
| International Equity Benchmarks | | | | | | | MSCI ACWI Ex USA | | | | | | |
| MSCI ACWI Ex USA | World ex-US | 9.75% | 15.62% | 1.55% | 7.08% | 3.83% | MSCI EAFE Net (USD) | | | | | | |
| MSCI EAFE Net (USD) | Int'l Developed | 10.42% | 18.24% | 4.02% | 8.16% | 4.28% | MSCI EAFE (Local) | | | | - | | |
| MSCI EAFE (Local) | Int'l Developed (Local Currency) | 4.96% | 16.16% | 8.64% | 9.49% | 6.61% | , , , | | | | | | |
| MSCI EAFE Small Cap | Small Cap Int'l | 11.14% | 13.16% | -0.69% | 6.58% | 4.80% | MSCI EAFE Small Cap | | | | | | |
| MSCI Emerging Markets | Emerging Equity | 7.86% | 9.83% | -5.08% | 3.69% | 2.66% | MSCI Emerging Markets | | | | | | |
| Domestic Fixed Income Benchmarks | | | | | | | Bloomberg Aggregate | | | 5 | | | |
| Bloomberg Aggregate | Core Bonds | 6.82% | 5.53% | -3.31% | 1.10% | 1.81% | Barclays US High Yield | | : - | | | i_ | \dashv |
| Barclays US High Yield | High Yield | 7.16% | 13.44% | 1.98% | 5.37% | 4.60% | CSFB Levered Loans | | - | 1 | | Quart | er |
| CSFB Levered Loans | Bank Loans | 2.85% | 13.04% | 5.64% | 5.56% | 4.44% | BofA ML US 3-Month T-Bill | | 1 | - | | ■1Yr | |
| BofA ML US 3-Month T-Bill | Cash | 1.37% | 5.02% | 2.15% | 1.88% | 1.25% | Bloomberg US TIPS 1-10 Yr | | | į l | L | 1 1 11 | |
| Bloomberg US TIPS 1-10 Yr | Inflation | 3.89% | 4.36% | 0.73% | 3.43% | 2.31% | Barclays Global Aggregate | | | | | | |
| Global Fixed Income Benchmarks | | | | | | | FTSE WGBI | | | | | | |
| Barclays Global Aggregate | Global Core Bonds | 8.10% | 5.71% | -5.51% | -0.32% | 0.38% | | | | | | | |
| FTSE WGBI | World Gov. Bonds | 8.08% | 5.19% | -7.18% | -1.39% | -0.31% | BC Global Credit | | : 💻 | | | | |
| BC Global Credit | Global Bonds | 8.69% | 9.24% | -4.24% | 1.36% | 1.51% | JPM GBI-EM Glob. Diversified | | | | | | |
| JPM GBI-EM Glob. Diversified | Em. Mkt. Bonds (Local Currency) | 8.07% | 12.70% | -3.16% | 1.14% | 0.09% | JPM EMBI+ | | į " | | | | |
| JPM EMBI+ | Em. Mkt. Bonds | 10.54% | 10.30% | -7.43% | -0.89% | 1.51% | Bloomberg Commodity Index | | | | | | |
| Alternative Benchmarks | | | | | | | HFRI Fund of Funds Composite Index | | 1 | | | | |
| Bloomberg Commodity Index | Commodities | -4.63% | -7.91% | 10.76% | 7.23% | -1.11% | Cambridge PE Lagged* | | : I | _ | | | |
| HFRI Fund of Funds Composite Index | Fund of Hedge Funds | 3.65% | 6.59% | 2.33% | 5.19% | 3.28% | NCREIF ODCE Net Lagged* | _ | | _ | | | |
| Cambridge PE Lagged* | Private Equity | 0.77% | 7.22% | 17.59% | 14.63% | 14.02% | FTSE NAREIT All Equity REITs | | | | | | |
| NCREIF ODCE Net Lagged* | Real Estate | -2.10% | -12.88% | 6.19% | 4.72% | 7.19% | | | | | | <u> </u> | |
| FTSE NAREIT All Equity REITs | REIT | 17.98% | 11.36% | 5.70% | 7.59% | 7.95% | - | 20% -1 | 0% 0% | 10% | 20% 309 | % 40% | 509 |
| CPI + 2% | Inflation/Real Assets | 0.94% | 5.36% | 7.74% | 6.17% | 4.84% | | | | | | | |
| * | | | | | | | | | | | | | |



^{*} As of 9/30/2023

CAPITAL MARKETS OVERVIEW

The U.S. economy experienced a "no landing" in 2023 as inflation pressures declined, while consumption and growth defied expectations

The Federal Reserve raised interest rates more than expected this year; the "long and variable" lag may be longer and more variable today

Markets remain anchored to a lower interest rate and inflation environment, pricing in an aggressive cutting path for the Fed in 2024

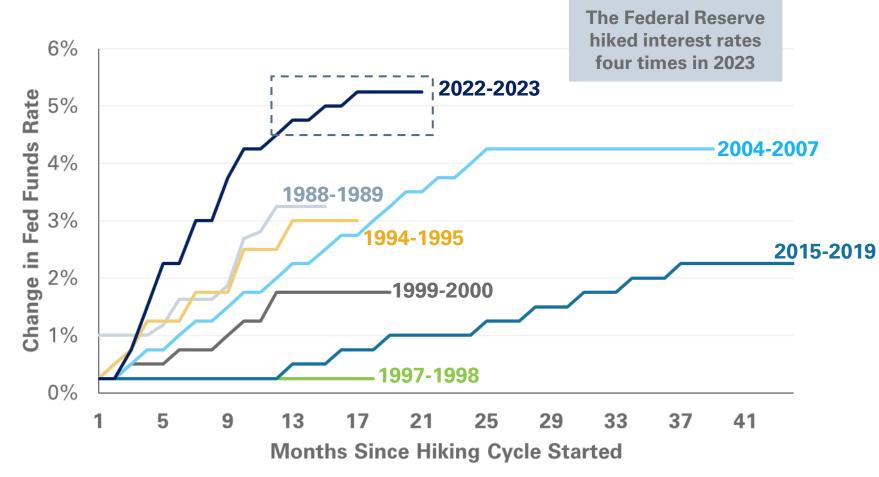
The Magnificent 7 drove U.S. equity market outperformance in 2023 – surpassing lofty market expectations for revenue and earnings growth

A backdrop of elevated global geopolitical tensions heightens economic tail risks and introduces uncertainty for capital markets in 2024



THE FED TIGHTENED MORE THAN EXPECTED IN 2023

HISTORICAL FED HIKING CYCLES

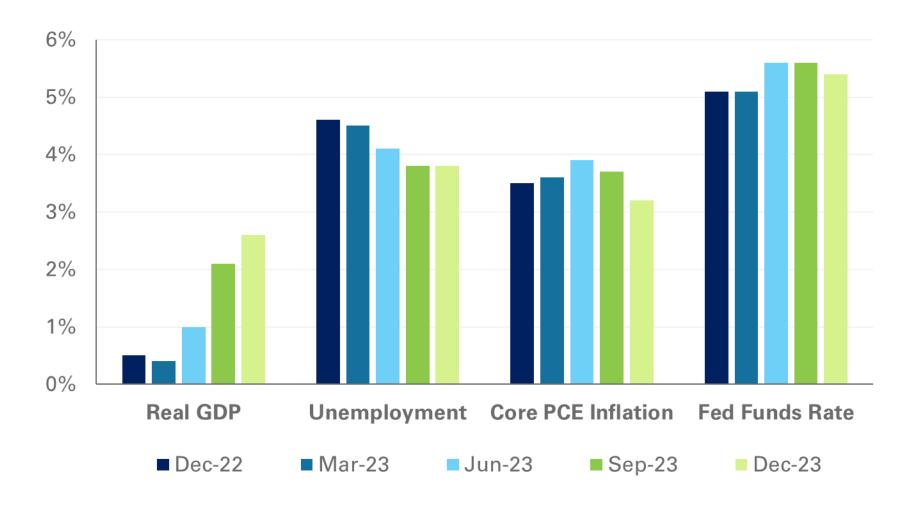




Notes: Reflects Fed rate hiking cycles since 1988 Sources: Federal Reserve, FactSet

THE U.S. ECONOMY FAR OUTPACED EXPECTATIONS

2023 FED PROJECTIONS

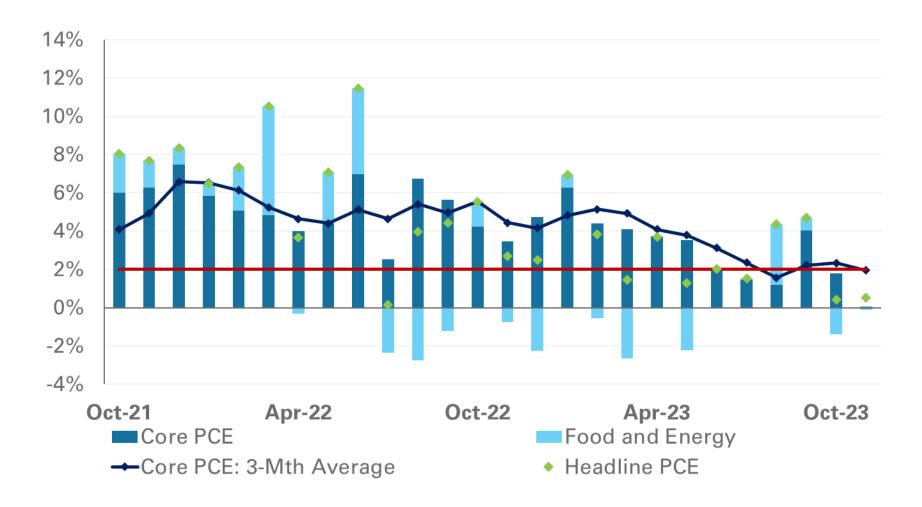




Source: U.S. Federal Reserve Summary of Economic Projections

CORE INFLATION TRENDED TO THE FED'S TARGET

ANNUALIZED MONTHLY U.S. PCE PRICE INDEX CHANGES





Sources: Bureau of Labor Statistics, FactSet

GOODS AND SERVICES CATEGORIES DIVERGE

ANNUAL CHANGE IN INFLATION SUB-COMPONENTS





+19.1%
Motor Vehicle
Insurance



+10.3%
Transportation
Services



+7.1%
Delivery
Services



+6.5% Shelter



+6.1% Medical Services



+5.3%
Food Away
from Home



+3.0% Food



+1.3%
New Vehicles



-3.2%
Used Cars
and Trucks



-9.6% Televisions



-9.7%
Car and
Truck Rental



-10.8%
Airline
Fares



-22.3%

Eggs



-24.8%

Fuel Oil



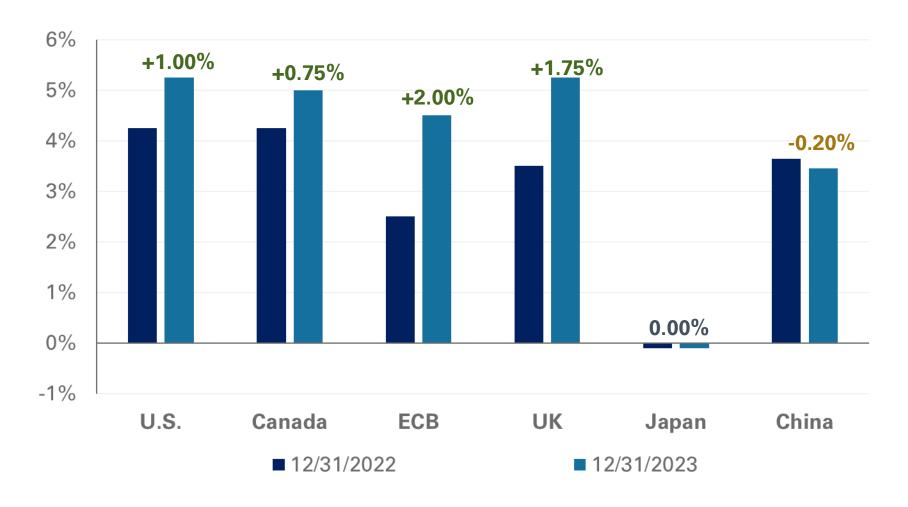
-30.3% Health insurance



Sources: Bureau of Labor Statistics, FactSet

POLICY TIGHTENED AMID ELEVATED INFLATION

POLICY RATE CHANGES BY GLOBAL CENTRAL BANKS

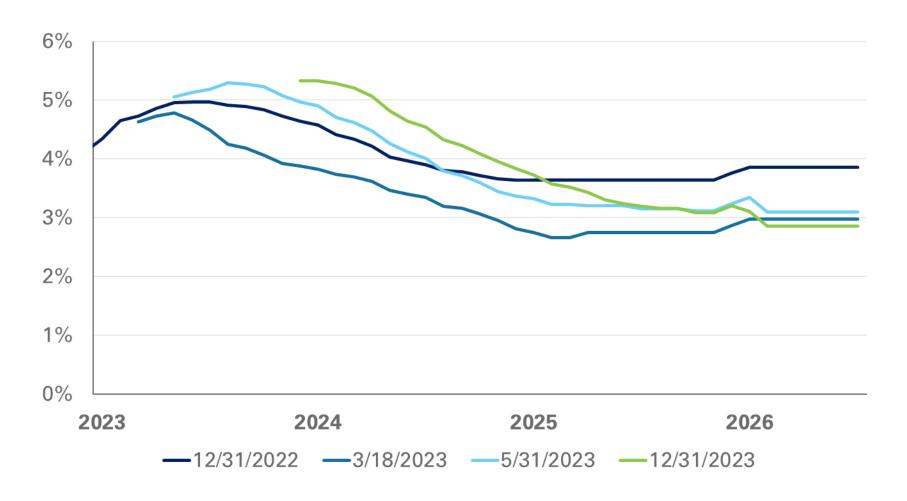




Source: FactSet

LONG-TERM RATE EXPECTATIONS FELL

FED FUNDS FUTURES

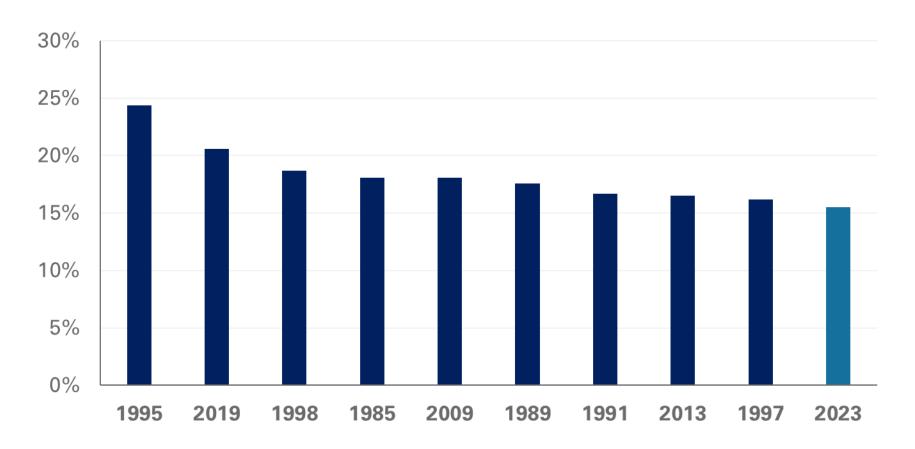




Source: FactSet

2023 WAS A STRONG YEAR FOR 60/40 ALLOCATIONS

60/40 ANNUAL PORTFOLIO RETURNS

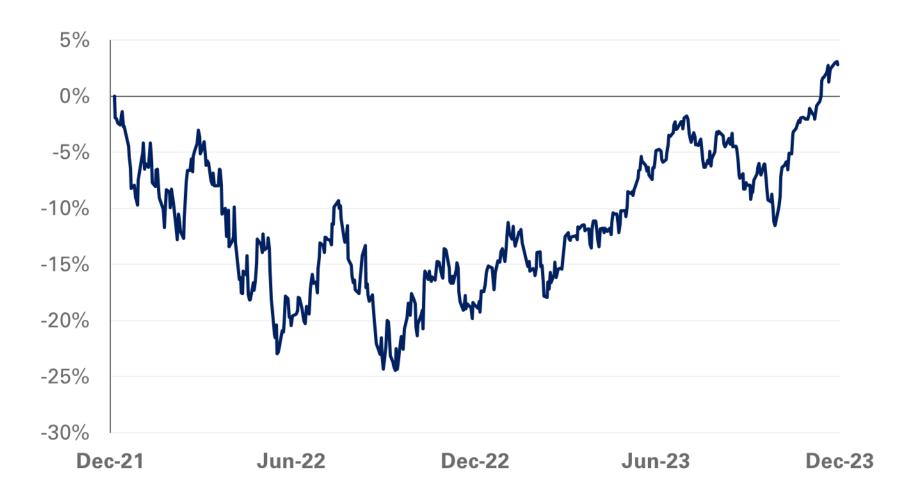




Notes: Chart calculated using annual data 1976 to present. 60% reflects S&P 500 price return, 40% reflects Bloomberg U.S. Aggregate Bond Index returns Sources: S&P, Bloomberg, FactSet

THE S&P 500 EXITED THE BEAR MARKET

CUMULATIVE TOTAL RETURN





Calculated from 1/4/21 to 12/31/2023 Source: S&P, FactSet

GROWTH WAS SUPPORTED BY THE MAG 7

RUSSELL 1000 EX MAGNIFICENT 7 STOCKS CUMULATIVE RETURN





Magnificent 7 represents Apple, Amazon, Alphabet, Meta, Microsoft, Nvidia, and Tesla Source: Russell, FactSet

HIGHEST U.S. EQUITY WEIGHT SINCE 1972

U.S. EQUITIES AS A PERCENTAGE OF MSCI ACWI INDEX

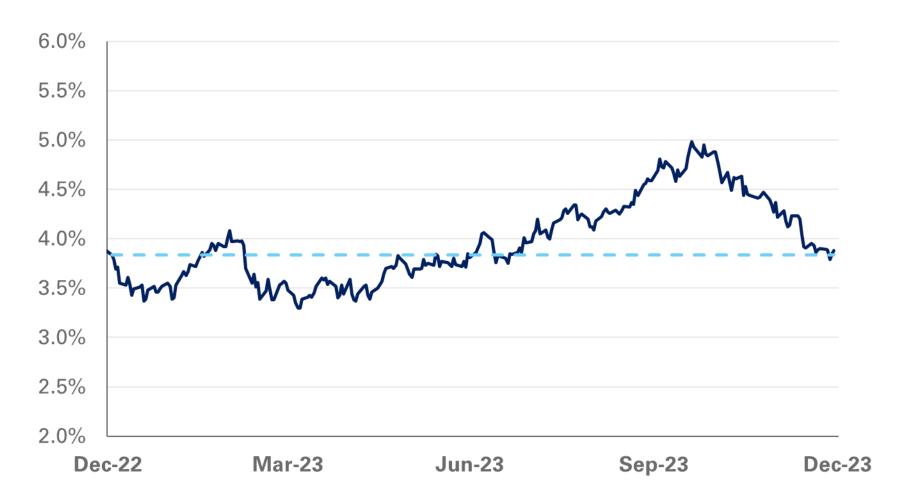




Source: MSCI, FactSet

YIELDS COMPLETED A FEW ROUND TRIPS

U.S. TREASURY 10-YEAR YIELD





Source: FactSet





TOTAL FUND PERFORMANCE SUMMARY

NET OF FEES

| | Allocation | | | | | | |
|---|----------------------|-------------|-------------|-------------|--------------|--------------|---------------|
| | Market Value (\$) | 3 Mo (%) | FYTD (%) | 1 Yr (%) | 3 Yrs (%) | 5 Yrs (%) | 10 Yrs (%) |
| Total Fund | 14,711,539,963 | 3.6 (100) | 4.7 (31) | 9.5 (88) | 7.5 (1) | 8.7 (38) | 7.1 (20) |
| Policy Index | | 8.1 (14) | 5.4 (6) | 12.7 (24) | 1.8 (99) | 6.5 (93) | 5.2 (97) |
| S&P 500 Index | | 11.7 (1) | 8.0 (1) | 26.3 (1) | 10.0 (1) | 15.7 (1) | 12.0 (1) |
| Blmbg. U.S. Aggregate Index | | 6.8 (50) | 3.4 (94) | 5.5 (99) | -3.3 (100) | 1.1 (100) | 1.8 (100) |
| 60% MSCI World/40% FTSE WGBI | | 10.2 (1) | 6.1 (1) | 16.5 (1) | 1.7 (99) | 7.5 (84) | 5.5 (91) |
| InvMetrics Public DB > \$1 Billion Median | | 6.8 | 4.5 | 11.4 | 4.6 | 8.0 | 6.3 |

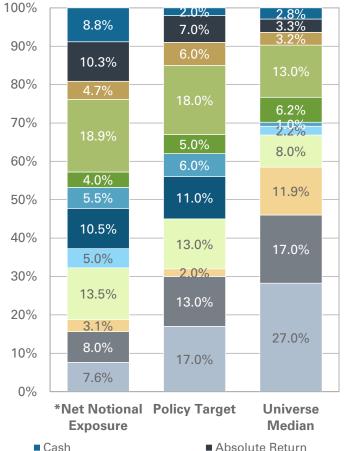
| 3 Years Ending December 31, 2023 | | | | | | | | | |
|---|-----------|------------|-----------|-----------|--|--|--|--|--|
| Return Standard Sharpe Sortino Deviation Ratio Ratio | | | | | | | | | |
| Total Fund | 7.53 (1) | 5.79 (4) | 0.91 (1) | 1.43 (2) | | | | | |
| Policy Index | 1.81 (99) | 10.87 (72) | 0.02 (98) | 0.03 (98) | | | | | |
| InvMetrics Public DB > \$1 Billion Median | 4.59 | 9.65 | 0.28 | 0.40 | | | | | |

| 5 Years Ending December 31, 2023 | | | | | | | | | |
|---|-----------|------------|-----------|-----------|--|--|--|--|--|
| Return Standard Sharpe Sortino Deviation Ratio Ratio | | | | | | | | | |
| Total Fund | 8.68 (38) | 7.50 (1) | 0.89 (1) | 1.37 (1) | | | | | |
| Policy Index | 6.53 (93) | 10.67 (42) | 0.47 (95) | 0.70 (89) | | | | | |
| InvMetrics Public DB > \$1 Billion Median | 8.03 | 11.00 | 0.59 | 0.90 | | | | | |

| 10 Years Ending December 31, 2023 | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|--|--|--|--|--|
| Return Standard Sharpe Sortino Deviation Ratio Ratio | | | | | | | | | |
| Total Fund | 7.05 (20) | 5.86 (1) | 0.97 (1) | 1.53 (1) | | | | | |
| Policy Index | 5.24 (97) | 8.39 (37) | 0.50 (86) | 0.76 (77) | | | | | |
| InvMetrics Public DB > \$1 Billion Median | 6.34 | 9.07 | 0.58 | 0.86 | | | | | |



ASSET ALLOCATION COMPLIANCE



| Asset Class | *Net Notional Exposure | Net Notional Exposure | Policy Target | Difference | Policy Ranges | Within Range |
|--------------------------|---------------------------|-----------------------------|------------------|------------|------------------|-----------------|
| US Equities | 1,120,911 | 7.6% | 17.0% | -9.4% | 10%-27% | No |
| Int'l Equities | 1,174,794 | 8.0% | 13.0% | -5.0% | 8%-18% | Yes |
| U.S. Core Fixed Income | 461,505 | 3.1% | 2.0% | 1.1% | -3%-7% | Yes |
| US Credit | 1,987,480 | 13.5% | 13.0% | 0.5% | 8%-18% | Yes |
| Non-US Core Fixed Income | 735,577 | 5.0% | 0.0% | 5.0% | -5%-5% | Yes |
| Non-US Credit | 1,544,933 | 10.5% | 11.0% | -0.5% | 6%-16% | Yes |
| Emerging Market Debt | 807,579 | 5.5% | 6.0% | -0.5% | 1%-10% | Yes |
| Real Estate | 588,421 | 4.0% | 5.0% | -1.0% | 0%-10% | Yes |
| Private Equity | 2,784,473 | 18.9% | 18.0% | 0.9% | 6%-23% | Yes |
| Real Assets | 689,512 | 4.7% | 6.0% | -1.3% | 0%-10% | Yes |
| Absolute Return | 1,514,915 | 10.3% | 7.0% | 3.3% | 0%-12% | Yes |
| Cash | 1,301,440 | 8.8% | 2.0% | 6.8% | 0%-10% | Yes |
| | | | | | | |
| Total | 14,711,540 | 100.00% | 100.00% | | | |
| | | | | | | |

- 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



Note: Notional values are sourced from Russell Investments. Net synthetic exposure applied to Non-US Core Fixed Income and Non-US Credit.

INVESTMENT EXPOSURE SUMMARY

OVERLAY AS OF DECEMBER 31, 2023

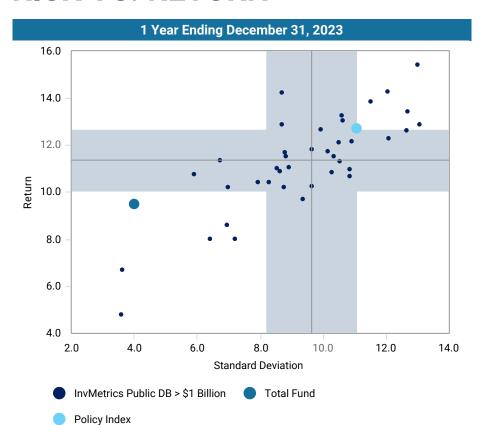
| <u>Delta Adjusted</u> | | | | | | | | | | |
|---------------------------|------------|---------|-------------|---------|----------|--------|-----------|--------|-----------|---------|
| Asset Class | Physical E | xposure | Synthetic E | xposure | Net Po | sition | Overlay 1 | Target | Policy Ta | ırget |
| Total Market Value | 14,711.3 | 100.0% | 0.0 | 0.0% | 14,711.3 | 100.0% | 14,711.3 | 100.0% | 14,711.3 | 100.00% |
| Cash | 1,692.1 | 11.5% | -1,466.3 | -10.0% | 225.8 | 1.5% | 0.0 | 0.0% | 0.0 | 0.00% |
| Cash | 1,692.1 | 11.5% | -1,466.3 | -10.0% | 225.8 | 1.5% | 0.0 | 0.0% | 0.0 | 0.00% |
| Equity | 2,457.4 | 16.7% | -100.9 | -0.7% | 2,356.5 | 16.0% | 2,954.9 | 20.1% | 2,942.3 | 20.00% |
| Emerging Markets | 333.0 | 2.3% | 276.2 | 1.9% | 609.2 | 4.1% | 591.0 | 4.0% | 588.5 | 4.00% |
| International Developed | 430.6 | 2.9% | 135.3 | 0.9% | 565.9 | 3.8% | 591.0 | 4.0% | 588.5 | 4.00% |
| US Large Cap | 1,693.6 | 11.5% | -603.0 | -4.1% | 1,090.6 | 7.4% | 1,625.2 | 11.0% | 1,618.2 | 11.00% |
| US Small Cap | 0.3 | 0.0% | 90.5 | 0.6% | 90.8 | 0.6% | 147.7 | 1.0% | 147.1 | 1.00% |
| Fixed | 4,050.4 | 27.5% | 1,567.3 | 10.7% | 5,617.7 | 38.2% | 5,245.0 | 35.7% | 5,222.5 | 35.50% |
| Global ex US Fixed Income | 1,932.4 | 13.1% | 1,105.8 | 7.5% | 3,038.1 | 20.7% | 3,087.9 | 21.0% | 3,074.7 | 20.90% |
| High Yield | 1,825.2 | 12.4% | 0.0 | 0.0% | 1,825.2 | 12.4% | 1,388.8 | 9.4% | 1,382.9 | 9.40% |
| US Fixed Income | 292.9 | 2.0% | 461.5 | 3.1% | 754.4 | 5.1% | 768.3 | 5.2% | 765.0 | 5.20% |
| Other | 6,511.3 | 44.3% | 0.0 | 0.0% | 6,511.3 | 44.3% | 6,511.3 | 44.3% | 6,546.5 | 44.50% |
| Alternatives | 4.0 | 0.0% | 0.0 | 0.0% | 4.0 | 0.0% | 4.0 | 0.0% | 0.0 | 0.00% |
| Commodities | 605.3 | 4.1% | 0.0 | 0.0% | 605.3 | 4.1% | 605.3 | 4.1% | 617.9 | 4.20% |
| Infrastructure | 106.2 | 0.7% | 0.0 | 0.0% | 106.2 | 0.7% | 106.2 | 0.7% | 73.6 | 0.50% |
| Private Equity | 2,774.8 | 18.9% | 0.0 | 0.0% | 2,774.8 | 18.9% | 2,774.8 | 18.9% | 2,809.9 | 19.10% |
| Real Estate | 564.2 | 3.8% | 0.0 | 0.0% | 564.2 | 3.8% | 564.2 | 3.8% | 588.5 | 4.00% |
| Tactical Cash | 2,456.8 | 16.7% | 0.0 | 0.0% | 2,456.8 | 16.7% | 2,456.8 | 16.7% | 2,456.8 | 16.70% |



Source: Russell Investments

14.0

RISK VS. RETURN



| | 7.0 – | | | | | • | | |
|--------|-------|--------|--------------|------------|-------------------|------------------|------|------|
| | 6.0 - | | | • | | •• | • | |
| u.n | 5.0 – | | | | | • • | • ; | • |
| Return | 4.0 - | | | | | | | • |
| | 3.0 - | | | | | | • | •• |
| | 2.0 - | | | | | | • | • |
| | 1.0 | | • | | | | | |
| | 0. | .0 | 2.0 | 4.0 | 6.0 Standard D | 8.0 Deviation | 10.0 | 12.0 |
| | • | InvMe | trics Public | DB > \$1 B | illion | Total Fund | d | |
| | | Policy | Index | | | | | |

3 Years Ending December 31, 2023

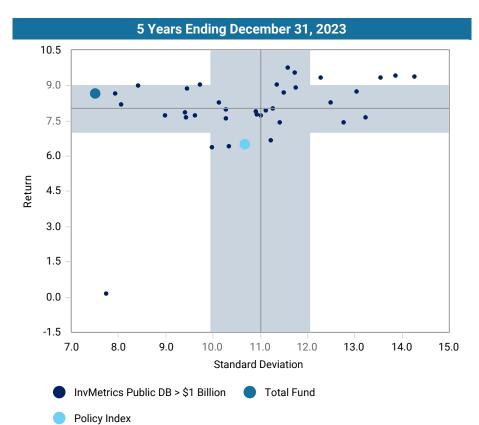
| 1 Year Ending December 31, 2023 | | | | | | | | | | |
|---------------------------------|-----------|-----------------------|-----------------|------------------|--|--|--|--|--|--|
| | Return | Standard Deviation | Sharpe Ratio | Sortino Ratio | | | | | | |
| Total Fund | 9.5 (88) | 4.0 (3) | 1.1 (1) | 2.3 (1) | | | | | | |
| Policy Index | 12.7 (24) | 11.1 (82) | 0.7 (38) | 1.2 (48) | | | | | | |
| Population | 39 | 39 | 39 | 39 | | | | | | |

| 3 Years Ending December 31, 2023 | | | | | | | | | |
|----------------------------------|----------|-----------------------|-----------------|------------------|--|--|--|--|--|
| | Return | Standard Deviation | Sharpe Ratio | Sortino Ratio | | | | | |
| Total Fund | 7.5 (1) | 5.8 (4) | 0.9 (1) | 1.4 (2) | | | | | |
| Policy Index | 1.8 (99) | 10.9 (72) | 0.0 (98) | 0.0 (98) | | | | | |
| Population | 36 | 36 | 36 | 36 | | | | | |



8.0

RISK VS. RETURN



| 9.0 | | | | | | | | |
|-----------------|------------|------------|-------------|------------|---------|------|------|------|
| 8.0 - | | | | | • | | | |
| 7.0 | | • | • | | •• | •• | • | |
| 6.0 - | | • | • | | • | • | | |
| Return - 0.5 | | | • • | | | | | |
| 4.0 - | | | | | | | | |
| 3.0 - | | | | | | | | |
| 2.0 - | | • | | | | | | |
| 1.0 | 6.3 | 7.2 | 8.1 | 9.0 | 9.9 | 10.8 | 11.7 | 12.0 |
| J. 4 | 0.5 | 1.2 | | dard Devia | | 10.0 | 11.7 | 12.0 |
| Inv | Metrics Pu | ıblic DB > | \$1 Billion | Total | al Fund | | | |
| Po | licy Index | | | | | | | |

10 Years Ending December 31, 2023

| 5 Years Ending December 31, 2023 | | | | | | | | | |
|----------------------------------|----------|-----------------------|-----------------|------------------|--|--|--|--|--|
| | Return | Standard Deviation | Sharpe Ratio | Sortino Ratio | | | | | |
| Total Fund | 8.7 (38) | 7.5 (1) | 0.9 (1) | 1.4 (1) | | | | | |
| Policy Index | 6.5 (93) | 10.7 (42) | 0.5 (95) | 0.7 (89) | | | | | |
| Population | 35 | 35 | 35 | 35 | | | | | |

| 10 Years Ending December 31, 2023 | | | | | | | | | |
|-----------------------------------|-----------------------------|----------|-----------------|------------------|--|--|--|--|--|
| | Return Standar Deviation | | Sharpe Ratio | Sortino Ratio | | | | | |
| Total Fund | 7.1 (20) | 5.9 (1) | 1.0 (1) | 1.5 (1) | | | | | |
| Policy Index | 5.2 (97) | 8.4 (37) | 0.5 (86) | 0.8 (77) | | | | | |
| Population | 33 | 33 | 33 | 33 | | | | | |





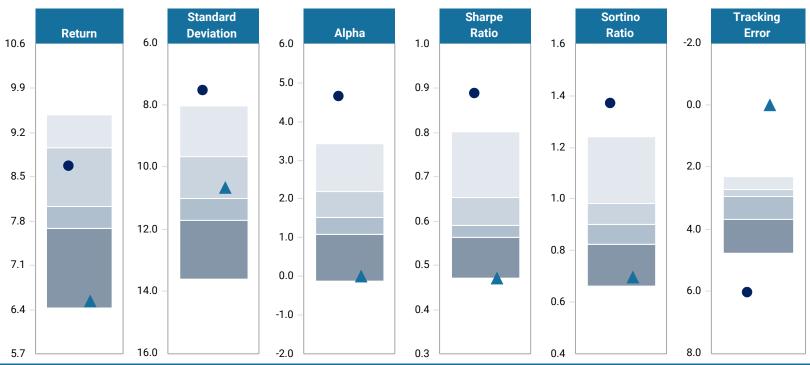
| | 1 Yr (%) |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Total Fund | 9.5 (88) | 4.0 (3) | 5.0 (1) | 1.1 (1) | 2.3 (1) | 7.4 (96) |
| ▲ Policy Index | 12.7 (24) | 11.1 (82) | 0.0 (69) | 0.7 (38) | 1.2 (48) | 0.0 (1) |
| | | | | | | |
| 5th Percentile | 14.3 | 5.7 | 3.8 | 0.9 | 1.8 | 1.5 |
| 1st Quartile | 12.7 | 8.4 | 1.3 | 0.7 | 1.4 | 2.1 |
| Median | 11.4 | 9.6 | 0.8 | 0.7 | 1.2 | 2.7 |
| 3rd Quartile | 10.5 | 10.7 | -0.3 | 0.6 | 1.0 | 3.2 |
| 95th Percentile | 7.9 | 12.7 | -1.4 | 0.5 | 0.8 | 5.5 |
| Population | 39 | 39 | 39 | 39 | 39 | 39 |





| | 3 Yrs (%) |
|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Total Fund | 7.5 (1) | 5.8 (4) | 6.5 (1) | 0.9 (1) | 1.4 (2) | 6.5 (95) |
| Policy Index | 1.8 (99) | 10.9 (72) | 0.0 (100) | 0.0 (98) | 0.0 (98) | 0.0 (1) |
| | | | | | | |
| 5th Percentile | 6.0 | 6.6 | 4.8 | 0.6 | 0.8 | 1.8 |
| 1st Quartile | 5.3 | 8.6 | 3.8 | 0.4 | 0.6 | 2.5 |
| Median | 4.6 | 9.7 | 2.9 | 0.3 | 0.4 | 2.9 |
| 3rd Quartile | 3.6 | 10.9 | 1.8 | 0.2 | 0.3 | 3.6 |
| 95th Percentile | 2.1 | 12.4 | 0.5 | 0.0 | 0.1 | 5.3 |
| Deputation | 26 | 26 | 26 | 26 | 26 | 26 |
| Population | 36 | 36 | 36 | 36 | 36 | 36 |





| | 5 Yrs (%) |
|------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Total Fund | 8.7 (38) | 7.5 (1) | 4.7 (1) | 0.9 (1) | 1.4 (1) | 6.0 (97) |
| Policy Index | 6.5 (93) | 10.7 (42) | 0.0 (91) | 0.5 (95) | 0.7 (89) | 0.0 (1) |
| | | | | | | |
| 5th Percentile | 9.5 | 8.0 | 3.4 | 0.8 | 1.2 | 2.3 |
| 1st Quartile | 9.0 | 9.7 | 2.2 | 0.7 | 1.0 | 2.7 |
| Median | 8.0 | 11.0 | 1.5 | 0.6 | 0.9 | 3.0 |
| 3rd Quartile | 7.7 | 11.7 | 1.1 | 0.6 | 0.8 | 3.7 |
| 95th Percentile | 6.4 | 13.6 | -0.1 | 0.5 | 0.7 | 4.8 |
| Population | 35 | 35 | 35 | 35 | 35 | 35 |





| | 10 Yrs (%) |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Total Fund | 7.1 (20) | 5.9 (1) | 3.9 (1) | 1.0 (1) | 1.5 (1) | 4.8 (97) |
| Policy Index | 5.2 (97) | 8.4 (37) | 0.0 (89) | 0.5 (86) | 0.8 (77) | 0.0 (1) |
| | | | | | | |
| 5th Percentile | 7.4 | 7.0 | 2.5 | 0.8 | 1.2 | 2.1 |
| 1st Quartile | 6.9 | 8.0 | 1.3 | 0.6 | 1.0 | 2.5 |
| Median | 6.3 | 9.1 | 0.9 | 0.6 | 0.9 | 2.8 |
| 3rd Quartile | 5.8 | 9.7 | 0.2 | 0.5 | 0.8 | 3.0 |
| 95th Percentile | 5.3 | 11.1 | -0.3 | 0.5 | 0.7 | 4.4 |
| Population | 33 | 33 | 33 | 33 | 33 | 33 |



| 1 Years Ending December 31, 2023 | | | | | | | | | | |
|---|--------|-----------------------|-------------------|----------------------|--|--|--|--|--|--|
| | Return | Standard Deviation | Tracking Error | Information Ratio | | | | | | |
| Domestic Equity With Beta Overlay | 17.7 | 14.4 | 2.1 | -3.3 | | | | | | |
| Russell 3000 Index | 26.0 | 15.5 | 0.0 | | | | | | | |
| International Equity With Beta Overlay | 11.7 | 14.7 | 2.7 | -1.6 | | | | | | |
| MSCI AC World ex USA index | 16.2 | 17.1 | 0.0 | | | | | | | |
| Global Fixed Income With Beta Overlay | 9.0 | 3.3 | 8.1 | 0.3 | | | | | | |
| Blmbg. Global Aggregate | 5.7 | 9.8 | 0.0 | | | | | | | |
| U.S. Credit Strategies | 10.7 | 2.3 | 4.3 | -0.5 | | | | | | |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | 12.9 | 4.6 | 0.0 | | | | | | | |
| Non-U.S. Credit Composite | 14.1 | 9.0 | 13.0 | -0.1 | | | | | | |
| ICE BofA Euro High Yield Constrained TR | 15.9 | 10.6 | 0.0 | | | | | | | |
| Emerging Markets Debt Composite | 6.2 | 4.3 | 9.1 | -0.6 | | | | | | |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | 11.9 | 10.0 | 0.0 | | | | | | | |
| Alpha Pool Composite | 10.8 | 2.2 | 2.2 | 1.1 | | | | | | |
| 91 Day T-Bill + 3% | 8.2 | 0.2 | 0.0 | | | | | | | |
| Private Equity Composite | 6.2 | 3.2 | 3.4 | 0.7 | | | | | | |
| C A Global All PE (Qtr Lag) | 3.9 | 2.4 | 0.0 | | | | | | | |
| Real Estate Composite | -5.4 | 2.5 | 5.5 | 0.6 | | | | | | |
| NCREIF Property Index 1 Qtr. Lag | -8.4 | 4.1 | 0.0 | | | | | | | |
| Real Assets Composite | 7.5 | 3.3 | 11.0 | 0.7 | | | | | | |
| Real Assets Custom Blend | -1.3 | 10.9 | 0.0 | | | | | | | |



| 3 Years Ending December 31, 2023 | | | | | | | | | | |
|---|--------|-----------------------|-------------------|----------------------|--|--|--|--|--|--|
| | Return | Standard Deviation | Tracking Error | Information Ratio | | | | | | |
| Domestic Equity With Beta Overlay | 5.1 | 16.5 | 2.8 | -1.2 | | | | | | |
| Russell 3000 Index | 8.5 | 17.7 | 0.0 | | | | | | | |
| International Equity With Beta Overlay | 2.0 | 12.9 | 4.4 | -0.1 | | | | | | |
| MSCI AC World ex USA index | 2.0 | 16.3 | 0.0 | | | | | | | |
| Global Fixed Income With Beta Overlay | 7.2 | 4.0 | 7.5 | 1.6 | | | | | | |
| Blmbg. Global Aggregate | -5.5 | 8.8 | 0.0 | | | | | | | |
| U.S. Credit Strategies | 7.8 | 4.3 | 4.9 | 0.8 | | | | | | |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | 3.7 | 5.5 | 0.0 | | | | | | | |
| Non-U.S. Credit Composite | 12.8 | 6.7 | 12.0 | 1.2 | | | | | | |
| ICE BofA Euro High Yield Constrained TR | -2.6 | 12.7 | 0.0 | | | | | | | |
| Emerging Markets Debt Composite | 0.5 | 4.4 | 9.4 | 0.4 | | | | | | |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | -3.3 | 10.6 | 0.0 | | | | | | | |
| Alpha Pool Composite | 5.4 | 4.0 | 3.9 | 0.1 | | | | | | |
| 91 Day T-Bill + 3% | 5.2 | 0.7 | 0.0 | | | | | | | |
| Private Equity Composite | 17.1 | 7.6 | 12.1 | 0.2 | | | | | | |
| C A Global All PE (Qtr Lag) | 14.4 | 13.1 | 0.0 | | | | | | | |
| Real Estate Composite | 7.5 | 4.7 | 8.6 | 0.1 | | | | | | |
| NCREIF Property Index 1 Qtr. Lag | 6.0 | 6.8 | 0.0 | | | | | | | |
| Real Assets Composite | 13.7 | 4.8 | 11.5 | 0.5 | | | | | | |
| Real Assets Custom Blend | 6.7 | 12.3 | 0.0 | | | | | | | |



| 5 Years Ending December 31, 2023 | | | | | | | | | | |
|---|--------|-----------------------|-------------------|----------------------|--|--|--|--|--|--|
| | Return | Standard Deviation | Tracking Error | Information Ratio | | | | | | |
| Domestic Equity With Beta Overlay | 11.7 | 18.9 | 2.8 | -1.1 | | | | | | |
| Russell 3000 Index | 15.2 | 19.1 | 0.0 | | | | | | | |
| International Equity With Beta Overlay | 6.2 | 15.4 | 3.7 | -0.5 | | | | | | |
| MSCI AC World ex USA index | 7.6 | 17.8 | 0.0 | | | | | | | |
| Global Fixed Income With Beta Overlay | 6.0 | 6.4 | 8.1 | 0.7 | | | | | | |
| Blmbg. Global Aggregate | -0.3 | 7.5 | 0.0 | | | | | | | |
| U.S. Credit Strategies | 8.0 | 6.9 | 6.2 | 0.4 | | | | | | |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | 5.4 | 7.8 | 0.0 | | | | | | | |
| Non-U.S. Credit Composite | 7.2 | 8.6 | 12.3 | 0.3 | | | | | | |
| ICE BofA Euro High Yield Constrained TR | 2.5 | 13.5 | 0.0 | | | | | | | |
| Emerging Markets Debt Composite | 1.0 | 6.1 | 9.7 | -0.1 | | | | | | |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | 1.4 | 11.4 | 0.0 | | | | | | | |
| Alpha Pool Composite | 5.2 | 6.2 | 6.3 | 0.1 | | | | | | |
| 91 Day T-Bill + 3% | 4.9 | 0.6 | 0.0 | | | | | | | |
| Private Equity Composite | 15.4 | 8.3 | 12.7 | 0.1 | | | | | | |
| C A Global All PE (Qtr Lag) | 13.1 | 12.8 | 0.0 | | | | | | | |
| Real Estate Composite | 6.5 | 4.0 | 7.0 | 0.2 | | | | | | |
| NCREIF Property Index 1 Qtr. Lag | 5.3 | 5.4 | 0.0 | | | | | | | |
| Real Assets Composite | 11.3 | 9.5 | 10.6 | 0.5 | | | | | | |
| Real Assets Custom Blend | 5.5 | 11.6 | 0.0 | | | | | | | |



| 10 Years Ending December 31, 2023 | | | | | | | | | | |
|---|--------|-----------------------|-------------------|----------------------|--|--|--|--|--|--|
| | Return | Standard Deviation | Tracking Error | Information Ratio | | | | | | |
| Domestic Equity | 5.5 | 13.4 | 8.4 | -0.7 | | | | | | |
| Russell 3000 Index | 11.5 | 15.6 | 0.0 | | | | | | | |
| International Equity | 1.9 | 15.8 | 8.4 | -0.7 | | | | | | |
| MSCI AC World Index (Net) | 7.9 | 14.8 | 0.0 | | | | | | | |
| International Emerging | 0.8 | 15.3 | 5.3 | -0.4 | | | | | | |
| MSCI Emerging Markets (Net) | 2.7 | 17.2 | 0.0 | | | | | | | |
| U.S. Credit Strategies | 6.6 | 5.3 | 5.0 | 0.4 | | | | | | |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | 4.5 | 6.0 | 0.0 | | | | | | | |
| Non-U.S. Credit Composite | 6.6 | 6.5 | 11.0 | 0.4 | | | | | | |
| ICE BofA Euro High Yield Constrained TR | 1.1 | 11.6 | 0.0 | | | | | | | |
| Emerging Markets Debt Composite | 2.1 | 5.8 | 7.9 | 0.0 | | | | | | |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | 1.7 | 9.7 | 0.0 | | | | | | | |
| Alpha Pool Composite | 4.5 | 5.0 | 5.0 | 0.1 | | | | | | |
| 91 Day T-Bill + 3% | 4.3 | 0.5 | 0.0 | | | | | | | |
| Private Equity Composite | 14.3 | 6.5 | 10.3 | 0.1 | | | | | | |
| C A Global All PE (Qtr Lag) | 12.9 | 10.1 | 0.0 | | | | | | | |
| Real Estate Composite | 7.8 | 3.7 | 6.1 | 0.1 | | | | | | |
| NCREIF Property Index 1 Qtr. Lag | 7.4 | 4.8 | 0.0 | | | | | | | |
| Real Assets Composite | 6.0 | 7.9 | 8.6 | 0.4 | | | | | | |
| Real Assets Custom Blend | 2.0 | 9.3 | 0.0 | | | | | | | |



INVESTMENT MANAGER TOP 10

ASSETS UNDER MANAGEMENT AS OF DECEMBER 31, 2023

| Manager | Market Value | Portfolio % |
|----------------|--------------------|-------------|
| SSGA | \$1,762,544,594.84 | 11.98% |
| GoldenTree | \$1,414,596,141.08 | 9.62% |
| Russell | \$877,486,992.13 | 5.96% |
| Pathway | \$797,047,343.73 | 5.42% |
| Alcentra | \$721,400,149.45 | 4.90% |
| Ares | \$704,615,394.78 | 4.79% |
| Zais | \$671,358,604.31 | 4.56% |
| Partners Group | \$670,278,928.13 | 4.56% |
| Tobam | \$617,829,337.20 | 4.20% |
| Pinnacle | \$603,264,926.82 | 4.10% |
| Total | \$8,840,422,412.47 | 60.09% |



PUBLIC EQUITY PORTFOLIO

| | US Equities 17% Target) | Large Cap (14.5%) | Russell Investments Russell 1000 Index SSGA S&P500 Index Fund TOBAM Anti-Benchmark US Equity Fund | 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 companies in US Rules-based index focused on a more efficiently diversified benchmark vs. MSCI US |
|---|--|------------------------|---|--|
| | | Small Cap (2.5%) | 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 (30% Target) | | Developed Markets (7%) | Russell Investments MSCI EAFE Index SSGA MSCI World ex-USA Index Fund | Overlay exposure to an index of large/mid-cap stocks across 21 developed markets ex-US/Canada Index of publicly-traded large-cap and mid-cap equities in 22 developed countries ex-US |
| Public Eq (30% | International Equities (13% Target) | % larget) | TOBAM Anti-Benchmark World ex-US Fund | Rules-based index focused on a more efficiently diversified benchmark vs. MSCI World ex-US |
| | national Equ (13% Target) | | Russell Investments MSCI EM Index | Overlay exposure to an index of large/mid-cap stocks across 27 emerging markets |
| | Interna (1) | Emerging Markets (6%) | TOBAM Anti-Benchmark EM Equity Fund | Rules-based index focused on a more efficiently diversified benchmark vs. MSCI Emerging Markets |
| | | | William Blair EM Growth Fund | Diversified, all-cap portfolio investing in high quality growth companies in emerging markets |
| | | | Wasatch EM Select Fund | Concentrated portfolio investing in emerging market opportunities over a 3-5 year investment horizon |



GLOBAL EQUITY STRATEGIES - NET

| | Allocation | on | Performance (%) | | | | | |
|-----------------------------------|----------------------|-------------------|------------------|-----------------|------------------|------------------|------------------|------------------|
| | Market Value (\$) | % of Portfolio | 3 Mo (%) | FYTD (%) | 1 Yr (%) | 3 Yrs (%) | 5 Yrs (%) | 10 Yrs (%) |
| Total Equity | 2,393,989,696 | 16.3 | 9.9 | 5.7 | 15.6 | 2.8 | 9.4 | 4.8 |
| MSCI AC World Index (Net) | | | <u>11.0</u> | <u>7.3</u> | <u>22.2</u> | <u>5.7</u> | <u>11.7</u> | <u>7.9</u> |
| Over/Under | | | -1.1 | -1.6 | -6.6 | -2.9 | -2.3 | -3.1 |
| Domestic Equity With Beta Overlay | 1,120,910,502 | 7.6 | 10.8 | 6.7 | 17.7 | 5.1 | 11.7 | |
| Russell 3000 Index | | | <u>12.1</u> | <u>8.4</u> | <u>26.0</u> | <u>8.5</u> | <u>15.2</u> | |
| Over/Under | | | -1.3 | -1.7 | -8.3 | -3.4 | -3.5 | |
| Domestic Equity | 1,631,275,169 | 11.1 | 10.2 | 6.1 | 18.2 | 6.7 | 12.8 | 5.5 |
| Russell 3000 Index | | | <u>12.1</u> | <u>8.4</u> | <u>26.0</u> | <u>8.5</u> | <u>15.2</u> | <u>11.5</u> |
| Over/Under | | | -1.9 | -2.3 | -7.8 | -1.8 | -2.4 | -6.0 |
| Tobam AB US Equity | 336,607,403 | 2.3 | 5.6 (98) | 0.4 (97) | -2.1 (100) | -0.8 (91) | 8.7 (92) | |
| Russell 3000 Index | | | <u>12.1</u> (45) | <u>8.4</u> (39) | <u>26.0</u> (24) | <u>8.5</u> (44) | <u>15.2</u> (26) | |
| Over/Under | | | -6.5 | -8.0 | -28.1 | -9.3 | -6.5 | |
| Large Cap Equity | 1,294,401,255 | 8.8 | 11.7 (53) | 8.0 (46) | 26.2 (22) | 9.8 (30) | 14.9 (28) | 7.3 (83) |
| S&P 500 Index | | | <u>11.7</u> (52) | <u>8.0</u> (46) | <u>26.3</u> (22) | <u>10.0</u> (27) | <u>15.7</u> (19) | <u>12.0</u> (15) |
| Over/Under | | | 0.0 | 0.0 | -0.1 | -0.2 | -0.8 | -4.7 |
| SSgA S&P500 | 1,293,393,692 | 8.8 | 11.7 (52) | 8.0 (46) | 26.3 (22) | 9.9 (30) | 15.3 (24) | 9.6 (45) |
| S&P 500 Index | | | <u>11.7</u> (52) | <u>8.0</u> (46) | <u>26.3</u> (22) | <u>10.0</u> (27) | <u>15.7</u> (19) | <u>12.0</u> (15) |
| Over/Under | | | 0.0 | 0.0 | 0.0 | -0.1 | -0.4 | -2.4 |
| Russell US Large Cap Volatility | 1,007,563 | 0.0 | | | | | | |
| Small Cap Equity | 266,511 | 0.0 | | | | | | |
| Russell US Small Cap Volatility | 266,511 | 0.0 | 1.4 | 2.8 | 5.3 | 2.4 | 2.0 | -8.1 |
| | | | | | | | | |



GLOBAL EQUITY STRATEGIES - NET

| | Allocation | Allocation | | | Performance (%) | | | | | | |
|--|-----------------------------|------------------|--------------------|--------------------|---------------------|-------------------|-----------------|------------|--|--|--|
| | Market | % of | 3 Mo | FYTD | 1 Yr | 3 Yrs | 5 Yrs | 10 Yrs | | | |
| International Equity With Beta Overlay | Value (\$) 1,174,794,425 | Portfolio 8.0 | (%) 8.1 | (%) 3.9 | (%) 11.7 | 2.0 | (%) 6.2 | (%) | | | |
| MSCI AC World ex USA index | 1,174,794,425 | 0.0 | 9.8 | 5.8 | 11.7 16.2 | 2.0 | <u>7.6</u> | | | | |
| Over/Under | | | <u>9.0</u> -1.7 | <u>5.0</u> -1.9 | <u>70.2</u> -4.5 | <u>2.0</u> 0.0 | 7.0 -1.4 | | | | |
| International Equity | 762,714,527 | 5.2 | 9.3 | -1.9 4.7 | 10.9 | - 4.6 | 2.4 | 1.9 | | | |
| MSCI AC World Index (Net) | 702,714,027 | 3.2 | 11.0 | 7.3 | <u>22.2</u> | 5.7 | 11.7 | <u>7.9</u> | | | |
| Over/Under | | | -1.7 | -2.6 | -11.3 | -10.3 | -9.3 | -6.0 | | | |
| International Developed | 428,240,239 | 2.9 | 8.5 | 4.5 | 14.1 | -1.4 | 3.0 | 1.9 | | | |
| MSCI EAFE (Net) | 1_0,_ 10,0 | , | 10.4 | <u>5.9</u> | 18.2 | <u>4.0</u> | <u>8.2</u> | <u>4.3</u> | | | |
| Over/Under | | | -1.9 | -1.4 | -4.1 | -5.4 | -5.2 | -2.4 | | | |
| Russell International Volatility | 17,636 | 0.0 | | | | | | | | | |
| Tobam AB World Ex-US Equity | 179,615,096 | 1.2 | 5.7 (100) | 2.5 (83) | 8.6 (95) | -3.8 (83) | 1.3 (98) | | | | |
| MSCI AC World ex USA (Net) | | | <u>9.8</u> (62) | <u>5.6</u> (44) | <u>15.6</u> (60) | <u>1.5</u> (51) | <u>7.1</u> (73) | | | | |
| Over/Under | | | -4.1 | -3.1 | -7.0 | -5.3 | -5.8 | | | | |
| SSGA MSCI World Ex-US Equity | 248,607,507 | 1.7 | 10.5 (48) | 6.0 (40) | 18.4 (34) | | | | | | |
| MSCI World ex U.S. | | | <u>10.6</u> (47) | <u>6.1</u> (39) | <u>18.6</u> (31) | | | | | | |
| Over/Under | | | -0.1 | -0.1 | -0.2 | | | | | | |
| International Emerging | 334,474,287 | 2.3 | 10.4 | 5.0 | 8.9 | -6.7 | 1.2 | 0.8 | | | |
| MSCI Emerging Markets (Net) | | | <u>7.9</u> | <u>4.7</u> | <u>9.8</u> | <u>-5.1</u> | <u>3.7</u> | <u>2.7</u> | | | |
| Over/Under | | | 2.5 | 0.3 | -0.9 | -1.6 | -2.5 | -1.9 | | | |
| Tobam | 101,606,838 | 0.7 | 9.0 (30) | 2.0 (80) | 1.9 (98) | -8.9 (88) | -0.7 (100) | | | | |
| MSCI Emerging Markets (Net) | | | <u>7.9</u> (51) | <u>4.7</u> (50) | <u>9.8</u> (64) | <u>-5.1</u> (62) | <u>3.7</u> (77) | | | | |
| Over/Under | | | 1.1 | -2.7 | -7.9 | -3.8 | -4.4 | | | | |
| Wasatch EM Select | 120,454,980 | 0.8 | 12.6 | 8.1 | 18.8 | | | | | | |
| MSCI Emerging Markets (Net) | | | <u>7.9</u> | <u>4.7</u> | <u>9.8</u> | | | | | | |
| Over/Under | | | 4.7 | 3.4 | 9.0 | | | | | | |
| William Blair EM Growth | 112,412,470 | 8.0 | 9.3 | 4.9 | 10.7 | | | | | | |
| MSCI Emerging Markets (Net) | | | <u>7.9</u> | <u>4.7</u> | <u>9.8</u> | | | | | | |
| Over/Under | | | 1.4 | 0.2 | 0.9 | | | | | | |



GLOBAL DEBT STRATEGIES

| | | Core Fixed Income (2% | Russell Investments Bloomberg Barclays US Agg Bond TR Index | Broad-based bond market index of intermediate-term investment grade bonds in US |
|--|-------------------------------------|--|--|---|
| | | | Apollo Atlas Warehouse Co (MCA) | Global lending franchise (formerly CSFB securitized products group) originating warehouse assets |
| | | Apollo Asset-Backed Finance Fund (MCA) | Diversified portoflio of asset-backed products across consumer finance, resi/commercial, and hard/financial assets | |
| | | | 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 focused on bank loans, structured credit, and bonds |
| | | | Bardin Hill Direct Portfolio (MCA) | Co-investments in event-driven/special situation and mispriced credit opportunities |
| | | | | |
| | Ē p | | Bardin Hill Opportunistic Credit Fund (MCA) | Investments in quality, stable businesses trading at discounts and/or creative structured situations |
| Fixed High Yield Strategies/ William (13%) We describe the property of the pr | | Bardin Hill Opportunistic Credit Fund II (MCA) | Investments in quality, stable businesses trading at discounts and/or creative structured situations | |
| | | Bardin Hill Solutions Fund LP (MCA) | Credit fund with focus on event-driven/special situations | |
| | Fix S.15% | High Yield Strategies | Beach Point Select Fund LP GoldenTree Distressed Debt Fund 2010 | Credit fund with focus on mispriced credit opportunities Fund focused on global distressed, restructuring and turnaround opportunities |
| | Sn C | (13%) | Goldennee Distressed Debt Fund 2010 | runa rocusea on giobal distressea, restructuring and turnaround opportunities |
| | | | GoldenTree Asset Management SMA | SMA with opportunistic relative-value approach to bonds, loans, structured credit, distressted debt and emerging market |
| | | | Kayne Anderson BDC (MCA) | BDC investing in third-party and secondary market CLO opportunities |
| | | | Manulife Asset Management SMA | Long/short SMA specializing in securitized assets (commercial and residential MBS and agency derivatives) |
| | | | Waterfall Ready Capital Corp. (MCA) | Publicly traded REIT specializing in small balance commercial real estate loans |
| | | | Waterfall Asset Management SMA (MCA) | Separate account focused on multi-sector high yield loans and bonds |
| | | | Waterfall Mortgage Loan Opportunity Fund (MCA) | Fund investing in assets sold by non-bank mortgage companies given interest rate-related liquidity stress |
| | | | Waterfall Victoria Fund LP (MCA) | Fund investing in ABS, primarily residential whole loans originated on a primary or secondary basis |
| Global Debt Strategies (32% Target) | International Core (0% | Russell Investments (Barclays Global Aggregate ex-US | | |
| | | Unneagea) | Broad-based bond market index of investment grade debt from 24 local currency markets ex-USD | |
| | | Alcentra Limited SMA | SMA investing in European and US performing and non-performing bonds/loans, and CLO equity | |
| | | Alcentra European Direct Lending Fund | 2013 fund investing in European direct lending opportunities | |
| traf | | | Alcentra Strategic Credit Fund | 2015 fund investing in European CLOs and stressed/distressed credit opportunities |
| larg | | Alcentra Structured Credit Opportunity Fund III | 2017 fund investing in European CLO opportunities | |
| Seb. | | | Alcentra Viaduct Fund LP | 2018 fund investing in European CLO opportunities including CLO warehousing, risk retention, and equity |
| al I | | | Cairn Capital Limited SMA | SMA focused on opportunistic European credit, private asset backed, regulatory risk transfer, European CLOs |
| <u>8</u> | | | Cairn Capstone Special Opportunities Fund | Fund focused on cash-flow oriented regulatory risk transfer, private asset backed loans, and structured credit |
| G | | International | Cairn Loan Investments | European CLO Risk Retention vehicle |
| | | Credit (11%) | Cairn Loan Investments II | European CLO Risk Retention vehicle |
| | | | Cairn Pathfinder I | Barclays regulatory capital risk transfer on UK mid cap corporate RCF |
| | e e | | Cairn Pathfinder III | Barclays regulatory capital risk transfer on global (70% US) large cap corporate RCF |
| | Global Fixed Income (17% Target) | | Marathon Asset Management SMA | SMA focused on opportunistic global stressed and distressed credit, restructured real estate, and credit-related real asse |
| | - B | | Marathon CLO Equity Fund | Legacy risk retention vehicle that maintains an economic interest in Marathon issued CLO equity |
| | ixe Ta | | Marathon European Credit Opportunity Fund III | Fund focused on European commercial real estate credit |
| | al F 17% | | Marathon Structured Product Strategies Fund II | Fund focused on private asset-backed secured debt across mulitple sectors |
| | g C | | Marathon Structured Product Strategies Fund III | Fund focused on private asset-backed secured debt across mulitple sectors (transports, real estate, healthcare, etc.) |
| | <u></u> | | Finisterre EM Debt Total Return Fund | Fund focused on an all-weather strategy across the cycle in emerging markets |
| | | | Gramercy Capital Solutions Fund (MCA) | 2018 fund engaged in emerging markets corporate direct lending |
| | | | Gramercy Capital Solutions Fund II (MCA) | 2021 fund engaged in emerging markets corporate direct lending |
| | | Gramercy Distressed Argentina Fund 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 | |
| | Debt (6%) | Gramercy Distressed Opportunity Fund III (MCA) | Diversified emerging markets hedge fund | |
| | | 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 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. |



GLOBAL DEBT STRATEGIES - NET

| | Allocatio | | Performance (%) | | | | | | |
|---|----------------------|-------------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|--|
| | Market Value (\$) | % of Portfolio | 3 Mo (%) | FYTD (%) | 1 Yr (%) | 3 Yrs (%) | 5 Yrs (%) | 10 Yrs (%) | |
| Global Fixed Income With Beta Overlay | 5,504,908,705 | 37.4 | 2.9 | 4.3 | 9.0 | 7.2 | 6.0 | | |
| Blmbg. Global Aggregate | | | <u>8.1</u> | <u>4.2</u> | <u>5.7</u> | <u>-5.5</u> | <u>-0.3</u> | | |
| Over/Under | | | -5.2 | 0.1 | 3.3 | 12.7 | 6.3 | | |
| Total Fixed | 3,937,644,660 | 26.8 | 2.6 | 5.1 | 10.9 | 6.6 | 5.3 | 5.2 | |
| Blmbg. U.S. Aggregate Index | | | <u>6.8</u> | <u>3.4</u> | <u>5.5</u> | <u>-3.3</u> | <u>1.1</u> | <u>1.8</u> | |
| Over/Under | | | -4.2 | 1.7 | 5.4 | 9.9 | 4.2 | 3.4 | |
| U.S. Credit Strategies | 1,775,567,011 | 12.1 | 2.3 (98) | 5.9 (62) | 10.7 (19) | 7.8 (1) | 8.0 (1) | 6.6 (1) | |
| 50% CS Leveraged Loan / 50% ICE BofA US HY BB-B Rated Constrained Index | | | <u>5.0</u> (92) | <u>6.9</u> (18) | <u>12.9</u> (8) | <u>3.7</u> (2) | <u>5.4</u> (2) | <u>4.5</u> (1) | |
| Over/Under | | | -2.7 | -1.0 | -2.2 | 4.1 | 2.6 | 2.1 | |
| Stone Tower Offshore Credit (Apollo) | 233,147,874 | 1.6 | 2.3 | 6.3 | 13.5 | 6.3 | 5.9 | 5.5 | |
| Beach Point Capital (Formerly Post) | 279,786,343 | 1.9 | 1.0 | 4.0 | 10.3 | 6.8 | 7.6 | 7.4 | |
| Mackay / Gold Coast | 1,644 | 0.0 | | | | | | | |
| Stone Tower Credit (Apollo) | 142,229,678 | 1.0 | 0.5 | 2.2 | 9.6 | 6.6 | 9.3 | 7.3 | |
| Gold Coast Capital IV | 103,519,019 | 0.7 | 2.4 | 4.5 | 8.3 | 2.6 | 3.8 | | |
| Waterfall Asset Management | 56,948,813 | 0.4 | 3.8 | -1.0 | 6.6 | 8.7 | 8.6 | | |
| Waterfall Victoria | 69,991,254 | 0.5 | -3.9 | -6.4 | -12.4 | -0.1 | 1.5 | | |
| KAYNE ANDERSON BDC, LLC | 64,502,829 | 0.4 | 2.1 | 20.1 | 13.0 | | | | |
| Golden Tree Asset Management | 701,625,969 | 4.8 | 5.0 | 8.0 | 15.5 | 10.7 | 11.6 | 9.9 | |



GLOBAL DEBT STRATEGIES - NET

| | Allocation | Allocation | | | Performance (%) | | | | | |
|---|-----------------------------|-------------------|------------------|----------------|-----------------|------------------|-------------------|-----------------|--|--|
| | Market | % of | 3 Mo | FYTD | 1 Yr | 3 Yrs | 5 Yrs | 10 Yrs | | |
| Non-U.S. Fixed Income Composite | Value (\$) 2,162,077,649 | Portfolio 14.7 | (%) 2.9 | (%) 4.4 | (%) 10.9 | (%) 7.5 | (%) 4.5 | (%) 4.8 | | |
| Blmbg. Global Aggregate Ex USD | 2,102,077,049 | 17.7 | 9.2 | <u>4.8</u> | <u>5.7</u> | -7.2 | <u>-1.6</u> | <u>-0.8</u> | | |
| Over/Under | | | -6.3 | -0.4 | 5.2 | 14.7 | 6.1 | 5.6 | | |
| Non-U.S. Credit Composite | 1,354,498,185 | 9.2 | 3.9 | 6.3 | 14.1 | 12.8 | 7.2 | 6.6 | | |
| ICE BofA Euro High Yield Constrained TR | 1,504,476,166 | 7.2 | <u>10.1</u> | <u>8.7</u> | <u>15.9</u> | <u>-2.6</u> | <u>2.5</u> | 1.1 | | |
| Over/Under | | | -6.2 | -2.4 | -1.8 | 15.4 | <u>2.0</u> 4.7 | 5.5 | | |
| Marathon/Gold Coast | 226,304,367 | 1.5 | 0.4 | 0.3 | -1.2 | 6.0 | 6.7 | 7.4 | | |
| ICE BofA Euro High Yield Constrained TR | - , , | | <u>10.1</u> | 8.7 | <u>15.9</u> | <u>-2.6</u> | <u>2.5</u> | <u>1.1</u> | | |
| Over/Under | | | -9.7 | -8.4 | -17.1 | 8.6 | 4.2 | 6.3 | | |
| Halcyon Asset Management | 226,697,921 | 1.5 | -1.2 (100) | 1.6 (100) | 5.0 (99) | 16.2 (1) | 4.4 (7) | | | |
| ICE BofA Euro High Yield Constrained TR | , , | | <u>10.1</u> (13) | <u>8.7</u> (5) | <u>15.9</u> (4) | <u>-2.6</u> (41) | <u>2.5</u> (45) | | | |
| Over/Under | | | -11.3 | -7.1 | -10.9 | 18.8 | 1.9 | | | |
| Cairn Composite | 180,095,747 | 1.2 | 9.2 (22) | 12.3 (2) | 25.8 (1) | 12.9 (1) | 10.0 (1) | 6.6 (1) | | |
| ICE BofA Euro High Yield Constrained TR | | | <u>10.1</u> (13) | <u>8.7</u> (5) | <u>15.9</u> (4) | <u>-2.6</u> (41) | <u>2.5</u> (45) | <u>1.1</u> (80) | | |
| Over/Under | | | -0.9 | 3.6 | 9.9 | 15.5 | 7.5 | 5.5 | | |
| Alcentra - KT1 | 600,591,300 | 4.1 | 5.4 | 8.4 | 21.1 | 15.5 | 7.4 | | | |
| ICE BofA Euro High Yield Constrained TR | | | <u>10.1</u> | <u>8.7</u> | <u>15.9</u> | <u>-2.6</u> | <u>2.5</u> | | | |
| Over/Under | | | -4.7 | -0.3 | 5.2 | 18.1 | 4.9 | | | |
| Alcentra SP1 - KT1 | 1,100,053 | 0.0 | 7.8 | 7.6 | 14.0 | 29.4 | -5.4 | | | |
| ICE BofA Euro High Yield Constrained TR | | | <u>10.1</u> | <u>8.7</u> | <u>15.9</u> | <u>-2.6</u> | <u>2.5</u> | | | |
| Over/Under | | | -2.3 | -1.1 | -1.9 | 32.0 | -7.9 | | | |
| Alcentra SP2 - KT1 | 14,215,935 | 0.1 | 11.6 | 2.8 | 7.1 | 11.4 | -3.8 | | | |
| ICE BofA Euro High Yield Constrained TR | | | <u>10.1</u> | <u>8.7</u> | <u>15.9</u> | <u>-2.6</u> | <u>2.5</u> | | | |
| Over/Under | | | 1.5 | -5.9 | -8.8 | 14.0 | -6.3 | | | |
| Alcentra SP3 - KT1 | 19,264,581 | 0.1 | 12.0 | 23.0 | 41.1 | 20.2 | 10.5 | | | |
| ICE BofA Euro High Yield Constrained TR | | | <u>10.1</u> | <u>8.7</u> | <u>15.9</u> | <u>-2.6</u> | <u>2.5</u> | | | |
| Over/Under | | | 1.9 | 14.3 | 25.2 | 22.8 | 8.0 | | | |
| Alcentra SP4 - KT1 | 86,228,280 | 0.6 | 1.6 | 3.8 | 7.0 | 11.9 | | | | |
| ICE BofA Euro High Yield Constrained TR | | | <u>10.1</u> | <u>8.7</u> | <u>15.9</u> | <u>-2.6</u> | | | | |
| Over/Under | | | -8.5 | -4.9 | -8.9 | 14.5 | | | | |



GLOBAL DEBT STRATEGIES - NET

| | Allocatio | n | | | Performar | ıce (%) | | |
|---|----------------------|-------------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|
| | Market Value (\$) | % of Portfolio | 3 Mo (%) | FYTD (%) | 1 Yr (%) | 3 Yrs (%) | 5 Yrs (%) | 10 Yrs (%) |
| Emerging Markets Debt Composite | 807,579,464 | 5.5 | 1.2 (100) | 1.5 (98) | 6.2 (96) | 0.5 (8) | 1.0 (86) | 2.1 (64) |
| 50% JPM EMBI Global Diversified/50% JPM GBI - EM Global Diversified | | | <u>8.6</u> (51) | <u>5.6</u> (52) | <u>11.9</u> (45) | <u>-3.3</u> (75) | <u>1.4</u> (82) | <u>1.7</u> (70) |
| Over/Under | | | -7.4 | -4.1 | -5.7 | 3.8 | -0.4 | 0.4 |
| Ashmore Emerging Markets Liquid Investments | 6,710 | 0.0 | | | | | | |
| JP Morgan GBI - EM Global Diversified Index | | | <u>8.1</u> (57) | <u>4.6</u> (78) | <u>12.7</u> (35) | <u>-3.2</u> (73) | <u>1.1</u> (86) | <u>0.1</u> (91) |
| Over/Under | | | | | | | | |
| Gramercy Funds Management LLC | 577,108,114 | 3.9 | -0.4 (100) | 0.2 (100) | 4.6 (99) | 3.0 (2) | 1.1 (86) | 2.9 (44) |
| JP Morgan ELMI+ TR USD | | | <u>5.3</u> (88) | <u>4.3</u> (82) | <u>8.4</u> (77) | <u>-0.8</u> (20) | <u>0.9</u> (90) | <u>0.0</u> (91) |
| Over/Under | | | -5.7 | -4.1 | -3.8 | 3.8 | 0.2 | 2.9 |
| PGIM Fixed Income | 112,875,040 | 0.8 | 4.7 (92) | 6.1 (40) | 12.5 (37) | 0.0 (12) | 4.3 (8) | |
| 50% JPM EMBI Global Diversified/ 50% JPM GBI-EM Global Diversified | | | <u>8.6</u> (51) | <u>5.6</u> (52) | <u>11.9</u> (45) | <u>-3.3</u> (75) | <u>1.4</u> (82) | |
| Over/Under | | | -3.9 | 0.5 | 0.6 | 3.3 | 2.9 | |
| Finisterre EM Debt Total Return Fund | 117,589,600 | 0.8 | 6.8 | 3.9 | 9.6 | | | |
| 50% JPM EMBI Global Diversified/ 50% JPM GBI-EM Global Diversified | | | <u>8.6</u> | <u>5.6</u> | <u>11.9</u> | | | |
| Over/Under | | | -1.8 | -1.7 | -2.3 | | | |



ABSOLUTE RETURN (ALPHA POOL)

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



ALPHA POOL STRATEGIES - NET

| | Allocatio | n | | | Perform | ance (%) | | |
|-------------------------------|----------------------|-------------------|-------------|-------------|-------------|--------------|--------------|---------------|
| | Market Value (\$) | % of Portfolio | 3 Mo (%) | FYTD (%) | 1 Yr (%) | 3 Yrs (%) | 5 Yrs (%) | 10 Yrs (%) |
| Alpha Pool Composite | 2,154,649,699 | 14.6 | 2.0 | 5.4 | 10.8 | 5.4 | 5.2 | 4.5 |
| 91 Day T-Bill + 3% | | | <u>2.1</u> | <u>4.2</u> | <u>8.2</u> | <u>5.2</u> | <u>4.9</u> | <u>4.3</u> |
| Over/Under | | | -0.1 | 1.2 | 2.6 | 0.2 | 0.3 | 0.2 |
| Alpha Liquidity (Ssga) | 220,543,396 | 1.5 | 1.5 | 2.8 | 5.2 | 2.2 | 2.1 | 1.4 |
| Apollo Global Management | 2,353,264 | 0.0 | | | | | | |
| Ares Eco Master Fund II | 570,981,353 | 3.9 | 3.0 | 5.9 | 11.4 | 4.1 | 6.3 | |
| Birch Grove Credit Strategies | 255,663,585 | 1.7 | 2.1 | 8.4 | 9.8 | 5.1 | 5.7 | 5.5 |
| Corrum Capital | 282,857,264 | 1.9 | -4.1 | -3.5 | 0.3 | 2.3 | -0.7 | 2.6 |
| Zais | 145,814,561 | 1.0 | 2.7 | 8.0 | 12.8 | 4.4 | 1.6 | 3.4 |
| Zais Group Invest Advisors | 456,988,958 | 3.1 | 4.9 | 10.6 | 19.0 | 11.4 | 9.3 | 8.1 |
| Zais Zephyr 8 | 35,167,102 | 0.2 | 9.6 | 9.6 | 13.1 | 6.4 | | |
| Zais Zephyr 9 | 33,387,984 | 0.2 | -0.8 | -0.8 | 21.1 | | | |
| Apollo Accord+ | 150,892,233 | 1.0 | 1.7 | 7.0 | 16.4 | | | |



PRIVATE ASSETS

| | | | Adams Street SMA (MCA) | Global investment opportunities in venture, growth equity, buyout, and private credit |
|-----------------------------|--|--------------------------------------|---|---|
| | | | Industry Ventures Arrowhead LP (MCA) | Fund investing in direct and secondary co-investments across the venture and buyout sectors |
| | | Diversified | Partners Group SMA (MCA) | Global SMA in private markets; primarily in private equity but also includes infrastructure and real estate |
| | | Diversified | 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 2008 | 2008 fund of funds investing in European-focused primary funds |
| | | | Industry Ventures Tech Buyout, LP (MCA) | 2018 fund investing in small high growth tech companies |
| | | | Industry Ventures Tech Buyout II, LP (MCA) | 2022 fund investing in small high growth tech companies |
| | | | 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 |
| | | | Kayne Growth Co-Investments (MCA) | Co-investment commitments (2022 and later) invested alongside Kayne Partners Funds |
| | | Buyout Funds | Partners Group Direct Equity 2016 (MCA) | Global portfolio of direct private equity deals |
| | | | Partners Group Direct Equity Fund IV (MCA) | Global portfolio of direct private equity deals (previously Direct Equity 2019) |
| | | | Partners Group Direct Investments 2012 LP (MCA) | Global portfolio of direct private equity deals |
| | | | Waterfall PE Co-Investments (MCA) | Co-investment opportunities in US lower middle market specialty finance companies |
| | | | Waterfall Sentinel Fund (MCA) | 2019 fund investing in US lower middle market specialty finance focused companies |
| | | | Industry Ventures Direct LP (MCA) | 2015 fund investing in venture capital opportunities 2016 fund investing in venture capital opportunities |
| | | | Industry Ventures Direct IT (MCA) | 2019 fund investing in venture capital opportunities |
| | _ ₹ | | Industry Ventures Direct II EP (MCA) | 2021 fund investing in venture capital opportunities |
| / | - - - - | | Industry Ventures Direct III LP (MCA) | 2021 total investing in venture capital opportunities Fund of funds focused on small but well-established US venture capital funds |
| | e e | | | Fund of funds focused on small but well-established US venture capital funds |
| | Private Equity | | Industry Ventures Fund VI LP (MCA) | |
| | <u>F</u> | Venture Funds | Industry Ventures Partnership Holdings II LP (MCA) | 2011 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments |
| | | | Industry Ventures Partnership Holdings III LP (MCA) | 2013 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments |
| | | | Industry Ventures Partnership Holdings III-A LP (MCA) | 2014 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments |
| | | | Industry Ventures Partnership Holdings IV LP (MCA) | 2016 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments |
| | | | Industry Ventures Partnership Holdings V LP (MCA) | 2019 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments |
| | | | Industry Ventures Partnership Holdings VI LP (MCA) | 2021 fund investing in venture capital primary funds, secondary funds and direct investments, and direct investments |
| Ð | | | Industry Ventures Special Opportunities Fund II-A LP (MCA) | 2016 fund investing in venture capital opportunistic transactions in the secondary market |
| ge e | | Secondary Funds | Aberdeen Standard Secondary Opportunities Fund IV | 2020 fund investing in secondary purchases of PE fund of funds and other complex transactions |
| Ta I | | | Industry Ventures Secondary VII LP (MCA) | 2013 fund investing in secondary transactions in venture capital opportunities |
| Private Assets (18% Target) | | | Industry Ventures Secondary VIII LP (MCA) | 2017 fund investing in secondary transactions in venture capital opportunities |
| <u>.</u> | | | Industry Ventures Secondary IX LP (MCA) | 2021 fund investing in secondary transactions in venture capital opportunities |
| ets | | | Industry Ventures Secondary X LP (MCA) | 2023 fund investing in secondary transactions in venture capital opportunities |
| Ass | | | Lexington Capital Partners VII | Fund of funds focused mainly on buyout funds in US and Western Europe |
| 활 | | | Lexington Middle Market Investors II | Fund of funds focused on secondary interest in US middle-market buyouts |
| iji | | | SL Capital Secondary Opportunities Fund III | 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 | Kayne Anderson Private Energy Income Fund II (MCA) | 2018 fund investing in US upstream energy companies, focused on income from large asset acq/development |
| | | Sector Specific Failus | Kayne Anderson Private Energy Income Fund III (MCA) | 2023 fund investing in US upstream energy companies, focused on income from large asset acq/development |
| | | | Tennenbaum Energy Opportunities Fund LP (MCA) | 2015 fund investing in senior secured notes and first/second lien debt of US companies in the energy sector |
| | | | | |
| | | | Ares Private Credit Solutions Fund (MCA) | Junior debt investments in large private companies |
| | | | Ares Private Credit Solutions Fund 2 (MCA) | Junior debt investments in large private companies |
| | | | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) | Junior debt investments in large private companies Senior secured 1L loans to primarily sponsor-backed private companies |
| | | Direct Landing | Ares Private Credit Solutions Fund 2 (MCA) | Junior debt investments in large private companies |
| | | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) | Junior debt investments in large private companies Senior secured 1L loans to primarily sponsor-backed private companies |
| | | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners | Junior debt investments in large private companies Senior secured 1L loans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies |
| | | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) | Junior debt investments in large private companies Senior secured 11 loans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) |
| | | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC | Junior debt investments in large private companies Senior secured 11 loans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) |
| | _ | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2002 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1. I loans to middle-market companies, primarily in the US |
| | 199 | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF II (MCA) | Junior debt investments in large private companies Senior secured 1.1 loans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1L loans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits |
| | e Debt | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOFI II (MCA) Ares ICOFI II (MCA) | lunior debt investments in large private companies Senior secured 1. loans to primarily sponsor-backed private companies 2002 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1L loans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits |
| | vate Deb t | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF III (MCA) Ares ICOF III (MCA) Ares SMA (MCA) | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2002 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1L loans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in Ilquid credit and income-focused opportunities |
| | Private Debt | Direct Lending | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF III (MCA) Ares SMA (MCA) Ares SMA (MCA) Ares Special Situations Fund IV (MCA) | Junior debt investments in large private companies Senior secured 1.1 loans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1L loans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations |
| | Private Debt | | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF II (MCA) Ares SOF III (MCA) Ares SMA (MCA) Ares Special Situations Fund IV (MCA) Catalyst Fund LP II | lunior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1L loans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities |
| | Private Debt | Credit/Distressed/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund IXI, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF III (MCA) Ares ICOF III (MCA) Ares SMA (MCA) Ares Special Situations Fund IV (MCA) Catalyst Fund LP II Crestline Portfolio Financing Fund | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1. Ioans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs |
| | Private Debt | Credit/Distressed/ Opportunistic/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund IVII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF III (MCA) Ares ICOF III (MCA) Ares Special Situations Fund IV (MCA) Catalyst Fund LP II Crestline Portfolio Financing Fund Crestline Portfolio Financing Fund II | Junior debt investments in large private companies Senior secured 1.1 loans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1.1 loans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs Financing to late-stage private equity funds and GPs |
| | Private Debt | Credit/Distressed/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) 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 Irradiant CLO Partners II (MCA) | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1. Ioans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs Financing to late-stage private equity funds and GPs 2020 fund investing in CLOs issued by Irradiant |
| | Private Debt | Credit/Distressed/ Opportunistic/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF III (MCA) Ares ICOF III (MCA) Ares SMA (MCA) Ares Special Situations Fund IV (MCA) Catalyst Fund LP II Crestline Portfolio Financing Fund II Irradiant CLO Partners III (MCA) Irradiant CLO Partners III (MCA) | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1. Ioans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Structured credit in I cluid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs Financing to late-stage private equity funds and GPs 2020 fund investing in CLOs issued by Irradiant 2023 fund investing in CLOs issued by Irradiant |
| | Private Debt | Credit/Distressed/ Opportunistic/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund VIII, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF II (MCA) Ares SOF III (MCA) Ares SMA (MCA) Ares SMA (MCA) Catalyst Fund LP II Crestline Portfolio Financing Fund Crestline Portfolio Financing Fund II Irradiant CLO Partners II (MCA) Irradiant CLO Partners III (MCA) Irradiant CLO Partners Climate Co (MCA) | lunior debt investments in large private companies Senior secured 1. loans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1L loans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs Financing to late-stage private equity funds and GPs 2020 fund investing in CLOs issued by Irradiant 2023 fund investing in CLOs issued by Irradiant 2023 fund investing in climate-oriented solutions focused on energy transition opporutnity |
| | Private Debt | Credit/Distressed/ Opportunistic/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) 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 Irradiant CLO Partners III (MCA) Irradiant COD Partners III (MCA) Irradiant Solutions Fund E(MCA) Irradiant Solutions Fund E(MCA) Irradiant Solutions Fund E(MCA) Irradiant Solutions Fund E(MCA) | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1. Ioans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs Financing to late-stage private equity funds and GPs 2020 fund investing in CLOs issued by Irradiant 2023 fund investing in CLOs issued by Irradiant 2023 fund investing in climate-oriented solutions focused on energy transition opportunity 2017 fund investing in special situation opportunities in US credit 2023 fund investing in special situation opportunities in US credit |
| | Private Debt | Credit/Distressed/ Opportunistic/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund III, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF III (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 Irradiant CLO Partners III (MCA) Irradiant CLO Partners III (MCA) Irradiant Solutions Fund (MCA) | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2002 fund investing in the equity and debt of renewable power generating companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1. Ioans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs Financing to late-stage private equity funds and GPs 2020 fund investing in CLOs issued by Irradiant 2023 fund investing in CLOs issued by Irradiant 2023 fund investing in closi secued on energy transition opportunity 2017 fund investing in special situation opportunities in US credit |
| | Private Debt | Credit/Distressed/ Opportunistic/ | Ares Private Credit Solutions Fund 2 (MCA) Ares Senior Direct Lending Fund III (MCA) Irradiant Renewables Opportunities Partners Tennenbaum Direct Lending Fund III, LLC (MCA) Tennenbaum Direct Lending Fund IX, LLC Tennenbaum Waterman Fund LP (MCA) Ares ICOF II (MCA) Ares ICOF III (MCA) Ares Special Situations Fund IV (MCA) Catalyst Fund LP II Crestline Portfolio Financing Fund Crestline Portfolio Financing Fund II Irradiant CLO Partners III (MCA) Irradiant CLO Partners III (MCA) Irradiant Solutions Fund II (MCA) LuminArx Opportunistic Alternative Solutions Fund | Junior debt investments in large private companies Senior secured 1. Ioans to primarily sponsor-backed private companies 2020 fund investing in the equity and debt of renewable power generating companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (levered share class) Privately-originated, performing senior secured debt in mid-market (100mm-1.5bn) companies in NA (unlevered share class) Senior 1. Ioans to middle-market companies, primarily in the US Structured credit in CLO vehicles and private asset-backed credits Structured credit in CLO vehicles and private asset-backed credits Separate account in liquid credit and income-focused opportunities Global distressed debt and special situations 2006 fund investing in Canadian stressed/distressed investment opportunities Financing to late-stage private equity funds and GPs Financing to late-stage private equity funds and GPs 2020 fund investing in CLOs issued by Irradiant 2023 fund investing in CLOs issued by Irradiant 2023 fund investing in special situation opportunities in US credit 2021 fund investing in special situation opportunities in US credit 14 yorid fund investing in special situation opportunities in US credit 14 yorid fund investing in capital solutions opportunities in US credit 15 yorid fund investing in capital solutions opportunities in US credit 16 yorid fund investing in capital solutions opportunities in US credit 17 yorid fund investing in capital solutions opportunities in US credit 18 yorid fund investing in capital solutions opportunities in US credit 2021 fund investing in capital solutions opportunities in US credit |



REAL ESTATE PORTFOLIO

| | | | 348 West Hospitality Lane | SBCERA headquarters |
|-------|-------------|--|--|---|
| | (% | | Invesco Real Estate Asia Fund | Asia-focused open-ended core real estate fund |
| | (2.5) | | Kayne Anderson Real Estate Debt III (MCA) | 2018 fund investing in first-lien US residential mortgage debt |
| | ate | | Kayne Anderson Real Estate Debt IV (MCA) | 2020 fund investing in first-lien US residential mortgage debt |
| | Est | Core Real Estate | Kayne Anderson Commercial Real Estate Debt (MCA) | Open-ended fund investing in direct loan origination and Freddie-Mac structured products |
| | eal | | Marathon Real Estate Debt Fund | Fund investing in senior secured first mortgage loans in the US |
| rget) | ē R | | PGIM Real Estate Capital VI LP | European (UK and Germany focused) mezzanine lending fund for value-add real estate projects |
| Tan | Ō | | PGIM Real Estate Capital VII LP | European (UK and Germany focused) mezzanine lending fund for value-add real estate projects |
| 28 | | | PRISA II | US core-plus open-ended real estate equity fund with low leverage |
| 9 | | | Apollo Real Estate Fund II LP (MCA) | 2015 fund investing in value-add US real estate opportunities |
| ft f | | | Apollo Real Estate Fund III LP (MCA) | 2020 fund investing in value-add US real estate opportunities |
| Po | .5%) | | Fortress Japan Opportunity Fund II | 2011 fund investing in value-add Japanese real estate opportunities |
| tate | (2.1 | Enhanced Real | Invesco US Real Estate VI | 2020 fund investing in value-add US real estate opportunities |
| Est | äte | Estate/ High Return | Kayne Anderson Real Estate Partners V LP (MCA) | 2017 fund investing in value-add US real estate opportunities |
| Rea | Est | mgn netum | Kayne Anderson Real Estate Partners VI LP (MCA) | 2021 fund investing in value-add US real estate opportunities |
| | }ea | | Morgan Stanley RE Fund V International | 2005 fund investing in value-add International real estate opportunities |
| | a e | | PRISA III | Value-add US real estate equity fund |
| |) - - | | Partners Group Real Estate Secondary 2013 A LP | Global private real estate fund interests purchased on the secondary market at discounts to intrinsic value |
| | Š | Real Estate | (MCA) | broom private real estate rand interests parenased on the secondary market at discounts to intrinsic value |
| | Secondaries | Partners Group Real Estate Secondary 2017 A LP | | |
| | | | (MCA) | Global private real estate fund interests purchased on the secondary market at discounts to intrinsic value |



REAL ASSETS PORTFOLIO

| | 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) |
| Real Asset Portfolio (6% Target) | Infrastructure (2%) | | |
| | | Kayne Anderson MLP Strategy (MCA) | Separate account opportunistically investing in publicly traded US MLP securities |
| | Timber (0% Target) | Domain Environmental Investors II | Fund focused on acquiring, developing, and operating a variety of environmental assets (wetlands, fisheries, restorations) |



ALTERNATIVES - NET

| | Allocatio | n | | | Perform | ance (%) | | |
|----------------------------------|----------------------|-------------------|--------------|-------------|--------------|--------------|--------------|---------------|
| | Market Value (\$) | % of Portfolio | 3 Mo (%) | FYTD (%) | 1 Yr (%) | 3 Yrs (%) | 5 Yrs (%) | 10 Yrs (%) |
| Private Equity Composite | 2,784,472,716 | 18.9 | 1.6 | 4.5 | 6.2 | 17.1 | 15.4 | 14.3 |
| C A Global All PE (Qtr Lag) | | | <u>-0.4</u> | <u>0.9</u> | <u>3.9</u> | <u>14.4</u> | <u>13.1</u> | <u>12.9</u> |
| Over/Under | | | 2.0 | 3.6 | 2.3 | 2.7 | 2.3 | 1.4 |
| Russell 3000 Index | | | <u>12.1</u> | <u>8.4</u> | <u> 26.0</u> | <u>8.5</u> | <u>15.2</u> | <u>11.5</u> |
| Over/Under | | | -10.5 | -3.9 | -19.8 | 8.6 | 0.2 | 2.8 |
| C A US All PE (1 Qtr Lag) | | | <u>0.8</u> | <u>3.2</u> | <u>7.2</u> | <u>17.6</u> | <u>14.6</u> | <u>14.0</u> |
| Over/Under | | | 0.8 | 1.3 | -1.0 | -0.5 | 8.0 | 0.3 |
| Real Estate Composite | 588,421,391 | 4.0 | -1.7 | -2.3 | -5.4 | 7.5 | 6.5 | 7.8 |
| NCREIF Property Index 1 Qtr. Lag | | | <u>-1.4</u> | <u>-3.3</u> | <u>-8.4</u> | <u>6.0</u> | <u>5.3</u> | <u>7.4</u> |
| Over/Under | | | -0.3 | 1.0 | 3.0 | 1.5 | 1.2 | 0.4 |
| Real Assets Composite | 689,511,744 | 4.7 | 1.2 | 2.9 | 7.5 | 13.7 | 11.3 | 6.0 |
| Real Assets Custom Blend | | | <u>-5.8</u> | <u>3.3</u> | <u>-1.3</u> | <u>6.7</u> | <u>5.5</u> | <u>2.0</u> |
| Over/Under | | | 7.0 | -0.4 | 8.8 | 7.0 | 5.8 | 4.0 |
| Infrastructure | 81,812,441 | 0.6 | 3.9 | 9.1 | 15.0 | 19.7 | 15.4 | 7.0 |
| Real Assets Custom Blend | | | <u>-5.8</u> | <u>3.3</u> | <u>-1.3</u> | <u>6.7</u> | <u>5.5</u> | <u>2.0</u> |
| Over/Under | | | 9.7 | 5.8 | 16.3 | 13.0 | 9.9 | 5.0 |
| Commodities | 603,671,650 | 4.1 | 0.9 | 2.2 | 6.8 | 12.4 | 12.2 | 7.1 |
| S&P GSCI Composite TR Index | | | <u>-10.7</u> | <u>3.5</u> | <u>-4.3</u> | <u>19.2</u> | <u>8.7</u> | <u>-3.6</u> |
| Over/Under | | | 11.6 | -1.3 | 11.1 | -6.8 | 3.5 | 10.7 |





APPENDIX: PERFORMANCE SUMMARY

Real Estate

Real Assets

Private Equity

REAL ESTATE PERFORMANCE

| Tuckman Mulii-Family Development Fund III 2002 10,000,000 10,219,311 0 0 16,939,699 0 16,039,699 1 26,000,000 12,000 20 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 12,000,000 15,000,000 1 | Investment Name | Vintage Year | Commitment Amount | Paid in Capital | Capital to be Funded | Additional Fees | Cumulative Distributions | Valuation | Total Value | TVPI Ratio | IRR |
|--|---|-----------------|----------------------|-----------------|-------------------------|--------------------|--------------------------|-------------|-------------|------------|---------|
| CREE Strategic Partners 2003 10,000,000 0 0 0 12,888,783 7 12,888,783 127 8,00 12,90 7,00 12,9 | American Realty Advisors | 1996 | 128,009,773 | 128,009,773 | 0 | 0 | 278,446,295 | 0 | 278,446,295 | 2.18 | 6.89% |
| Prudental PRISA III | Tuckerman Multi-Family Development Fund III | 2002 | 10,000,000 | 10,219,311 | 0 | 0 | 16,939,699 | 0 | 16,939,699 | 1.66 | 26.67% |
| Walton Street Real Estate Fund IV, LP | CBRE Strategic Partners III | 2003 | 10,000,000 | 10,000,000 | 0 | 0 | 12,698,783 | 0 | 12,698,783 | 1.27 | 8.02% |
| Payaston Retail Opportunity Fund, L.P. 2004 20,000,000 40,000,000 40,000,000 61,002,942 67,840,683 19,656,410 25,9497,073 77,747,876,748,748 77,748,748,748 77,748,748,748 77, | Prudential PRISA III | 2003 | 75,000,000 | 68,971,338 | 6,028,662 | 3,778,589 | 72,664,384 | 72,271,263 | 144,935,647 | 1.99 | 17.21% |
| Prüdential PRISA II 2004 14,000,000 140,000,000 0 6,102,942 67,840,683 191,656,410 299,497,073 1,78 7.44 RREEF America REIT III 2004 20,000,000 20,539,399 0 0 0 0,526,568,675 0 23,658,675 0 23,675,675 0 23,677,777 0 28,658,675 0 23,677,675 | Walton Street Real Estate Fund IV, LP | 2003 | 10,000,000 | 9,770,890 | 0 | 0 | 15,987,617 | 0 | 15,987,617 | 1.64 | 10.71% |
| RREEF America REIT III 2004 2,000,000 2,503,039 0 0 2,568,675 0 23,658,675 1.15 3,00 1 1,000,000 1 0 15,233,347 0 1,523,347 0,61 9,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1 | Bryanston Retail Opportunity Fund, L.P. | 2004 | 20,000,000 | 8,228,165 | 11,771,835 | 0 | 39,932,161 | 114,753 | 40,046,914 | 4.87 | 70.73% |
| BlackRock Diamond Property Fund | Prudential PRISA II | 2004 | 140,000,000 | 140,000,000 | 0 | 6,102,942 | 67,840,663 | 191,656,410 | 259,497,073 | 1.78 | 7.49% |
| CBRE Strategic Partners V | RREEF America REIT III | 2004 | 20,000,000 | 20,539,309 | 0 | 0 | 23,658,675 | 0 | 23,658,675 | 1.15 | 3.00% |
| INVESCO Real Estate Fund 2005 10,000,000 9,248,399 0 0 10,015,666 0 10,015,666 1.08 1.55. | BlackRock Diamond Property Fund | 2005 | 25,000,000 | 25,000,000 | 0 | 0 | 15,233,347 | 0 | 15,233,347 | 0.61 | -9.31% |
| LaSalle Income & Growth Fund IV 2005 20,000,000 19,489,417 0 0 13,482,024 0.98 3.55 North Haven Real Estate Fund V International 2005 27,500,000 27,377,414 122,586 86,449 33,12,232 279,931 33,331,163 13,125,215 125,290,819 2,590,819 0 0 33,126,118 0 33,126,118 1,31 4.8 Prologis, Japan Fund 2005 25,200,819 25,200,819 2,500,000 33,126,118 0 33,126,118 1,31 4.8 Tri. Continental Capital VII 2005 23,000,000 22,277,928 72,072 0 3,168,188 471,659 3,639,857 0,16 4.4 48,200,000 1 31,424,699 0 31,424,699 | CBRE Strategic Partners IV | 2005 | 40,000,000 | 40,000,000 | 0 | 0 | 2,609,685 | 0 | 2,609,685 | 0.07 | -27.76% |
| North Haven Real Estate Fund V International 2005 27,500,000 27,377,414 122,586 86,449 33,142,322 278,931 33,391,163 1.22 6.8. Prologis Japan Fund 2005 25,290,819 25,290,819 0 0 0 33,126,118 0 33,126,118 0 33,126,118 1.31 4.8. Prologis Japan Fund 2005 23,000,000 22,277,928 722,072 0 3,168,198 471,659 3,639,857 0.16 -14.48 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 | INVESCO Real Estate Fund I | 2005 | 10,000,000 | 9,248,390 | 0 | 0 | 10,015,656 | 0 | 10,015,656 | 1.08 | 1.54% |
| Prologis Japan Fund 2005 25,290,819 25,290,819 0 0 33,126,118 0 33,126,118 1.31 4.8 Tri Continental Capital VIII 2005 23,000,000 22,277,928 722,072 0 3,168,198 471,659 3,639,857 0.16 -14.4 4.8 Tri Continental Capital VIII 2006 33,000,000 38,000,000 0 0 32,080,321 0 32,080,321 2.44 10.9 Beacon Capital Strategic Partners IV, L.P. 2006 38,000,000 38,000,000 0 0 31,424,699 0 31,424,6 | LaSalle Income & Growth Fund IV | 2005 | 20,000,000 | 19,469,417 | 0 | 0 | 13,482,024 | 0 | 13,482,024 | 0.69 | -5.51% |
| Tri Continental Capital VII add 2005 23,000,000 22,277,928 722,072 0 3,168,198 471,659 3,639,857 0.16 -14.44 American Realty Value Add 2006 13,125,215 13,125,215 0 0 0 32,080,321 0 32,080,321 2.44 10.93 Beacon Capital Strategic Partners IV, L.P. 2006 38,000,000 38,000,000 0 0 31,424,699 0 31,424,699 0.83 -3.24 Fillmore East Fund 2006 25,000,000 31,000,000 0 0 0 27,879,087 2,591,269 30,470,356 1.02 0.24 Starwood Opportunity Fund VII - A 2006 25,000,000 25,000,000 0 0 0 7,879,087 2,591,269 30,470,356 1.02 0.22 Starwood Opportunity Fund VII - A 2006 40,000,000 25,000,000 0 0 0 19,601,350 475,716 20,077,067 3.66 8.80 -2.34 8.34 8.34 8.34 8.34 8.34 8.34 8.34 8 | North Haven Real Estate Fund V International | 2005 | 27,500,000 | 27,377,414 | 122,586 | 86,449 | 33,112,232 | 278,931 | 33,391,163 | 1.22 | 6.83% |
| American Reality Value Add 2006 13,125,215 13,125,215 0 0 32,080,321 0 32,080,321 2,44 10,91 | Prologis Japan Fund | 2005 | 25,290,819 | 25,290,819 | 0 | 0 | 33,126,118 | 0 | 33,126,118 | 1.31 | 4.81% |
| Beacon Capital Strategic Partners IV, L.P. 2006 38,000,000 31,403,818 0 0 20,777,177 20,777,177 20, | Tri Continental Capital VII | 2005 | 23,000,000 | 22,277,928 | 722,072 | 0 | 3,168,198 | 471,659 | 3,639,857 | 0.16 | -14.49% |
| Beacon Capital Strategic Partners IV, L.P. 2006 38,000,000 31,403,818 0 0 20,777,177 20,777,177 20, | American Realty Value Add | 2006 | 13,125,215 | 13,125,215 | 0 | 0 | 32,080,321 | 0 | 32,080,321 | 2.44 | 10.92% |
| Fillmore East Fund 2006 25,000,000 31,403,818 0 0 20,777,177 0 20 20,777,177 0.66 9-7.7 Starwood Capital Hospitality Fund I-2 2006 30,000,000 0 0 0 27,879,087 2,591,269 30,470,7356 1.08 0-2.3 Starwood Opportunity Fund VII - A 2006 25,000,000 25,000,000 0 0 19,601,355 475,716 20,007,066 0.80 -2.3 Walton Street Real Estate Fund V, LP 2006 40,000,000 40,000,000 0 0 27,769,957 818,433 28,579,390 0.71 -3.6 Beacon Capital Strategic Partners V, LP. 2007 18,000,000 1 8,000,000 0 0 0 11,174,695 0 11,174,695 0 11,174,695 1 11,174 | | 2006 | 38,000,000 | 38,000,000 | 0 | 0 | 31,424,699 | 0 | 31,424,699 | 0.83 | -3.26% |
| Starwood Opportunity Fund VII - A 2006 25,000,000 25,000,000 0 0 19,601,350 475,716 20,007,066 0.80 -2.30 | | 2006 | | | 0 | 0 | 20,777,177 | 0 | | 0.66 | -9.78% |
| Walton Street Real Estate Fund V, LP | Starwood Capital Hospitality Fund I-2 | 2006 | 30,000,000 | 30,000,000 | 0 | 0 | 27,879,087 | 2,591,269 | 30,470,356 | 1.02 | 0.20% |
| Beacon Capital Strategic Partners V, L.P. 2007 18,000,000 18,000,000 0 0 0 11,174,695 0 0.62 -7.8 Invesco Asian Real Estate Partners II (USD), LP 2007 20,000,000 8,412,833 0 -11,533 11,465,147 0 11,465,147 1.36 7.5 Invesco High Yield Debt Fund I 2007 20,000,000 0 0 0 8,567,605 0 8,567,605 0 43 -35.5 Square Mile Partners II 2007 19,831,232 19,831,232 0 0 0 5,311,330 0 5,311,330 0.27 -19.1 Fillmore West Fund 1 2008 20,000,000 19,561,557 0 0 0 21,175,799 0 21,175,799 1.08 1.1 Square Mile Partners III LP 2008 20,000,000 19,561,557 0 0 0 28,873,622 0 28,873,622 1.46 11.55 Starwood Debt Fund II, LP 2008 20,000,000 17,599,882 0 0 0 21,912,511 0 21,912,511 1.25 6.4 Starwood Debt Fund II, LP 2008 20,000,000 20,000,000 0 0 16,320,664 0 16,320,664 0.8 2 4.99 Bryanston Real Estate Opportunity Fund II, L.P. 2009 20,000,000 20,000,000 0 11,851,333 0 11,851,333 1.38 10.20 Fortress Japan Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,828,408 17.71 25.34 Fortres Group RE Secondary 2013 (USD) A 2014 65,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.11 Partners Group RE Secondary 2013 (USD) A 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.3 Hollow Real Estate Capital VI LP 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.00 Rayne Anderson Real Estate Dut II 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.2 Rayne Anderson Real Estate Eut III 2018 20,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9,47 Rayne Anderson Real Estate Eut Dut II 2018 20,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9,47 Rayne Anderson Real Estate Eut III 2018 20,000,000 44,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9,47 Rayne Anderson Real Estate Eut III 2018 20,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9,47 Rayne Anderson Real Estate Debt IV 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.22 Pr | | 2006 | 25,000,000 | 25,000,000 | 0 | 0 | 19,601,350 | | 20,077,066 | 0.80 | -2.36% |
| Invesco Asian Real Estate Partners II (USD), LP 2007 20,000,000 8,412,833 0 -11,533 11,465,147 0 11,465,147 1.36 7.55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Walton Street Real Estate Fund V, LP | 2006 | 40,000,000 | 40,000,000 | 0 | 0 | 27,760,957 | 818,433 | 28,579,390 | 0.71 | -3.64% |
| Invesco Asian Real Estate Partners II (USD), LP 2007 20,000,000 8,412,833 0 -11,533 11,465,147 0 11,465,147 1,36 7.55 (Invesco High Yield Debt Fund I 2007 20,000,000 20,000,000 0 0 8,567,605 0 8,567,605 0 0,367,605 0,43 -35,57 (Invesco High Yield Debt Fund I 2007 19,831,232 19,831,232 0 0 0 5,311,330 0 5, | Beacon Capital Strategic Partners V, L.P. | 2007 | 18,000,000 | 18,000,000 | 0 | 0 | 11,174,695 | 0 | 11,174,695 | 0.62 | -7.87% |
| Square Mile Partners II 2007 19,831,232 19,831,232 0 0 5,311,330 0 5,311,330 0.27 -19.11 Fillmore West Fund 2008 20,000,000 19,561,557 0 0 21,175,799 0 21,175,799 1.08 1.1.1 Square Mile Partners III LP 2008 20,000,000 19,730,190 0 0 28,873,622 0 28,873,622 1.46 11,55 6.48 Structured Real Estate III, LP (Guggenheim) 2008 20,000,000 20,000,000 0 0 21,912,511 0 21,912,511 1.25 6.48 Structured Real Estate Deportunity Fund II, L.P. 2008 20,000,000 20,000,000 0 0 16,320,664 0 11,951,333 0 11,951,333 10,21 2,499 Bryanston Real Estate Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,282,408 17.71 25,300,000 25,000,000 0 503,255 39,431,074 173,182 <td>Invesco Asian Real Estate Partners II (USD), LP</td> <td>2007</td> <td>20,000,000</td> <td>8,412,833</td> <td>0</td> <td>-11,533</td> <td>11,465,147</td> <td>0</td> <td>11,465,147</td> <td>1.36</td> <td>7.52%</td> | Invesco Asian Real Estate Partners II (USD), LP | 2007 | 20,000,000 | 8,412,833 | 0 | -11,533 | 11,465,147 | 0 | 11,465,147 | 1.36 | 7.52% |
| Filmore West Fund 2008 20,000,000 19,561,557 0 0 21,175,799 0 21,175,799 1.08 1.1- Square Mile Partners III LP 2008 20,000,000 19,730,190 0 0 28,873,622 0 28,873,622 1.46 11.5: Starwood Debt Fund II, LP 2008 20,000,000 17,599,882 0 0 21,912,511 0 21,912,511 1.25 6.45 Structured Real Estate III, LP (Guggenheim) 2008 20,000,000 20,000,000 0 0 16,320,664 0 16,320,664 0 16,320,664 0.82 -4.99 Bryanston Real Estate Opportunity Fund II, L.P. 2009 20,000,000 8,589,256 0 0 11,851,333 0 11,851,333 1.38 10,20 Fortress Japan Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,828,408 17.71 25.30 Caktree Real Estate Opportunities V 2012 25,000,000 25,000,000 0 503,255 39,431,074 173,182 39,604,256 1.55 12.60 Invesco Real Estate Asia Fund 2014 51,732,500 51,732,500 0 2,601,837 15,976,245 62,306,354 78,282,598 1.44 4.89 Partners Group RE Secondary 2013 (USD) A 2014 65,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.11 Pramerica Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,992 14,775,416 9,607,412 24,382,828 1.08 3.30 Kayne Anderson Real Estate Fund VI, L.P. 2017 75,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18,47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 49,507,281 29,928,719 44,125 753,447 62,96,630 63,716,077 1.41 9.00 Kayne Anderson Real Estate Fund III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 0 25,318,141 1.27 11.27 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 Fortres Group RE Secondary 2017 (USD) A 2017 75,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9,44 Kayne Anderson Real Estate Debt III 2018 20,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 Kayne Anderson Real Estate Fund VI 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9,44 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 | Invesco High Yield Debt Fund I | 2007 | 20,000,000 | 20,000,000 | 0 | 0 | 8,567,605 | 0 | 8,567,605 | 0.43 | -35.57% |
| Square Mile Partners III LP 2008 20,000,000 19,730,190 0 0 28,873,622 0 28,873,622 1.46 11.55 Starwood Debt Fund II, LP 2008 20,000,000 17,599,882 0 0 21,912,511 0 21,912,511 1.25 6.4 Structured Real Estate Btate III, LP (Guggenheim) 2008 20,000,000 20,000,000 0 0 16,320,664 0 16,320,664 0 16,320,664 0 16,320,664 0 16,320,664 0 11,851,333 1.38 10.21 Fortress Japan Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,828,408 17.71 25.38 Invesco Real Estate Opportunities V 2012 25,000,000 25,000,000 0 503,255 39,431,074 173,182 39,604,256 1.55 12,6 Invesco Real Estate Asia Fund 2014 51,732,500 51,732,500 0 2,601,837 15,976,245 62,308,7537 71,844,464 4.88 | Square Mile Partners II | 2007 | 19,831,232 | 19,831,232 | 0 | 0 | 5,311,330 | 0 | 5,311,330 | 0.27 | -19.11% |
| Starwood Debt Fund II, LP 2008 20,000,000 17,599,882 0 0 21,912,511 0 21,912,511 1.25 6.48 Structured Real Estate III, LP (Guggenheim) 2008 20,000,000 20,000,000 0 0 16,320,664 0 16,320,664 0.82 -4.98 Bryanston Real Estate Opportunity Fund II, L.P. 2009 20,000,000 8,589,256 0 0 0 11,851,333 1.38 10.20 Fortress Japan Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,828,408 17.71 25,34 | Fillmore West Fund | 2008 | 20,000,000 | 19,561,557 | 0 | 0 | 21,175,799 | 0 | 21,175,799 | 1.08 | 1.14% |
| Starwood Debt Fund II, LP 2008 20,000,000 17,599,882 0 0 21,912,511 0 21,912,511 1.25 6.45 Structured Real Estate III, LP (Guggenheim) 2008 20,000,000 20,000,000 0 0 16,320,664 0 16,320,664 0.82 -4.95 Bryanston Real Estate Opportunity Fund II, L.P. 2009 20,000,000 8,589,256 0 0 0 11,851,333 0 11,851,333 1.38 10.20 Fortress Japan Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,828,408 17.71 25,34 10.20 Invesco Real Estate Opportunities V 2012 25,000,000 25,000,000 0 503,255 39,431,074 173,182 39,604,256 1.55 12,65 Invesco Real Estate Asia Fund 2014 51,732,500 51,732,500 0 2,601,837 15,976,245 62,306,354 78,282,598 1.44 4.84 1.46 Apollo US Real Estate Fund II 2015 20,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.13 Apollo US Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.30 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 Investor Real Estate Debt III 2018 20,000,000 24,167,6327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25,11 Kayne Anderson Real Estate Debt III 2018 2021 50,000,000 24,167,5327 28,323,673 415,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Parmerica Real Estate Capital VI 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.42 Rayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.42 Rayne Anderson Real Estate Debt IV 2021 30,000,000 6,377,049 13,622,951 0 0 7,542,143 1.18 16,22 Parmerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Parmerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Parmerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 20,400,400 201 2010 2010 2010 2010 2010 2010 20 | Square Mile Partners III LP | 2008 | 20,000,000 | 19,730,190 | 0 | 0 | 28,873,622 | 0 | 28,873,622 | 1.46 | 11.52% |
| Bryanston Real Estate Opportunity Fund II, L.P. 2009 20,000,000 8,589,256 0 0 11,851,333 0 11,851,333 1.38 10.20 Fortress Japan Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,828,408 17.71 25.30 Oaktree Real Estate Opportunities V 2012 25,000,000 25,000,000 0 503,255 39,431,074 173,182 39,604,256 1.55 12.60 Invesco Real Estate Asia Fund 2014 51,732,500 51,732,500 0 2,601,837 15,976,245 62,306,354 78,282,598 1.44 4.88 Partners Group RE Secondary 2013 (USD) A 2014 65,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.13 Partnerica Real Estate Fund II 2015 20,000,000 16,422,684 3,577,316 29,763 8,766,993 15,212,197 23,978,191 1.46 9.11 Pramerica Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.31 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18.47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.00 Kayne Anderson Real Estate Debt III 2018 20,000,000 19,47,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 24,140,157 5,859,843 0 8,756,960 18,293,889 26,450,849 1.10 9.44 Kayne Anderson Real Estate Debt IV 2021 30,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.25 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,7 | Starwood Debt Fund II, LP | 2008 | 20,000,000 | 17,599,882 | 0 | 0 | 21,912,511 | 0 | 21,912,511 | 1.25 | 6.45% |
| Fortress Japan Opportunity Fund II 2012 5,472,095 1,212,284 4,259,811 302,777 22,652,992 4,175,416 26,828,408 17.71 25.38 Oaktree Real Estate Opportunities V 2012 25,000,000 25,000,000 0 503,255 39,431,074 173,182 39,604,256 1.55 12.68 Invesco Real Estate Asia Fund 2014 51,732,500 51,732,500 0 2,601,837 15,976,245 62,306,354 78,282,598 1.44 4.88 Partners Group RE Secondary 2013 (USD) A 2014 65,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.13 Apollo US Real Estate Fund II 2015 20,000,000 16,422,684 3,577,316 29,763 8,765,993 15,212,197 23,978,191 1.46 8.13 Apollo US Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.33 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18.47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.06 Kayne Anderson Real Estate Debt III 2018 20,000,000 24,140,157 5,859,843 0 45,644 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.47 Kayne Anderson Real Estate Capital VII 2021 20,000,000 6,377,049 13,622,951 0 0 0 7,542,143 7,542,143 1.18 16.22 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partnerica Real Estate Capital VII | Structured Real Estate III, LP (Guggenheim) | 2008 | 20,000,000 | 20,000,000 | 0 | 0 | 16,320,664 | 0 | 16,320,664 | 0.82 | -4.99% |
| Oaktree Real Estate Opportunities V 2012 25,000,000 25,000,000 0 503,255 39,431,074 173,182 39,604,256 1.55 12.69 Invesco Real Estate Asia Fund 2014 51,732,500 51,732,500 0 2,601,837 15,976,245 62,306,354 78,282,598 1.44 4.88 Partners Group RE Secondary 2013 (USD) A 2014 65,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.13 Apollo US Real Estate Fund II 2015 20,000,000 16,422,684 3,577,316 29,763 8,765,993 15,212,197 23,978,191 1.46 9.13 Pramerica Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.31 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18.47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.05 Kayne Anderson Real Estate Debt III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.11 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.44 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partners Group RE Secondary 2017 (VIII) 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 | Bryanston Real Estate Opportunity Fund II, L.P. | 2009 | 20,000,000 | 8,589,256 | 0 | 0 | 11,851,333 | 0 | 11,851,333 | 1.38 | 10.20% |
| Oaktree Real Estate Opportunities V 2012 25,000,000 25,000,000 0 503,255 39,431,074 173,182 39,604,256 1.55 12.69 Invesco Real Estate Asia Fund 2014 51,732,500 51,732,500 0 2,601,837 15,976,245 62,306,354 78,282,598 1.44 4.88 Partners Group RE Secondary 2013 (USD) A 2014 65,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.13 Apollo US Real Estate Fund II 2015 20,000,000 16,422,684 3,577,316 29,763 8,765,993 15,212,197 23,978,191 1.46 9.13 Pramerica Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.31 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18.47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.05 Kayne Anderson Real Estate Debt III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.11 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.44 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 Partners Group RE Secondary 2017 (VIII) 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.44 | Fortress Japan Opportunity Fund II | 2012 | 5,472,095 | 1,212,284 | 4,259,811 | 302,777 | 22,652,992 | 4,175,416 | 26,828,408 | 17.71 | 25.38% |
| Partners Group RE Secondary 2013 (USD) A 2014 65,000,000 49,541,590 15,458,410 -349,081 37,986,927 33,857,537 71,844,464 1.46 8.13 Apollo US Real Estate Fund II 2015 20,000,000 16,422,684 3,577,316 29,763 8,765,993 15,212,197 23,978,191 1.46 9.12 Pramerica Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.30 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18.47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.05 Kayne Anderson Real Estate Debt III 2018 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25,116 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,765,993 15,212,197 23,978,191 1.46 9.12 1.10 9.44 1.10 1.10 13,814,886 18,347,911 32,162,797 1.72 18.47 1.29 1.29 1.29 1.29 1.29 1.29 1.29 1.29 | Oaktree Real Estate Opportunities V | 2012 | 25,000,000 | 25,000,000 | 0 | 503,255 | 39,431,074 | | 39,604,256 | 1.55 | 12.69% |
| Apollo US Real Estate Fund II 2015 20,000,000 16,422,684 3,577,316 29,763 8,765,993 15,212,197 23,978,191 1.46 9.12 Pramerica Real Estate Capital VI 2016 24,890,077 22,583,937 2,306,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.30 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18.47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.00 Kayne Anderson Real Estate Debt III 2018 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 251.12 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.44 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.25 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | Invesco Real Estate Asia Fund | 2014 | 51,732,500 | 51,732,500 | 0 | 2,601,837 | 15,976,245 | 62,306,354 | 78,282,598 | 1.44 | 4.85% |
| Pramerica Real Estate Capital VI 2016 24,890,077 22,583,937 2,300,140 58,392 14,775,416 9,607,412 24,382,828 1.08 3.30 Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18,47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.08 Kayne Anderson Real Estate Debt III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,950 18,293,889 26,450,849 1.10 9.48 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.25 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | Partners Group RE Secondary 2013 (USD) A | 2014 | 65,000,000 | 49,541,590 | 15,458,410 | -349,081 | 37,986,927 | 33,857,537 | 71,844,464 | 1.46 | 8.13% |
| Kayne Anderson Real Estate Fund V, L.P. 2017 20,000,000 18,815,873 1,184,127 -120,110 13,814,886 18,347,911 32,162,797 1.72 18.47 Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.05 Kayne Anderson Real Estate Debt III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.45 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.22 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 | Apollo US Real Estate Fund II | 2015 | 20,000,000 | 16,422,684 | 3,577,316 | 29,763 | 8,765,993 | 15,212,197 | 23,978,191 | 1.46 | 9.12% |
| Partners Group RE Secondary 2017 (USD) A 2017 75,000,000 45,071,281 29,928,719 44,125 753,447 62,962,630 63,716,077 1.41 9.05 (Asyne Anderson Real Estate Debt III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 (Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 (Asyne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.42 (Asyne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 (Asyne Anderson Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | Pramerica Real Estate Capital VI | 2016 | 24,890,077 | 22,583,937 | 2,306,140 | 58,392 | 14,775,416 | 9,607,412 | 24,382,828 | 1.08 | 3.30% |
| Kayne Anderson Real Estate Debt III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.42 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | Kayne Anderson Real Estate Fund V, L.P. | 2017 | 20,000,000 | 18,815,873 | 1,184,127 | -120,110 | 13,814,886 | 18,347,911 | 32,162,797 | 1.72 | 18.47% |
| Kayne Anderson Real Estate Debt III 2018 20,000,000 19,947,473 0 45,464 25,318,141 0 25,318,141 1.27 11.24 Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.42 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | Partners Group RE Secondary 2017 (USD) A | 2017 | 75,000,000 | 45,071,281 | 29,928,719 | 44,125 | 753,447 | 62,962,630 | 63,716,077 | 1.41 | 9.05% |
| Apollo US Real Estate Fund III 2021 50,000,000 21,676,327 28,323,673 415,331 3,752,247 26,667,497 30,419,744 1.38 25.10 Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.42 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | | | | | | | | | | | 11.24% |
| Kayne Anderson Real Estate Debt IV 2021 30,000,000 24,140,157 5,859,843 0 8,156,960 18,293,889 26,450,849 1.10 9.42 Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | | | | | | | | | | | 25.10% |
| Kayne Anderson Real Estate Fund VI 2021 20,000,000 6,377,049 13,622,951 0 0 7,542,143 7,542,143 1.18 16.23 Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | | | , , | | , , | , | , , | , , | , -, | | 9.42% |
| Pramerica Real Estate Capital VII 2021 54,702,824 26,480,537 28,222,287 118,086 6,364,971 19,400,777 25,765,748 0.97 -3.43 | • | | | , , | , , | | | , , | , , | | 16.23% |
| | | | | | | | | | | | -3.43% |
| 1.00 1.00.000.00 1.00.000.00 1.000.00 1.000.00 1.000.00 1.000.000 | Total: | | 1,394,554,535 | | 151,388,431 | 13,606,286 | 1,132,841,136 | 547,225,379 | | 1.36 | 4.61% |

REAL ASSETS PERFORMANCE

| Investment Name | Vintage Year | Commitment Amount | Paid in Capital | Capital to be Funded | Additional Fees | Cumulative Distributions | Valuation | Total Value | TVPI Ratio | IRR |
|---|-----------------|----------------------|-----------------|-------------------------|-----------------|-----------------------------|-------------|-------------|---------------|--------|
| Hancock Timberland VII | 2005 | 90,000,000 | 90,000,000 | C | 0 | 101,142,900 | 0 | 101,142,900 | 1.12 | 1.02% |
| Hancock Timberland VIII | 2006 | 40,000,000 | 40,000,000 | C | 200 | 45,071,725 | 895,894 | 45,967,619 | 1.15 | 1.12% |
| Highstar Capital III, L.P. | 2007 | 60,000,000 | 59,119,119 | C | 0 | 63,302,361 | 0 | 63,302,361 | 1.07 | 0.87% |
| RREEF North American Infrastructure Fund | 2007 | 50,000,000 | 50,000,000 | C | 846,289 | 55,238,754 | 0 | 55,238,754 | 1.09 | 12.09% |
| Timbervest Partners II, L.P. | 2007 | 50,000,000 | 50,000,000 | C | 0 | 51,855,967 | 0 | 51,855,967 | 1.04 | 0.38% |
| Pinnacle Natural Resources Offshore Fund Ltd. | 2008 | 135,000,000 | 135,000,000 | C | 0 | 0 | 263,549,190 | 263,549,190 | 1.95 | 8.30% |
| Timbervest Environmental Investments II, L.P. | 2008 | 30,000,000 | 30,000,000 | C | 50,548 | 21,494,831 | 4,139,739 | 25,634,570 | 0.85 | -2.05% |
| Pinnacle Physicals and Financing Master, Ltd | 2009 | 205,800,000 | 205,800,000 | C | 15,984 | 2,018,221 | 330,501,046 | 332,519,267 | 1.62 | 7.91% |
| Fortress Transportation Infrastructure LLC | 2015 | 45,403,354 | 45,403,354 | C | 0 | 41,902,882 | 0 | 41,902,882 | 0.92 | -1.99% |
| Total: | | 706,203,354 | 705,322,473 | O | 913,021 | 382,027,641 | 599,085,869 | 981,113,509 | 1.39 | 4.13% |
| | | | | | | | | | | |



PRIVATE EQUITY PERFORMANCE

| Investment Name | Vintage Year | Commitment Amount | Paid in Capital | Capital to be Funded | Additional Fees | Cumulative Distributions | Valuation | Total Value | TVPI Ratio | IRR |
|---|-----------------|----------------------|-----------------|----------------------|--------------------|-----------------------------|-------------|---------------|------------|--------|
| European Strategic Partners 2004 | 2004 | 238,688,631 | 222,037,366 | 16,651,266 | 88,078 | 280,950,879 | 193,367 | 281,144,246 | 1.27 | 3.95% |
| Partners Group MCA | 2004 | 1,000,000,000 | 1,018,367,072 | -18,367,072 | 0 | 898,466,391 | 676,003,618 | 1,574,470,009 | 1.55 | 9.22% |
| Pathway Private Equity Fund VII, L.P. | 2004 | 904,500,000 | 862,470,509 | 42,029,491 | 0 | 1,482,958,641 | 199,286,740 | 1,682,245,381 | 1.95 | 11.59% |
| Aurora Equity Partners III, L.P. | 2005 | 25,000,000 | 23,544,536 | 0 | 1,422,824 | 41,738,196 | 0 | 41,738,196 | 1.67 | 13.61% |
| Lexington Middle Market I | 2005 | 25,000,000 | 24,771,942 | 228,058 | 0 | 40,464,141 | 88,474 | 40,552,615 | 1.64 | 11.38% |
| NB Secondary Opportunities I, LP | 2005 | 20,000,000 | 18,500,843 | 0 | 0 | 24,330,105 | 0 | 24,330,105 | 1.32 | 6.49% |
| Lexington Capital Partners VI-B | 2006 | 25,000,000 | 24,591,319 | 408,681 | 3,012 | 35,008,201 | 129,563 | 35,137,764 | 1.43 | 6.87% |
| Siguler Guff DOF II | 2006 | 30,000,000 | 30,000,000 | 0 | -43,638 | 42,440,278 | 0 | 42,440,278 | 1.42 | 8.64% |
| TCW/Crescent Mezzanine IV, L.P. | 2006 | 40,000,000 | 39,590,976 | 0 | -81,547 | 45,049,090 | 0 | 45,049,090 | 1.14 | 3.03% |
| Catalyst Fund II, L.P. | 2007 | 10,000,000 | 9,956,944 | 43,056 | 65,604 | 3,859,103 | 33,821,659 | 37,680,762 | 3.76 | 11.40% |
| Energy Spectrum Partners V, LP | 2007 | 15,000,000 | 13,840,666 | 0 | 12,744 | 25,811,900 | 0 | 25,811,900 | 1.86 | 31.80% |
| Tennenbaum Opportunities Fund V, L.P. | 2007 | 10,000,000 | 10,000,000 | 0 | 0 | 14,435,464 | 810,271 | 15,245,735 | 1.52 | 5.71% |
| Apollo Investment Fund VII, L.P. | 2008 | 10,000,000 | 8,789,116 | 1,210,884 | -15,638 | 17,803,401 | 102,758 | 17,906,159 | 2.04 | 22.79% |
| Aurora Resurgence Fund, L.P. | 2008 | 15,000,000 | 5,653,009 | 0 | 40,630 | 10,350,965 | 0 | 10,350,965 | 1.82 | 17.60% |
| Industry Ventures Fund V | 2008 | 10,000,000 | 9,500,000 | 0 | 0 | 27,399,602 | 0 | 27,399,602 | 2.88 | 29.29% |
| Lexington Middle Market II - Offshore | 2008 | 10,000,000 | 9,773,736 | 226,264 | 40,771 | 16,036,242 | 2,175,648 | 18,211,890 | 1.86 | 14.59% |
| NB Secondary Opportunities II, LP | 2008 | 20,000,000 | 17,080,642 | 0 | 430,639 | 26,888,038 | 0 | 26,888,038 | 1.54 | 14.40% |
| Siguler Guff DOF III | 2008 | 10,000,000 | 9,700,000 | 300,000 | -234 | 14,706,025 | 1,241,614 | 15,947,639 | 1.64 | 10.45% |
| TCW/Crescent Mezzanine V, L.P. | 2008 | 20,000,000 | 19,949,723 | 50,277 | -51,494 | 27,301,678 | 157,034 | 27,458,712 | 1.38 | 9.81% |
| Apollo European Principal Finance Fund (Feeder), LP | 2009 | 53,001,432 | 46,434,825 | 6,566,607 | 13,022 | 69,417,013 | 117,098 | 69,534,111 | 1.50 | 11.81% |
| DRI II, L.P. | 2009 | 20,000,000 | 19,917,669 | 0 | -100,096 | 26,302,807 | 0 | 26,302,807 | 1.33 | 19.64% |
| Starwood Energy Infrastructure Fund | 2009 | 15,000,000 | 14,750,000 | 0 | 93,463 | 20,239,979 | 0 | 20,239,979 | 1.36 | 7.88% |
| Apollo PCPL Webb V | 2010 | 4,844,398 | 4,844,398 | 0 | 0 | 5,196,757 | 0 | 5,196,757 | 1.07 | 6.04% |
| Apollo PCPL Webb VIII | 2010 | 4,734,303 | 4,734,303 | 0 | 32 | 12,146,258 | 0 | 12,146,258 | 2.57 | 46.47% |
| Energy Spectrum Partners VI, LP | 2010 | 20,000,000 | 17,240,577 | 2,759,423 | 288 | 20,704,680 | 440,885 | 21,145,565 | 1.23 | 5.72% |
| European Strategic Partners 2008 | 2010 | 31,213,747 | 29,629,636 | 1,584,111 | 160,998 | 40,016,130 | 3,425,321 | 43,441,451 | 1.46 | 8.23% |
| Industry Ventures Fund VI | 2011 | 20,000,000 | 18,400,000 | 1,600,000 | 0 | 24,850,771 | 272,133 | 25,122,904 | 1.37 | 8.00% |
| Lexington Capital Partners VII (Offshore) | 2011 | 25,000,000 | 20,453,173 | 4,546,827 | 118,325 | 31,573,307 | 2,857,537 | 34,430,844 | 1.67 | 14.62% |
| Tennenbaum Opportunities Fund VI, L.P. | 2011 | 20,000,000 | 7,882,885 | 12,117,115 | 0 | 16,804,926 | 81,276 | 16,886,202 | 2.14 | 8.07% |
| Aurora Equity Partners IV, L.P. | 2012 | 20,000,000 | 17,262,661 | 2,737,339 | 2,654,902 | 40,094,037 | 488,956 | 40,582,993 | 2.04 | 18.10% |
| BNY Mellon - Alcentra Mezzanine III | 2012 | 25,000,000 | 23,254,658 | 0 | 0 | 26,736,979 | 0 | 26,736,979 | 1.15 | 12.73% |
| Industry Ventures Partnership Holdings Fund II, L.P. | 2012 | 25,000,000 | 23,500,000 | 1,500,000 | 0 | 55,544,399 | 51,483,676 | 107,028,075 | 4.55 | 23.05% |
| Tennenbaum Waterman Fund, LP | 2012 | 70,000,000 | 70,000,000 | 0 | 1,081 | 71,153,734 | 60,060,232 | 131,213,966 | 1.87 | 10.02% |
| Industry Ventures Partnership Holdings Fund III, L.P. | 2013 | 25,000,000 | 23,277,042 | 1,722,958 | 0 | 42,166,060 | 35,442,974 | 77,609,034 | 3.33 | 23.02% |
| Industry Ventures Secondary VII, L.P. | 2013 | 25,000,000 | 23,175,000 | 1,825,000 | 0 | 38,160,197 | 7,704,698 | 45,864,895 | 1.98 | 16.51% |
| Industry Ventures Partnership Holdings Fund III-A, L.P. | 2014 | 12,500,000 | 11,162,500 | 1,337,500 | 0 | 7,375,723 | 5,884,448 | 13,260,171 | 1.19 | 3.44% |



PRIVATE EQUITY PERFORMANCE

| Investment Name | Vintage Year | Commitment Amount | Paid in Capital | Capital to be Funded | Additional Fees | Cumulative Distributions | Valuation | Total Value | TVPI Ratio | IRR |
|--|-----------------|----------------------|-----------------|-------------------------|--------------------|-----------------------------|---------------|---------------|------------|---------|
| Pathway SBCERA MCA | 2014 | 350,000,000 | 308,030,822 | 41,969,178 | 0 | 110,909,445 | 620,322,166 | 731,231,611 | 2.37 | 20.43% |
| SL Capital SOF I LP | 2014 | 25,000,000 | 21,382,263 | 3,617,737 | 0 | 27,177,838 | 2,644,319 | 29,822,157 | 1.39 | 10.01% |
| ARES European Loan Opp Fund | 2015 | 15,000,000 | 8,413,136 | 0 | 0 | 7,613,498 | 0 | 7,613,498 | 0.90 | -6.02% |
| Ares Special Situations Fund IV, LP | 2015 | 50,000,000 | 47,686,469 | 2,313,531 | 0 | 34,826,540 | 35,810,367 | 70,636,907 | 1.48 | 7.76% |
| Tennenbaum Special Situations Fund IX | 2015 | 50,000,000 | 32,057,933 | 17,942,067 | 85,183 | 32,877,330 | 21,223,905 | 54,101,235 | 1.68 | 10.68% |
| Industry Ventures Direct, LP | 2016 | 25,000,000 | 23,920,425 | 1,079,575 | 0 | 11,577,501 | 40,487,349 | 52,064,850 | 2.18 | 20.11% |
| Industry Ventures Partnership Holdings IV, LP | 2016 | 25,000,000 | 22,750,000 | 2,250,000 | 0 | 8,419,172 | 45,024,013 | 53,443,185 | 2.35 | 21.89% |
| Industry Ventures Special Opportunities II-A | 2016 | 12,500,000 | 1,694,029 | 10,805,971 | 0 | 2,534,641 | 2,640,860 | 5,175,501 | 3.06 | 40.26% |
| TCP Direct Lending Fund VIII-L, LLC | 2016 | 40,000,000 | 21,606,919 | 18,393,081 | 148,810 | 10,649,579 | 20,907,892 | 31,557,471 | 1.45 | 6.51% |
| Tennenbaum Energy Opportunities Fund, LP | 2016 | 20,000,000 | 4,170,678 | 15,829,322 | 0 | 6,620,045 | 4,569,698 | 11,189,743 | 2.68 | 11.68% |
| Apollo Accord Fund, LP | 2017 | 30,000,000 | 7,500,000 | 0 | -7,580 | 8,310,474 | 0 | 8,310,474 | 1.11 | 7.44% |
| Industry Ventures Secondary VIII | 2017 | 25,000,000 | 22,525,000 | 2,475,000 | 0 | 22,243,158 | 21,988,167 | 44,231,325 | 1.96 | 27.32% |
| Kayne Anderson Energy Fund VII, L.P. | 2017 | 10,000,000 | 8,638,804 | 1,361,196 | 0 | 599,181 | 5,423,286 | 6,022,467 | 0.70 | -6.40% |
| Kayne Partners Fund IV (QP), LP | 2017 | 20,000,000 | 19,700,828 | 299,172 | 127,793 | 17,322,762 | 20,369,562 | 37,692,324 | 1.90 | 21.32% |
| Kayne SBCERA MLP | 2017 | 130,000,000 | 126,225,037 | 3,774,963 | 0 | 68,602,343 | 73,303,627 | 141,905,970 | 1.12 | 2.61% |
| SL Capital SOF III LP | 2017 | 25,000,000 | 17,595,610 | 7,404,390 | -440 | 14,887,151 | 21,944,796 | 36,831,947 | 2.09 | 22.69% |
| Crestline Portfolio Financing Fund | 2018 | 50,000,000 | 31,915,023 | 18,084,977 | 0 | 21,639,887 | 22,318,101 | 43,957,988 | 1.38 | 9.91% |
| Industry Ventures Partnership Holdings V, LP | 2018 | 25,000,000 | 22,375,000 | 2,625,000 | 0 | 626,933 | 45,270,606 | 45,897,539 | 2.05 | 30.25% |
| Industry Ventures Tech Buyout LP | 2018 | 50,000,000 | 44,039,198 | 5,960,802 | 0 | 0 | 58,706,015 | 58,706,015 | 1.33 | 14.35% |
| Kayne Anderson Private Energy Income Fund II, L.P. | 2018 | 20,000,000 | 17,127,193 | 2,872,807 | 0 | 6,837,543 | 20,756,370 | 27,593,913 | 1.61 | 35.06% |
| Kayne Flywheel Co-investment LLC | 2018 | 8,000,000 | 6,600,000 | 1,400,000 | 0 | 9,070,254 | 11,167,750 | 20,238,004 | 3.07 | 38.68% |
| Kayne SBCERA (D.I.) | 2018 | 45,000,000 | 40,660,422 | 4,339,578 | 0 | 44,541,891 | 4,422,347 | 48,964,238 | 1.20 | 16.70% |
| Kayne Solutions Fund LP | 2018 | 20,000,000 | 9,809,659 | 0 | 19,174 | 10,797,587 | 0 | 10,797,587 | 1.10 | 9.14% |
| Industry Ventures Direct II, LP | 2019 | 50,000,000 | 45,034,012 | 4,965,988 | 0 | 0 | 73,728,748 | 73,728,748 | 1.64 | 25.24% |
| Kayne Renewable Opportnities Partners (TE), LP | 2019 | 100,000,000 | 20,704,033 | 0 | 0 | 27,857,425 | 0 | 27,857,425 | 1.35 | 21.72% |
| Waterfall Sentinel Co-Investments | 2019 | 30,000,000 | 23,890,124 | 6,109,877 | 140,580 | 18,331,939 | 40,895,014 | 59,226,953 | 2.46 | 29.32% |
| Waterfall Sentinel Fund | 2019 | 30,000,000 | 25,498,523 | 4,501,477 | 0 | 7,274,164 | 31,119,528 | 38,393,692 | 1.51 | 14.04% |
| Adams Street SBCERA | 2020 | 150,000,000 | 136,775,298 | 13,224,702 | 0 | 19,168,594 | 143,866,761 | 163,035,355 | 1.19 | 15.71% |
| Kayne Anderson FRG | 2020 | 30,000,000 | 30,000,000 | 0 | 0 | 45,283,966 | 0 | 45,283,966 | 1.51 | 44.79% |
| Kayne CLO Partners II, LP | 2020 | 50,000,000 | 44,721,625 | 0 | -97,167 | 52,848,194 | 0 | 52,848,194 | 1.18 | 13.44% |
| Industry Ventures Partnership Holdings VI, LP | 2021 | 40,000,000 | 16,013,208 | 23,986,792 | 0 | 72,800 | 17,316,422 | 17,389,222 | 1.09 | 9.01% |
| Industry Ventures Secondary IX, LP | 2021 | 50,000,000 | 40,545,637 | 9,454,363 | -578 | 1,091,888 | 50,728,559 | 51,820,447 | 1.28 | 23.20% |
| Industry Ventures Direct III, L.P. | 2022 | 40,000,000 | 6,898,035 | 33,101,965 | -1,408 | 0 | 5,788,232 | 5,788,232 | 0.84 | -26.16% |
| Industry Ventures IV Arrowhead, L.P. | 2022 | 25,000,000 | 5,000,000 | 20,000,000 | 0 | 0 | 5,175,388 | 5,175,388 | 1.04 | 3.51% |
| Industry Ventures Tech Buyout II, L.P. | 2022 | 100,000,000 | 19,000,000 | 81,000,000 | 0 | 0 | 19,865,894 | 19,865,894 | 1.05 | 9.03% |
| Total: | | 4,619,982,511 | 4,034,542,665 | 442,221,298 | 5,268,132 | 4,275,095,817 | 2,570,055,724 | 6,845,151,541 | 1.69 | 10.99% |







POLICY INDEX COMPOSITION

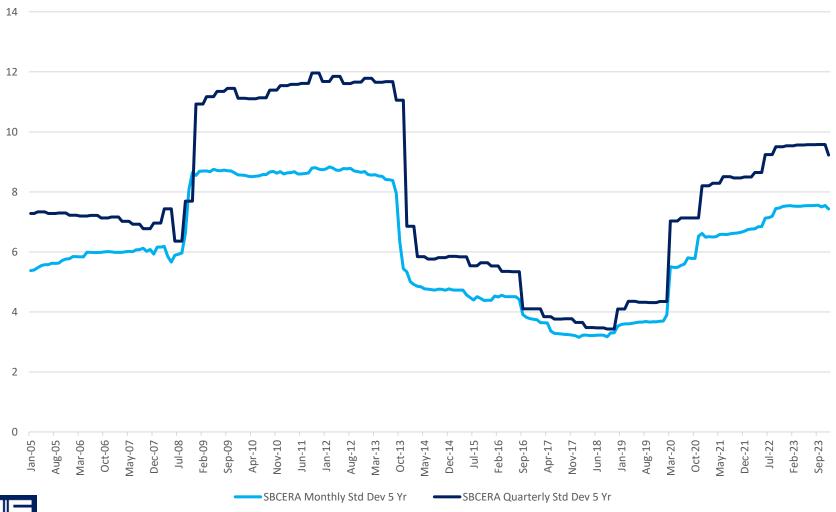
| Index | 7/1/ 2022 | 7/1/ 2021 | 7/1/ 2019 | 7/1/ 2018 | 7/1/ 2014 | 7/1/ 2012 | 6/1/ 2012 | 6/1/ 2010 | 6/1/ 2009 | 6/1/ 2008 | 9/1/ 2006 | 7/1/ 2005 | 4/1/ 2004 | 6/1/ 2002 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--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



5 YEAR STANDARD DEVIATION

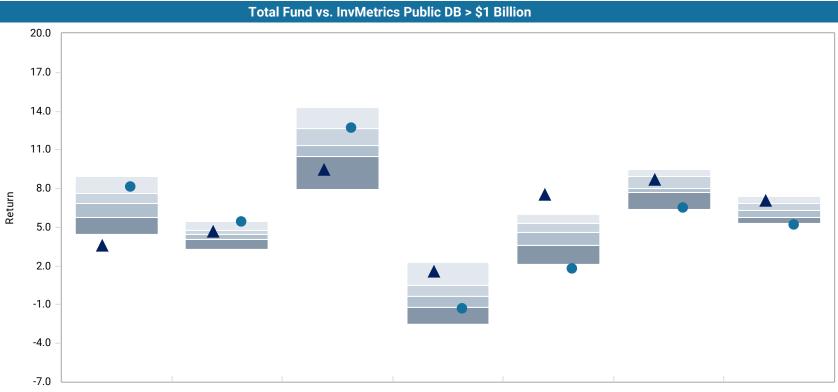
MONTHLY TIME SERIES VS. QUARTERLY TIME SERIES

Standard Deviation Rolling 5 Yr





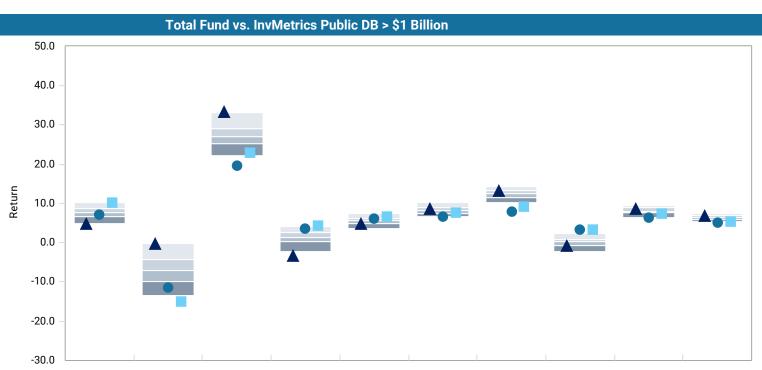
RETURN SUMMARY VS. PEER UNIVERSE



| | 3 Mo | FYTD (%) | 1 Year | 2 Years | 3 Years | 5 Years | 10 Years |
|-----------------|-----------|-------------|-----------|-----------|----------|----------|----------|
| ▲ Total Fund | 3.6 (100) | 4.7 (31) | 9.5 (88) | 1.6 (15) | 7.5 (1) | 8.7 (38) | 7.1 (20) |
| Policy Index | 8.1 (14) | 5.4 (6) | 12.7 (24) | -1.3 (77) | 1.8 (99) | 6.5 (93) | 5.2 (97) |
| 5th Percentile | 9.0 | 5.5 | 14.3 | 2.3 | 6.0 | 9.5 | 7.4 |
| 1st Quartile | 7.6 | 4.8 | 12.7 | 0.5 | 5.3 | 9.0 | 6.9 |
| Median | 6.8 | 4.5 | 11.4 | -0.3 | 4.6 | 8.0 | 6.3 |
| 3rd Quartile | 5.8 | 4.0 | 10.5 | -1.2 | 3.6 | 7.7 | 5.8 |
| 95th Percentile | 4.5 | 3.3 | 7.9 | -2.5 | 2.1 | 6.4 | 5.3 |
| Population | 42 | 42 | 39 | 37 | 36 | 35 | 33 |



RETURN SUMMARY VS. PEER UNIVERSE



| | Fiscal 2023 (%) | Fiscal 2022 (%) | Fiscal 2021 (%) | Fiscal 2020 (%) | Fiscal 2019 (%) | Fiscal 2018 (%) | Fiscal 2017 (%) | Fiscal 2016 (%) | 5 Yrs (%) | 10 Yrs (%) |
|------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|---------------|
| ▲ Total Fund | 5.0 (95) | -0.1 (5) | 33.3 (5) | -3.2 (97) | 4.8 (74) | 8.8 (32) | 13.3 (29) | -0.8 (78) | 8.7 (38) | 7.1 (20) |
| Policy Index | 7.2 (63) | -11.3 (87) | 19.7 (99) | 3.7 (11) | 6.2 (27) | 6.8 (94) | 8.0 (100) | 3.4 (1) | 6.5 (93) | 5.2 (97) |
| 60% MSCI World/40% FTSE WGBI | 10.2 (6) | -14.9 (99) | 23.0 (92) | 4.4 (4) | 6.7 (16) | 7.8 (68) | 9.2 (99) | 3.3 (1) | 7.5 (84) | 5.5 (91) |
| | | | | | | | | | | |
| 5th Percentile | 10.2 | -0.2 | 33.2 | 4.1 | 7.4 | 10.2 | 14.4 | 2.3 | 9.5 | 7.4 |
| 1st Quartile | 8.8 | -4.2 | 29.1 | 2.7 | 6.3 | 9.0 | 13.4 | 0.9 | 9.0 | 6.9 |
| Median | 7.8 | -7.0 | 27.0 | 1.3 | 5.7 | 8.1 | 12.5 | 0.2 | 8.0 | 6.3 |
| 3rd Quartile | 6.6 | -9.9 | 25.3 | 0.2 | 4.8 | 7.4 | 11.6 | -0.7 | 7.7 | 5.8 |
| 95th Percentile | 4.9 | -13.4 | 22.2 | -2.1 | 3.6 | 6.7 | 10.4 | -2.3 | 6.4 | 5.3 |
| | | | | | | | | | | |
| Population | 105 | 105 | 148 | 134 | 103 | 80 | 79 | 75 | 35 | 33 |





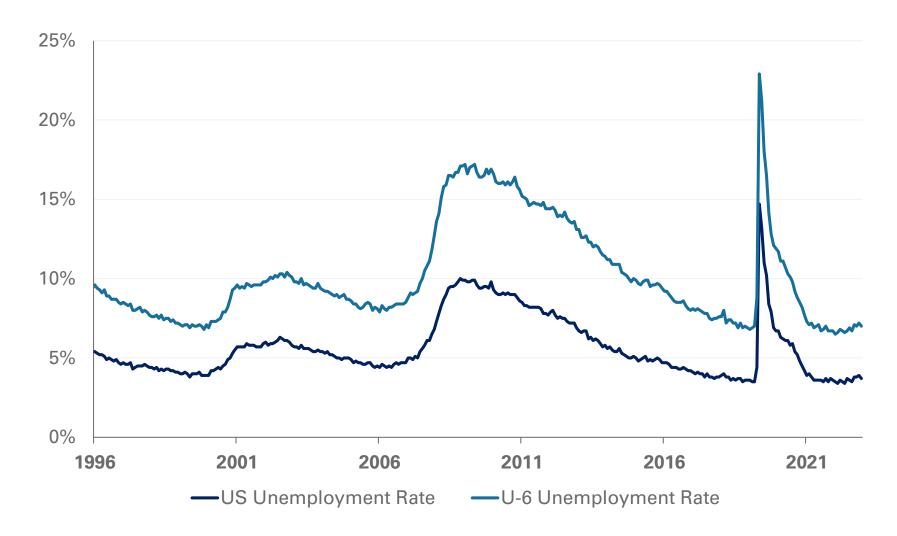
INFLATION

U.S. CONSUMER PRICE INDEX





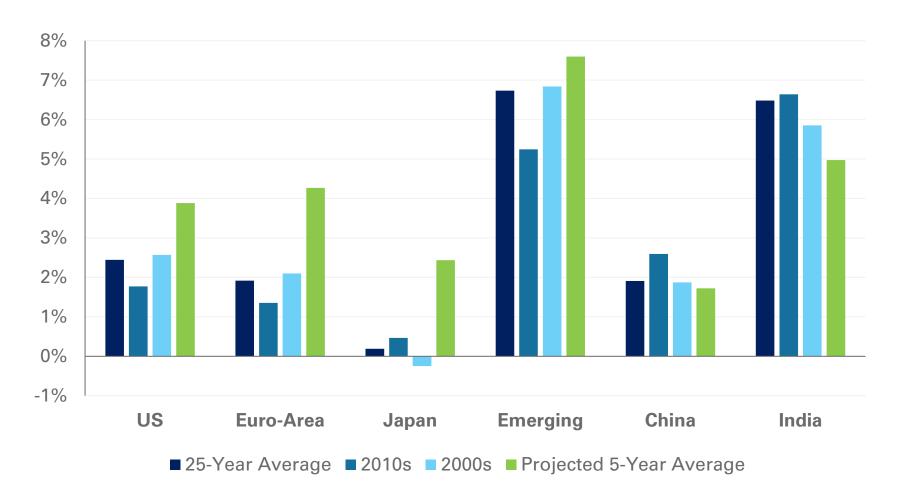
U.S. UNEMPLOYMENT RATES





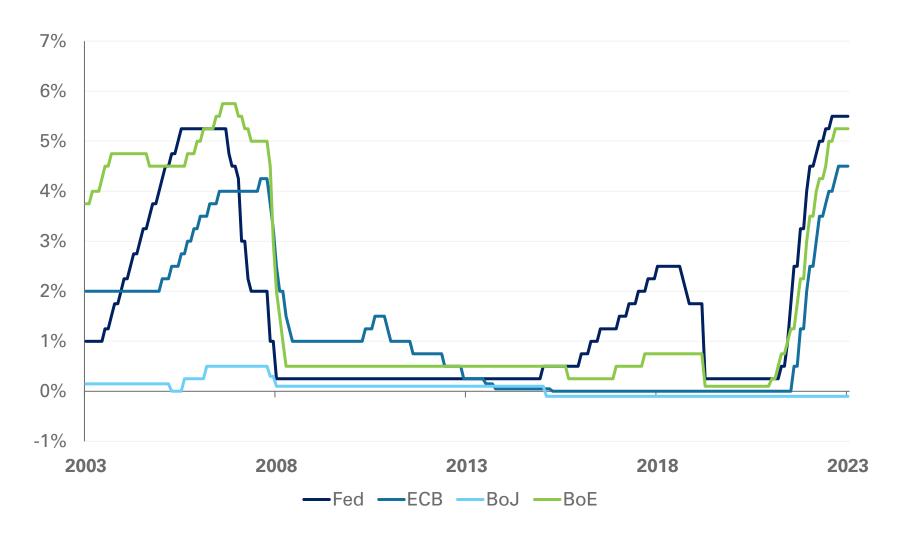
HISTORICAL INFLATION

IMF PROJECTIONS





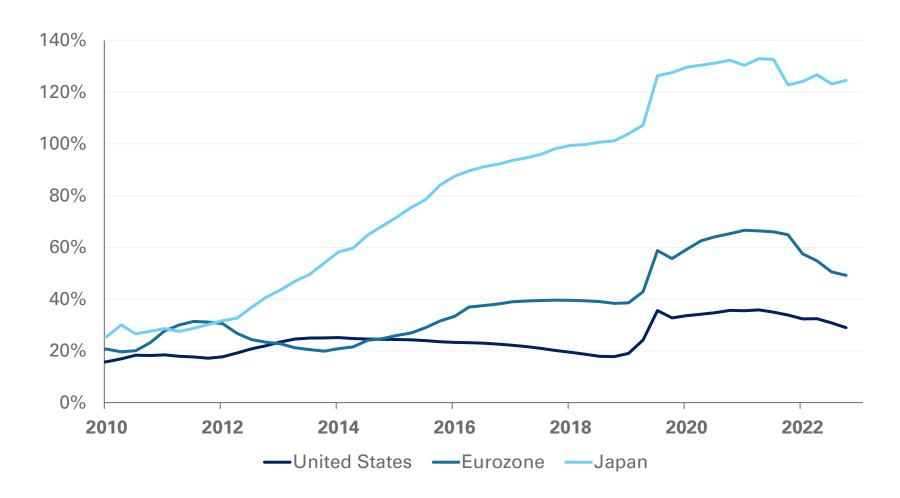
CENTRAL BANK POLICY RATES





CENTRAL BANK BALANCE SHEETS

AS A PERCENTAGE OF GDP





CURRENCIES

RELATIVE TO THE U.S. DOLLAR

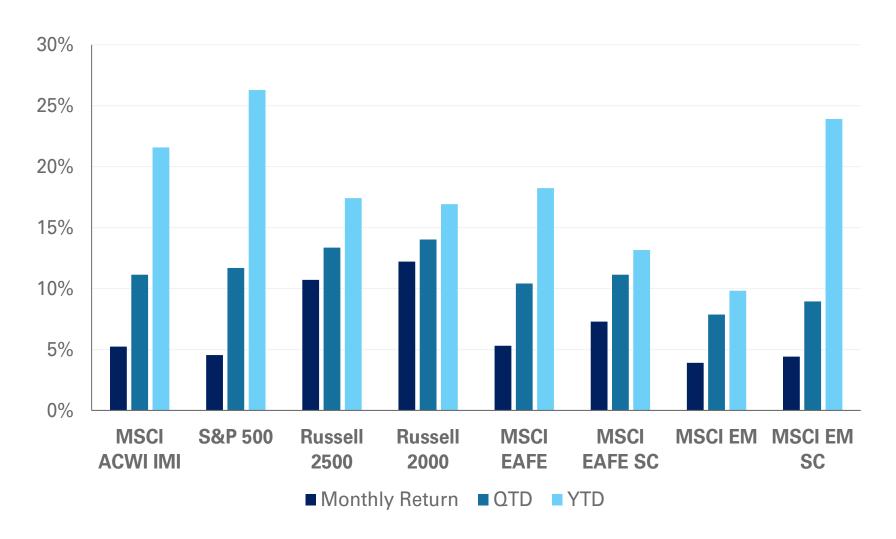
| Currencies | Spot | 1 Month | QTD | 1 Year |
|--------------------|--------|---------|--------|--------|
| Euro | 1.10 | 1.2% | 4.3% | 3.6% |
| British Pound | 1.27 | 0.7% | 4.4% | 5.8% |
| Japanese Yen | 140.98 | 4.9% | 5.8% | -5.5% |
| Swiss Franc | 0.84 | 3.3% | 8.7% | 9.7% |
| Australian Dollar | 0.68 | 2.9% | 5.7% | 0.9% |
| New Zealand Dollar | 1.58 | 2.5% | 5.4% | -0.2% |
| Canadian Dollar | 1.32 | 2.8% | 2.5% | 2.9% |
| Chinese Yuan | 7.09 | 0.5% | 3.0% | -1.7% |
| Taiwanese Dollar | 30.69 | 1.8% | 5.2% | 0.2% |
| Korean Won | 1288 | 0.2% | 4.8% | -1.8% |
| Vietnamese Dong | 24262 | 0.0% | 0.2% | -2.5% |
| Thai Baht | 34.13 | 3.1% | 6.7% | 1.5% |
| Philippines Peso | 55.38 | 0.2% | 2.2% | 0.6% |
| Indian Rupee | 83.21 | 0.2% | -0.2% | -0.5% |
| Russian Ruble | 89.40 | 0.3% | 9.2% | -17.8% |
| Mexican Peso | 16.93 | 2.6% | 2.6% | 14.1% |
| Brazilian Real | 4.86 | 1.5% | 3.0% | 8.1% |
| Chilean Peso | 0.02 | -1.4% | 3.9% | 1.9% |
| Argentine Peso | 808.50 | -55.4% | -56.7% | -78.1% |
| South African Rand | 18.29 | 3.6% | 3.0% | -7.7% |





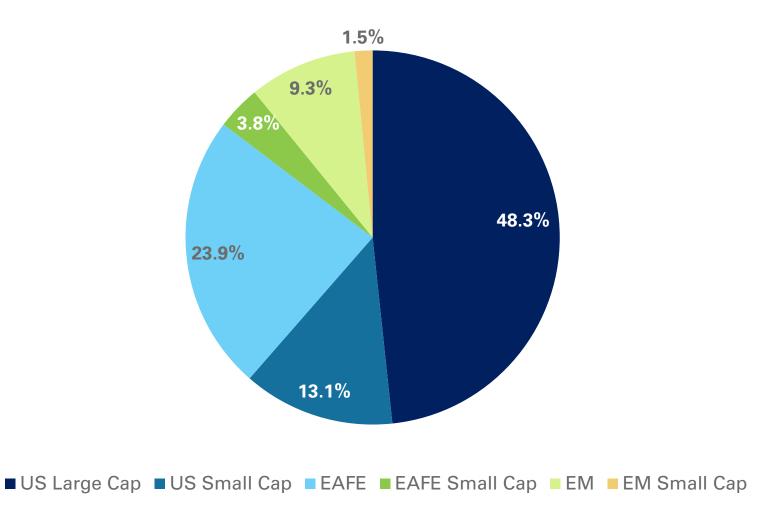


EQUITY INDEX PERFORMANCE





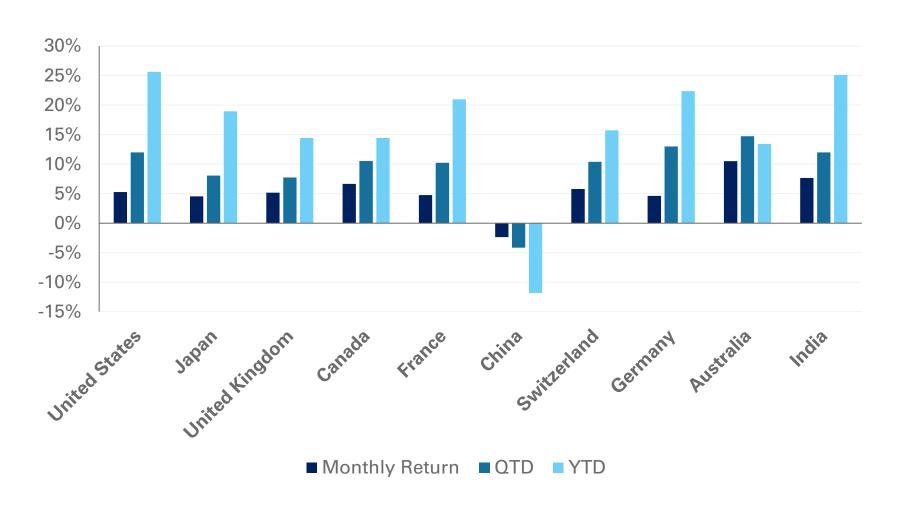
MSCI ACWI IMI WEIGHTS





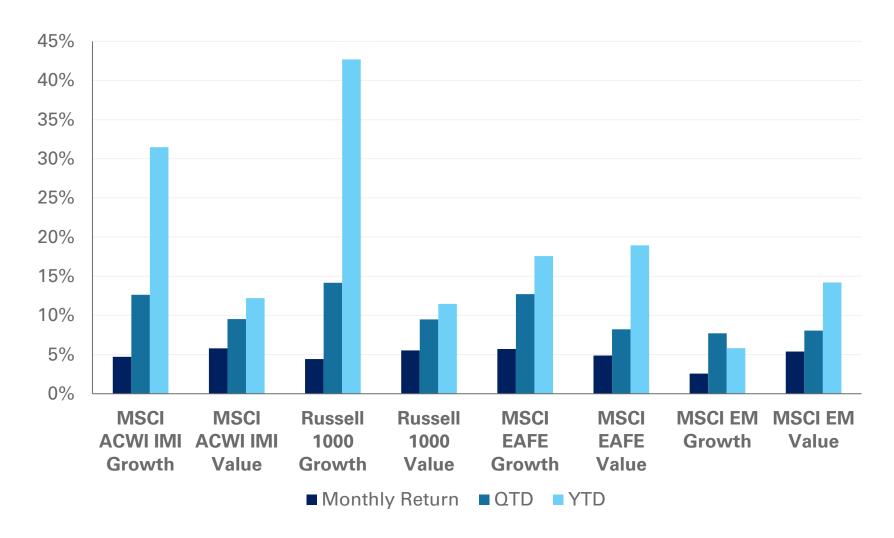
EQUITY INDEX PERFORMANCE

TOP 10 COUNTRIES BY MARKET CAP IN MSCI ACWI IMI INDEX





STYLE INDEX PERFORMANCE





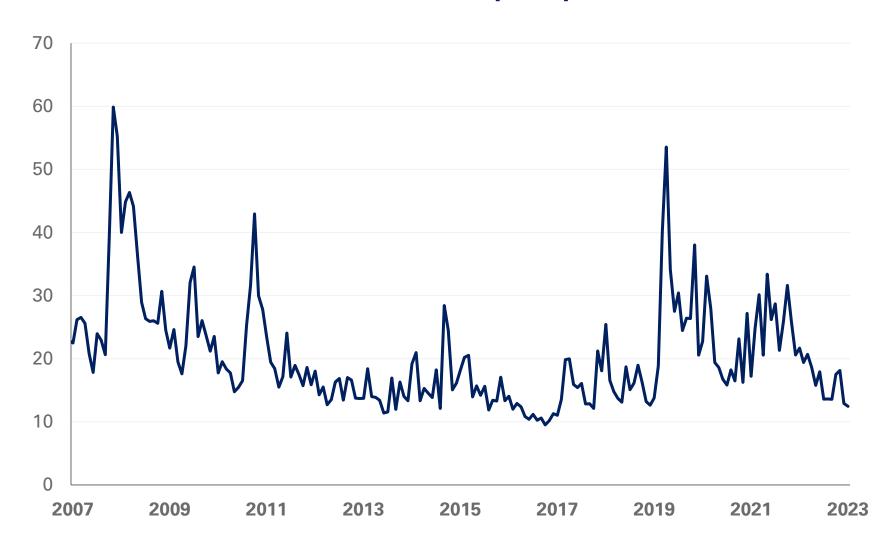
SECTOR INDEX PERFORMANCE

| | Monthly Return | QTD | YTD | Index Weight |
|------------------------|----------------|-------|-------|--------------|
| MSCI ACWI IMI | 5.2% | 11.1% | 21.6% | 100.0% |
| Communication Services | 3.7% | 9.3% | 36.0% | 6.9% |
| Consumer Discretionary | 5.5% | 10.3% | 28.1% | 11.3% |
| Consumer Staples | 3.0% | 5.6% | 3.2% | 6.5% |
| Energy | 0.6% | -3.0% | 5.4% | 4.5% |
| Financials | 6.2% | 12.8% | 15.3% | 15.7% |
| Health Care | 5.1% | 6.6% | 3.9% | 11.1% |
| Industrials | 7.7% | 12.9% | 22.2% | 11.6% |
| Information Technology | 4.8% | 17.4% | 49.7% | 21.7% |
| Materials | 6.7% | 11.6% | 13.1% | 4.9% |
| Real Estate | 8.7% | 15.7% | 8.4% | 3.0% |
| Utilities | 3.8% | 10.5% | 0.3% | 2.6% |

| | Monthly Return | QTD | YTD | Index Weight |
|------------------------|----------------|-------|-------|--------------|
| S&P 500 | 4.5% | 11.7% | 26.3% | 100.0% |
| Communication Services | 4.8% | 11.0% | 55.8% | 8.6% |
| Consumer Discretionary | 6.1% | 12.4% | 42.4% | 10.9% |
| Consumer Staples | 2.7% | 5.5% | 0.5% | 6.2% |
| Energy | 0.0% | -6.9% | -1.3% | 3.9% |
| Financials | 5.4% | 14.0% | 12.1% | 13.0% |
| Health Care | 4.3% | 6.4% | 2.1% | 12.6% |
| Industrials | 7.0% | 13.1% | 18.1% | 8.8% |
| Information Technology | 3.8% | 17.2% | 57.8% | 28.9% |
| Materials | 4.6% | 9.7% | 12.5% | 2.4% |
| Real Estate | 8.7% | 18.8% | 12.4% | 2.5% |
| Utilities | 1.9% | 8.6% | -7.1% | 2.3% |

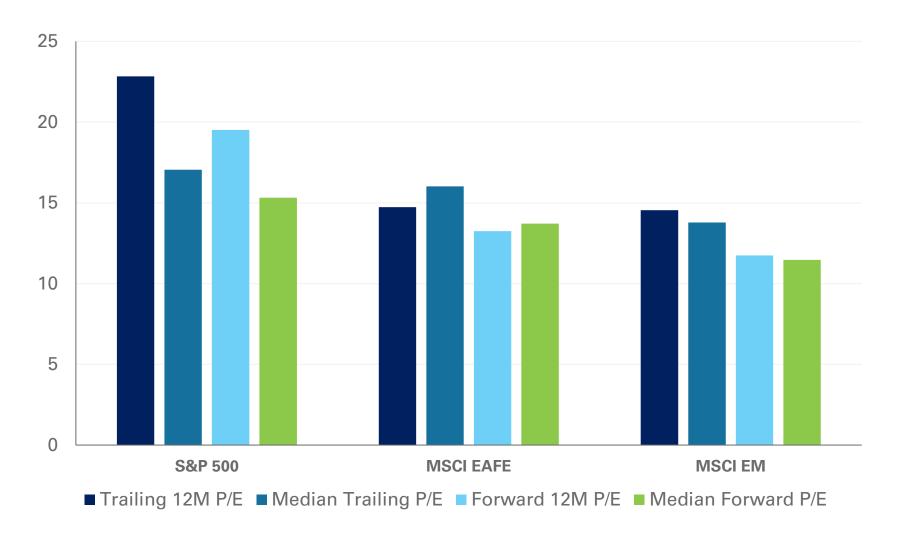


EQUITY VOLATILITY INDEX (VIX)





GLOBAL EQUITY VALUATIONS

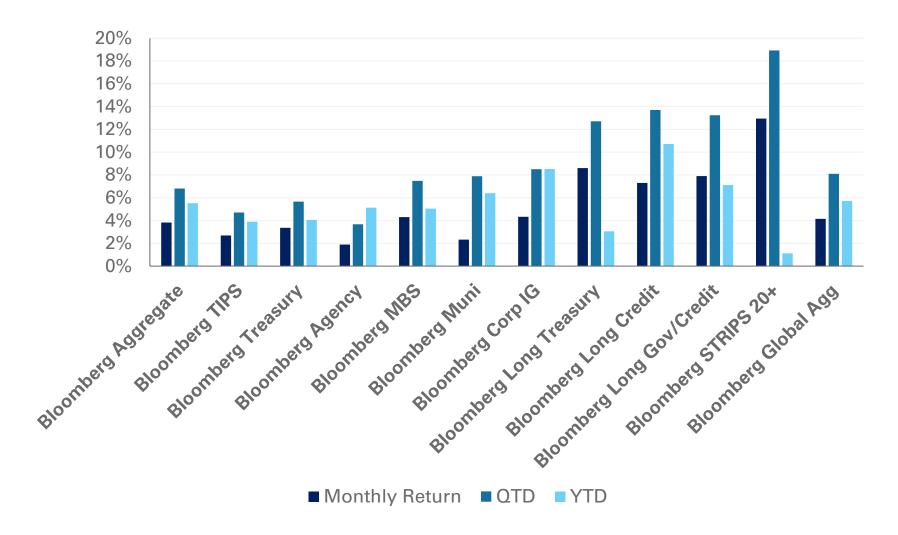








SAFE-HAVEN FIXED INCOME PERFORMANCE



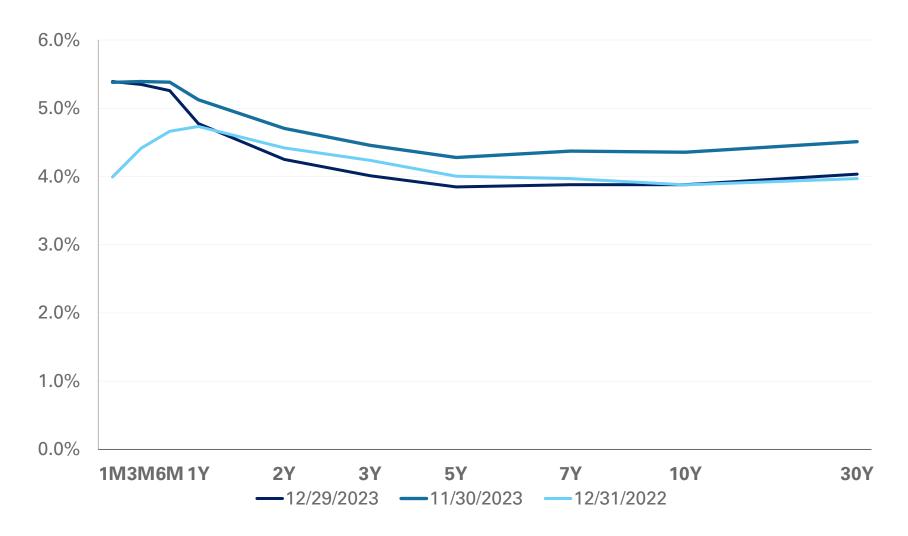


FIXED INCOME CHARACTERISTICS

| | Yield to Worst | Spread (bps) | Duration (Years) |
|---------------------------|----------------|--------------|------------------|
| Bloomberg Aggregate | 4.53% | 42 | 6.2 |
| Bloomberg TIPS | 4.24% | - | 5.9 |
| Bloomberg Treasury | 4.08% | - | 6.2 |
| Bloomberg Agency | 4.46% | 17 | 3.2 |
| Bloomberg MBS | 4.68% | 47 | 5.9 |
| Bloomberg Muni | 3.22% | - | 6.1 |
| Bloomberg Corp IG | 5.06% | 99 | 7.1 |
| Bloomberg Long Treasury | 4.14% | - | 15.7 |
| Bloomberg Long Credit | 5.22% | 117 | 13.0 |
| Bloomberg Long Gov/Credit | 4.71% | 62 | 14.3 |
| Bloomberg STRIPS 20+ | 4.14% | - | 25.2 |
| Bloomberg Global Agg | 3.51% | 43 | 6.7 |

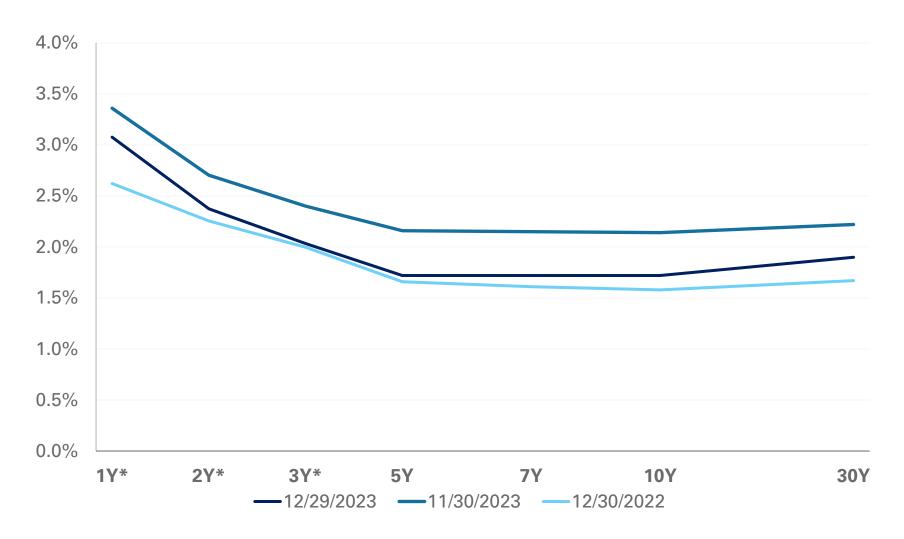


US TREASURY YIELD CURVE



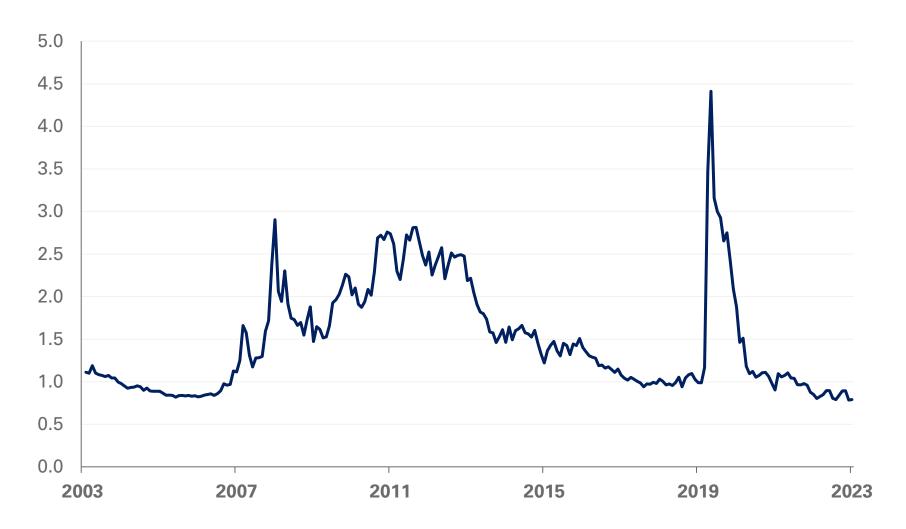


US TREASURY REAL YIELD CURVE



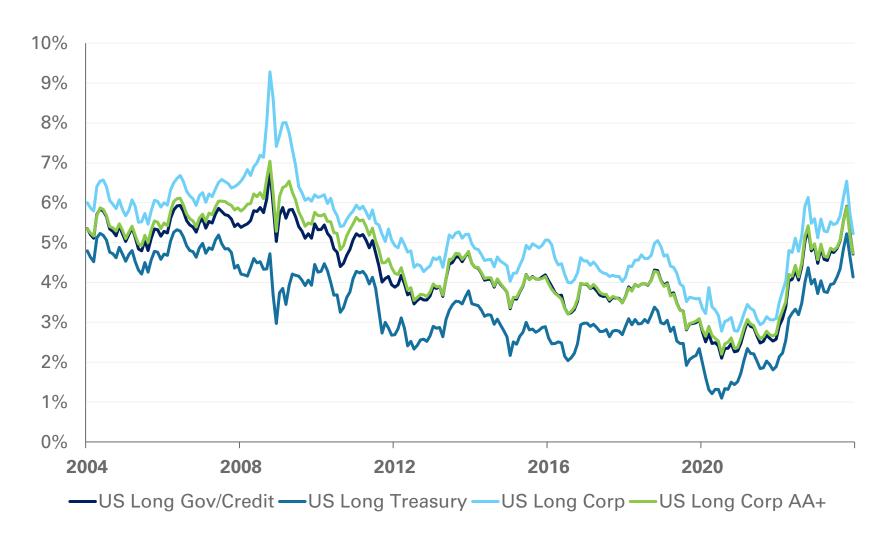


MUNI-TO-TREASURY RATIO





LONG DURATION YIELDS





LONG DURATION CORPORATE SPREADS









RETURN-SEEKING CREDIT INDEX PERFORMANCE



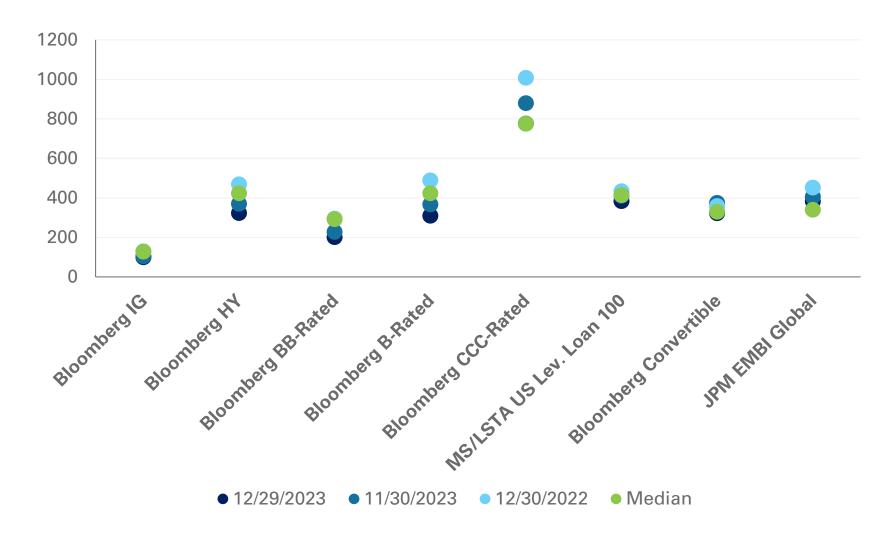


RETURN-SEEKING CREDIT CHARACTERISTICS

| | Yield to Worst | Spread (bps) | Duration (Years) |
|----------------------------|----------------|--------------|------------------|
| Bloomberg HY Muni | 5.57% | - | 7.1 |
| Bloomberg High-Yield | 7.59% | 323 | 3.2 |
| Bloomberg BB-Rated | 6.34% | 201 | 3.5 |
| Bloomberg B-Rated | 7.52% | 310 | 2.9 |
| Bloomberg CCC-Rated | 12.11% | 776 | 2.8 |
| MS/LSTA Leveraged Loan 100 | 9.43% | 383 | - |
| Bloomberg Convertible Bond | 0.81% | 322 | 1.9 |
| JPM EMBI Global | 7.85% | 383 | 6.8 |
| JPM GBI - EM | 4.67% | - | 5.5 |



CREDIT SPREADS

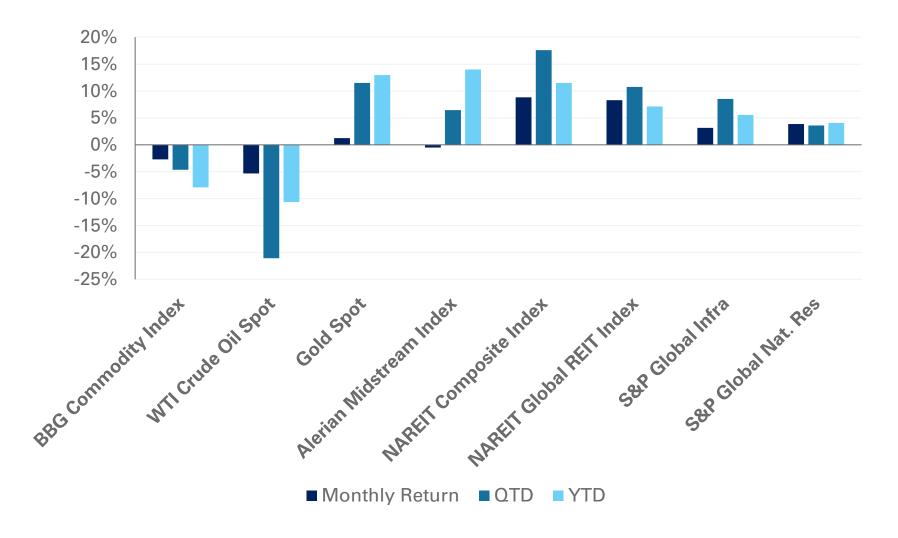








REAL ASSETS INDEX PERFORMANCE





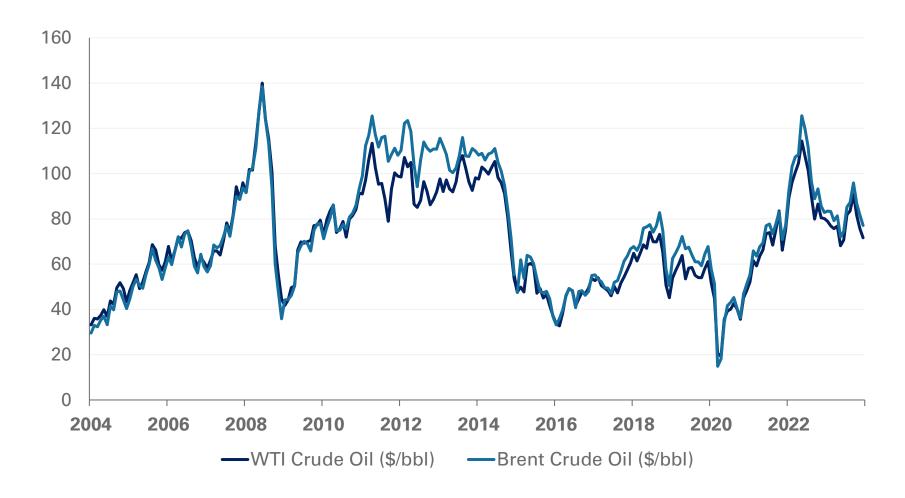
REAL ASSETS INDEX PERFORMANCE

| Index | 1 Month | 3 Month | YTD | 1 Year | 3 Year | 5 Year |
|---------------------------------|---------|---------|--------|--------|--------|--------|
| Bloomberg Commodity Index | -2.7% | -4.6% | -7.9% | -7.9% | 10.7% | 7.2% |
| Bloomberg Sub Agriculture Index | -4.4% | -0.3% | -4.4% | -4.4% | 11.8% | 10.6% |
| Coffee | 2.4% | 33.2% | 25.1% | 25.1% | 16.9% | 10.2% |
| Corn | -2.0% | -2.9% | -17.6% | -17.6% | 10.8% | 7.8% |
| Cotton | 1.6% | -8.8% | 1.5% | 1.5% | 10.4% | 6.7% |
| Soybean | -4.3% | 0.3% | 2.0% | 2.0% | 12.5% | 13.3% |
| Soybean Oil | -7.3% | -11.4% | -16.9% | -16.9% | 17.4% | 17.6% |
| Sugar | -20.6% | -21.2% | 19.4% | 19.4% | 18.0% | 13.1% |
| Wheat | 5.5% | 12.8% | -26.4% | -26.4% | -6.5% | -0.3% |
| Bloomberg Sub Energy | -6.0% | -18.1% | -21.6% | -21.6% | 17.5% | 0.8% |
| Brent Crude | -4.0% | -13.0% | -0.9% | -0.9% | 32.4% | 16.6% |
| Heating Oil | -6.7% | -17.3% | -2.9% | -2.9% | 44.1% | 18.1% |
| Natural Gas | -10.1% | -24.6% | -65.3% | -65.3% | -19.0% | -27.9% |
| Unleaded Gas | -3.3% | -10.1% | 7.6% | 7.6% | 39.4% | 22.0% |
| WTI Crude Oil | -5.6% | -17.5% | -2.0% | -2.0% | 25.5% | 5.6% |
| Bloomberg Sub Industrial Metals | 4.0% | 0.2% | -9.1% | -9.1% | 4.9% | 7.5% |
| Aluminum | 8.4% | 0.7% | -1.1% | -1.1% | 5.3% | 3.1% |
| Copper | 1.5% | 4.3% | 4.7% | 4.7% | 4.8% | 8.7% |
| Nickel | -0.3% | -11.2% | -44.4% | -44.4% | 0.7% | 9.5% |
| Zinc | 7.8% | 0.9% | -6.1% | -6.1% | 2.4% | 4.7% |
| Bloomberg Sub Precious Metals | -0.4% | 10.4% | 9.6% | 9.6% | 1.0% | 8.6% |
| Gold | 1.1% | 11.4% | 12.8% | 12.8% | 2.3% | 8.9% |
| Silver | -5.7% | 7.2% | -0.3% | -0.3% | -3.5% | 7.8% |
| Bloomberg Sub Livestock | -2.4% | -9.0% | -1.9% | -1.9% | 4.6% | -3.8% |
| Lean Hogs | -4.5% | -8.5% | -21.9% | -21.9% | 3.4% | -9.4% |
| Live Cattle | -1.5% | -9.2% | 10.5% | 10.5% | 4.9% | -0.8% |



OIL MARKETS

WTI VERSUS BRENT CRUDE SPOT PRICES





GOLD SPOT PRICE











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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.

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

